The monograph is devoted to topical issues of the conceptual model of building a complex of scenarios for the functioning of consumer cooperatives of Ukraine as a social and economic system in the structure of the national economy. It describes the characteristics of the parameters of the main goal of consumer cooperation, its tasks, policies and measures and proposes a block diagram of the process of analytical strategic planning of its functioning. The scenario of the functioning of consumer cooperation of Ukraine as a holistic socio-economic system in the conditions of the European vector of development of Ukraine is developed. The scenario of the possibilities of improving the functioning of consumer cooperation of Ukraine as a holistic socio-economic system in the structure of the national economy is developed. The simulation model of its functioning is developed on the basis of coordination of interests of consumer cooperatives with the state. The monograph is aimed at a wide audience of readers - managers of large companies, organizations, enterprises. Academics and Lecturers, graduate students and students, as well as specialists in consulting companies.



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Academic Publishing



Taran-Lala Olena PhD, Associate Professor Scientific problem: Effective Functioning of Socio-economic Systems, Strategic Management, Controlling, Management of Security in the Tourism Business, Quality Management System.

# Conceptual Model Construction of Complex Scenarios





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### TARAN-LALA OLENA

## CONCEPTUAL MODEL CONSTRUCTION OF COMPLEX SCENARIOS FUNCTIONING OF THE CONSUMER COOPERATION OF UKRAINE AS A SOCIO-ECONOMIC SYSTEM IN THE STRUCTURE OF THE NATIONAL ECONOMY

Monograph

2017

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### SUMMARY

The monograph is devoted to topical issues of the conceptual model of building a complex of scenarios for the functioning of consumer cooperatives of Ukraine as a social and economic system in the structure of the national economy. It describes the characteristics of the parameters of the main goal of consumer cooperation, its tasks, policies and measures and proposes a block diagram of the process of analytical strategic planning of its functioning. The scenario of the functioning of consumer cooperation of Ukraine as a holistic socio-economic system in the conditions of the European vector of development of Ukraine is developed. The scenario of the possibilities of improving the functioning of consumer cooperation of Ukraine as a holistic socio-economic system in the structure of the national economy is developed. The simulation model of its functioning is developed on the basis of coordination of interests of consumer cooperatives with the state.

The monograph is aimed at a wide audience of readers - managers of large companies, organizations, enterprises. Academics and Lecturers, graduate students and students, as well as specialists in consulting companies.

Chapter 1. Analytical strategic planning of the functional process a Ukraine's consumer cooperation as a holistic socio-economic system in the structure of the national economy by increasing its efficiency

There was conducted an analytical strategic planning a functioning system of Ukraine consumer cooperation as an integral social and economic system in the structure of the national economy by increasing its effectiveness. Planning has been done on the basis of the collected data and practical testing of the conceptual building model of the scenario complex for the functioning of the Ukraine consumer cooperation in the structure of the Ukraine's national economy (Kyiv).

Analytical Strategic Planning is the process of learning and evolution, that means, the process of designing a probable or logical future (a generalized scenario) and idealized desired future states.

Let's separate three principle approaches to planning.

Satisfactory planning involves achieving the desired results, but not necessarily the best of them. A satisfactory level is defined as the level agreed upon by the decision makers. Such planning does not always lead to radical changes. As a rule, it generates conservative plans that correct only obvious disadvantages and don't contribute to development and growth.

Optimization planning is aimed at the best implementation of programs, it brings more benefits to tactical planning than to strategic ones, since in the first case the full definition of the source data in the present and future is typical, and the optimized methods are best adapted for this situation. For optimization planning, the following tasks are typical:

1) Minimizing the resource required to achieve the intended level of efficiency;

2) Maximizing the efficiency that can be achieved with the available resource of the resource;

3) Maximizing the ratio of efficiency to costs.

Analytical strategic planning is aimed at fulfilling tasks that are characterized by ignorance and uncertainty of the future.

From the point of view of analytical planning, we will consider the problem of a functioning a Ukraine's cooperation consumer as an integral social and economic system.

The mechanism of direct and reverse processes lies on the basis of analytical strategic planning; let's consider it in more detail, relying on the method of analysis of hierarchies [2–6].

Note that hierarchical planning systems consist of specific elements that include: the focus of the hierarchy, actors, goals, policies, measures, scenarios and a generalized scenario. The focus of the hierarchy is the general purpose of the problem under investigation. In our case, this is the level of functioning of Ukraine's consumer cooperation as an integral social and economic system in the structure of the national economy. This hierarchical level may consist of relevant ranges (multiple time intervals). Actors are called effective forces that have varying degrees of impact on the outcome.

In the context of this study, actors should understand the parameters of the system that determine its integrity, orderliness, stability, self-management and management, that means, the parameters of the main goal of Ukraine's cooperation consumer as a holistic socio-economic system. We will single out the following parameters of the system, such as: intelligence (intelligence and programming – the controlled part); natural and production base (energy resources, management parts, communications); health (normal condition of all parts of the system); organization (organization and adaptation) – self-organization (self-organization and self-adaptation); regulation (homeostat, discipline) self-regulation (self-homeostat, self-discipline) by analyzing the effective forces that influence the final state of our problem.

Goals are desired limits or values that they hope to achieve.

Policies are authorized means for achieving goals that are realized through well-known decision-making procedures.

Measures are a system of decision-making procedures on the functioning of Ukraine's cooperation consumer as an integral social and economic system.

Scenarios are the potential states of the system that were obtained after applying policies and implementing measures.

The generalized scenario is the future level of functioning of the Ukraine's consumer cooperation as a coherent socio-economic system in the structure of the national economy, which integrates separate contrasting scenarios in order to assess the consequences of planned decisions and the consequences of the parliaments of the system. A generalized scenario allows you to integrate the values of individual scenarios to assess the implications of decisions which had been taken during the planning.

The analysis of the problem led to the definition of the following goals, policies and measures on the parameters of the main goal of Ukraine's consumer cooperation as a holistic socio-economic system (Table 1).

Table 1

The generalized description of the parameters of the main goal, policies and measures of Ukraine's consumer cooperation as a holistic socio-economic system

| System<br>Options | Goals   | Policies   | Activities  |
|-------------------|---|--|---|
| А                 | В   | С  | D   |
| Intellect (I)     | Ensuring the<br>achievement of the<br>main and functional<br>objectives of the<br>system on the basis<br>of differentiation,<br>integration,<br>standardization,<br>universalization,<br>reproduction,<br>perspective,<br>operational and | <ul> <li>I.1 Standardization of the components of the system, connections and processes in it, with a view to unification and interchangeability.</li> <li>I.2 Distribution of the system to individual (specialized) parts for the purpose of qualitative performance of its functions by each part.</li> </ul> | <ul> <li>I.1.1. Standardize the components of the system, communications and processes that take place in it, with the goal of unification and interchangeability.</li> <li>I.2.1. Distribute the system to individual (specialized) parts for the purpose of qualitative performance of its functions by each part.</li> </ul> |
|                   | current planning,<br>coordination, control,<br>diagnosis and<br>correction  | I.3. Integration of specialized systems in order to enhance their protection against adverse environmental impacts.  | I.3.1. To unite specialized subsystems in order to strengthen them and protect against adverse environmental effects.   |

| А | В | С                            | D                                    |
|---|---|------------------------------|--------------------------------------|
|   |   | I.4. Creating a database of  | I.4.1. Create a database of standard |
|   |   | standard hereditary and      | hereditary and standard non-         |
|   |   | standard non-hereditary      | hereditary programs as a             |
|   |   | programs as a condition      | prerequisite for choosing the best   |
|   |   | for selecting the optimal in | one in each particular case and as a |
|   |   | each case and as the basis   | basis for the formation of non-      |
|   |   | for the formation of non-    | standard programs.                   |
|   |   | standard programs            | 1.4.2 Identify the approach to       |
|   |   | standard programs.           | 1.4.2. Identify the approach to      |
|   |   |                              | system management by consumer        |
|   |   |                              | L4.3 Provide complete timely and     |
|   |   |                              | sufficient information on the        |
|   |   |                              | sufficient information of consumer   |
|   |   |                              | relationship of consumer             |
|   |   |                              | development of Ukraina's             |
|   |   |                              | aconomy as a whole                   |
|   |   | 15 Doplocoment of failed     | L 5 1 Doplage outdated subsystems    |
|   |   | 1.5. Replacement of falled   | 1.5.1. Replace outdated subsystems   |
|   |   | subsystems of part of the    | of the system                        |
|   |   | subsystems as part of the    | of the system.                       |
|   |   | System.                      | I 6.1 Coving the eveter in a         |
|   |   | 1.6 Saving the system in a   | 1.0.1. Saving the system in a        |
|   |   | changing environment.        | Le 2 Provide strategie               |
|   |   |                              | 1.0.2. Flovide strategic             |
|   |   |                              | reliable information on the          |
|   |   |                              | organization of consumer             |
|   |   |                              | cooperation shareholders             |
|   |   |                              | financial status                     |
|   |   |                              | 16.2 Form sufficient attention to    |
|   |   |                              | the interests of the subsystems of   |
|   |   |                              | the consumer cooperation systems of  |
|   |   |                              | 164 To support mechanisms of         |
|   |   |                              | cooperation and integration of       |
|   |   |                              | small and medium enterprises by      |
|   |   |                              | local authorities                    |
|   |   | I7 Organizing the            | I 7.1 Arrange the structure in a     |
|   |   | structure in a changing      | changing environment                 |
|   |   | environment                  | 172 To integrate into the            |
|   |   |                              | international community a system     |
|   |   |                              | of consumer cooperation              |
|   |   |                              | (International Cooperative           |
|   |   |                              | Alliance, Eurocoon etc.)             |
|   |   | L8. Checking the status of   | L8.1. Check the status of the        |
|   |   | the system at any given      | system at any given time             |
|   |   | time.                        | 18.2. Create a system of             |
|   |   |                              | motivational activity that ensures   |
|   |   |                              | socio-economic development of all    |
|   |   |                              | actors involved in the system of     |

| А           | В                       | С                         | D                                   |
|-------------|-------------------------|---------------------------|-------------------------------------|
|             |                         |                           | consumer cooperation.               |
|             |                         | I.9 Accepting operational | I.9.1. Approve operational          |
|             |                         | decisions adequately to   | decisions adequately to changing    |
|             |                         | changing conditions,      | conditions, based on monitoring     |
|             |                         | based on data monitoring  | data and diagnostics using a        |
|             |                         | and diagnosis using a     | database of standard programs.      |
|             |                         | database of standard      | I.9.2. It is rational to choose and |
|             |                         | programs.                 | thoroughly substantiate ways to     |
|             |                         |                           | strengthen the competitiveness of   |
|             |                         |                           | the system of consumer              |
|             |                         |                           | cooperation by constructing an      |
|             |                         |                           | appropriate structure that will     |
|             |                         |                           | ensure sustainable development of   |
|             |                         |                           | the national economy.               |
|             |                         |                           | I.9.3. To form and implement a      |
|             |                         |                           | forward-looking offensive strategy  |
|             |                         |                           | of consumer cooperation.            |
|             |                         |                           | I.9.4. Modernize management         |
|             |                         |                           | structures with an emphasis on      |
|             |                         |                           | economic growth and efficiency.     |
|             |                         |                           | I.9.5. Complete the transition from |
|             |                         |                           | the satisfaction of an essential    |
|             |                         |                           | primary needs (mainly material      |
|             |                         |                           | and physiological) to meet the      |
|             |                         |                           | social and economic needs of        |
|             |                         |                           | higher order, which will ensure the |
|             |                         |                           | harmonious development of man.      |
|             |                         | I.10 Adjustment of        | I.10.1. Adjust previously made      |
|             |                         | previously made           | decisions.                          |
|             |                         | decisions.                |                                     |
|             |                         | NPB.1. Reproduction of a  | NPB.1.1. Ensure the dynamic and     |
|             |                         | variety of natural        | effective development of            |
|             |                         | subsystems, in which      | production of those or those        |
|             | Achievement of the      | some systems provide      | products as the basis of consumer   |
|             | main and functional     | others.                   | cooperatives activities.            |
|             | goals of the system     |                           | NPB.1.2. Get revenue from the       |
| NT / 1 1    | through the             |                           | production of a particular product  |
| Natural and | formation,              |                           | and implement it on market in       |
| production  | development and         |                           | order to meet the needs of non-     |
| base (NPB)  | implementation with     |                           | members of consumer cooperation.    |
|             | the greatest            |                           | NPB.1.3. Distribute profits among   |
|             | enciency of its         |                           | the members of consumer             |
|             | energy carrier,         |                           | cooperation, on the one hand, in    |
|             | territorial industrial  |                           | needs in accordance with the        |
|             | territoriai, industrial |                           | charter on the other in order to    |
|             |                         |                           | ansura the dynamic dayslopment      |
|             |                         |                           | of the main types of consumer       |
|             | 1                       | 1                         | or the main types of consumer       |

Continued tab.1

| А | В                   | С                      | D                                  |                             |
|---|---------------------|------------------------|------------------------------------|-----------------------------|
|   | D                   |                        | cooperatives                       |                             |
|   |                     |                        | NDP 1.4 Support the integration    |                             |
|   |                     |                        | of aconomic transport financial    |                             |
|   |                     |                        | of economic, transport, infancial  |                             |
|   |                     |                        | and information links.             |                             |
|   |                     |                        | NPB.1.5. Create a single           |                             |
|   |                     |                        | operational chain: agricultural    |                             |
|   |                     |                        |                                    | production and harvesting – |
|   |                     | pr                     | processing – trade.                |                             |
|   |                     |                        | NPB.1.6. Ensure a growing market   |                             |
|   |                     |                        | for products of exclusive (home)   |                             |
|   |                     |                        | quality, which can be demanded by  |                             |
|   |                     |                        | the most demanding consumers in    |                             |
|   |                     |                        | the trade network and catering     |                             |
|   |                     |                        | enterprises.                       |                             |
|   |                     |                        | NPB.1.7. To increase the volume    |                             |
|   |                     |                        | of purchases of agricultural       |                             |
|   |                     |                        | products and wild raw materials,   |                             |
|   |                     |                        | and, consequently, the volume of   |                             |
|   |                     |                        | processing and production.         |                             |
|   |                     |                        | NPB.1.8. Increase the trade        |                             |
|   |                     |                        | resources at the expense of joint  |                             |
|   | 1 .1                |                        | stock companies, individual        |                             |
|   | and other           |                        | labour, folk crafts, hunting,      |                             |
|   | subsystems, as well |                        | fishing, and animal husbandry.     |                             |
|   | as information,     | NPB.2. Restoration of  | NPB.2.1. Develop measures to       |                             |
|   | resource and        | production (social and | increase investment attractiveness |                             |
|   | transport links.    | technical) base.       | within the framework of the        |                             |
|   |                     |                        | implementation of investment       |                             |
|   |                     |                        | programs of consumer cooperation   |                             |
|   |                     |                        | of different levels.               |                             |
|   |                     |                        | NPB.2.2. To develop financing of   |                             |
|   |                     |                        | the rural population, to implement |                             |
|   |                     |                        | microfinance programs.             |                             |
|   |                     |                        | NPB 2.3 Eliminate deformations     |                             |
|   |                     |                        | in material and technical and      |                             |
|   |                     |                        | financial policies in the consumer |                             |
|   |                     |                        | cooperation system                 |                             |
|   |                     |                        | NPB 2.4 Provide a high level of    |                             |
|   |                     |                        | interaction of information support |                             |
|   |                     |                        | a unified strategy development     |                             |
|   |                     |                        | investment attractiveness          |                             |
|   |                     |                        | NPR 2.5 To ensure the dynamics     |                             |
|   |                     |                        | of consumer cooperation            |                             |
|   |                     |                        | development                        |                             |
|   |                     |                        | NPR 2.6 To form the accumulated    |                             |
|   |                     |                        | sources of funding for the         |                             |
|   |                     |                        | development of promising and       |                             |
|   |                     |                        | compatitive organizations land     |                             |
|   |                     |                        | competitive organizations, large-  |                             |

Continued tab.1

| A       B       C       D         scale projects.       NPB.2.7. To form competitive advantages of the system of consumer cooperation.       NPB.2.8. To involve the cooperative sector of the economy in the process of cooperative-integration interaction with other economic actors of market relations.         NPB.2.9. Create real conditions for the recovery of large-scale harvesting activities.       NPB.2.10. Create real conditions for retailing on a large scale.         NPB.2.11. To create real conditions for the restoration on a large scale.       NPB.2.12. Create real conditions for the hotel-restaurant-restaurant business on a large scale.         NPB.2.13. Ensure the preservation of the material and technical basis       NPB.2.13. Ensure the preservation |
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| NPB.2.11. 10 create real<br>conditions for wholesale<br>restoration on a large scale.<br>NPB.2.12. Create real conditions<br>for the restoration of the hotel-<br>restaurant-restaurant business on a<br>large scale.<br>NPB.2.13. Ensure the preservation<br>of the material and technical basis  |
| restoration on a large scale.<br>NPB.2.12. Create real conditions<br>for the restoration of the hotel-<br>restaurant-restaurant business on a<br>large scale.<br>NPB.2.13. Ensure the preservation<br>of the material and technical basis  |
| NPB.2.12. Create real conditions<br>for the restoration of the hotel-<br>restaurant-restaurant business on a<br>large scale.<br>NPB.2.13. Ensure the preservation<br>of the material and technical basis   |
| for the restoration of the hotel-<br>restaurant-restaurant business on a<br>large scale.<br>NPB.2.12. Create real conditions<br>for the restoration of the hotel-<br>restaurant-restaurant business on a<br>large scale.   |
| nor the restoration of the noter-<br>restaurant-restaurant business on a<br>large scale.<br>NPB.2.13. Ensure the preservation<br>of the material and technical basis   |
| restaurant-restaurant business on a large scale.         NPB.2.13. Ensure the preservation of the material and technical basis   |
| NPB.2.13. Ensure the preservation<br>of the material and technical basis   |
| NPB.2.13. Ensure the preservation<br>of the material and technical basis   |
| of the material and technical basis  |
|  |
| of consumer cooperation.   |
| H.I. Ensuring the H.I.I. To satisfy the interests and  |
| qualitative state of needs of both members of  |
| intelligence, the natural-consumer cooperatives and  |
| production base and the consumers of their products.   |
| quality of management in H.1.2. To work with shareholders  |
| accordance with the to maintain and multiply their   |
| functioning of the system. number.   |
| Achievement of the H.1.3. Restore the social priorities  |
| main and functional of the functioning of the system of  |
| goals of the system  |
| Hoalth (H) due to qualitative interests and meet the needs of  |
| support of life shareholding members, employees  |
| and consumers – not members of   |
| creating and me-<br>consumer societies.  |
| the surface guaranteed H.1.4. Ensure guaranteed  |
| protection of interests and  |
| satisfaction of socio-economic and   |
| other needs of shareholding  |
| members and employees of   |
| consumer cooperatives, as well as  |
| serviced population, ensuring the  |
| balance of interests of all actors   |
| involved in the system of  |

Continued tab.1

| А | В | С                          | D                                    |
|---|---|----------------------------|--------------------------------------|
|   |   |                            | consumer cooperation and form a      |
|   |   |                            | socially oriented type of relations  |
|   |   |                            | of consumer cooperation.             |
|   |   |                            | H.1.5. Ensure proper account of      |
|   |   |                            | the shareholders.                    |
|   |   |                            | H.1.6. Ensure the recovery and       |
|   |   |                            | development of a consumption         |
|   |   |                            | culture.                             |
|   |   |                            | H.1.7. Ensure optimization of tax    |
|   |   |                            | payments, development of social      |
|   |   |                            | sphere and protection of social and  |
|   |   |                            | economic interests of shareholders.  |
|   |   |                            | H.1.8. Ensure sustainable            |
|   |   |                            | economic growth and balanced         |
|   |   |                            | social development.                  |
|   |   |                            | H.1.9. Ensure the growth of scale    |
|   |   |                            | through the strengthening of         |
|   |   |                            | interaction with shareholders as     |
|   |   |                            | members of procurement activities    |
|   |   |                            | and loyal buyers of goods            |
|   |   |                            | cooperative trade networks.          |
|   |   |                            | H.1.10. Ensure replenishment of      |
|   |   |                            | the main and circulating assets of   |
|   |   |                            | cooperative organizations at the     |
|   |   |                            | expense of the unit fund as a result |
|   |   |                            | of the accession of new members,     |
|   |   |                            | increase of share contribution, as   |
|   |   |                            | well as borrowers of shares, the     |
|   |   |                            | involvement of snareholders in       |
|   |   |                            | investing in consumer                |
|   |   |                            | cooperatives.                        |
|   |   |                            | demand of the nonvestion and to      |
|   |   |                            | intensify and duction in much and to |
|   |   | H 2 Exemption              | H 2 1 Create new jobs and the        |
|   |   | n.2. Formation,            | n.2.1. Cleate new jobs and the       |
|   |   | implementation with the    | professional level improving the     |
|   |   | greatest efficiency of     | production housing living and        |
|   |   | personnel potential of the | other conditions of their members    |
|   |   | system                     | and hired workers                    |
|   |   | system.                    | H 2 2 Ensure full-scale              |
|   |   |                            | development of the personnel         |
|   |   |                            | potential of the whole system of     |
|   |   |                            | consumer cooperation                 |
|   |   |                            | H.2.3. Ensure the preservation of    |
|   |   |                            | the personnel potential of           |
|   |   |                            | consumer cooperatives and its        |
|   |   |                            | material and technical base.         |

| А            | В                      | С                            | D   |
|--------------|------------------------|------------------------------|---|
|              |                        |                              | H.2.4. To increase the overall legal              |
|              |                        |                              | and financial literacy of the                     |
|              |                        |                              | management, employees of                          |
|              |                        |                              | financial, economic and legal                     |
|              |                        |                              | services.   |
|              |                        | OA.1. Formation of the       | OA.1.1. To provide conditions for                 |
|              |                        | expedient structure of the   | the creation of an infrastructure of              |
|              |                        | system due to the            | consumer cooperation, adequate                    |
|              |                        | formation of unequal parts   | stage of the regulated market                     |
|              |                        | (controlled, control links). | economy of socially oriented                      |
|              |                        |                              | society.  |
|              |                        |                              | OA.1.2. Ensure the formation of a                 |
|              |                        |                              | social-oriented type of relations of              |
|              |                        |                              | consumer cooperation.                             |
|              |                        |                              | OA.1.3. Ensure uniformity in size,                |
|              |                        |                              | composition and organizational                    |
|              |                        |                              | and legal forms of organization of                |
|              | Achievement of the     |                              | the system of consumer                            |
|              | main and functional    | QA2 It is some list to       | cooperation.                                      |
| Organization | goals of the system by | OA.2. It is expedient to     | OA.2.1. Provide regulated                         |
| and          | maintaining the        | place subsystems in the      | hetween organizations of                          |
| Adaptation   | ordering of the        | system.                      | consumer cooperation                              |
| (OA)         | system in standard     | OA 2.1 Provide regulated     | OA 3.1 Provide a distribution                     |
|              | and non-standard       | mechanisms for               | between the subsystems of the                     |
|              | conditions.            | interaction between          | system of corresponding functions.                |
|              |                        | organizations of consumer    | OA.3.2. Implement new methods                     |
|              |                        | cooperation.                 | of work in the field of analysis,                 |
|              |                        | -                            | planning, control and stimulation.                |
|              |                        | OA.4. Providing the          | OA.4.1. Provide the choice of all                 |
|              |                        | choice of all standard and   | standard and non-standard                         |
|              |                        | non-standard programs is     | programs of the most optimal.                     |
|              |                        | the most optimal.            |   |
|              |                        | OA.5. The implementation     | OA.5.1. Implement the principles                  |
|              |                        | of the principles of         | of optimality and continuity, as                  |
|              |                        | optimality and continuity,   | well as ensure the construction and               |
|              |                        | as well as the construction  | functioning of the system in                      |
|              |                        | and operation of the         | accordance with certain specific                  |
|              |                        | system in accordance with    | rules and laws (standards). $\Box = \Delta f = 2$ |
|              |                        | general certain rules and    | OA.J.2. 10 concentrate                            |
|              |                        | iaws (stanuarus).            | measures on the exit of the system                |
|              |                        |                              | of consumer cooperation in crisis                 |
|              |                        |                              | restoration of the principles of                  |
|              |                        |                              | cooperative movement the                          |
|              |                        |                              | formation of an effective socially-               |
|              |                        |                              | oriented management system for                    |
|              |                        |                              | the development of consumer                       |

| А | В | С  | D   |
|---|---|--|---|
|   |   |  | cooperation.  |
|   |   | OA.6. Ensuring the interchangeability of parts of the system, as well as continuity, contributing to optimal management.   | OA.6.1. Ensure the interchangeability of parts of the system, as well as continuity, contributing to optimal management.  |
|   |   | OA.7. Distribution and<br>association, individualism<br>and collectivism,<br>specialization and<br>universalization,<br>implementation of the<br>system of their individual<br>functions of<br>interchangeability, mutual<br>defence, mutual   | OA.7.1. Ensure division and<br>association, individualism and<br>collectivism, specialization and<br>universalization, the<br>implementation of the system of<br>their individual functions of<br>interchangeability, mutual defence,<br>interdependence, implementation<br>of objective principles and<br>functions of management. |
|   |   | conservation, the<br>realization of objective<br>principles and functions of<br>management.<br>OA.8. Ensuring qualitative<br>performance by<br>subsystems and the system<br>of its functions on the<br>basis of narrow<br>specialization.  | OA.7.2. Strengthen business<br>activity between consumer<br>cooperatives and enterprises of<br>adjacent and supportive industries.<br>OA.8.1. Ensure quality<br>performance by subsystems and<br>system of its functions on the basis<br>of narrow specialization.  |
|   |   | OA.9. Strengthening the<br>power of the system and<br>resisting the devastating<br>environmental impact.   | OA.9.1. Strengthen the power of<br>the system and resist the<br>devastating environmental impact.<br>OA.9.2. Enhance competitive<br>advantages based on scale and<br>system unity.<br>OA.9.3. Ensure adaptation to<br>changes in the environment.   |
|   |   | OA.10. The timely<br>inclusion of common<br>functions for the<br>organization<br>(universalization,<br>differentiation, integration,<br>reproduction, perspective<br>and current planning) on<br>the basis of the study of<br>the chronological phases<br>of the development of<br>their subsystems. | OA.10.1. Ensure systematic<br>monitoring of the financial status<br>of consumer cooperatives in order<br>to distinguish between informal<br>signs of insolvency (bankruptcy),<br>the system of bankruptcy criteria,<br>key indicators.  |

| А          | В                   | С                                       | D  |
|------------|---------------------|---|--|
|            |                     |   |  |
|            |                     | OA.11. Formation of<br>programs for the | OA.11.1. To form programs for the implementation of the main and |
|            |                     | implementation of the                   | functional objectives of the system                              |
|            |                     | main and functional                     | in non-standard changing   |
|            |                     | objectives of the system in             | conditions.  |
|            |                     | non-standard changing                   |  |
|            |                     | OA 12 Continuous                        | 0.4 12.1 Ensure continuous                                       |
|            |                     | observation and                         | observation and comparison of                                    |
|            |                     | comparison of current                   | current indicators of the state of                               |
|            |                     | indicators of the state of              | the system with normative  |
|            |                     | the system with normative               | adaptive-homeostatic indicators of                               |
|            |                     | adaptive-homeostatic                    | target parameters.   |
|            |                     | indicators of target                    | OA.12.2. To develop informational                                |
|            |                     | parameters.                             | support of consumer cooperation                                  |
|            |                     |   | activity.  |
|            |                     | OA.13. Impartial,                       | OA.13.1. Provide an unbiased,                                    |
|            |                     | automated, comprehensive                | automated, comprehensive and                                     |
|            |                     | and predictive diagnosis of             | for making unbiased decisions                                    |
|            |                     | adoption of unbiased                    | for making unbiased decisions.                                   |
|            |                     | decisions                               |  |
|            |                     | OA.14. Implementation of                | R.1.1. Provide support at a certain                              |
|            |                     | operational programs                    | level of required values of                                      |
|            |                     | aimed at restoring the                  | variables and essential for the                                  |
|            |                     | standard state of the                   | functioning of management  |
|            |                     | system.                                 | objects.   |
|            |                     | R.1. Support at a certain               | R.1.1. Provide support at a certain                              |
|            |                     | level of required values of             | level of required values of                                      |
|            | Ashiovement of the  | variables and essential for             | variables and essential for the                                  |
|            | main and functional | management objects                      | objects  |
|            | objectives of the   | management objects.                     | R 1.2. Increase the intensity of                                 |
| Regulation | system by           |   | development and reduce the risk of                               |
| (R)        | maintaining,        |   | loss of profit.  |
|            | eliminating or      | R.2 The maintenance of                  | R.2.1. Ensure that the system is                                 |
|            | neutralizing the    | the system is arranged in a             | maintained in an orderly, stable                                 |
|            | disagreement that   | stable state under the                  | state under the influence of                                     |
|            | arose in the system | influence of random                     | random disturbances by   |
|            |                     | disturbances through the                | implementing adaptation  |
|            |                     | implementation of                       | programs.  |
|            |                     | adaptation programs.                    | <b>P</b> 22 Ensura interconcrability and                         |
|            |                     |   | ioint development of all   |
|            |                     |   | subsystems of the consumer                                       |
|            |                     |   | cooperation system.  |

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### Continued tab.1

| А | В | С                             | D                                   |
|---|---|-------------------------------|-------------------------------------|
|   |   |                               | R.2.3. Ensure the timely detection  |
|   |   |                               | of signs and causes of insolvency   |
|   |   |                               | and bankruptcy, assistance in the   |
|   |   |                               | development of the anti-crisis      |
|   |   |                               | program and the implementation of   |
|   |   |                               | health improvement measures.        |
|   |   | R.3 Achievement of the        | R.3.1. Ensure the achievement of    |
|   |   | main and functional goals     | the main and functional goals of    |
|   |   | of the system in providing    | the system in providing its         |
|   |   | its homeostatic state at the  | homeostatic state at a time         |
|   |   | instant of time               | immediately preceding the process   |
|   |   | immediately preceding the     | of decision making and              |
|   |   | process adoption and          | implementation, based on current    |
|   |   | implementation of             | information about the actual state  |
|   |   | decisions, based on current   | of the system, aimed at eliminating |
|   |   | information on the actual     | or neutralizing the disagreement    |
|   |   | state of the system, aimed    | that arose in the system.           |
|   |   | at eliminating or             | R.3.2. Ensure the development of    |
|   |   | neutralizing the              | enterprises of consumer             |
|   |   | the system                    | cooperation, their structural       |
|   |   | the system.                   | implementation of programs for      |
|   |   |                               | protecting interests and meeting    |
|   |   |                               | the needs of member-shareholders    |
|   |   |                               | and employees of consumer           |
|   |   |                               | cooperatives and the population.    |
|   |   | R.4 Implementation of         | R.4.1. Ensure the implementation    |
|   |   | standard and non-standard     | of standard and non-standard        |
|   |   | programs, developed by        | programs, developed by              |
|   |   | intellectuals in the stage of | intellectuals in the stage of       |
|   |   | organization and              | organization and adaptation         |
|   |   | adaptation (programming).     | (programming).                      |
|   |   |                               | R.4.2. To ensure the formation,     |
|   |   |                               | development and effective           |
|   |   |                               | functioning of the developed social |
|   |   |                               | and industrial infrastructure of    |
|   |   |                               | consumer cooperatives.              |
|   |   |                               | R.4.3. Ensure decision-making on    |
|   |   |                               | the management of consumer          |
|   |   |                               | societies, taking into account the  |
|   |   |                               | consequences for the next 5-10      |
|   |   |                               | years.                              |

Analytical planning as a process is carried out both in direct and in reverse directions since it is grounded in the classical planning theory, which involves the presence of two goals in planning. The algorithm of carrying out analytical strategic planning of the process of functioning of Ukraine's cooperation consumer as a holistic socio-economic system in the structure of the national economy by increasing its efficiency is given in Pic.1.

The first goal is a logical goal, the essence of which is that the assumptions, factors and trends that affect the functioning of Ukraine's cooperation consumer as a coherent socio-economic system, will stay, in essence, remain unchanged in relation to the present state of the system.

The second goal is the desired state of functioning of the Ukraine's cooperation consumer as a holistic socio-economic system, to achieve which certain, perhaps, major changes are needed (with the beginning of the transformation of the initial state). These changes should become irreversible, regardless of what the initial state of functioning of Ukraine's cooperation consumer is.

Planning in the forward direction is an orderly sequence of events from the initial state in time. During such planning, current facts and assumptions that give rise to the logical consequence (or scenario) are considered. Planning in the reverse direction begins with the desired state at a future time point. Then the process is considered in reverse direction in time to evaluate the factors, trends and intermediate states that will be required to achieve the desired state. That is, the reverse process of planning provides the means of control and management of the direct planning process while moving towards the desired state of functioning of Ukraine's cooperation consumer as an integral social and economic system.

The combination of First Direct and Reverse Planning Processes is carried out using the hierarchical structure of the process. At the same time, the difference between the future state of functioning, which will be achieved by consumer cooperation as a holistic socio-economic system, and the desired future state of its functioning, will be minimized.

In the planning process, the most likely (logical) future is projected. This process is the so-called First Direct Planning Process.



Picture 1. Block diagram of the analytical strategic planning process for the functioning of Ukraine's cooperation consumer as a coherent socio-economic system in the structure of the national economy [author's work]



Picture 1. Block diagram of the analytical strategic planning process for the functioning of Ukraine's cooperation consumer as a coherent socioeconomic system in the structure of the national economy (continuation) [author's work]



Picture 1. Block diagram of the analytical strategic planning process for the functioning of Ukraine's cooperation consumer as a coherent socioeconomic system in the structure of the national economy (continuation) [author's work]

Then, for the purpose, choose the desired future state of functioning of Ukraine's cooperation consumer as an integral social and economic system, and develop new policies . This is the first Reverse Planning Process. The found policies join in the set of policies that existed in the direct planning process. Taking into account these changes, again, designing a probable future, which is the second direct process of planning. Then quantitatively compare the first and second variants of the probable future state, relative to the values of the criteria that are subordinated to the purpose of planning.

In the process of calculation, the value of the integrated assessment of the generalized scenario corresponds to two questions:

a) In which direction in the future (increase, decrease or remain unchanged) will change each criterion in the process of implementation of each possible scenario?

b) what intensity of change of each criterion?

The integral estimation of the generalized scenario is the sum (according to all criteria and in all scenarios) of the results of the values of the intensity of the changes in the criteria, the important factors of the criteria and the values of the vectors of the priorities of the possible scenarios.

Planning in the reverse direction is based on the following hierarchy of levels (from top to bottom):

a) focus (desired future);

b) desirable scenarios;

c) problems and situations that may hinder the implementation of the scenarios (non-mandatory level);

d) actors (among which there may be new ones in relation to the direct process);

e) goals of actors;

e) policy of actors;

e) action of actors.

In the process of constructing this hierarchy, the level of desirable scenarios is formed by one of the following five approaches:

1) select one of the probable scenarios, as defined in the previous direct planning process, for the desired scenario;

2) desired scenarios by number and names correspond to the likely scenarios in the previous direct planning process, but differ from the last priorities (percentages) in the generalized scenario;

3) the desired scenarios are a subset of the set of probable scenarios that were defined during the previous direct planning process;

4) generate new desirable scenarios that are different from those discussed in the previous direct planning process;

5) the set of desirable scenarios includes both some of the scenarios of the previous direct planning process, as well as new desirable scenarios.

After defining the method of analysis of the hierarchy of the priority vector, the goals (policies ) of the actors on the RPP carry out the transition to the Second Direct Planning Process. At the same time, the level of actors (and the subsequent ones) of the second direct process may differ (by composition) from a similar level of the first direct process. The second (as well as the first) direct planning process ends with the definition of the integral evaluation of the generalized scenario.

After that, a comparative analysis of the integrated estimates of the First and Second Direct Planning Processes is carried out. If the improvement of the integrated estimate does not satisfy the scheduler, then perform the following reverse and direct planning processes before obtaining a satisfactory integral assessment.

The use of actors by their policies leads to the development of one or another of the contrasting scenarios (S): S1) status quo (projection of the current state for the future); S2) improvement of the functioning of consumer cooperation; S3) deterioration of functioning of consumer cooperation.

A generalized scenario – the state of functioning of Ukraine's cooperation consumer as a holistic socio-economic system – integrates separate contrasting scenarios.

The next stage in constructing a set of scenarios for the functioning of Ukraine's cooperation consumer as an integral social and economic system in the structure of the national economy will be the reproduction of a scenario for its functioning in the form of analytical planning, which includes First Direct and Reverse Planning Processes in order to bring the logical future of the system closer to the desired future.

Chapter 2. Scenario of functioning of Ukraine's cooperation consumer as an integral social and economic system in the conditions of the European vector of development of Ukraine

The scenario of the functioning of Ukraine's cooperation consumer as a holistic socio-economic system is represented in the form of analytical planning, which includes direct and reverses planning processes in order to bring the logical future of the system closer to the desired future.

A hierarchical system for calculating the generalized scenario of functioning of Ukraine's cooperation consumer as a holistic socio-economic system in the structure of the national economy (logical future) during the First Direct Planning Process is given in Pic. 2.



Picture. 2. Hierarchy of the direct process of planning of the future level of functioning of Ukraine's cooperation consumer as an integral social and economic system in the structure of the national economy [author's work]

After building a hierarchical model, there is a question of setting priorities. For this purpose, the scale of relative importance (significance, advantages) was proposed, proposed by the well-known American system analyst T. Saati. It proved to be more effective compared to other similar scales because its use had some positive results [7].

The T. Saati's scale is shown in Table. 2, where the degree of advantage of one object over the other and the numerical measure of this advantage are presented.

Table 2

| Determine the advantages of one object over another            | Measure of superiority (importance, significance) |
|--|---|
| Equivalence (significance), no advantage                       | 1   |
| Weak advantage over importance (significance)                  | 3   |
| Significant or major advantage over importance (significance)  | 5   |
| Very large or significant advantage over importance            | 7   |
| (significance)   |   |
| Absolute advantage   | 9   |
| An intermediate assessment of the importance of the importance | 2, 4, 6, 8  |
| of neighbouring values   |   |

#### Saati's Scale [7]

An expert conclusion is used to build a scale of benefits. The hierarchy analysis method (HAM) uses the method of pairwise comparisons. When comparing n objects (A1, A2, ..., An), the results of their pairwise comparisons are entered into a square Matrix of preferences, which has order n:  $A = (a_{ij})_{i,j=1}^{n}$ , the elements of which are calculated so. For weak scales:  $a_{ij}$  (or  $a_{ji}$ ) choose from Saati scale,  $a_{ij}$  shows the advantage of the *i* object over *j*.

An element of the Matrix A, which is symmetric found, is calculated by the formula 1:

$$a_{ij} = \frac{1}{a_{ji}}.$$
 (1.)

After expert evaluations using the paired comparison method, a question arises about the degree of coherence of the obtained estimates.

As a measure of consistency, two indicators are chosen:

- 1) the coherence index (CI);
- 2) the coherence ratio (CR)

It is known from theorems of matrices that the complete coherence of the inverse of the symmetric matrix, which is the Matrix of preferences, is equivalent to the equality of its maximum eigenvalue  $\lambda_{max}$  and the number of compared objects  $(\lambda_{max} = n)$ .

That's why, as a measure of consistency, it is natural to choose the value (which is called the index of consistency) and to calculate by the formula 2:

$$CI = \frac{\lambda_{\max} - n}{n - 1}.$$
 (2.)

To find out if the matching is acceptable, the *CI* is compared with the magnitude of the random coherency index (*RCI*) calculated for a square Matrix of order *n*, which is sufficiently invariant to be symmetric, whose elements are randomly generated as uniformly distributed in the interval ([1, 9]) natural numbers. For a fixed *n* index is calculated as the average for a sample of 100. In Table. 3 shows the value of *RCI* for *n* from 3 to 15 (for n = 1 and 2 RCI = 0).

Table 3

**Radom index** [7]

| n   | 1 | 2 | 3    | 4   | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   |
|-----|---|---|------|-----|------|------|------|------|------|------|------|------|------|------|------|
| RCI | 0 | 0 | 0,58 | 0,9 | 1,12 | 1,24 | 1,32 | 1,41 | 1,45 | 1,49 | 1,51 | 1,54 | 1,56 | 1,57 | 1,59 |

The ratio of coherence (CR) is the proportion of the CI (calculated by the formula (2.)) and RCI, taken from the table 3 for the same order of the matrix:

$$CR = \frac{CI}{RCI}.$$
(3.)

If CR < 0,2, then the degree of coherence is considered acceptable.

The process of studying the problem during the First Direct Planning Process using the hierarchy analysis method is divided into several generalized steps.

Stage 1. Determine the influence of system parameters on the general problem being investigated – that's the future level of functioning of Ukraine's cooperation

consumer as an integral social and economic system. This is done on the basis of the Matrix of pairwise comparisons of the system parameters with respect to the purpose of the study (Table 4).

Stage 2. Since each parameter of the system has one goal, then at the second stage we determine the degree of importance of the policies of these parameters:

a) the priorities of the policyian of the actor "Intellect" is given in Addition A, Table A.1;

b) priorities of the policyian of the actor "Natural and Industrial Base" is given in Addition A, Table A.2;

Table 4

Influence of system parameters on the future level of efficiency of functioning of Ukraine's cooperation consumer as an integral social and economic system (focus of the problem)

| Problems focus         |            | Param | eters of a |      |   |   |
|------------------------|------------|-------|------------|------|---|---|
| Parameters of a System | Ι          | NPB   | Н          | OA   | R | Vector of priorities P <sub>i</sub> , % |
| Ι                      | 1          | 9     | 3,00       | 5    | 5 | 50,08                                   |
| NPB                    | 0,11       | 1     | 0,20       | 4    | 4 | 11,07                                   |
| Н                      | 0,33       | 5     | 1          | 4    | 5 | 27,44                                   |
| OA                     | 0,20       | 0,25  | 0,25       | 1    | 3 | 7,06                                    |
| R                      | 0,20       | 0,25  | 0,20       | 0,33 | 1 | 4,35                                    |
| $\lambda_{max=5,734}$  | CI = 0,186 |       |            |      |   | CR = 0,166                              |

c) the priorities of the policyian of the actor "Health" is given in Addition A, Table A.3;

d) priorities of the policyian of the actor "Organizing and adapting" is given in Addition A, Table A.4;

e) the priorities of the actor's policy "Regulation" are given in Addition A, Table A.5

Stage 3. Determine the importance of the policy parameters of the system in relation to the problem under study. For this, we find the product of the priority of the policy of the system parameter and the importance of this policy. We find the product of the rank of the policy of the priority of the system parameter. An effective vector is

standardized to obtain policy priorities. We choose essential policies and weigh their importance (Table 5).

Separated in the penultimate column with the sign "+" 17 policies, each of which affects more than an average of 1.45%, which eventually make 91.73% of the impact on the level of functioning of consumer cooperation in Ukraine as a holistic socio-economic system. In order to avoid the cumbersome analysis, we will use only the most influential policy settings of the system.

Table 5

Priorities of the policy regarding the level of efficiency of functioning of Ukraine's cooperation consumer as an integral social and economic system (focus)

|                |             |             |           | The         |             |             |           |
|----------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|
|                |             |             |           | importance  |             |             |           |
| Policy         |             | Priority    |           | of the      |             |             |           |
| «Intellect»    | 10          | «Intellect» | 0,500844  | policy      | 0,3125      |             |           |
|                |             |             |           |             |             |             | Priority  |
|                |             |             | Rank of   | Priority of | Priority of |             | of        |
| Policies       | Priority of | Rank of     | policy    | policy      | policy      | Significant | essential |
|                | policy      | Policy      | regarding | regarding   | regarding   | impact      | policies  |
|                |             |             | focus     | focus       | focus,%     |             | regarding |
| 1              | 2           | 2           | 4         | ~           | (           | 7           | the focus |
| 1              | 2           | 3           | 4         | 5           | 6           | /           | 8         |
| I.1            | 0,2476      | 0,0774      | 0,0388    | 0,1787      | 17,87       | +           | 0,1948    |
| I.2            | 0,1967      | 0,0615      | 0,0308    | 0,1419      | 14,19       | +           | 0,1548    |
| I.3            | 0,1441      | 0,0450      | 0,0226    | 0,1040      | 10,40       | +           | 0,1134    |
| I.4            | 0,1197      | 0,0374      | 0,0187    | 0,0864      | 8,64        | +           | 0,0941    |
| I.5            | 0,0544      | 0,0170      | 0,0085    | 0,0392      | 3,92        | +           | 0,0428    |
| I.6            | 0,0936      | 0,0292      | 0,0146    | 0,0675      | 6,75        | +           | 0,0736    |
| I.7            | 0,0635      | 0,0199      | 0,0099    | 0,0458      | 4,58        | +           | 0,0500    |
| I.8            | 0,0353      | 0,0110      | 0,0055    | 0,0255      | 2,55        | +           | 0,0278    |
| I.9            | 0,0250      | 0,0078      | 0,0039    | 0,0181      | 1,81        | +           | 0,0197    |
| I.10           | 0,0201      | 0,0063      | 0,0031    | 0,0145      | 1,45        | +           | 0,0158    |
| Sum of ranks   |             |             | 0,156514  | ·           |             | _           |           |
|                |             | Priority    |           |             |             |             |           |
| Policy «Nature |             | «Nature and |           | Importanc   |             |             |           |
| and production |             | production  |           | e of the    |             |             |           |
| base»          | 2           | base»       | 0,110668  | policy      | 0,0625      |             |           |
| NPB.1          | 0,8333      | 0,0521      | 0,0058    | 0,0266      | 2,66        | +           | 0,0290    |
| NPB.2          | 0,1667      | 0,0104      | 0,0012    | 0,0053      | 0,53        |             |           |
| Sum of ranks   |             |             | 0.006917  |             |             |             |           |

| 1              | 2            | 3                      | 4        | 5               | 6         | 7  | 8      |
|----------------|--------------|------------------------|----------|-----------------|-----------|----|--------|
|                |              |                        |          | Importanc       |           |    |        |
| Policies       |              | Policies               | 0.054404 | e of the        | 0.0405    |    |        |
| «Health» 2     |              | «Health»               | 0,274421 | policy          | 0,0625    |    |        |
| H.1            | H.1 0,7500   |                        | 0,0129   | 0,0593          | 5,93      | +  | 0,0647 |
| H.2            | 0,2500       | 0,0156                 | 0,0043   | 0,0198          | 1,98      | +  | 0,0216 |
| Sum of ranks   |              |                        | 0,017151 | 1               |           | т  |        |
| Policy         |              | Priority               |          | Turner at a sec |           |    |        |
| «Organisation  |              | «Organisatio           |          | Importanc       |           |    |        |
| Adaptation»    | 14           | II allu<br>Adaptation» | 0.070574 | e of the        | 0.4375    |    |        |
|                | 0 1454       |                        | 0.0045   | 0.0207          | 2.07      | +  | 0.0226 |
| 0A.1           | 0,1434       | 0,0030                 | 0,0045   | 0,0207          | 2,07      |    | 0,0220 |
| 0A.2           | 0,0880       | 0,0487                 | 0,0034   | 0,0138          | 1,36      | т  | 0,0175 |
| OA.3           | 0,0880       | 0,0383                 | 0,0027   | 0,0125          | 1,23      |    |        |
| 0A.4           | 0,0189       | 0,0083                 | 0,0006   | 0,0027          | 0,27      |    |        |
| 0A.5           | 0,0352       | 0,0154                 | 0,0011   | 0,0050          | 0,50      |    |        |
| OA.6           | 0,0456       | 0,0199                 | 0,0014   | 0,0065          | 0,65      |    |        |
| OA.7           | 0,0760       | 0,0332                 | 0,0023   | 0,0108          | 1,08      |    |        |
| OA.8           | 0,0697       | 0,0305                 | 0,0022   | 0,0099          | 0,99      |    |        |
| OA.9           | 0,0123       | 0,0054                 | 0,0004   | 0,0018          | 0,18      |    |        |
| OA.10          | 0,0633       | 0,0277                 | 0,0020   | 0,0090          | 0,90      |    |        |
| OA.11          | 0,2734       | 0,1196                 | 0,0084   | 0,0389          | 3,89      | +  | 0,0424 |
| OA.12          | 0,0255       | 0,0111                 | 0,0008   | 0,0036          | 0,36      |    |        |
| OA.13          | 0,0218       | 0,0095                 | 0,0007   | 0,0031          | 0,31      |    |        |
| OA.14          | 0,0138       | 0,0060                 | 0,0004   | 0,0020          | 0,20      |    |        |
| Sum ranks      |              |                        | 0,030876 |                 |           |    |        |
|                |              |                        |          | Importanc       |           |    |        |
| Policy         |              | Priority               |          | e of the        |           |    |        |
| «Regulation»   | 4            | «Regulation»           | 0,043493 | policy          | 0,125     |    |        |
| R.1            | 0,1021       | 0,0128                 | 0,0006   | 0,0026          | 0,26      |    |        |
| R.2            | 0,2593       | 0,0324                 | 0,0014   | 0,0065          | 0,65      |    |        |
| R.3            | 0,5798       | 0,0725                 | 0,0032   | 0,0145          | 1,45      | +  | 0,0158 |
| R.4            | 0,0589       | 0,0074                 | 0,0003   | 0,0015          | 0,15      |    |        |
| Sum of ranks   |              |                        | 0,0054   | ,               |           | 1  |        |
|                | c            |                        |          |                 |           | 17 |        |
| The importance | ot essential |                        | 0.0172   | 01.72           | essential | 1  |        |
| policie        | es           |                        | 0,9173   | 91,75           | policies  | 1  |        |

Step 4. Find the priorities (importance) of measures for each of the 17 policy parameters of the system (see Addition A, Table A.6-A.22).

Stage 5. Determine the priorities (importance) of measures relative to the focus. Form the Matrix A (general) (see Addition A, Table A.23). Fold the structural

Matrix L (see Addition A, Table A.24). We find the product of the Matrix <u>A on</u> the Matrix L (see Addition A, Table A.25). We multiply the AL Matrix with the vector of policy priorities (17 most significant) relative to the focus. Dividing the elements of the vector ALX into the sum of its elements, we get the vector W – the priorities (importance) of measures relative to the focus (see Addition A, Table A.25).

Stage 6. Determine the proportion of each of the predicted state of functioning of the Ukraine's cooperation consumer as a holistic socio-economic system in relation to each of the 51st measures of the system parameters policy (see Addition A, Table A.26-A.76). The priorities of the found scenarios are reduced to the Matrix composed of the script priority vectors relative to the 51 events of the system parameters policy, which we use in the next step (see Addition A, Table A.77).

Stage 7. Determine the structure of a generalized scenario of the level of functioning of Ukraine's cooperation consumer as a holistic socio-economic system. To obtain the importance of the scenarios relative to the focus of the hierarchy, multiply the Matrix composed of the vector of priority scripts into the vector of W priority priorities.

After the calculations received: the status quo scenario has an importance of 34.08%, the scenario of "increasing the functioning of consumer cooperation" – 8.77%, scenario "deterioration of consumer cooperatives functioning" – 57.15% in the generalized scenario.

Stage 8. Determine the consequences of adopting the most likely scenarios and assessing the generalized scenario.

Each of the scenarios separately and generalized scenario of the future level of functioning of the Ukraine's cooperation consumer as a holistic socio-economic system can be quantified by a set of criteria. The criterion values for the scenario are determined in relation to the current state on the scale of differences (Table 6).

Consequently, we will make such an assessment of the scenarios in terms of the functioning of Ukraine's cooperation consumer as a coherent socio-economic system in the structure of the national economy.

Table 6

The scale of the differences for assessing the scenarios of the level of functioning of the Ukraine's cooperation consumer as a holistic socio-economic system [7]

| Characteristics of changes  | Difference in values              |  |  |  |
|---|-----------------------------------|--|--|--|
| Values are immutable  | 0                                 |  |  |  |
| Small increase (decrease) of value                                | +2 (-2)                           |  |  |  |
| Great increase (decrease) of value                                | +4 (-4)                           |  |  |  |
| Significant increase (decrease) of value                          | +6 (-6)                           |  |  |  |
| Maximum increase (decrease) of value                              | +8 (-8)                           |  |  |  |
| Intermediate increase (decrease) between adjacent characteristics | +1 (-1), +3 (-3), +5 (-5), +7(-7) |  |  |  |

The criteria for assessing a generalized scenario are the following criteria for functioning:

1. Strengthening of business activity between organizations of consumer cooperation and enterprises of adjacent and supporting industries.

2. Support of cooperation mechanisms and integration of small and medium enterprises by local authorities.

3. A rational choice and thorough justification of ways to strengthen the competitiveness of the system of consumer cooperation by constructing an appropriate structure that will ensure sustainable development of the national economy.

4. Restrictions on imports and world trends in the growth of prices for agricultural products.

5. Increased attention to the security of Ukraine in the field of food supply increases market opportunities for domestic production.

6. Real possibilities to resume large-scale harvesting activities.

7. A significant increase in volumes of own production.

8. Creation of a single operational chain: production of agricultural products and preparations – processing – trade.

9. Restoration and development of consumer culture.

10. Ensuring the growth of the market by products of exclusive (home) quality,

which may be demanded by the most demanding consumers in the trade network and catering enterprises.

11. Timely detection of signs and causes of insolvency and bankruptcy, assistance in developing an anti-crisis program and implementing health improvement measures.

12. Increasing the overall legal and financial literacy of the management, employees of financial, economic and legal services.

13. Increase the intensity of development and reduce the risk of loss of profit.

14. Ensuring optimization of tax payments, development of social sphere and protection of social and economic interests of shareholders.

15. Ensuring sustainable economic growth and balanced social development.

16. The growth of scale through the strengthening of interaction with shareholders as members of procurement activities and loyal buyers of goods cooperative trade networks.

17. The growth of volumes of purchases of agricultural products and wild raw materials, and, accordingly, volumes of processing and production.

18. The increase of trade resources at the expense of products of unit-holders, individual labour activity, folk crafts, hunting, fishing, animal husbandry.

19. Replenishment of fixed assets and working capital of cooperative organizations at the expense of the unit fund as a result of new members' membership, an increase of share contribution, as well as shareholder loans, the involvement of shareholders in investing in consumer cooperatives.

20. Stimulation of solvent demand of the population and intensification of production in the countryside.

The ranking of the criteria for the level of functioning of the Ukraine's cooperation consumer as a holistic socio-economic system is given in Addition A. in Table A.78.

The assessment of scenarios according to the criteria for assessing the level of functioning of the consumer cooperatives of Ukraine as a holistic socio-economic system is given in Table 7.
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# Ranking of state variables in relation to the future level of functioning of Ukraine's cooperation consumer as a holistic socio-economic system (scenario)

| Integral evaluation of the generalized scenario of the First Direct Planning Process |          |          |          |              |                     |                  |            |  |
|--|----------|----------|----------|--------------|---------------------|------------------|------------|--|
|  | S1       | S2       | S3       | Importance   | The value of the    | Rounded value    | Ingredient |  |
| Criteria(C)  |          |          |          | of the       | change in           | of intensity     | integral   |  |
|  | 0,3408   | 0,0877   | 0,5715   | criteria     | intensity criterion | change criterion | assessment |  |
| C.1  | 2        | 6        | -4       | 0,1501       | -1,0782             | -1               | -0,1618    |  |
| C.2  | 2        | 4        | -2       | 0,1232       | -0,1106             | 0                | -0,0136    |  |
| C.3  | 2        | 6        | -4       | 0,1191       | -1,0782             | -1               | -0,1284    |  |
| C.4  | 1        | 2        | -2       | 0,0114       | -0,6268             | -1               | -0,0072    |  |
| C.5  | 3        | 6        | -4       | 0,0110       | -0,7374             | -1               | -0,0081    |  |
| C.6  | 1        | 6        | -8       | 0,0284       | -3,7050             | -4               | -0,1052    |  |
| C.7  | 2        | 6        | -6       | 0,0315       | -2,2212             | -2               | -0,0701    |  |
| C.8  | 1        | 8        | -4       | 0,0966       | -1,2435             | -1               | -0,1201    |  |
| C.9  | 2        | 4        | -4       | 0,0058       | -1,2536             | -1               | -0,0073    |  |
| C.10   | 1        | 3        | -2       | 0,0104       | -0,5391             | -1               | -0,0056    |  |
| C.11   | 3        | 8        | -6       | 0,1032       | -1,7050             | -2               | -0,1759    |  |
| C.12   | 1        | 5        | -3       | 0,0070       | -0,9352             | -1               | -0,0065    |  |
| C.13   | 2        | 6        | -5       | 0,0626       | -1,6497             | -2               | -0,1033    |  |
| C.14   | 2        | 4        | -3       | 0,0474       | -0,6821             | -1               | -0,0324    |  |
| C.15   | 1        | 6        | -4       | 0,0511       | -1,4190             | -1               | -0,0725    |  |
| C.16   | 1        | 5        | -3       | 0,0240       | -0,9352             | -1               | -0,0225    |  |
| C.17   | 1        | 5        | -3       | 0,0203       | -0,9352             | -1               | -0,0190    |  |
| C.18   | 1        | 5        | -3       | 0,0172       | -0,9352             | -1               | -0,0161    |  |
| C.19   | 1        | 7        | -4       | 0,0624       | -1,3312             | -1               | -0,0831    |  |
| C.20   | 2        | 4        | -3       | 0,0172       | -0,6821             | -1               | -0,0118    |  |
| Integral ev  | aluation | of the g | generali | zed scenario | of the First Direct | Planning Process | -1,1704    |  |

Based on the results of the analysis, the ranking of criteria regarding probable scenarios of the future state of functioning of the Ukraine's cooperation consumer as a holistic socio-economic system (Table 7), we will draw a number of conclusions.

The situation with the functioning of Ukraine's cooperation consumer as a holistic socio-economic system in the structure of the national economy in the near future may slightly deteriorate. This is explained by a slight decrease (relative to the current state) of the value of most criteria (C.1, C.3-5, C.8-10, C.12, C.14-20). Practically imperceptible will be a decrease (relative to the current state) of the values of the criteria C.7, C.11, C.13. The level of support for the mechanisms of cooperation and integration of small and medium enterprises by local authorities will not change. Significantly diminish (relative to the current state) the real opportunities

to resume harvesting activities on a large scale.

Taking into account the importance of all the criteria, a negative integral estimate of the generalized scenario of the First Direct Planning Process is obtained, which is 1.1704. This means that in general, the functioning of consumer cooperation in the near future tends to decline. This integral assessment will also be used in further analytical planning in the Second Direct Planning Process.

Consequently, analytical strategic planning during the first direct planning with the help of hierarchical analysis method enabled to reach the goal of the First Direct Planning Process – to design a logical future according to the assumption that the existing tendencies of functioning of Ukraine's cooperation consumer as a holistic socio-economic system in the conditions of the European vector of development of Ukraine are designed.

In the next section of the dissertation, we will build a scenario for improving the functioning of consumer cooperation in Ukraine as a holistic socio-economic system in the structure of the national economy based on the Reverse Planning Process (RPP).

Chapter 3. The scenario of the possibilities of improving the functioning of consumer cooperation of Ukraine as an integral social and economic system in the structure of the national economy

The scenario of improving the functioning of Ukraine's cooperation consumer as a coherent socio-economic system in the structure of the national economy is modeled on the basis of the Reverse Planning Process (RPP), which is the regulatory component of analytical planning using the method of analysis of hierarchies (as opposed to the descriptive part of this planning – the direct planning process).

During the Reverse Planning Process, measures of the system parameters (actors) policy are identified, the implementation of which will facilitate the approximation of the probable (logical) scenario of the functioning of Ukraine's cooperation consumer as a coherent socioeconomic system in the structure of the national economy and the desired future scenario for the functioning of this system. In addition to identifying the best practices of policies that, as we recall, understand as sanctioned and provided by generally accepted decision-making procedures, means for achieving the goal, in RP, reveal various problems and opportunities that affect the implementation of different scenarios. RP has the following levels (Picture 3):



Pic. 3. Hierarchical scheme of the reverse process of planning of the future level of functioning of Ukraine's cooperation consumer as an integral social and economic system in the structure of the national economy [author's work]

1st Level (focus of the problem) – desired script;

Level 2 – alternatives to the script (in case of problems and opportunities);

Level 3 – the problems and opportunities that arise in the event of the realization of the future;

Level 4 – actors who control these problems and can use these opportunities.

The actor "State regulation (SR)", which controls a number of problems and opportunities of the upper level, is added to the actors of FDPP;

Level 5 – Actors policies ;

Level 6 is a policy measure.

At the third level of the RP hierarchy, we will consider the elements (problems and opportunities arising from the implementation of the desired scenario), which are given below.

The problems that hinder the functioning of Ukraine's cooperation consumer as a holistic socio-economic system in the structure of the national economy are as follows:

1. Information provision of strategic management is incomplete and insufficient with the exception of individual regions, there are no complete and reliable data on consumer cooperative organizations, shareholders, financial status. This makes it impossible to determine the approach to systemic management of consumer cooperation.

2. Consumer societies do not have full, timely and sufficient information on the relationship between the development of these societies and the development of the Ukrainian economy as a whole. Consequently, decisions on management of many consumer societies take in view of the near future and objectively cannot take into account the consequences for the next 5-10 years.

3. In many consumer cooperatives (especially at rayon level) there is an illusion that they are able to survive and develop on their own. As a result, they do not interact and do not develop together.

4. Consumer Cooperative Organizations have different organizational and legal forms that are heterogeneous in size and composition.

5. In the system of management in consumer cooperatives, many management bodies do not perform the functions provided for by law and the charter companies.

6. Due account is not provided to shareholders, shareholders are not interested in active participation in the work of consumer cooperatives.

7. Insufficiently regulated mechanisms of interaction between organizations of

consumer cooperation, which complicates the adoption and implementation of unified strategic decisions.

8. Insufficient attention to the interests of consumer cooperatives, on the one hand, and the confidence in the possibility of an effective independent existence of consumer cooperation organizations outside the unified system, on the other hand, lead to the emergence and strengthening of disintegration processes. Lost economic, transport, financial, information communications.

9. Disintegration processes can lead to the disappearance of consumer cooperation as a unified system and an important element of the socio-economic mechanism of Ukraine. In the medium and long term, organizations of consumer cooperation may completely lose competitive advantages based on scale and system unity.

10. Insufficient high level of interaction, information provision, lack of a unified strategy of development, investment attractiveness, the desire to solve complex problems independently – all this significantly reduces the dynamics of consumer cooperatives development, leads to stagnation.

11. Consumer cooperatives lose the ability not only to overcome existing trends but even to simply adapt to changes in the environment, start to lag behind competitors.

12. Lack of accumulated sources of funding for the development of promising and competitive organizations, large-scale projects slows down the formation of competitive advantages.

13. The weak inclusion of the cooperative sector of the economy in the process of cooperative-integration interaction with other economic actors of market relations, ineffective management and marketing.

Possibilities that can be used for the functioning of Ukraine's cooperation consumer as an integral social and economic system in the structure of the national economy due to an increase of its efficiency are:

1. Strengthening of business activity between organizations of consumer cooperation and enterprises of adjacent and supporting industries.

2. Support of cooperation mechanisms and integration of small and medium enterprises by local authorities.

3. A rational choice and thorough justification of ways to strengthen the competitiveness of the system of consumer cooperation by constructing an appropriate structure that will ensure sustainable development of the national economy.

4. Restrictions on imports and global trends in prices for agricultural products.

5. Increased attention to the security of Ukraine in the field of food supply increases market opportunities for domestic production.

6. Real possibilities to resume large-scale harvesting activities.

7. A significant increase in volumes of own production.

8. Creation of a single operational chain: production of agricultural products and billets – processing – trade.

9. Restoration and development of consumer culture.

10. Ensuring a growing market for products of exclusive (home) quality, which may be demanded by the most demanding consumers in the trade network and catering enterprises.

11. Timely detection of signs and causes of insolvency and bankruptcy, assistance in developing an anti-crisis program and implementing health improvement measures.

12. Increasing the overall legal and financial literacy of the management, employees of financial, economic and legal services.

13. Increase the intensity of development and reduce the risk of loss of profit.

14. Ensuring optimization of tax payments, development of social sphere and protection of social and economic interests of shareholders.

15. Ensuring sustainable economic growth and balanced social development.

16. The growth of scale through the strengthening of interaction with shareholders as members of procurement activities and loyal buyers of goods cooperative trade networks.

17. The growth of volumes of purchases of agricultural products and wild raw

materials, and, accordingly, volumes of processing and production.

18. The increase of trade resources at the expense of products of unit-holders, individual labour activity, folk crafts, hunting, fishing, animal husbandry.

19. Replenishment of fixed assets and working capital of cooperative organizations at the expense of the unit fund as a result of new members' membership, an increase of share contribution, as well as shareholder loans, the involvement of shareholders in investing in consumer cooperatives.

20. Stimulation of solvent population demand and intensification of production in rural areas.

Analyzing problems and opportunities described at the third level of the hierarchy, we define the actors (system parameters) that influence their solution and execution (fourth level). This is Intellect (I), Natural and Production Base (NPB), Health (H), Organization and Regulation (OA), Regulation (R), State Regulation (SR). Thanks to the introduction of the actor "State regulation" we find out the change in the level of functioning of consumer cooperation.

The purpose of the actor RP "State regulation (SR)" – is the formation of a single economic space, providing financial, economic, social, legal, information and organizational foundations of statehood through the mechanisms of its regulatory action.

Define the fifth level of the hierarchy – the policies implemented by the actors (system parameters). The policies of actors "Intellect", "Natural and Industrial Base", "Health", "Organizing and Adapting", "Regulation" remain the same as in the First Direct Planning Process. For the policy of "State regulation" the following features are characteristic:

SR.1. The regulation of economic life, which creates a set of laws (code) for a system of consumer cooperation, defining its rights and responsibilities, the measure of mutual responsibility, including the enactment of certain prohibitions aimed at preventing damage to market participants.

SR.2 Formation of organizational and economic structures that provide strict control over observance of the norms of regulation of the economic behaviour of

consumer cooperatives organizations.

SR.3 The development of socio-economic policies , within which the management, definition and effective application of mechanisms for its implementation

In the process of determining the sixth level of the hierarchy, measures of the policy implemented by the actors (system parameters), the actions of the policyian actors "Intellect", "Natural and Industrial Base", "Health", "Organizing and adapting", "Regulation" also remain the same as and in the First Direct Planning Process. Measures implemented by the actor "State regulation" are:

DR.1.1. Reduce the differentiation of the level and quality of life of the population by creating favourable conditions for the functioning of consumer cooperation.

DR.1.2. Coordination of infrastructure investments of the state and investment strategies of business taking into account the priorities of consumer cooperation.

DR.1.3. Implementation of interaction with the system of consumer cooperation in promoting the legitimate interests and elaboration of the regulatory framework for consumer cooperation.

DR.1.4. Creation of mechanisms for the protection of consumer cooperatives in cooperation with other organizations, including in attracting loans and loans, interaction with private investors.

SR.2.1. Elimination of regional imbalances in development.

SR.2.2. Removing from the shadow of profits and replenishing the state treasury.

SR.2.3. Preventing corruption among officials at all levels of the public sector.

SR.2.4. Ensuring the implementation of measures envisaged by the legislation on state support of consumer cooperatives organizations.

SR.2.5. Creation of joint organizations that protect the interests of consumer cooperation organizations in the process of implementing large-scale business projects.

SR.3.1. Formation of economic and social infrastructure.

SR.3.2. Promotion of innovation sphere development.

SR.3.3. Promotion of IT sector development.

SR.3.4. Promotion of foreign economic activity development.

SR.3.5. Small and medium business support.

SR.3.6. Ensuring participation of organizations of the system of consumer cooperation in contests and execution of state and local orders.

SR.3.7. Integration of the consumer cooperation system into the process of implementation of priority national projects and state programs of village development, agro-industrial complex, employment, housing, education.

SR.3.8. Stimulating the economic development of consumer cooperation by creating new centres of economic growth based on its competitive advantages.

Calculations RPP we will conduct in several stages.

1st stage RPP: we calculate the correlation between the problems and opportunities that determine the future level of functioning of the Ukraine's cooperation consumer as a coherent socioeconomic system (elements of the 3rd level of the RPP hierarchy) in terms of the desired scenario of the future level of its functioning (the second level of the RPP hierarchy) – "The functioning of consumer cooperation is improving" (Table 8).

#### Table 8

Influence of problems and opportunities on the desired future level of functioning of Ukraine's cooperation consumer as a holistic socio-economic system

| Desirable future      | Problems | Opportunities | Pi       |
|-----------------------|----------|---------------|----------|
| Problems              | 1        | 0,5           | 0,333333 |
| Opportunities 2       |          | 1             | 0,666667 |
| $\lambda_{max} = 2,0$ | CI = 0   | CR = 0        |          |

2nd stage of the RPP: we anticipate the priorities (significance) of the problems in terms of the desired scenario of the future level of functioning of the Ukraine's cooperation consumer as an integral social and economic system (the second level of the RPP hierarchy) – "The functioning of consumer cooperation is improving" (Addition A, Table A.79) We use the computation of the integral estimation of the FDPP found during the calculation of the integral estimation (in the FDPP is criteria) in relation to the set of possibilities (functioning of consumer cooperation by increasing its efficiency) (see Addition A, Table A.78).

3rd stage of the RPP: we calculate the significance of problems and constituent capacities in relation to the focus (functioning of Ukraine's cooperation consumer as a coherent socioeconomic system in the structure of the national economy) (Table 9). The last column highlights the most significant issues and constituents of opportunities and their renormalized priorities. Such elements are 20 and their total importance is 91.44%.

Table 9

Priorities of problems and opportunities regarding the level of functioning of Ukraine's cooperation consumer as an integral social and economic system (focus)

| Proble<br>ms (P)<br>and<br>Oppor<br>tunitie<br>s (O) | Priority<br>to the<br>upper-<br>level | Significanc<br>e of the<br>upper-level<br>elements | Item<br>importan<br>ce | Rank<br>relative to<br>focus | Priority<br>(normalized<br>rank)<br>relative to<br>focus | Priority<br>relative to<br>focus,% | The most<br>significant<br>elements | Rationalizat<br>ion of<br>priorities |
|--|---------------------------------------|--|------------------------|------------------------------|--|------------------------------------|-------------------------------------|--------------------------------------|
| 1  | 2                                     | 3  | 4                      | 5                            | 6  | 7                                  | 8                                   | 9                                    |
| P.1  | 0,0221                                | 0,3333   | 0,393939               | 0,002904                     | 0,005424   | 0,54                               |                                     |                                      |
| P.2  | 0,0217                                | 0,3333   | 0,393939               | 0,002854                     | 0,005331   | 0,53                               |                                     |                                      |
| P.3  | 0,0237                                | 0,3333   | 0,393939               | 0,003106                     | 0,005801   | 0,58                               |                                     |                                      |
| P.4  | 0,0295                                | 0,3333   | 0,393939               | 0,003879                     | 0,007246   | 0,72                               |                                     |                                      |
| P.5  | 0,0404                                | 0,3333   | 0,393939               | 0,0053                       | 0,009901   | 0,99                               |                                     |                                      |
| P.6  | 0,0099                                | 0,3333   | 0,393939               | 0,001306                     | 0,002439   | 0,24                               |                                     |                                      |
| P.7  | 0,0201                                | 0,3333   | 0,393939               | 0,002638                     | 0,004928   | 0,49                               |                                     |                                      |
| P.8  | 0,0920                                | 0,3333   | 0,393939               | 0,012085                     | 0,022574   | 2,26                               | +                                   | 0,02469                              |
| P.9  | 0,2771                                | 0,3333   | 0,393939               | 0,036391                     | 0,067975   | 6,80                               | +                                   | 0,07434                              |
| P.10   | 0,2491                                | 0,3333   | 0,393939               | 0,03271                      | 0,061099   | 6,11                               | +                                   | 0,06682                              |
| P.11   | 0,0414                                | 0,3333   | 0,393939               | 0,005439                     | 0,01016  | 1,02                               |                                     |                                      |
| P.12   | 0,0789                                | 0,3333   | 0,393939               | 0,010366                     | 0,019363   | 1,94                               | +                                   | 0,02118                              |
| P.13   | 0,0939                                | 0,3333   | 0,393939               | 0,012336                     | 0,023042   | 2,30                               | +                                   | 0,02520                              |
| 0.1  | 0,1501                                | 0,6667   | 0,606061               | 0,060638                     | 0,113267   | 11,33                              | +                                   | 0,12388                              |
| 0.2  | 0,1232                                | 0,6667   | 0,606061               | 0,049783                     | 0,09299  | 9,30                               | +                                   | 0,10170                              |
| 0.3  | 0,1191                                | 0,6667   | 0,606061               | 0,048126                     | 0,089895   | 8,99                               | +                                   | 0,09832                              |
| 0.4  | 0,0114                                | 0,6667   | 0,606061               | 0,004615                     | 0,00862  | 0,86                               |                                     |                                      |
| 0.5  | 0,0110                                | 0,6667   | 0,606061               | 0,00446                      | 0,008331   | 0,83                               |                                     |                                      |
| 0.6  | 0,0284                                | 0,6667   | 0,606061               | 0,011477                     | 0,021439   | 2,14                               | +                                   | 0,02345                              |

| 1    | 2      | 3      | 4        | 5        | 6        | 7    | 8 | 9       |
|------|--------|--------|----------|----------|----------|------|---|---------|
| O.7  | 0,0315 | 0,6667 | 0,606061 | 0,012743 | 0,023803 | 2,38 | + | 0,02603 |
| O.8  | 0,0966 | 0,6667 | 0,606061 | 0,039019 | 0,072885 | 7,29 | + | 0,07971 |
| 0.9  | 0,0058 | 0,6667 | 0,606061 | 0,00234  | 0,004372 | 0,44 |   |         |
| O.10 | 0,0104 | 0,6667 | 0,606061 | 0,004188 | 0,007822 | 0,78 |   |         |
| 0.11 | 0,1032 | 0,6667 | 0,606061 | 0,041685 | 0,077865 | 7,79 | + | 0,08516 |
| O.12 | 0,0070 | 0,6667 | 0,606061 | 0,002826 | 0,005278 | 0,53 |   |         |
| 0.13 | 0,0626 | 0,6667 | 0,606061 | 0,025292 | 0,047243 | 4,72 | + | 0,05167 |
| O.14 | 0,0474 | 0,6667 | 0,606061 | 0,019168 | 0,035803 | 3,58 | + | 0,03916 |
| O.15 | 0,0511 | 0,6667 | 0,606061 | 0,020652 | 0,038577 | 3,86 | + | 0,04219 |
| 0.16 | 0,0240 | 0,6667 | 0,606061 | 0,009702 | 0,018123 | 1,81 | + | 0,01982 |
| O.17 | 0,0203 | 0,6667 | 0,606061 | 0,008193 | 0,015304 | 1,53 | + | 0,01674 |
| O.18 | 0,0172 | 0,6667 | 0,606061 | 0,006936 | 0,012955 | 1,30 | + | 0,01417 |
| 0.19 | 0,0624 | 0,6667 | 0,606061 | 0,025231 | 0,047129 | 4,71 | + | 0,05154 |
| O.20 | 0,0172 | 0,6667 | 0,606061 | 0,006968 | 0,013016 | 1,30 | + | 0,01424 |

Continued tab.9

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Stage 4 RPP: We calculate the importance (significance) of the actors relative to the 20 most important problems and opportunities components (see Addition A, Table A.80-A.99).

5th stage RPP: We count the priorities of the actors of the 20 most important problems and opportunities components with respect to the focus. To do this, we find the product of the actor's priority and the importance of the problems or components of opportunities. We find the product of the ranks of the actors of the priority of problems or constituent possibilities. An effective vector is standardized for the actor's priorities (see Table 10).

Table 10

Priorities of actors of problems and constituent capacities regarding the level of functioning of Ukraine's cooperation consumer as a holistic socioeconomic system (focus)

| Actors P.8           | 3           | Priority P.8    | 0,0246884         |                    |
|----------------------|-------------|-----------------|-------------------|--------------------|
| Importance of actors | 0,09375     |                 |                   |                    |
| Actors               | Priority of | Donk of Aston   | Rank of actors    | Priority of actors |
| Actors               | Actors      | Kalik of Actors | relative to focus | relative focus     |
| 1                    | 2           | 3               | 4                 | 5                  |
| Ι                    | 0,54721643  | 0,0513015       | 0,0012666         | 0,0239597          |
| NPB                  | 0,26307422  | 0,0246632       | 0,0006089         | 0,0115186          |
| SR                   | 0,18970934  | 0,0177853       | 0,0004391         | 0,0083064          |
| Sum of ranks         |             |                 | 0,0023145         |                    |

## Continued tab.10

| 1                    | 2          | 3             | 4         | 5         |
|----------------------|------------|---------------|-----------|-----------|
| Actors P.9           | 3          | Priority P.9  | 0,0743425 |           |
| Importance of actors | 0,09375    |               |           |           |
| Ι                    | 0,58415641 | 0,0547647     | 0,0040713 | 0,0770184 |
| Н                    | 0,28083311 | 0,0263281     | 0,0019573 | 0,0370266 |
| SR                   | 0,13501048 | 0,0126572     | 0,000941  | 0,0178005 |
| Sum of ranks         |            | •             | 0,0069696 | •         |
| Actors P.10          | 2          | Priority O.10 | 0,0668229 | ]         |
| Importance of actors | 0,0625     |               |           |           |
| NPB                  | 0,66666667 | 0,0416667     | 0,0027843 | 0,0526709 |
| SR                   | 0,33333333 | 0,0208333     | 0,0013921 | 0,0263354 |
| Sum of ranks         |            |               | 0,0041764 |           |
| Actors P.12          | 2          | Priority 0.12 | 0,0211769 |           |
| Importance of actors | 0,0625     |               |           |           |
| NPB                  | 0,66666667 | 0,0416667     | 0,00088   | 0,016692  |
| SR                   | 0,33333333 | 0,0208333     | 0,00044   | 0,008346  |
| Sum of ranks         |            |               | 0,0013236 | _         |
| Actors P.13          | 2          | Priority O.13 | 0,0252008 |           |
| Importance of actors | 0,0625     |               |           |           |
| NPB                  | 0,25       | 0,015625      | 0,00039   | 0,0074489 |
| SR                   | 0,75       | 0,046875      | 0,00118   | 0,0223466 |
| Sum of ranks         |            |               | 0,00158   | _         |
| Actors 0.1           | 2          | Priority O.1  | 0,1238772 |           |
| Importance of actors | 0,0625     |               |           |           |
| OA                   | 0,66666667 | 0,0416667     | 0,00516   | 0,0976421 |
| SR                   | 0,33333333 | 0,0208333     | 0,00258   | 0,048821  |
| Sum of ranks         |            |               | 0,00774   | _         |
| Actors 0.2           | 2          | Priority O.2  | 0,1017011 |           |
| Importance of actors | 0,0625     |               |           |           |
| Ι                    | 0,25       | 0,015625      | 0,00159   | 0,0300609 |
| SR                   | 0,75       | 0,046875      | 0,00477   | 0,0901828 |
| Sum of ranks         |            |               | 0,00636   | -         |
| Actors 0.3           | 2          | Priority O.3  | 0,0983162 |           |
| Importance of actors | 0,0625     |               |           |           |
| I                    | 0,75       | 0,046875      | 0,00461   | 0,0871812 |
| SR                   | 0,25       | 0,015625      | 0,00154   | 0,0290604 |
| Sum of ranks         |            |               | 0,00614   | -         |
| Actors 0.6           | 1          | Priority O.6  | 0,0234469 | -         |
| Importance of actors | 0,03125    |               |           |           |
| NPB                  | 1          | 0,03125       | 0,00073   | 0,0138609 |
| Sum of ranks         |            |               | 0,00073   | -         |
| Actors 0.7           | 1          | Priority O.7  | 0,0260324 | -         |
| Importance of actors | 0,03125    |               |           |           |
| NPB                  | 1          | 0,03125       | 0,00081   | 0,0153894 |
| Sum of ranks         |            | -             | 0,00081   | -         |
| Actors O.8           | 1          | Priority O.8  | 0,0797125 |           |
| Importance of actors | 0,03125    |               |           |           |

| 0011111111000110 | Continued | tab.10 |
|------------------|-----------|--------|
|------------------|-----------|--------|

| 1 2                  |         | 3             | 4         | 5         |
|----------------------|---------|---------------|-----------|-----------|
| NPB                  | 1       | 0,03125       | 0,00249   | 0,047123  |
| Sum of ranks         |         |               | 0,00249   |           |
| Actors 0.11          | 1       | Priority O.11 | 0,0851595 | ]         |
| Importance of actors | 0,03125 |               |           | 1         |
| R                    | 1       | 0,03125       | 0,00266   | 0,0503431 |
| Sum of ranks         |         |               | 0,00266   |           |
| Actors 0.13          | 1       | Priority O.13 | 0,0516686 | 1         |
| Importance of actors | 0,03125 |               |           | 1         |
| R                    | 1       | 0,03125       | 0,00161   | 0,0305445 |
| Sum of ranks         |         |               | 0,00161   |           |
| Actors 0.14          | 1       | Priority O.14 | 0,0391575 | 1         |
| Importance of actors | 0,03125 |               |           | 1         |
| Н                    | 1       | 0,03125       | 0,00122   | 0,0231484 |
| Sum of ranks         |         |               | 0,00122   |           |
| Actors 0.15          | 2       | Priority O.15 | 0,0421905 | ]         |
| Importance of actors | 0,0625  |               |           | 1         |
| Н                    | 0,5     | 0,03125       | 0,00132   | 0,0249414 |
| SR                   | 0,5     | 0,03125       | 0,00132   | 0,0249414 |
| Sum of ranks         |         |               | 0,00264   |           |
| Actors 0.16          | 1       | Priority O.16 | 0,0198205 | 1         |
| Importance of actors | 0,03125 |               |           | 1         |
| Н                    | 1       | 0,03125       | 0,00062   | 0,0117172 |
| Sum of ranks         |         |               | 0,00062   |           |
| Actors 0.17          | 1       | Priority O.17 | 0,0167378 | ]         |
| Importance of actors | 0,03125 |               |           |           |
| NPB                  | 1       | 0,03125       | 0,00052   | 0,0098948 |
| Sum of ranks         |         |               | 0,00052   |           |
| Actors O.18          | 1       | Priority O.18 | 0,014169  | ]         |
| Importance of actors | 0,03125 |               |           | 1         |
| NPB                  | 1       | 0,03125       | 0,00044   | 0,0083762 |
| Sum of ranks         |         |               | 0,00044   |           |
| Actors 0.19          | 1       | Priority O.19 | 0,0515437 | 1         |
| Importance of actors | 0,03125 |               |           | ]         |
| Н                    | 1       | 0,03125       | 0,00161   | 0,0304707 |
| Sum of ranks         |         |               | 0,00161   |           |
| Actors 0.20          | 2       | Priority O.20 | 0,0142352 | ]         |
| Importance of actors | 0,0625  |               |           |           |
| Н                    | 0,5     | 0,03125       | 0,00044   | 0,0084153 |
| SR                   | 0,5     | 0,03125       | 0,00044   | 0,0084153 |
| Sum of ranks         |         |               | 0,00089   |           |

We find the total priority (weight) of the actors in the RPP regarding the future state of the level of functioning of the Ukraine's cooperation consumer as a coherent socio-economic system within the structure of the national economy (Level 1) of the RPP hierarchy on all problems and constituent capacities. Consequently, we have the following priorities of the actors regarding the desired future level of functioning of Ukraine's cooperation consumer as an integral social and economic system in RPP: Intellect (I) – 21.82%; Natural and production base (NPB) – 18.30%; Health (H) – 13.57%; Organization and adaptation (OA) – 9.76%; Regulation (R) – 8.09%; State regulation (SR) – 28.46%.

The 6th stage of the RPP: we expect the actor's "State Regulation" policies to be relevant to the future state of functioning of the Ukraine's cooperation consumer as an integral social and economic system in the structure of the national economy (Level 1) of the RPP hierarchy (Table 11).

Table 11

Priorities of the actor's policy "State regulation" regarding the level of functioning of consumer cooperation as a holistic socio-economic system (focus)

| Focus                 | SR.1 | SR.2       | SR.3        | Vector<br>priorities P <sub>i</sub> |
|-----------------------|------|------------|-------------|-------------------------------------|
| SR.1                  | 1    | 5          | 3           | 0,636986                            |
| SR.2                  | 0,2  | 1          | 0,3         | 0,104729                            |
| SR.3                  | 0,3  | 3          | 1           | 0,258285                            |
| $\lambda_{max=3,039}$ |      | CI = 0,019 | CR = 0,0332 |                                     |

7th stage RPP: we expect the importance (weight) of the policy of actors in relation to the level of functioning of the Ukraine's cooperation consumer as a holistic socio-economic system (focus). For this, we find the product of the priority of the policy of the system parameter and the weight of this policy. We find the product of the rank of the policy of the priority of the system parameter. An effective vector is standardized to obtain policy priorities. We choose essential policies and weigh their weight (Table 12).

In the last column, the "+" sign is marked with 21 policies, each affecting an average of more than 1.45%, ultimately making 88.95% of the impact on the level of functioning of the Ukraine's cooperation consumer as an integral social and economic system. In order to avoid the bulkiness of the analysis, we use only the most influential policies.

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Priorities of the policy regarding the level of functioning of Ukraine's cooperation consumer as a holistic socio-economic system (focus)

| Policies     |                    | Priority         |   | Importance                                  |   |                              |   |
|--------------|--------------------|------------------|---|---|---|------------------------------|---|
| "Intellect"  | 10                 | «Intellect»      | 0,21822   | of policy                                   | 0,28571429                                    |                              |   |
| Policy       | Policy<br>priority | Rank of policies | The rank<br>of policies<br>is relative<br>to the<br>focus | Priority of<br>policy<br>regarding<br>focus | Priority of<br>policy<br>regarding<br>focus,% | Significan<br>t<br>influence | The<br>priority<br>of<br>essential<br>policies<br>with<br>respect to<br>focus |
| 1            | 2                  | 3                | 4   | 5   | 6   | 7                            | 8   |
| I.1          | 0,24764361         | 0,070755318      | 0,01544   | 0,1007511                                   | 10,08%  | +                            | 0,113272  |
| I.2          | 0,19671031         | 0,056202947      | 0,012265  | 0,0800294                                   | 8,00%   | +                            | 0,089975  |
| I.3          | 0,14408172         | 0,041166205      | 0,008983  | 0,0586181                                   | 5,86%   | +                            | 0,065903  |
| I.4          | 0,11967154         | 0,034191869      | 0,007461  | 0,0486871                                   | 4,87%   | +                            | 0,054738  |
| I.5          | 0,05437434         | 0,015535526      | 0,00339   | 0,0221216                                   | 2,21%   | +                            | 0,024871  |
| I.6          | 0,0935627          | 0,026732201      | 0,005834  | 0,038065                                    | 3,81%   | +                            | 0,042795  |
| I.7          | 0,06352997         | 0,018151419      | 0,003961  | 0,0258465                                   | 2,58%   | +                            | 0,029059  |
| I.8          | 0,0353092          | 0,010088343      | 0,002201  | 0,0143652                                   | 1,44%   |                              |   |
| I.9          | 0,02502666         | 0,007150474      | 0,00156   | 0,0101818                                   | 1,02%   |                              |   |
| I.10         | 0,02008994         | 0,005739983      | 0,001253  | 0,0081734                                   | 0,82%   |                              |   |
| Sum of       |                    | •                |   |   | •   |                              |   |
| ranks        |                    |                  | 0,062349  |   |   |                              |   |
| Policies     |                    | Priority         |   |   |   |                              |   |
| "Natural and |                    | "Natural and     |   |   |   |                              |   |
| Production   |                    | Production       |   | Importance                                  |   |                              |   |
| Base"        | 2                  | Base"            | 0,182975  | of policy                                   | 0,05714286                                    |                              |   |
| NPB.1        | 0,83333333         | 0,047619048      | 0,008713  | 0,0568548                                   | 5,69%   | +                            | 0,063920  |
| NPB.2        | 0,16666667         | 0,00952381       | 0,001743  | 0,011371                                    | 1,14%   |                              |   |
| Sum of       |                    |                  |   |   |   |                              |   |
| ranks        |                    |                  | 0,010456  |   |   |                              |   |
| Policies     |                    | Priority         |   | Importance                                  |   |                              |   |
| «Health»     | 2                  | «Health»         | 0,13572   | of policy                                   | 0,05714286                                    |                              |   |
| H.1          | 0,75               | 0,042857143      | 0,005817  | 0,0379543                                   | 3,80%   | +                            | 0,042671  |
| H.2          | 0,25               | 0,014285714      | 0,001939  | 0,0126514                                   | 1,27%   |                              |   |
| Sum of       |                    |                  |   |   |   |                              |   |
| ranks        |                    | I                | 0,007755  |   | I   | 1                            |   |
| Policies     |                    | Priority         |   |   |   |                              |   |
| «Organizati  |                    | «Organizatio     |   | -   |   |                              |   |
| on and       |                    | n and            | 0.007/10  | Importance                                  | <u> </u>                                      |                              |   |
| adaptation»  | 14                 | adaptation»      | 0,097642  | of policy                                   | 0,4   |                              | 0.041655  |
| OA.I         | 0,14537817         | 0,058151267      | 0,005678  | 0,0370503                                   | 3,71%   | +                            | 0,041655  |
| OA.2         | 0,1112/936         | 0,044511746      | 0,004346  | 0,0283601                                   | 2,84%   | +                            | 0,031885  |
| OA.3         | 0,08801561         | 0,035206246      | 0,003438  | 0,0224312                                   | 2,24%   | +                            | 0,025219  |
| OA.4         | 0,01889294         | 0,007557175      | 0,000738  | 0,004815                                    | 0,48%   |                              |   |

| 1           | 2          | 3            | 4        | 5          | 6          | 7         | 8        |
|-------------|------------|--------------|----------|------------|------------|-----------|----------|
| OA.5        | 0,0351696  | 0,014067841  | 0,001374 | 0,0089631  | 0,90%      |           |          |
| OA.6        | 0,0455983  | 0,018239318  | 0,001781 | 0,0116209  | 1,16%      |           |          |
| OA.7        | 0,07595246 | 0,030380983  | 0,002966 | 0,0193568  | 1,94%      | +         | 0,021762 |
| OA.8        | 0,06969367 | 0,027877469  | 0,002722 | 0,0177618  | 1,78%      | +         | 0,019969 |
| OA.9        | 0,01234714 | 0,004938855  | 0,000482 | 0,0031467  | 0,31%      |           |          |
| OA.10       | 0,06330753 | 0,025323014  | 0,002473 | 0,0161342  | 1,61%      | +         | 0,018139 |
| OA.11       | 0,27338989 | 0,109355955  | 0,010678 | 0,0696747  | 6,97%      | +         | 0,078334 |
| OA.12       | 0,02545058 | 0,010180233  | 0,000994 | 0,0064862  | 0,65%      |           |          |
| OA.13       | 0,02175392 | 0,008701568  | 0,00085  | 0,0055441  | 0,55%      |           |          |
| OA.14       | 0,01377083 | 0,00550833   | 0,000538 | 0,0035096  | 0,35%      |           |          |
| Sum of      |            |              |          |            |            |           |          |
| ranks       |            |              | 0,039057 |            |            | _         |          |
| Policies    |            |              |          |            |            |           |          |
| «Regulation |            | Priority     |          | Importance |            |           |          |
| »           | 4          | «Regulation» | 0,080888 | of policy  | 0,11428571 |           |          |
| R.1         | 0,10205008 | 0,011662866  | 0,000943 | 0,0061558  | 0,62%      |           |          |
| R.2         | 0,25927493 | 0,02963142   | 0,002397 | 0,0156398  | 1,56%      | +         | 0,017583 |
| R.3         | 0,57975636 | 0,06625787   | 0,005359 | 0,0349716  | 3,50%      | +         | 0,039318 |
| R.4         | 0,05891864 | 0,006733559  | 0,000545 | 0,003554   | 0,36%      |           |          |
| Sum of      |            |              |          |            |            |           |          |
| ranks       |            |              | 0,009244 |            |            | _         |          |
| Policies    |            | Priority     |          |            |            |           |          |
| "State      |            | "State       |          | Importance |            |           |          |
| regulation" | 3          | regulation"  | 0,284556 | of policy  | 0,08571429 |           |          |
| SR.1        | 0,63698557 | 0,054598763  | 0,015536 | 0,1013785  | 10,14%     | +         | 0,113977 |
| SR.2        | 0,10472943 | 0,008976809  | 0,002554 | 0,0166681  | 1,67%      | +         | 0,018739 |
| SR.3        | 0,25828499 | 0,022138714  | 0,0063   | 0,041107   | 4,11%      | +         | 0,046216 |
|             |            |              |          |            |            | 21        |          |
| Regulatory  | weight of  |              |          |            |            | essential |          |
| essential   | policies   |              | 0,024391 | 0,8894618  | 88,95%     | policy    | 1,0      |

8th stage of the RPP: we calculate and use the significance of the measures in relation to each of the 21st most important policies of the actors. In the course of the calculation, there are no grounds to consider the priorities of the system parameters policy other than in the First Direct Planning Process (DP) (see Addition A, Table A.6-A.22). Other priority measures regarding the most significant policies of actors are given in Addition A, Table A.100-A.107.

9th stage RPP: we count the importance of the measures of the most important policies of the actors in relation to the focus. Form a Matrix A (common) (see Addition A, table A.108). We form the structural Matrix L. We find the product of

the Matrix A on the Matrix L. (see Addition A, Table A.109). We multiply the Matrix AL by the vector of policy priorities (21 most significant) relative to the focus. Dividing the elements of the vector ALX into the sum of its elements, we get the vector W – the priorities (importance) of measures relative to the focus. We denote the most significant events (see Addition A, Table A.110).

After calculations, 23 measures of the most important policies were selected in relation to the focus, each affecting an average of more than 1.54%, and as a result it amounts to 69.49% of the impact on the future level of functioning of the Ukraine's cooperation consumer as an integral social and economic system in the structure of the national economy.

The 10th stage of the RPP: We select the most significant measures of the most important policies of the actors regarding the focus of the RPP and the FDPP (see Addition A, Table A.111).

Thus, as a result of the Reverse Planning Process, the 23 most important events of the most important policies of the actors with priorities regarding the hierarchy above the average were received. In the FDPP of such measures, 15 were received, of which measures I.4.3, I.6.2, I.7.1 are absent among the selected measures of RPP. By joining them to 23 RPP measures, we receive 26 measures to be taken into account in the Second Direct Planning Process (DPP2) to bring the desired future into a logical scenario regarding the level of functioning of the Ukraine's cooperation consumer as a coherent socioeconomic system within the structure of the national economy. Measures that are most influential together represent 68.3% of the impact on the future level of the problem under investigation.

Consequently, analytical strategic planning during the Reverse Planning Process through the hierarchy analysis method allows the goal of the Reverse Planning Process to be achieved – to identify the content of the most essential policy parameters of the system (actors), the implementation of which will facilitate approximation (to the convergence) of the probable (logical) scenario of the functioning of the consumer the cooperation of Ukraine as an integral social and economic system in the structure of the national economy and the desired future scenario of the functioning of this system.

In the next section of the study, we will build an imitation model of the functioning of Ukraine's cooperation consumer as a holistic socio-economic system on the basis of reconciliation of its interests and the state through the Second Direct Planning Process.

Chapter 4. The simulation model of the functioning of Ukraine's cooperation consumer as an integral social and economic system on the basis of coordination of its interests and the state

The results of the study suggest the need to build a simulation model of the consumer cooperatives in Ukraine as an integrated socio-economic system based on the harmonization of the interests of the public by means of a Second Direct Planning Process. To avoid bulky analysis, then, using only the most influential policy actors, priorities of 1.54% or higher, will hold the Second Direct Planning Process (DP2).

We construct the hierarchy of the RPP (Pic. 4).

1st Level (focus of the problem) – functioning of Ukraine's cooperation consumer as a holistic socio-economic system in the structure of the national economy;

Level 2 is the actors used in the First Direct Planning Process (FDPP). Actor "State regulation (SR)" from the Reverse Planning Process (RPP) is added to the RPP actors;

Level 3 – Actors policies: I.1, I.2, I.3, I.4, I.6, I.7, NPB.1, H.1, OA.1, OA.11, R. 3, SR.1, SR.3;

4th Level – Policies actors: I.1.1, I.2.1, I.3.1, I.4.1, I.4.3, I.6.1, I.6.2, I.7.1, NPB.1.1, NPB.1.4, NPB.1.5, NPB.1.6, H.1.3, H.1.4, H.1.7, H.1.8, H.1.10, OA.1.1, OA.11.1, S.3.1, SR.1.1, SR.1.3, SR.1.4, SR.3.1, SR.3.7, SR.3.8;

5th Level - contrasting scenarios (S): S1) status quo (projection of the current

state for the future); S2) improvement of functioning of consumer cooperation; S3) deterioration of functioning of consumer cooperation;

Level 6 – Summarizing scenario: the future level of functioning of Ukraine's cooperation consumer as a coherent socio-economic system in the structure of the national economy.



Picture. 4. Hierarchy of the second direct process of planning of the future level of the functioning of Ukraine's cooperation consumer as a holistic socioeconomic system in the structure of the national economy [author's work]

Calculations of the DP2 will be broken down into several stages:

Stage 1 of DP2: We calculate the priorities of actors regarding the impact on the future level of the functioning of Ukraine's cooperation consumer as a holistic socio-economic system in the structure of the national economy by the method of analysis of hierarchies, based on the Matrix of pairwise comparisons of actors, we find their priorities. The Matrix of pairwise comparisons of actors and their priorities is given in Table. 13.

Table 13

| Actors | Ι                              | NPB    | Н      | OA     | R          | SR     | Vector of<br>priorities P <sub>i</sub> |
|--------|--------------------------------|--------|--------|--------|------------|--------|--|
| Ι      | 1,0000                         | 9,0000 | 3,0000 | 5,0000 | 5,0000     | 3,0000 | 0,4352                                 |
| NPB    | 0,1111                         | 1,0000 | 0,2000 | 4,0000 | 4,0000     | 0,3333 | 0,0857                                 |
| Н      | 0,3333                         | 5,0000 | 1,0000 | 4,0000 | 5,0000     | 2,0000 | 0,2464                                 |
| OA     | 0,2000                         | 0,2500 | 0,2500 | 1,0000 | 3,0000     | 0,5000 | 0,0631                                 |
| R      | 0,2000                         | 0,2500 | 0,2000 | 0,3333 | 1,0000     | 1,0000 | 0,0473                                 |
| SR     | 0,3333                         | 3,0000 | 0,5000 | 2,0000 | 1,0000     | 1,0000 | 0,1223                                 |
|        | $\lambda_{\text{max}} = 6,941$ | 1      | CI =   | 0,188  | CR = 0,152 |        |  |

**Priorities (importance) of the actors relative to the focus** 

Stage 2 of the DP2: We calculate the weight (in relation to the actors) of the policies that have the most significant events. Priorities of the policies of actors are given in Addition A, Table A.112-A.117.

Stage 3 of the DP2: We calculate the weight (with respect to the focus) of the policies that have the most significant events. Formulate Matrix A, placing in it the priorities of the policyian, which are the actors, calculated on the basis of matrices of pairwise comparisons. All the elements that correspond to the missing policy analyzes are set to zero (Addition A, Table A.118). We form the structural Matrix L (Addition A, Table A.119). We find the product of the Matrix A on the Matrix L (Addition A, Table A.120). We multiply the Matrix AL to vector X of policy priorities (13 most significant) relative to the focus, calculated on the 1st stage of the DP2. By dividing the elements of the vector ALX into the sum of its elements, we obtain the vector W – the priorities (importance) of the policies that have the most important measures regarding the focus (Addition A, Table A.120).

Step 4 DP2: we calculate the weight (relative to the policy) of the most significant measures of the most important policies of actors that were not defined during the STDs (Addition A, Table A.121-A.126).

Stage 5 DP2: We expect the weight (in relation to the focus) of the most significant events of the most important policies of the actors. We formulate Matrix A, placing in it the priorities of the measures that are in the policy of actors, calculated on the basis of matrices of pairwise comparisons. All the elements that correspond to the missing policy analyzes are set to zero (Addition A, Table A.127). We form the structural Matrix L (Addition A, Table A.128). We find the product of the Matrix A on the Matrix L (Addition A, Table A.129). We multiply the Matrix AL by the vector of the priorities of the policies (13 most significant) relative to the focus, calculated on the 3rd stage of the DP2. We normalize the elements of the vector ALX (divide it into the sum of its elements) and get the vector W – these are the priorities (the importance) of the most significant measures of the most important policies of the actors in relation to the focus (Addition A, Table A.129).

Stage 6 DP2: We define the priorities of the DP2 contrasting scenarios in relation to the most important policies of actors in relation to focus. The results of the calculations will allow us to obtain a Matrix of the priorities of these scenarios, which we use at the next stage of the DP2 (Addition A, Table A.130).

Step 7 DP2: Define the structure of the generalized scenario. By multiplying the matrix, composed of priority scenarios for the most significant events of the policies of actors, on the priority measures column regarding the focus from the 4th stage of the DP2 of actors, we receive priority of the scenarios with regard to the 's focus. After calculations we get: the future state of the level of functioning of Ukraine's cooperation consumer as an integral social and economic system in the structure of the national economy "Status quo" – 24.16%, the future state of the level of functioning improves "- 67.27%, the future state of the level of functioning of Ukraine's cooperation consumer as an integral social and economic consumer as an integral social and economic system in the structure of the national economy "Cooperation functioning improves "- 67.27%, the future state of the level of functioning of Ukraine's cooperation consumer as an integral social and economic system in the structure of the national economy "Status 9.57%.

Stage 8 of DP2: We define the consequences of adopting the most probable future state of the level of functioning of Ukraine's cooperation consumer as an

integrated socio-economic system in the structure of the national economy (generalized scenario) and assess the integrated level of its functioning.

Each of the future levels of functioning of Ukraine's cooperation consumer as an integral social and economic system of separate and integrated levels is quantified by a set of criteria. The importance of the criteria for the future state of the level of functioning of the Ukraine's cooperation consumer as a holistic socioeconomic system is determined by the current state of the scale of differences (Table 14).

Table 14

Ranking of state variables (criteria) regarding the future state of the level of effective functioning of Ukraine's cooperation consumer as a coherent socioeconomic system (scenarios)

|                 |   |  |        | Scer     | nario ar | nd its  |  | Weight of |
|-----------------|---|--|--------|----------|----------|---|--|-----------|
|                 |   |  |        | in<br>S1 | portan   | ce<br>S3                                      | The value  | the       |
| Criteria<br>(C) | Status variable (criterion for impact assessment) | Importanc<br>e of<br>criteria  | 0,242  | 0,672    | 0,086    | of the<br>change in<br>intensity<br>criterion | scenario<br>(componen<br>t of integral<br>assessment |           |
|                 | 1   | 2  | 3      | 4        | 5        | 6   | 7  | 8         |
|                 | C.1   | Strengthening of business activity<br>between organizations of<br>consumer cooperation and<br>enterprises of adjacent and<br>subsidiary industries.  | 0,1501 | 2        | 6        | -4  | 4,1734   | 0,6263    |
|                 | C.2   | Support for the mechanisms of<br>cooperation and integration of<br>small and medium enterprises by<br>local authorities.   | 0,1232 | 2        | 4        | -2  | 3,0008   | 0,3697    |
|                 | C.3   | Rational choice and thorough<br>justification of ways to strengthen<br>the competitiveness of the system<br>of consumer cooperation by<br>building an appropriate structure<br>that will ensure sustainable<br>development of a<br>national economy. | 0,1191 | 2        | 6        | -4  | 4,1734   | 0,4971    |
|                 | C.4   | Restrictions on imports and global<br>trends in agricultural prices.   | 0,0114 | 1        | 2        | -2  | 1,4146   | 0,0162    |
|                 | C.5   | Increasing the attention to the<br>security of Ukraine in the field of<br>food providing will open up the<br>market for domestic production.   | 0,0110 | 3        | 6        | -4  | 4,4154   | 0,0487    |

Continued tab.14

| 1    | 2   | 3      | 4 | 5 | 6  | 7      | 8      |
|------|---|--------|---|---|----|--------|--------|
| C.6  | Real opportunities to resume large-<br>scale harvesting activities.   | 0,0284 | 1 | 6 | -8 | 3,5879 | 0,1019 |
| C.7  | Significant increase in volumes of own production.  | 0,0315 | 2 | 6 | -6 | 4,0017 | 0,1262 |
| C.8  | Creation of a single operational<br>chain: production of agricultural<br>products and billets – processing –<br>trade.  | 0,0966 | 1 | 8 | -4 | 5,2754 | 0,5095 |
| C.9  | Recovery and development of consumption culture.  | 0,0058 | 2 | 4 | -4 | 2,8292 | 0,0164 |
| C.10 | Ensuring a growing market for<br>products of exclusive (home)<br>quality, which may be demanded<br>by the most demanding consumers<br>in the trade network and catering<br>enterprises. | 0,0104 | 1 | 3 | -2 | 2,0867 | 0,0216 |
| C.11 | Timely detection of signs and<br>causes of insolvency and<br>bankruptcy, assistance in<br>developing an anti-crisis program<br>and implementing health<br>improvement measures.         | 0,1032 | 3 | 8 | -6 | 5,5879 | 0,5765 |
| C.12 | Increasing the overall legal and<br>financial literacy of the<br>management, employees of<br>financial, economic and legal<br>services.   | 0,0070 | 1 | 5 | -3 | 3,3450 | 0,0234 |
| C.13 | Increase the intensity of development and reduce the risk of loss of profit.  | 0,0626 | 2 | 6 | -5 | 4,0875 | 0,2559 |
| C.14 | Ensuring optimization of tax<br>payments, development of social<br>sphere and protection of social and<br>economic interests of<br>shareholders.  | 0,0474 | 2 | 4 | -3 | 2,9150 | 0,1383 |
| C.15 | Ensuring Sustainable Economic<br>Growth and Sustainable Social<br>Development.  | 0,0511 | 1 | 6 | -4 | 3,9313 | 0,2009 |
| C.16 | Increase in scale through the<br>strengthening of interaction with<br>shareholders as members of<br>procurement activities and loyal<br>buyers of goods cooperative trade<br>networks.  | 0,0240 | 1 | 5 | -3 | 3,3450 | 0,0803 |
| C.17 | Growth in the volume of<br>procurement of agricultural<br>products and wild raw materials,<br>and, accordingly, the volume of   | 0,0203 | 1 | 5 | -3 | 3,3450 | 0,0678 |

Continued tab.14

| 1    | 2   | 3      | 4 | 5 | 6  | 7      | 8      |  |  |
|------|---|--------|---|---|----|--------|--------|--|--|
|      | processing and production.  |        |   |   |    |        |        |  |  |
| C.18 | The increase of trade resources at<br>the expense of products of unit-<br>holders, individual labour activity,<br>folk crafts, hunting, fishing, and<br>animal husbandry.   | 0,0172 | 1 | 5 | -3 | 3,3450 | 0,0574 |  |  |
| C.19 | Replenishment of the main and<br>circulating assets of cooperative<br>organizations at the expense of the<br>unit fund as a result of the<br>introduction of new members,<br>increase of share contribution, as<br>well as loan funds of shareholders,<br>the involvement of shareholders in<br>the investment of consumer<br>cooperatives. | 0,0624 | 1 | 7 | -4 | 4,6034 | 0,2875 |  |  |
| C.20 | Stimulating the effective demand<br>of the population and intensifying<br>production in the countryside.  | 0,0172 | 2 | 4 | -3 | 2,9150 | 0,0503 |  |  |
|      | Integral evaluation of the generalized scenario of the second direct<br>the planning process  |        |   |   |    |        |        |  |  |

Consequently, the results of the analysis of the ranking of criteria regarding probable scenarios of the future level of functioning of the Ukraine's cooperation consumer as an integral socioeconomic system are presented in Table. 14, testify that taking into account the weight of all criteria the integral estimation of the generalized scenario of the Second Direct Planning Process is positive and equals 4.0720. This means that the situation with the functioning of Ukraine's cooperation consumer as an integral social and economic system in the structure of the national economy will improve significantly in the near future, provided that it effectively cooperates with the actor, "State regulation", and the use of certain opportunities and the prevention of problems hindering the functioning of consumer cooperation. This situation is explained by a significant improvement (relative to the current state) of the value of most criteria. The greatest improvement is expected in the timely detection of signs and causes of insolvency and bankruptcy, assistance in developing an anti-crisis program and implementing measures to improve consumer cooperation. Conditions for the creation of a unified operational chain: agricultural production and procurement – processing – trade and replenishment of the main and circulating assets of cooperative organizations at the expense of the unit fund due to the entry of new members, increase of share contribution, as well as loan funds of shareholders, involvement of shareholders in investing in consumer cooperatives can evaluate as very likely. A significant increase in business activity between consumer cooperatives and enterprises of adjacent and supportive industries is expected, a more rational choice and thorough justification of ways to strengthen the competitiveness of the consumer cooperatives system by building an appropriate structure that will ensure sustainable development of the national economy. Increasing the attention to the security of Ukraine in the field of food security will open up markets for domestic production; there will be real opportunities for the recovery of large-scale harvesting activities. There will be a significant increase in volumes of own production; increasing the intensity of development and reducing the risk of loss of profits, as well as the use of conditions for sustainable economic growth and a balanced social development of consumer cooperatives. It will be noticeable to increase the level of support of mechanisms of cooperation and integration of small and medium enterprises by local authorities; restoration and development of the consumption culture. It will overall legal and financial literacy of the management, employees of financial, economic and legal services will increase. There will be favourable conditions for optimization of tax payments, development of social sphere and protection of social and economic interests of shareholders. The scale of the functioning of consumer cooperation is increasing due to the strengthening of interaction with shareholders as members of procurement activities and loyal buyers of goods of cooperative trade networks. The volume of purchases of agricultural products and wild raw materials, and, consequently, the volume of processing and production. The number of trade resources will be increased at the expense of products of unit-holders, individual labour activity, folk crafts, hunting, fishing, animal husbandry. Stimulating the effective demand of the population and boosting production in rural areas will be of great importance. Providing a growing market for products of exclusive (home) quality, which may be demanded by the most demanding consumers in the trading network and catering enterprises, will be of little importance. Restrictions on imports and global trends in agricultural prices will almost not change.

Comparing the integral estimates of the generalized scenarios of the first I1 and the second I2 direct planning processes by the formula (4), found that the relative improvement is P = 1,287 or 128.7% of the integral estimate.

$$P = \frac{(\text{I2-I1})}{\text{I1}} , \qquad (4.)$$

Thus, on the basis of comprehensive analytical planning of the future level of functioning of Ukraine's cooperation consumer as a holistic socio-economic system in the structure of the national economy, it is shown how it is necessary to change the structure of the hierarchy of the problem in order to bring the desired future closer, that is, to bring the logical future closer to the desired one. For this purpose, the influence of the actor "State regulation" is taken into account, as well as the most significant actions of the actors with the calculated intensity of application. Such cyclic calculations are foreseen until the logical future approaches the desired future. But the improvement of the integrated assessment of the generalized scenario in 1.287 times confirms that the goal of the analysis of improvements has already been achieved (Ukoopspilka, Kyiv). During the practical testing of the proposed approach, it is proved that it is a methodological basis for forecasting the levels of functioning of Ukraine's cooperation consumer as a holistic socio-economic system in the structure of the national economy and a practical tool based on system analysis of the problem and comprehensively incorporating and using all the limiting factors, problems and opportunities of all the parameters of the system that are in the problem, all their goals, policies and tasks, all alternatives and opportunities for scenarios of development st.

#### DEFINITIONS

The study of the process of forming a conceptual model for building a complex of scenarios for the functioning of Ukraine's cooperation consumer as a coherent socio-economic system in the structure of the national economy provides grounds for formulating a number of practical generalizations and conclusions:

1. During the analytical strategic planning of the process of the functioning of Ukraine's cooperation consumer as an integral social and economic system in the structure of the national economy by increasing its efficiency, the characteristics of the main objectives of consumer cooperatives, its tasks, policies and measures are systematized, and a block diagram of the analytical strategic process planning its operation.

2. The scenario of the functioning of Ukraine's cooperation consumer as a holistic socio-economic system in the conditions of the European vector of development of Ukraine is developed, which is presented as analytical planning, which includes direct and reverses planning processes in order to bring the logical future of the system closer to the desired future. Due to the implementation of the developed scenario, the goal was to design a logical future according to the assumption that the current tendencies of the functioning of the consumer cooperatives of Ukraine as a holistic socio-economic system in the structure of the national economy are stable.

3. The scenario of the possibilities of improving the functioning of Ukraine's cooperation consumer as a coherent socio-economic system in the structure of the national economy has been developed. Due to the implementation of the developed scenario, the goal is to identify the most important measures of the most significant policy parameters of the system (actors), the realization of which will help to approximate the probable (logical) scenario of the functioning of Ukraine's cooperation consumer as a coherent socioeconomic system in the structure of the national economy and the desired future scenario for the functioning of this system for by increasing its efficiency.

4. During the planning of the functioning of the Ukraine's cooperation consumer as a holistic socio-economic system, an imitation model of its functioning was developed on the basis of harmonization of interests of consumer cooperatives with the state. Practical testing of the developed model concerning probable scenarios of the future level of functioning of Ukraine's cooperation consumer as a holistic socio-economic system on the basis of the ranking of criteria proves that the relative improvement is 1.287, or 128,7% of the integral estimate, that is 1,287 times. This means that the situation with the functioning of Ukraine's cooperation consumer as an integral social and economic system in the structure of the national economy will improve significantly in the near future, provided that it effectively cooperates with the actor, "State regulation", and the use of certain opportunities and the prevention of problems hindering the functioning of consumer cooperation.

It is proved that the considered approach is, on the one hand, a methodological basis for forecasting the levels of functioning of Ukraine's cooperation consumer as an integral social and economic system in the structure of the national economy, and on the other hand, is a practical tool that is based on system analysis of the problem and comprehensively takes into account and uses all factors, constraints, problems and capabilities all the parameters, objectives, policies and tasks of the problem system, and in all alternatives and opportunities of scenarios for the development of events.

The main scientific results of the research were tested at scientific and practical conferences [10, 11, 14–16, 18, 19], published in monographs [20, 27], and published in professional and foreign publications [1, 8–10, 12, 13 17, 21–26, 28].

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## Addition A

Table A.1

| Intellect       |            | Policies |       |       |           |       |       |       |       |       | Vector of |
|-----------------|------------|----------|-------|-------|-----------|-------|-------|-------|-------|-------|-----------|
| Policies        | I.1        | I.2      | I.3   | I.4   | I.5       | I.6   | I.7   | I.8   | I.9   | I.10  | Pi        |
| I.1             | 1,000      | 3,000    | 4,000 | 3,000 | 5,000     | 2,000 | 4,000 | 5,000 | 5,000 | 5,000 | 24,76%    |
| I.2             | 0,333      | 1,000    | 3,000 | 4,000 | 5,000     | 3,000 | 3,000 | 4,000 | 5,000 | 5,000 | 19,67%    |
| I.3             | 0,250      | 0,333    | 1,000 | 3,000 | 4,000     | 2,000 | 4,000 | 4,000 | 5,000 | 5,000 | 14,41%    |
| I.4             | 0,333      | 0,250    | 0,333 | 1,000 | 4,000     | 3,000 | 3,000 | 5,000 | 5,000 | 5,000 | 11,97%    |
| I.5             | 0,200      | 0,200    | 0,250 | 0,250 | 1,000     | 0,500 | 0,500 | 3,000 | 5,000 | 5,000 | 5,44%     |
| I.6             | 0,500      | 0,333    | 0,500 | 0,333 | 2,000     | 1,000 | 3,000 | 4,000 | 4,000 | 4,000 | 9,36%     |
| I.7             | 0,250      | 0,333    | 0,250 | 0,333 | 2,000     | 0,333 | 1,000 | 3,000 | 4,000 | 4,000 | 6,35%     |
| I.8             | 0,200      | 0,250    | 0,250 | 0,200 | 0,333     | 0,250 | 0,333 | 1,000 | 3,000 | 3,000 | 3,53%     |
| I.9             | 0,200      | 0,200    | 0,200 | 0,200 | 0,200     | 0,250 | 0,250 | 0,333 | 1,000 | 3,000 | 2,50%     |
| I.10            | 0,200      | 0,200    | 0,200 | 0,200 | 0,200     | 0,250 | 0,250 | 0,333 | 0,333 | 1,000 | 2,01%     |
| $\lambda_{max}$ | CI = 0,154 |          |       |       | CR = 0,10 |       |       | 3     |       |       |           |

The Importance of Actor's Policies «Intellect»

Table A.2

## The Importance of Actor's Policies «Natural and production base»

| Natural and<br>production | Pc                  | olicies | Vector of |
|---------------------------|---------------------|---------|-----------|
| Policies                  | NDR 1               | NPR 2   |           |
| Toncies                   | INI D.1             | INI D.2 |           |
| NPB.1                     | 1                   | 5       | 83,33%    |
| NPB.2                     | 0,200               | 1       | 16,67%    |
| $\lambda_n$               | <i>nax</i> = 2,0 CI | = 0     | CR = 0    |

Table A.3

The Importance of Actor's Policies «Health»

| Health      |          | Vector of |                           |
|-------------|----------|-----------|---------------------------|
| Policies    | H.1      | H.2       | priorities P <sub>i</sub> |
| H.1         | 1        | 3         | 75,00%                    |
| H.2         | 0,333    | 1         | 25,00%                    |
| $\lambda_m$ | aa = 2,0 | CI = 0    | CR = 0                    |

The Importance of Actor's Policies «Organization and Adaptation»

| Organizatio<br>n and<br>Adaptation           | Policies |       |       |       |       |       |       |       |       |       |       | Vector of |       |       |                           |
|--|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|-------|---------------------------|
| Thuptution                                   |          |       |       |       |       |       |       |       |       | OA.   | OA.   | OA.       | OA.   | OA.   | priorities P <sub>i</sub> |
| Policies                                     | OA.1     | OA.2  | OA.3  | OA.4  | OA.5  | OA.6  | OA.7  | OA.8  | OA.9  | 10    | 11    | 12        | 13    | 14    |                           |
| OA.1   | 1,000    | 3,000 | 5,000 | 3,000 | 5,000 | 3,000 | 3,000 | 5,000 | 4,000 | 3,000 | 0,333 | 5,000     | 5,000 | 5,000 | 14,54%                    |
| OA.2   | 0,333    | 1,000 | 2,000 | 5,000 | 3,000 | 3,000 | 4,000 | 2,000 | 5,000 | 4,000 | 0,200 | 5,000     | 5,000 | 5,000 | 11,13%                    |
| OA.3   | 0,200    | 0,500 | 1,000 | 5,000 | 5,000 | 3,000 | 2,000 | 2,000 | 3,000 | 2,000 | 0,200 | 5,000     | 5,000 | 5,000 | 8,80%                     |
| OA.4   | 0,333    | 0,200 | 0,200 | 1,000 | 0,200 | 0,333 | 0,250 | 0,250 | 3,000 | 0,250 | 0,143 | 0,333     | 0,333 | 3,000 | 1,89%                     |
| OA.5   | 0,200    | 0,333 | 0,200 | 5,000 | 1,000 | 0,333 | 0,250 | 0,250 | 5,000 | 0,250 | 0,143 | 4,000     | 4,000 | 3,000 | 3,52%                     |
| OA.6   | 0,333    | 0,333 | 0,333 | 3,000 | 3,000 | 1,000 | 0,333 | 0,333 | 4,000 | 0,333 | 0,143 | 4,000     | 4,000 | 4,000 | 4,56%                     |
| OA.7   | 0,333    | 0,250 | 0,500 | 4,000 | 4,000 | 3,000 | 1,000 | 2,000 | 4,000 | 2,000 | 0,143 | 5,000     | 5,000 | 5,000 | 7,60%                     |
| OA.8   | 0,200    | 0,500 | 0,500 | 4,000 | 4,000 | 3,000 | 0,500 | 1,000 | 4,000 | 2,000 | 0,143 | 5,000     | 5,000 | 5,000 | 6,97%                     |
| OA.9   | 0,250    | 0,200 | 0,333 | 0,333 | 0,200 | 0,250 | 0,250 | 0,250 | 1,000 | 0,200 | 0,111 | 0,200     | 0,200 | 0,333 | 1,23%                     |
| OA.10  | 0,333    | 0,250 | 0,500 | 4,000 | 4,000 | 3,000 | 0,500 | 0,500 | 5,000 | 1,000 | 0,143 | 5,000     | 5,000 | 5,000 | 6,33%                     |
| OA.11  | 3,000    | 5,000 | 5,000 | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 | 9,000 | 7,000 | 1,000 | 7,000     | 7,000 | 9,000 | 27,34%                    |
| OA.12  | 0,200    | 0,200 | 0,200 | 3,000 | 0,250 | 0,250 | 0,200 | 0,200 | 5,000 | 0,200 | 0,143 | 1,000     | 3,000 | 5,000 | 2,55%                     |
| OA.13  | 0,200    | 0,200 | 0,200 | 3,000 | 0,250 | 0,250 | 0,200 | 0,200 | 5,000 | 0,200 | 0,143 | 0,333     | 1,000 | 5,000 | 2,18%                     |
| OA.14  | 0,200    | 0,200 | 0,200 | 0,333 | 0,333 | 0,250 | 0,200 | 0,200 | 3,000 | 0,200 | 0,111 | 0,200     | 0,200 | 1,000 | 1,38%                     |
| $\lambda_{max} = 16,644$ CI = 0,203 CR = 0,1 |          |       |       |       |       |       | 30    |       |       |       |       |           |       |       |                           |

Table A.5

#### The Importance of Actor's Policies «Regulation»

| Regulation  |                        | Vector of |            |       |                           |
|-------------|------------------------|-----------|------------|-------|---------------------------|
| Policies    | P.1                    | P.2       | P.3        | P.4   | priorities P <sub>i</sub> |
| P.1         | 1,000                  | 0,200     | 0,200      | 3,000 | 10,21%                    |
| P.2         | 5,000                  | 1,000     | 0,200      | 5,000 | 25,93%                    |
| P.3         | 5,000                  | 5,000     | 1,000      | 5,000 | 57,98%                    |
| P.4         | 0,333                  | 0,200     | 0,200      | 1,000 | 5,89%                     |
| $\lambda_m$ | $a_{a\lambda} = 4,494$ | (         | CI = 0,165 | CR =  | = 0,183                   |

Table A.6

Priority (importance) of measures relative to Policies I.1

| I.1                 | I.1.1     | Vector of priorities<br>Pi |
|---------------------|-----------|----------------------------|
| I.1.1               | 1         | 1,00 %                     |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                        |

#### Table A.7

Priority (importance) of measures relative to Policies I.2

| I.2                 | I.2.1     | Vector of priorities<br>Pi |
|---------------------|-----------|----------------------------|
| I.2.1               | 1         | 1,00 %                     |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                        |

Table A.8

Priority (importance) of measures relative to Policies I.3

| I.3                 | I.3.1     | Vector of priorities<br>Pi |
|---------------------|-----------|----------------------------|
| I.3.1               | 1         | 1,00 %                     |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                        |

Table A.9

## Priority (importance) of measures relative to Policies I.4

| I.4                     | I.4.1 | I.4.2   | I.4.3 | Vector of priorities<br>P <sub>i</sub> |
|-------------------------|-------|---------|-------|--|
| I.4.1                   | 1     | 5       | 5     | 69,28%                                 |
| I.4.2                   | 0,2   | 1       | 0,25  | 8,73%                                  |
| I.4.3                   | 0,2   | 4       | 1     | 21,99%                                 |
| $\lambda_{max} = 3,217$ | 7 CI  | = 0,109 | CR =  | 0,187                                  |

Table A.10

#### Priority (importance) of measures relative to Policies I.5

| I.5                 | I.5.1     | Vector of priorities<br>Pi |
|---------------------|-----------|----------------------------|
| I.5.1               | 1         | 1,00 %                     |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                        |

Table A.11

Priority (importance) of measures relative to Policies I.6

| I.6                     | I.6.1 | I.6.2                 | I.6.3 | I.6.4 | Vector of<br>priorities P <sub>i</sub> |
|-------------------------|-------|-----------------------|-------|-------|--|
| I.6.1                   | 1     | 5                     | 7     | 4     | 59,92%                                 |
| I.6.2                   | 0,2   | 1                     | 5     | 3     | 22,93%                                 |
| I.6.3                   | 0,14  | 0,2                   | 1     | 0,5   | 6,02%                                  |
| I.6.4                   | 0,25  | 0,33                  | 2     | 1     | 11,13%                                 |
| $\lambda_{max} = 4,218$ |       | CI = 0,073 CR = 0,081 |       | 0,081 |  |

Table A.12

#### Priority (importance) of measures relative to Policies I.7

| I.7                   | I.7.1  | I.7.2 | Vector of priorities<br>Pi |
|-----------------------|--------|-------|----------------------------|
| I.7.1                 | 1      | 2     | 66,67%                     |
| I.7.2                 | 0,5    | 1     | 33,33%                     |
| $\lambda_{max} = 2.0$ | CI = 0 | CR    | = 0                        |

Table A.13

Priority (importance) of measures relative to Policies I.8

| I.8                   | I.8.1  | I.8.2 | Vector of priorities<br>Pi |
|-----------------------|--------|-------|----------------------------|
| I.8.1                 | 1      | 2     | 66,67%                     |
| I.8.2                 | 0,5    | 1     | 33,33%                     |
| $\lambda_{max} = 2,0$ | CI = 0 | CR    | = 0                        |

Table A.14

## Priority (importance) of measures relative to Policies I.9

| I.9                     | I.9.1 | I.9.2  | I.9.3 | I.9.4 | I.9.5      | Vector of<br>priorities P <sub>i</sub> |
|-------------------------|-------|--------|-------|-------|------------|--|
| I.9.1                   | 1     | 0,33   | 0,2   | 0,25  | 3          | 8,11%                                  |
| I.9.2                   | 3     | 1      | 0,33  | 0,5   | 5          | 17,74%                                 |
| I.9.3                   | 5     | 3      | 1     | 4     | 5          | 46,22%                                 |
| I.9.4                   | 4     | 2      | 0,25  | 1     | 5          | 23,41%                                 |
| I.9.5                   | 0,33  | 0,2    | 0,2   | 0,2   | 1          | 4,51%                                  |
| $\lambda_{max} = 5,361$ |       | CI = ( | ),090 |       | CR = 0,081 |  |
Priority (importance) of measures relative to Policies I.10

| I.10                | I.10.1    | Vector of priorities<br>Pi |
|---------------------|-----------|----------------------------|
| I.10.1              | 1         | 1,00 %                     |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                        |

Table A.16

Priority (importance) of measures relative to Policies NPB.1

| NPB.1   | NPB.1.1         | NPB.1.2 | NPB.1.3 | NPB.1.4 | NPB.1.5  | NPB.1.6 | NPB.1.7    | NPB.1.8 | Vector of priorities P <sub>i</sub> |  |  |
|---------|-----------------|---------|---------|---------|----------|---------|------------|---------|-------------------------------------|--|--|
| NPB.1.1 | 1               | 3       | 3       | 3       | 3        | 3       | 5          | 5       | 28,16%                              |  |  |
| NPB.1.2 | 0,33            | 1       | 3       | 0,25    | 0,25     | 0,25    | 0,25       | 0,25    | 3,98%                               |  |  |
| NPB.1.3 | 0,33            | 0,33    | 1       | 0,25    | 0,25     | 0,25    | 0,25       | 0,25    | 3,03%                               |  |  |
| NPB.1.4 | 0,33            | 4       | 4       | 1       | 5        | 5       | 5          | 5       | 26,12%                              |  |  |
| NPB.1.5 | 0,33            | 4       | 4       | 0,20    | 1        | 3       | 3          | 3       | 14,42%                              |  |  |
| NPB.1.6 | 0,33            | 4       | 4       | 0,20    | 0,33     | 1       | 2          | 2       | 9,90%                               |  |  |
| NPB.1.7 | 0,2             | 4       | 4       | 0,20    | 0,33     | 0,50    | 1          | 0,50    | 6,57%                               |  |  |
| NPB.1.8 | 0,2 4           |         | 4       | 0,20    | 0,33     | 0,50    | 2          | 1       | 7,81%                               |  |  |
|         | $\lambda_{max}$ | = 9,342 |         |         | CI = 0,1 | 92      | CR = 0,136 |         |                                     |  |  |

Table A.17

Priority (importance) of measures relative to Policies H.1

|        |                       |          |       |       |       |        |       |            |       | H.   | H.1.1 | Vector of                 |  |
|--------|-----------------------|----------|-------|-------|-------|--------|-------|------------|-------|------|-------|---------------------------|--|
| H.1    | H.1.1                 | H.1.2    | H.1.3 | H.1.4 | H.1.5 | H.1.6  | H.1.7 | H.1.8      | H.1.9 | 1.10 | 1     | priorities P <sub>i</sub> |  |
| H.1.1  | 1                     | 3        | 0,33  | 0,20  | 4     | 2      | 0,25  | 0,20       | 1     | 0,25 | 2     | 5,15%                     |  |
| H.1.2  | 0,33                  | 1        | 0,2   | 0,20  | 2     | 0,50   | 0,25  | 0,20       | 2     | 0,25 | 2     | 3,55%                     |  |
| H.1.3  | 3                     | 5        | 1     | 0,25  | 5     | 4      | 3     | 5          | 0,50  | 0,25 | 5     | 12,53%                    |  |
| H.1.4  | 5                     | 5        | 4     | 1     | 7     | 3      | 3     | 0,20       | 3     | 3    | 5     | 18,67%                    |  |
| H.1.5  | 0,25                  | 0,5      | 0,20  | 0,14  | 1     | 0,33   | 0,20  | 0,14       | 0,20  | 0,14 | 0,25  | 1,73%                     |  |
| H.1.6  | 0,50                  | 2        | 0,25  | 0,33  | 3     | 1      | 0,20  | 0,20       | 0,33  | 0,20 | 0,25  | 3,13%                     |  |
| H.1.7  | 4                     | 4        | 0,33  | 0,33  | 5     | 5      | 1     | 3          | 5     | 3    | 5     | 15,95%                    |  |
| H.1.8  | 5                     | 5        | 0,2   | 5     | 7     | 5      | 0,33  | 1          | 3     | 3    | 5     | 16,35%                    |  |
| H.1.9  | 1                     | 0,50     | 2     | 0,33  | 5     | 3      | 0,20  | 0,33       | 1     | 0,25 | 2     | 5,87%                     |  |
| H.1.10 | 4                     | 4        | 4     | 0,33  | 7     | 5      | 0,33  | 0,33       | 4     | 1    | 5     | 13,54%                    |  |
| H.1.11 | H.1.11 0,50 0,50 0,20 |          |       |       | 4     | 4      | 0,20  | 0,20 0,50  |       | 0,20 | 1     | 3,54%                     |  |
|        | $\lambda_{max}$ =     | = 13,778 | 3     |       | CI    | = 0,27 | 8     | CR = 0,184 |       |      |       |                           |  |

Priority (importance) of measures relative to Policies H.2

| Н.2                 | H.2.1 | H.2.2  | H.2.3 | H.2.4 | Vector of<br>priorities P <sub>i</sub> |
|---------------------|-------|--------|-------|-------|--|
| H.2.1               | 1     | 0,5    | 0,5   | 5     | 20,32%                                 |
| H.2.2               | 2     | 1      | 5     | 5     | 51,09%                                 |
| H.2.3               | 2     | 0,2    | 1     | 5     | 22,85%                                 |
| H.2.4               | 0,2   | 0,2    | 0,2   | 1     | 5,75%                                  |
| $\lambda_{max} = 1$ | 4,398 | CI = 0 | ),133 | CR =  | 0,147                                  |

Table A.19

Priority (importance) of measures relative to Policies OA.1

|                         |        |         |        | Vector of priorities |
|-------------------------|--------|---------|--------|----------------------|
| OA.1                    | OA.1.1 | OA.1.2  | OA.1.3 | Pi                   |
| OA.1.1                  | 1      | 5       | 5      | 70,07%               |
| OA.1.2                  | 0,2    | 1       | 3      | 20,21%               |
| OA.1.3                  | 0,2    | 0,3     | 1      | 9,72%                |
| $\lambda_{max} = 3,136$ | CI     | = 0,068 | CR =   | 0,117                |

Table A.20

Priority (importance) of measures relative to Policies OA.2

| OA.2                | OA.2.1    | Vector of priorities<br>Pi |
|---------------------|-----------|----------------------------|
| OA.2.1              | 1         | 1,00 %                     |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                        |

Table A.21

Priority (importance) of measures relative to Policies OA.11

| OA.11               | OA.11.1   | Vector of priorities<br>Pi |
|---------------------|-----------|----------------------------|
| OA.11.1             | 1         | 1,00 %                     |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                        |

Table A.22

# Priority (importance) of measures relative to Policies R.3

|                       |        |       | Vector of priorities |
|-----------------------|--------|-------|----------------------|
| R.3                   | R.3.1  | R.3.2 | Pi                   |
| R.3.1                 | 1      | 5     | 83,33%               |
| R.3.2                 | 0,2    | 1     | 16,67%               |
| $\lambda_{max} = 2,0$ | CI = 0 | CR    | = 0                  |

|           | R.3         | 18 | 0     | 0     | 0     | 0      | 0      | 0      | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0       | 0       |
|-----------|-------------|----|-------|-------|-------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
|           | 0A.11       | 17 | 0     | 0     | 0     | 0      | 0      | 0      | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0       | 0       |
|           | <b>OA.2</b> | 16 | 0     | 0     | 0     | 0      | 0      | 0      | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0       | 0       |
|           | 0A.1        | 15 | 0     | 0     | 0     | 0      | 0      | 0      | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0       | 0       |
| suc       | H.2         | 14 | 0     | 0     | 0     | 0      | 0      | 0      | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0       | 0       |
| to the fo | H.1         | 13 | 0     | 0     | 0     | 0      | 0      | 0      | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0       | 0       |
| elative 1 | NPB.1       | 12 | 0     | 0     | 0     | 0      | 0      | 0      | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0,2816  | 0,0398  | 0,0303  | 0,2612  | 0,1442  | 0,0990  |
| ures r    | I.10        | 11 | 0     | 0     | 0     | 0      | 0      | 0      | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1      | 0       | 0       | 0       | 0       | 0       | 0       |
| of meas   | I.9         | 10 | 0     | 0     | 0     | 0      | 0      | 0      | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0,0811 | 0,1774 | 0,4622 | 0,2341 | 0,0451 | 0      | 0       | 0       | 0       | 0       | 0       | 0       |
| rtance)   | I.8         | 6  | 0     | 0     | 0     | 0      | 0      | 0      | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0,6667 | 0,3333 | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0       | 0       |
| s (Impo   | I.7         | 8  | 0     | 0     | 0     | 0      | 0      | 0      | 0     | 0      | 0      | 0      | 0      | 0,6667 | 0,3333 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0       | 0       |
| Prioritie | I.6         | 7  | 0     | 0     | 0     | 0      | 0      | 0      | 0     | 0,5992 | 0,2293 | 0,0602 | 0,1113 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0       | 0       |
| [ ]o (    | I.5         | 9  | 0     | 0     | 0     | 0      | 0      | 0      | 1     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0       | 0       |
| General   | I.4         | 5  | 0     | 0     | 0     | 0,6927 | 0,0872 | 0,2199 | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0       | 0       |
| XA (      | I.3         | 4  | 0     | 0     | -     | 0      | 0      | 0      | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0       | 0       |
| latriy    | I.2         | с  | 0     |       | 0     | 0      | 0      | 0      | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0       | 0       |
| he M      | I.1         | 7  |       | 0     | 0     | 0      | 0      | 0      | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0       | 0       |
| Τ         |             |    | I.1.1 | I.2.1 | I.3.1 | I.4.1  | I.4.2  | I.4.3  | I.5.1 | I.6.1  | I.6.2  | I.6.3  | I.6.4  | I.7.1  | I.7.2  | I.8.1  | I.8.2  | I.9.1  | I.9.2  | I.9.3  | I.9.4  | I.9.5  | I.10.1 | NPB.1.1 | NPB.1.2 | NPB.1.3 | NPB.1.4 | NPB.1.5 | NPB.1.6 |

| fo                |
|-------------------|
| the               |
| <b>t</b> 0        |
| relative          |
| f measures        |
| 0                 |
| portance          |
| Im                |
| <b>Priorities</b> |
| of                |
| (General)         |
|                   |
| Matrix .          |

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Table A.23

| A.23      |
|-----------|
| tab.      |
| Continued |

| 18 | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0,8333 | 0,1667 |
|----|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| 17 | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1       | 0      | 0      |
| 16 | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1      | 0       | 0      | 0      |
| 15 | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0,7007 | 0,2021 | 0,0972 | 0      | 0       | 0      | 0      |
| 14 | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0,2032 | 0.5109 | 0,2285 | 0,0575 | 0      | 0      | 0      | 0      | 0       | 0      | 0      |
| 13 | 0       | 0       | 0,0515 | 0,0355 | 0,1253 | 0,1867 | 0,0173 | 0,0313 | 0,1595 | 0,1635 | 0,0587 | 0,1354 | 0,0354 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      |
| 12 | 0,0657  | 0,0781  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      |
| 11 | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      |
| 10 | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      |
| 6  | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      |
| ×  | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      |
| 7  | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      |
| 9  | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      |
| S  | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      |
| 4  | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      |
| m  | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      |
| 0  | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      |
| -  | NPB.1.7 | NPB.1.8 | H.1.1  | H.1.2  | H.1.3  | H.1.4  | H.1.5  | H.1.6  | H.1.7  | H.1.8  | H.1.9  | H.1.10 | H.1.11 | H.2.1  | H.2.2  | H.2.3  | H.2.4  | OA.1.1 | OA.1.2 | OA.1.3 | OA.2.1 | 0A.11.1 | R.3.1  | R.3.2  |

|   | R.3         | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0           | 0      | 0,0392 |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|--------|--------|
|   | OA.11       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0           | 0,0196 | 0      |
|   | <b>OA.2</b> | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0,0196      | 0      | 0      |
|   | 0A.1        | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0,0588 | 0           | 0      | 0      |
|   | H.2         | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0,0784 | 0      | 0           | 0      | 0      |
|   | H.1         | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0,2157 | 0      | 0      | 0           | 0      | 0      |
|   | NPB.1       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0,1569 | 0      | 0      | 0      | 0           | 0      | 0      |
|   | I.10        | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0,0196 | 0      | 0      | 0      | 0      | 0           | 0      | 0      |
|   | I.9         | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0,0980 | 0      | 0      | 0      | 0      | 0      | 0           | 0      | 0      |
|   | I.8         | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0,0392 | 0      | 0      | 0      | 0      | 0      | 0      | 0           | 0      | 0      |
|   | $\Gamma.7$  | 0      | 0      | 0      | 0      | 0      | 0      | 0,0392 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0           | 0      | 0      |
| ~ | 1.6         | 0      | 0      | 0      | 0      | 0      | 0,0784 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0           | 0      | 0      |
|   | I.5         | 0      | 0      | 0      | 0      | 0,0196 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0           | 0      | 0      |
|   | I.4         | 0      | 0      | 0      | 0,0588 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0           | 0      | 0      |
|   | I.3         | 0      | 0      | 0,0196 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0           | 0      | 0      |
|   | I.2         | 0      | 0,0196 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0           | 0      | 0      |
|   | I.1         | 0,0196 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0           | 0      | 0      |
|   |             | I.1    | I.2    | I.3    | I.4    | I.5    | I.6    | I.7    | I.8    | I.9    | I.10   | NPB.1  | H.1    | H.2    | 0A.1   | <b>OA.2</b> | 0A.11  | R.3    |

The Matrix L (structured) of Priority (importance) measures relative to the focus

| ~ | a, |  |
|---|----|--|
| L | 7  |  |
| U | _  |  |
|   |    |  |

Table A.24

| he Matrix AL (structural) with vectors X, W of priority (importance) of measures relative 1 | o focu               |
|---|----------------------|
| he Matrix AL (structural) with vectors X, W of priority (importance) of measures            | relative t           |
| he Matrix AL (structural) with vectors X, W of priority (importance) (                      | of measures          |
| he Matrix AL (structural) with vectors X, W of priority (imp                                | ortance) (           |
| he Matrix AL (structural) with vectors X, W of priori                                       | ty (imp              |
| he Matrix AL (structural) with vectors X, W of  | f priori             |
| he Matrix AL (structural) with vectors <b>X</b>   | K, W of              |
| he Matrix AL (structural) wi  | I vectors X          |
| he Matrix AL (s   | E                    |
| he Matrix   | structural) with     |
|   | AL (structural) with |

| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$   | -           | _  | _       | _       | _       | _       | _      | _       | _       | _       | _       | _       | _      | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       |
|---|-------------|----|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  | W, %        | 21 | 7,67    | 6,09    | 4,46    | 7,70    | 0,97   | 2,45    | 1,68    | 6,94    | 2,66    | 0,70    | 1,29   | 2,62    | 1,31    | 1,46    | 0,73    | 0,31    | 0,69    | 1,79    | 0.91    | 0,17    | 0,62    | 2,57    | 0,36    | 0,28    | 2,38    | 1,32    | 0,90    | 0,60    | 0,71    | 1.44    |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$   | M           | 20 | 0,07668 | 0,06091 | 0,04462 | 0,07702 | 0,0097 | 0,02445 | 0,01684 | 0,06944 | 0,02657 | 0,00698 | 0,0129 | 0,02623 | 0,01311 | 0,01458 | 0,00729 | 0,00314 | 0,00687 | 0,01791 | 0,00907 | 0,00175 | 0,00622 | 0,02569 | 0,00363 | 0,00276 | 0,02383 | 0,01316 | 0,00903 | 0,00599 | 0,00713 | 0.01442 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$   | ALX         | 19 | 0,0038  | 0,0030  | 0,0022  | 0,0038  | 0,0005 | 0,0012  | 0,0008  | 0,0035  | 0,0013  | 0,0003  | 0,0006 | 0,0013  | 0,0007  | 0,0007  | 0,0004  | 0,0002  | 0,0003  | 0,0009  | 0,0005  | 0,0001  | 0,0003  | 0,0013  | 0,0002  | 0,0001  | 0,0012  | 0,0007  | 0,0005  | 0,0003  | 0,0004  | 0.0007  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$   | R.3         | 18 | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$   | 0A.11       | 17 | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$   | <b>OA.2</b> | 16 | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  | 0A.1        | 15 | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  | H.2         | 14 | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  | H.1         | 13 | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0.0111  |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  | NPB.1       | 12 | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0,0442  | 0,0063  | 0,0047  | 0,0410  | 0,0226  | 0,0155  | 0,0103  | 0,0123  | 0       |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  | I.10        | 11 | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0,0196  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  | I.9         | 10 | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0,0080  | 0,0174  | 0,0453  | 0,0230  | 0,0044  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  | I.8         | 6  | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0,0261  | 0,0131  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  | I.7         | 8  | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0      | 0,0261  | 0,0131  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  | I.6         | 7  | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0,0470  | 0,0180  | 0,0047  | 0,0087 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  | I.5         | 9  | 0       | 0       | 0       | 0       | 0      | 0       | 0,0196  | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  | I.4         | 5  | 0       | 0       | 0       | 0,0408  | 0,0051 | 0,0129  | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | I.3         | 4  | 0       | 0       | 0,0196  | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  | I.2         | 33 | 0       | 0,0196  | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 1         1           1.1.1         1.2.1           1.2.1         1.3.1           1.4.1         1.4.2           1.4.3         1.4.3           1.5.1         1.6.1           1.6.2         1.6.2           1.6.1         1.6.2           1.6.1         1.6.2           1.7.1         1.6.1           1.6.2         1.6.1           1.6.3         1.6.1           1.6.1         1.6.2           1.9.1         1.9.1           1.9.1         1.9.1           1.9.1         1.9.1           1.9.1         1.9.1           1.9.1         1.9.1           1.9.1         1.9.2           1.9.1         1.9.1           1.9.1         1.9.2           1.9.1         1.9.1           1.9.1         1.9.2           1.9.1         1.9.2           1.9.1         1.9.2           1.9.1         1.9.2           1.9.1         1.9.2           1.9.1         1.9.2           1.9.1         1.9.2           1.9.1         1.9.2           1.9.1         1.9.2           1.9.1 | I.1         | 7  | 0,0196  | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|   |             | 1  | I.1.1   | I.2.1   | I.3.1   | I.4.1   | I.4.2  | I.4.3   | I.5.1   | I.6.1   | I.6.2   | I.6.3   | I.6.4  | I.7.1   | I.7.2   | I.8.1   | I.8.2   | I.9.1   | I.9.2   | I.9.3   | I.9.4   | I.9.5   | I10.1   | NPB.11. | NPB.1.2 | NPB.1.3 | NPB.1.4 | NPB.1.5 | NPB.1.6 | NPB.1.7 | NPB.1.8 | H.1.1   |

| A.25      |  |
|-----------|--|
| tab.      |  |
| Continued |  |

| 21 | 0,99    | 3,51    | 5,23    | 0,48    | 0,88    | 4,46    | 4,58    | 1,64    | 3,79    | 0,99   | 0,69    | 1,73    | 0,78    | 0,19    | 1,87    | 0,54    | 0,26    | 0,68   | 1,67    | 1,04    | 0,21    |
|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|
| 20 | 0,00994 | 0,03507 | 0,05227 | 0,00484 | 0,00876 | 0,04464 | 0,04576 | 0,01642 | 0,03792 | 0,0099 | 0,00689 | 0,01734 | 0,00775 | 0,00195 | 0,01867 | 0,00538 | 0,00259 | 0,0068 | 0,0167  | 0,01039 | 0,00208 |
| 19 | 0,0005  | 0,0017  | 0,0026  | 0,0002  | 0,0004  | 0,0022  | 0,0023  | 0,0008  | 0,0019  | 0,0005 | 0,0003  | 0,0009  | 0,0004  | 0,0001  | 0,0009  | 0,0003  | 0,0001  | 0,0003 | 0,0008  | 0,0005  | 0,0001  |
| 18 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0,0327  | 0,0065  |
| 17 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0,0196  | 0       | 0       |
| 16 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0,0196 | 0       | 0       | 0       |
| 15 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0,0412  | 0,0119  | 0,0057  | 0      | 0       | 0       | 0       |
| 14 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0,0159  | 0,0401  | 0,0179  | 0,0045  | 0       | 0       | 0       | 0      | 0       | 0       | 0       |
| 13 | 0,0077  | 0,0270  | 0,0403  | 0,0037  | 0,0068  | 0,0344  | 0,0353  | 0,0127  | 0,0292  | 0,0076 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       |
| 12 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       |
| 11 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       |
| 10 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       |
| 6  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       |
| 8  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       |
| 7  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       |
| 9  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       |
| 5  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       |
| 4  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       |
| б  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       |
| 7  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       |
| 1  | H.1.2   | H.1.3   | H.1.4   | H.1.5   | H.1.6   | H.1.7   | H.1.8   | H.1.9   | H.1.10  | H.1.11 | H.2.1   | H.2.2   | H.2.3   | H.2.4   | 0A.1.1  | OA.1.2  | OA.1.3  | OA.2.1 | OA.11.1 | R.3.1   | R.3.2   |

Comparison of scenarios by measure I.1.1

| I.1.1                          |      | Vector of priorities |            |            |
|--------------------------------|------|----------------------|------------|------------|
| Scenario                       | S1   | S2                   | <b>S</b> 3 | Pi         |
| S1                             | 1,00 | 3,00                 | 2,00       | 0,5472     |
| S2                             | 0,33 | 1,00                 | 2,00       | 0,2631     |
| S3                             | 0,50 | 0,50                 | 1,00       | 0,1897     |
| $\lambda_{\text{max}} = 3,135$ | 56   | CI = 0,0678          | CI         | R = 0,1169 |

Table A.27

## Comparison of scenarios by measure I.2.1

| I.2.1                       |      | Vector of priorities |      |            |
|-----------------------------|------|----------------------|------|------------|
| Scenario                    | S1   | S2                   | S3   | Pi         |
| S1                          | 1,00 | 5,00                 | 0,33 | 0,2969     |
| S2                          | 0,20 | 1,00                 | 0,20 | 0,0856     |
| \$3                         | 3,00 | 5,00                 | 1,00 | 0,6175     |
| $\lambda_{\rm max} = 3,135$ | 56   | CI = 0,0678          | C    | R = 0,1169 |

Table A.28

Comparison of scenarios by measure I.3.1

| I.3.1                       |      | Vector of priorities |      |             |
|-----------------------------|------|----------------------|------|-------------|
| Scenario                    | S1   | S2                   | S3   | Pi          |
| S1                          | 1,00 | 5,00                 | 0,25 | 0,2606      |
| S2                          | 0,20 | 1,00                 | 0,20 | 0,0827      |
| \$3                         | 4,00 | 5,00                 | 1,00 | 0,6567      |
| $\lambda_{\rm max} = 3,217$ | 74   | CI = 0,1087          | C    | CR = 0,1874 |

Table A.29

# Comparison of scenarios by measure I.4.1

| I.4.1                       |      | Vector of priorities |      |            |
|-----------------------------|------|----------------------|------|------------|
| Scenario                    | S1   | S2                   | S3   | Pi         |
| S1                          | 1,00 | 5,00                 | 0,20 | 0,2258     |
| S2                          | 0,20 | 1,00                 | 0,17 | 0,0727     |
| \$3                         | 5,00 | 6,00                 | 1,00 | 0,7016     |
| $\lambda_{\rm max} = 3,230$ | )6   | CI = 0,1153          | CH   | R = 0,1988 |

Comparison of scenarios by measure I.4.2

| I.4.2                       |      |             | Vector of priorities |            |  |
|-----------------------------|------|-------------|----------------------|------------|--|
| Scenario                    | S1   | S2          | <b>S</b> 3           | Pi         |  |
| S1                          | 1,00 | 4,00        | 0,14                 | 0,1669     |  |
| S2                          | 0,25 | 1,00        | 0,13                 | 0,0634     |  |
| <b>S</b> 3                  | 7,00 | 8,00        | 1,00                 | 0,7697     |  |
| $\lambda_{\rm max} = 3,176$ | 59   | CI = 0,0885 | CI                   | R = 0,1525 |  |

Table A.31

## Comparison of scenarios by measure I.4.3

| I.4.3                       |      | Vector of priorities |            |            |
|-----------------------------|------|----------------------|------------|------------|
| Scenario                    | S1   | S2                   | <b>S</b> 3 | Pi         |
| S1                          | 1,00 | 4,00                 | 0,14       | 0,1669     |
| \$2                         | 0,25 | 1,00                 | 0,13       | 0,0634     |
| \$3                         | 7,00 | 8,00                 | 1,00       | 0,7697     |
| $\lambda_{\rm max} = 3,176$ | 59   | CI = 0,0885          | C          | R = 0,1525 |

Table A.32

Comparison of scenarios by measure I.5.1

| I.5.1                           | Scenario |             |            | Vector of priorities |
|---------------------------------|----------|-------------|------------|----------------------|
| Scenario                        | S1       | S2          | <b>S</b> 3 | Pi                   |
| S1                              | 1,00     | 7,00        | 0,25       | 0,2669               |
| S2                              | 0,14     | 1,00        | 0,14       | 0,0605               |
| S3                              | 4,00     | 7,00        | 1,00       | 0,6726               |
| $\lambda_{\text{max}} = 3,2174$ |          | CI = 0,1087 | CH         | R = 0,1874           |

Table A.33

# Comparison of scenarios by measure I.6.1

| I.6.1                       | Scenario |             |      | Vector of priorities |
|-----------------------------|----------|-------------|------|----------------------|
| Scenario                    | S1       | S2          | S3   | Pi                   |
| S1                          | 1,00     | 5,00        | 2,00 | 0,5498               |
| S2                          | 0,20     | 1,00        | 0,17 | 0,0821               |
| \$3                         | 0,50     | 6,00        | 1,00 | 0,3681               |
| $\lambda_{\rm max} = 3,085$ | 58       | CI = 0,0429 | CI   | R = 0,0739           |

Comparison of scenarios by measure I.6.2

| I.6.2                           | Scenario   |             |            | Vector of priorities |
|---------------------------------|------------|-------------|------------|----------------------|
| Scenario                        | <b>S</b> 1 | S2          | <b>S</b> 3 | Pi                   |
| S1                              | 1,00       | 3,00        | 2,00       | 0,5076               |
| S2                              | 0,33       | 1,00        | 0,20       | 0,1133               |
| S3                              | 0,50       | 5,00        | 1,00       | 0,3791               |
| $\lambda_{\text{max}} = 3,1632$ |            | CI = 0,0816 | C          | R = 0,1407           |

Table A.35

## Comparison of scenarios by measure I.6.3

| I.6.3                       | Scenario |             |            | Vector of priorities |
|-----------------------------|----------|-------------|------------|----------------------|
| Scenario                    | S1       | S2          | <b>S</b> 3 | Pi                   |
| S1                          | 1,00     | 5,00        | 0,20       | 0,2185               |
| S2                          | 0,20     | 1,00        | 0,14       | 0,0668               |
| \$3                         | 5,00     | 7,00        | 1,00       | 0,7147               |
| $\lambda_{\rm max} = 3,182$ | 28       | CI = 0,0914 | Cl         | R = 0,1576           |

Table A.36

Comparison of scenarios by measure I.6.4

| I.6.4                                    | Scenario |      |            | Vector of priorities |
|--|----------|------|------------|----------------------|
| Scenario                                 | S1       | S2   | S3         | Pi                   |
| S1                                       | 1,00     | 5,00 | 0,20       | 0,2185               |
| S2                                       | 0,20     | 1,00 | 0,14       | 0,0668               |
| S3                                       | 5,00     | 7,00 | 1,00       | 0,7147               |
| $\lambda_{\rm max} = 3,1828$ CI = 0,0914 |          | CH   | R = 0,1576 |                      |

Table A.37

Comparison of scenarios by measure I.7.1

| I.7.1                       | Scenario   |             |            | Vector of priorities |
|-----------------------------|------------|-------------|------------|----------------------|
| Scenario                    | <b>S</b> 1 | S2          | <b>S</b> 3 | Pi                   |
| S1                          | 1,00       | 5,00        | 3,00       | 0,6092               |
| S2                          | 0,20       | 1,00        | 0,17       | 0,0795               |
| \$3                         | 0,33       | 6,00        | 1,00       | 0,3112               |
| $\lambda_{\rm max} = 3,185$ | 51         | CI = 0,0925 | (          | CR = 0,1596          |

Comparison of scenarios by measure I.7.2

| I.7.2  | Scenario |            |            | Vector of priorities |
|--|----------|------------|------------|----------------------|
| Scenario                                       | S1       | S2         | <b>S</b> 3 | Pi                   |
| S1   | 1,00     | 5,00       | 2,00       | 0,5415               |
| S2   | 0,20     | 1,00       | 0,14       | 0,0768               |
| S3   | 0,50     | 7,00       | 1,00       | 0,3816               |
| $\lambda_{\text{max}} = 3,1190$ CI = 0,0595 CR |          | R = 0,1025 |            |                      |

Table A.39

## Comparison of scenarios by measure I.8.1

| I.8.1                       | Scenario |             |            | Vector of priorities |
|-----------------------------|----------|-------------|------------|----------------------|
| Scenario                    | S1       | S2          | <b>S</b> 3 | Pi                   |
| S1                          | 1,00     | 5,00        | 3,00       | 0,6092               |
| S2                          | 0,20     | 1,00        | 0,17       | 0,0795               |
| S3                          | 0,33     | 6,00        | 1,00       | 0,3112               |
| $\lambda_{\rm max} = 3,185$ | 51       | CI = 0,0925 | C          | CR = 0,1596          |

Table A.40

## Comparison of scenarios by measure I.8.2

| I.8.2                       | Scenario |             |      | Vector of priorities |
|-----------------------------|----------|-------------|------|----------------------|
| Scenario                    | S1       | S2          | S3   | Pi                   |
| S1                          | 1,00     | 5,00        | 0,20 | 0,2185               |
| S2                          | 0,20     | 1,00        | 0,14 | 0,0668               |
| \$3                         | 5,00     | 7,00        | 1,00 | 0,7147               |
| $\lambda_{\rm max} = 3,182$ | 28       | CI = 0,0914 | С    | R = 0,1576           |

Table A.41

# Comparison of scenarios by measure I.9.1

| I.9.1                          | Scenario |             |      | Vector of priorities |
|--------------------------------|----------|-------------|------|----------------------|
| Scenario                       | S1       | S2          | S3   | Pi                   |
| S1                             | 1,00     | 5,00        | 0,20 | 0,2122               |
| S2                             | 0,20     | 1,00        | 0,13 | 0,0621               |
| \$3                            | 5,00     | 8,00        | 1,00 | 0,7257               |
| $\lambda_{\text{max}} = 3,146$ | 60       | CI = 0,0730 | CH   | R = 0,1259           |

Comparison of scenarios by measure I.9.2

| I.9.2  | Scenario |            |      | Vector of priorities |
|--|----------|------------|------|----------------------|
| Scenario   | S1       | S2         | S3   | Pi                   |
| S1   | 1,00     | 5,00       | 0,20 | 0,2185               |
| S2   | 0,20     | 1,00       | 0,14 | 0,0668               |
| S3   | 5,00     | 7,00       | 1,00 | 0,7147               |
| $\lambda_{\text{max}} = 3,1828$ CI = 0,0914 CR = |          | R = 0,1576 |      |                      |

Table A.43

## Comparison of scenarios by measure I.9.3

| I.9.3                       | Scenario |             |            | Vector of priorities |
|-----------------------------|----------|-------------|------------|----------------------|
| Scenario                    | S1       | S2          | <b>S</b> 3 | Pi                   |
| S1                          | 1,00     | 7,00        | 0,20       | 0,2271               |
| S2                          | 0,14     | 1,00        | 0,11       | 0,0510               |
| \$3                         | 5,00     | 9,00        | 1,00       | 0,7219               |
| $\lambda_{\rm max} = 3,208$ | 35       | CI = 0,1042 | С          | R = 0,1797           |

Table A.44

Comparison of scenarios by measure I.9.4

| I.9.4                        | Scenario |             |            | Vector of priorities |  |
|------------------------------|----------|-------------|------------|----------------------|--|
| Scenario                     | S1       | S2          | <b>S</b> 3 | Pi                   |  |
| S1                           | 1,00     | 6,00        | 0,20       | 0,2234               |  |
| S2                           | 0,17     | 1,00        | 0,13       | 0,0578               |  |
| S3                           | 5,00     | 8,00        | 1,00       | 0,7188               |  |
| $\lambda_{\rm max} = 3,1973$ |          | CI = 0,0986 | CH         | R = 0,1701           |  |

Table A.45

Comparison of scenarios by measure I.9.5

| I.9.5                       |      | Scenario    |      | Vector of priorities |
|-----------------------------|------|-------------|------|----------------------|
| Scenario                    | S1   | S2          | S3   | Pi                   |
| S1                          | 1,00 | 6,00        | 0,20 | 0,2234               |
| S2                          | 0,17 | 1,00        | 0,13 | 0,0578               |
| S3                          | 5,00 | 8,00        | 1,00 | 0,7188               |
| $\lambda_{\rm max} = 3,197$ | 73   | CI = 0,0986 | (    | CR = 0,1701          |

Comparison of scenarios by measure I.10.1

| I.10.1                       | Scenario   |             |             | Vector of priorities |
|------------------------------|------------|-------------|-------------|----------------------|
| Scenario                     | <b>S</b> 1 | S2          | <b>S</b> 3  | Pi                   |
| S1                           | 1,00       | 5,00        | 3,00        | 0,6092               |
| S2                           | 0,20       | 1,00        | 0,17        | 0,0795               |
| S3                           | 0,33       | 6,00        | 1,00        | 0,3112               |
| $\lambda_{\rm max} = 3,1851$ |            | CI = 0,0925 | CR = 0,1596 |                      |

Table A.47

## Comparison of scenarios by measure NPB.1.1

| NPB.1.1                        | Scenario |             | Vector of priorities |            |
|--------------------------------|----------|-------------|----------------------|------------|
| Scenario                       | S1       | S2          | S3                   | Pi         |
| S1                             | 1,00     | 6,00        | 0,20                 | 0,2234     |
| S2                             | 0,17     | 1,00        | 0,13                 | 0,0578     |
| \$3                            | 5,00     | 8,00        | 1,00                 | 0,7188     |
| $\lambda_{\text{max}} = 3,197$ | 3        | CI = 0,0986 | CI                   | R = 0,1701 |

Table A.48

## Comparison of scenarios by measure NPB.1.2

| NPB.1.2                     | Scenario   |             | Vector of priorities |             |
|-----------------------------|------------|-------------|----------------------|-------------|
| Scenario                    | <b>S</b> 1 | S2          | <b>S</b> 3           | Pi          |
| S1                          | 1,00       | 5,00        | 0,20                 | 0,2185      |
| S2                          | 0,20       | 1,00        | 0,14                 | 0,0668      |
| \$3                         | 5,00       | 7,00        | 1,00                 | 0,7147      |
| $\lambda_{\rm max} = 3,182$ | 28         | CI = 0,0914 |                      | CR = 0,1576 |

Table A.49

# Comparison of scenarios by measure NPB.1.3

| NPB.1.3                     |            | Scenario    |      | Vector of priorities |
|-----------------------------|------------|-------------|------|----------------------|
| Scenario                    | <b>S</b> 1 | S2          | S3   | Pi                   |
| S1                          | 1,00       | 5,00        | 3,00 | 0,6092               |
| S2                          | 0,20       | 1,00        | 0,17 | 0,0795               |
| \$3                         | 0,33       | 6,00        | 1,00 | 0,3112               |
| $\lambda_{\rm max} = 3,185$ | 51         | CI = 0,0925 | CI   | R = 0,1596           |

| Comparison | പ്        | congrige  | hv  | maggiira | NPR    | 1 /  |
|------------|-----------|-----------|-----|----------|--------|------|
| Comparison | <b>UI</b> | scenarios | D y | measure  | TAL D. | .T.T |

| NPB.1.4                         | Scenario |             |            | Vector of priorities |  |
|---------------------------------|----------|-------------|------------|----------------------|--|
| Scenario                        | S1       | S2          | <b>S</b> 3 | Pi                   |  |
| S1                              | 1,00     | 6,00        | 0,20       | 0,2234               |  |
| S2                              | 0,17     | 1,00        | 0,13       | 0,0578               |  |
| S3                              | 5,00     | 8,00        | 1,00       | 0,7188               |  |
| $\lambda_{\text{max}} = 3,1973$ |          | CI = 0,0986 | C          | R = 0,1701           |  |

Table A.51

## Comparison of scenarios by measure NPB.1.5

| NPB1.5                      |      | Scenario    |      | Vector of priorities |
|-----------------------------|------|-------------|------|----------------------|
| Scenario                    | S1   | S2          | S3   | Pi                   |
| S1                          | 1,00 | 7,00        | 0,20 | 0,2271               |
| S2                          | 0,14 | 1,00        | 0,11 | 0,0510               |
| \$3                         | 5,00 | 9,00        | 1,00 | 0,7219               |
| $\lambda_{\rm max} = 3,208$ | 35   | CI = 0,1042 | C    | R = 0,1797           |

Table A.52

## Comparison of scenarios by measure NPB.1.6

| NPB.1.6                     |      | Vector of priorities |            |            |
|-----------------------------|------|----------------------|------------|------------|
| Scenario                    | S1   | S2                   | <b>S</b> 3 | Pi         |
| S1                          | 1,00 | 5,00                 | 0,20       | 0,2185     |
| S2                          | 0,20 | 1,00                 | 0,14       | 0,0668     |
| <b>S</b> 3                  | 5,00 | 7,00                 | 1,00       | 0,7147     |
| $\lambda_{\rm max} = 3,182$ | 28   | CI = 0,0914          | CH         | R = 0,1576 |

Table A.53

# Comparison of scenarios by measure NPB.1.7

| NPB.1.7                        | Scenario |             | Vector of priorities |            |
|--------------------------------|----------|-------------|----------------------|------------|
| Scenario                       | S1       | S2          | \$3                  | Pi         |
| S1                             | 1,00     | 7,00        | 0,25                 | 0,2596     |
| S2                             | 0,14     | 1,00        | 0,13                 | 0,0563     |
| \$3                            | 4,00     | 8,00        | 1,00                 | 0,6840     |
| $\lambda_{\text{max}} = 3,176$ | 59       | CI = 0,0885 | CI                   | R = 0,1525 |

| Comparison | of | scenarios | by    | measure | NP | <b>B.</b> 1 | 1.8 |
|------------|----|-----------|-------|---------|----|-------------|-----|
|            |    |           | · · · |         |    |             |     |

| NPB.1.8                         | Scenario |             |            | Vector of priorities |
|---------------------------------|----------|-------------|------------|----------------------|
| Scenario                        | S1       | S2          | <b>S</b> 3 | Pi                   |
| S1                              | 1,00     | 5,00        | 0,25       | 0,2437               |
| S2                              | 0,20     | 1,00        | 0,14       | 0,0692               |
| S3                              | 4,00     | 7,00        | 1,00       | 0,6871               |
| $\lambda_{\text{max}} = 3,1237$ |          | CI = 0,0619 | C          | R = 0,1066           |

Table A.55

## Comparison of scenarios by measure H.1.1

| H.1.1                       | Scenario |             |            | Vector of priorities |
|-----------------------------|----------|-------------|------------|----------------------|
| Scenario                    | S1       | S2          | <b>S</b> 3 | Pi                   |
| S1                          | 1,00     | 5,00        | 0,33       | 0,2790               |
| S2                          | 0,20     | 1,00        | 0,14       | 0,0719               |
| \$3                         | 3,00     | 7,00        | 1,00       | 0,6491               |
| $\lambda_{\rm max} = 3,064$ | 19       | CI = 0,0324 | С          | R = 0,0559           |

Table A.56

## Comparison of scenarios by measure H.1.2

| H.1.2                                    | Scenario |      |            | Vector of priorities |
|--|----------|------|------------|----------------------|
| Scenario                                 | S1       | S2   | <b>S</b> 3 | Pi                   |
| S1                                       | 1,00     | 6,00 | 0,17       | 0,1982               |
| S2                                       | 0,17     | 1,00 | 0,11       | 0,0524               |
| S3                                       | 6,00     | 9,00 | 1,00       | 0,7493               |
| $\lambda_{\rm max} = 3,2174$ CI = 0,1087 |          | CI   | R = 0,1874 |                      |

Table A.57

# Comparison of scenarios by measure H.1.3

| H.1.3                       | Scenario |             |      | Vector of priorities |
|-----------------------------|----------|-------------|------|----------------------|
| Scenario                    | S1       | S2          | S3   | Pi                   |
| S1                          | 1,00     | 6,00        | 0,20 | 0,2234               |
| S2                          | 0,17     | 1,00        | 0,13 | 0,0578               |
| S3                          | 5,00     | 8,00        | 1,00 | 0,7188               |
| $\lambda_{\rm max} = 3,197$ | 73       | CI = 0,0986 | CI   | R = 0,1701           |

Comparison of scenarios by measure H.1.4

| H.1.4                           | Scenario |             |            | Vector of priorities |
|---------------------------------|----------|-------------|------------|----------------------|
| Scenario                        | S1       | S2          | <b>S</b> 3 | Pi                   |
| S1                              | 1,00     | 6,00        | 0,20       | 0,2234               |
| S2                              | 0,17     | 1,00        | 0,13       | 0,0578               |
| S3                              | 5,00     | 8,00        | 1,00       | 0,7188               |
| $\lambda_{\text{max}} = 3,1973$ |          | CI = 0,0986 | CI         | R = 0,1701           |

Table A.59

## Comparison of scenarios by measure H.1.5

| H.1.5                       | Scenario |             |            | Vector of priorities |
|-----------------------------|----------|-------------|------------|----------------------|
| Scenario                    | S1       | S2          | <b>S</b> 3 | Pi                   |
| S1                          | 1,00     | 4,00        | 3,00       | 0,5957               |
| S2                          | 0,25     | 1,00        | 0,20       | 0,0959               |
| \$3                         | 0,33     | 5,00        | 1,00       | 0,3085               |
| $\lambda_{\rm max} = 3,197$ | 73       | CI = 0,0986 | CI         | R = 0,1701           |

Table A.60

Comparison of scenarios by measure H.1.6

| H.1.6                           | Scenario |             |            | Vector of priorities |
|---------------------------------|----------|-------------|------------|----------------------|
| Scenario                        | S1       | S2          | <b>S</b> 3 | Pi                   |
| S1                              | 1,00     | 5,00        | 0,25       | 0,2437               |
| S2                              | 0,20     | 1,00        | 0,14       | 0,0692               |
| S3                              | 4,00     | 7,00        | 1,00       | 0,6871               |
| $\lambda_{\text{max}} = 3,1237$ |          | CI = 0,0619 | CH         | R = 0,1066           |

Table A.61

# Comparison of scenarios by measure H.1.7

| H.1.7                       | Scenario |             |      | Vector of priorities |
|-----------------------------|----------|-------------|------|----------------------|
| Scenario                    | S1       | S2          | S3   | Pi                   |
| S1                          | 1,00     | 5,00        | 0,17 | 0,1933               |
| S2                          | 0,20     | 1,00        | 0,13 | 0,0601               |
| \$3                         | 6,00     | 8,00        | 1,00 | 0,7466               |
| $\lambda_{\rm max} = 3,197$ | 73       | CI = 0,0986 | CI   | R = 0,1701           |

Comparison of scenarios by measure H.1.8

| H.1.8                                       | Scenario |      |            | Vector of priorities |
|---|----------|------|------------|----------------------|
| Scenario                                    | S1       | S2   | <b>S</b> 3 | Pi                   |
| S1  | 1,00     | 5,00 | 0,20       | 0,2185               |
| S2  | 0,20     | 1,00 | 0,14       | 0,0668               |
| S3  | 5,00     | 7,00 | 1,00       | 0,7147               |
| $\lambda_{\text{max}} = 3,1828$ CI = 0,0914 |          | CI   | R = 0,1576 |                      |

Table A.63

## Comparison of scenarios by measure H.1.9

| H.1.9                       | Scenario |             |            | Vector of priorities |
|-----------------------------|----------|-------------|------------|----------------------|
| Scenario                    | S1       | S2          | <b>S</b> 3 | Pi                   |
| S1                          | 1,00     | 5,00        | 0,25       | 0,2515               |
| S2                          | 0,20     | 1,00        | 0,17       | 0,0751               |
| \$3                         | 4,00     | 6,00        | 1,00       | 0,6734               |
| $\lambda_{\rm max} = 3,163$ | 32       | CI = 0,0816 | C          | CR = 0,1407          |

Table A.64

Comparison of scenarios by measure H.1.10

| H.1.10                       | Scenario |             |      | Vector of priorities |
|------------------------------|----------|-------------|------|----------------------|
| Scenario                     | S1       | S2          | S3   | Pi                   |
| S1                           | 1,00     | 6,00        | 0,20 | 0,2234               |
| S2                           | 0,17     | 1,00        | 0,13 | 0,0578               |
| S3                           | 5,00     | 8,00        | 1,00 | 0,7188               |
| $\lambda_{\rm max} = 3,1973$ |          | CI = 0,0986 | CI   | R = 0,1701           |

Table A.65

Comparison of scenarios by measure H.1.11

| H.1.11                      | Scenario |             |            | Vector of priorities |
|-----------------------------|----------|-------------|------------|----------------------|
| Scenario                    | S1       | S2          | <b>S</b> 3 | Pi                   |
| S1                          | 1,00     | 6,00        | 0,20       | 0,2234               |
| S2                          | 0,17     | 1,00        | 0,13       | 0,0578               |
| \$3                         | 5,00     | 8,00        | 1,00       | 0,7188               |
| $\lambda_{\rm max} = 3,197$ | 73       | CI = 0,0986 | С          | R = 0,1701           |

Comparison of scenarios by measure H.2.1

| H.2.1                          |      | Vector of priorities |            |            |
|--------------------------------|------|----------------------|------------|------------|
| Scenario                       | S1   | S2                   | <b>S</b> 3 | Pi         |
| S1                             | 1,00 | 6,00                 | 0,20       | 0,2234     |
| S2                             | 0,17 | 1,00                 | 0,13       | 0,0578     |
| S3                             | 5,00 | 8,00                 | 1,00       | 0,7188     |
| $\lambda_{\text{max}} = 3,197$ | 73   | CI = 0,0986          | CI         | R = 0,1701 |

Table A.67

## Comparison of scenarios by measure H.2.2

| H.2.2                       |      | Vector of priorities |            |             |
|-----------------------------|------|----------------------|------------|-------------|
| Scenario                    | S1   | S2                   | <b>S</b> 3 | Pi          |
| S1                          | 1,00 | 5,00                 | 2,00       | 0,5415      |
| S2                          | 0,20 | 1,00                 | 0,14       | 0,0768      |
| \$3                         | 0,50 | 7,00                 | 1,00       | 0,3816      |
| $\lambda_{\rm max} = 3,119$ | 90   | CI = 0,0595          | C          | CR = 0,1025 |

Table A.68

Comparison of scenarios by measure H.2.3

| Н.2.3                       |      | Vector of priorities |      |            |
|-----------------------------|------|----------------------|------|------------|
| Scenario                    | S1   | S2                   | S3   | Pi         |
| S1                          | 1,00 | 6,00                 | 0,20 | 0,2234     |
| S2                          | 0,17 | 1,00                 | 0,13 | 0,0578     |
| S3                          | 5,00 | 8,00                 | 1,00 | 0,7188     |
| $\lambda_{\rm max} = 3,197$ | 73   | CI = 0,0986          | CI   | R = 0,1701 |

Table A.69

# Comparison of scenarios by measure H.2.4

| H.2.4                       |      | Vector of priorities |            |            |
|-----------------------------|------|----------------------|------------|------------|
| Scenario                    | S1   | S2                   | <b>S</b> 3 | Pi         |
| S1                          | 1,00 | 6,00                 | 0,20       | 0,2234     |
| S2                          | 0,17 | 1,00                 | 0,13       | 0,0578     |
| \$3                         | 5,00 | 8,00                 | 1,00       | 0,7188     |
| $\lambda_{\rm max} = 3,197$ | 73   | CI = 0,0986          | CI         | R = 0,1701 |

| -                            |      | -                    |            |             |
|------------------------------|------|----------------------|------------|-------------|
| OA.1.1                       |      | Vector of priorities |            |             |
| Scenario                     | S1   | S2                   | <b>S</b> 3 | Pi          |
| S1                           | 1,00 | 6,00                 | 0,20       | 0,2234      |
| S2                           | 0,17 | 1,00                 | 0,13       | 0,0578      |
| S3                           | 5,00 | 8,00                 | 1,00       | 0,7188      |
| $\lambda_{\rm max} = 3,1972$ | 3    | CI = 0,0986          |            | CR = 0,1701 |

### Comparison of scenarios by measure OA.1.1

Table A.71

## Comparison of scenarios by measure OA.1.2

| OA.1.2                      |      | Vector of priorities |            |            |
|-----------------------------|------|----------------------|------------|------------|
| Scenario                    | S1   | S2                   | <b>S</b> 3 | Pi         |
| S1                          | 1,00 | 5,00                 | 0,33       | 0,2872     |
| S2                          | 0,20 | 1,00                 | 0,17       | 0,0780     |
| \$3                         | 3,00 | 6,00                 | 1,00       | 0,6348     |
| $\lambda_{\rm max} = 3,094$ | 40   | CI = 0,0470          | CI         | R = 0,0810 |

Table A.72

### Comparison of scenarios by measure OA.1.3

| OA.1.3                      |      | Vector of priorities         |      |            |
|-----------------------------|------|------------------------------|------|------------|
| Scenario                    | S1   | S2                           | S3   | Pi         |
| S1                          | 1,00 | 4,00                         | 3,00 | 0,5957     |
| \$2                         | 0,25 | 1,00                         | 0,20 | 0,0959     |
| \$3                         | 0,33 | 5,00                         | 1,00 | 0,3085     |
| $\lambda_{\rm max} = 3,197$ | 73   | $CI = 0.0986$ $CR = 0.1^{2}$ |      | R = 0,1701 |

Table A.73

## Comparison of scenarios by measure OA.2.1

| OA.2.1                      |      | Vector of priorities |      |            |
|-----------------------------|------|----------------------|------|------------|
| Scenario                    | S1   | S2                   | S3   | Pi         |
| S1                          | 1,00 | 4,00                 | 3,00 | 0,5957     |
| S2                          | 0,25 | 1,00                 | 0,20 | 0,0959     |
| S3                          | 0,33 | 5,00                 | 1,00 | 0,3085     |
| $\lambda_{\rm max} = 3,197$ | 73   | CI = 0,0986          | CI   | R = 0,1701 |

| OA.11.1                        |            | Vector of priorities |            |             |
|--------------------------------|------------|----------------------|------------|-------------|
| Scenario                       | <b>S</b> 1 | S2                   | <b>S</b> 3 | Pi          |
| S1                             | 1,00       | 0,20                 | 7,00       | 0,2271      |
| S2                             | 5,00       | 1,00                 | 9,00       | 0,0510      |
| S3                             | 0,14       | 0,11                 | 1,00       | 0,7219      |
| $\lambda_{\text{max}} = 3,208$ | 35         | CI = 0,1042          | (          | CR = 0,1797 |

## Comparison of scenarios by measure OA.11.1

Table A.75

# Comparison of scenarios by measure R.3.1

| R.3.1                       |      | Vector of priorities |      |            |
|-----------------------------|------|----------------------|------|------------|
| Scenario                    | S1   | S2                   | S3   | Pi         |
| S1                          | 1,00 | 7,00                 | 0,20 | 0,2271     |
| S2                          | 0,14 | 1,00                 | 0,11 | 0,0510     |
| \$3                         | 5,00 | 9,00                 | 1,00 | 0,7219     |
| $\lambda_{\rm max} = 3,208$ | 35   | CI = 0,1042          | C    | R = 0,1797 |

Table A.76

Comparison of scenarios by measure R.3.2

| R.3.2                        |      | Vector of priorities |            |            |
|------------------------------|------|----------------------|------------|------------|
| Scenario                     | S1   | S2                   | <b>S</b> 3 | Pi         |
| S1                           | 1,00 | 6,00                 | 0,25       | 0,2491     |
| S2                           | 0,17 | 1,00                 | 0,13       | 0,0599     |
| \$3                          | 4,00 | 8,00                 | 1,00       | 0,6910     |
| $\lambda_{\rm max} = 3,1356$ |      | CI = 0,0678          | CI         | R = 0,1169 |

| 11. Wanter A. I. I | 17 | I.9.2 | 2 0,2185 | 1 0,0668 | 7 0,7147 | tab. A.77 | 34 | 4 H.1.5  | 34 0,5957 | 78 0,0959 | 38 0,3085 | tab. A.77 | 51 | 1 R.3.2  |
|--------------------|----|-------|----------|----------|----------|-----------|----|----------|-----------|-----------|-----------|-----------|----|----------|
|                    | 16 | I.9.1 | 0,212    | 0,062    | 0,725    | inued     | 33 | H.1.     | 4 0,223   | 8 0,057   | 8 0,718   | <br>inued | 50 | R.3.     |
| eters              | 15 | I.8.2 | 0,2185   | 0,0668   | 0,7147   | Cont      | 32 | H.1.3    | 0,223     | 0,057     | 0,718     | Cont      | 49 | 0A.11.1  |
| han and            | 14 | I.8.1 | 0,6092   | 0,0795   | 0,3112   |           | 31 | H.1.2    | 0,1982    | 0,0524    | 0,7493    |           | 48 | DA.2.1   |
|                    | 13 | I.7.2 | 0,5415   | 0,0768   | 0,3816   |           | 30 | 8 H.1.1  | 0,2790    | 0,0715    | 0,6491    |           | 47 | DA.1.3 0 |
|                    | 12 | I.7.1 | 0,6092   | 0,0795   | 0,3112   |           | 29 | NPB.1.3  | 0,2437    | 0,0692    | 0,6871    |           | 46 | 0A.1.2 0 |
| asures             | 11 | I.6.4 | 0,2185   | 0,0668   | 0,7147   |           | 28 | NPB.1.7  | 0,2596    | 0,0563    | 0,6840    |           | 45 | DA.1.1 0 |
| licy me            | 10 | I.6.3 | 0,2185   | 0,0668   | 0,7147   |           | 27 | NPB.1.6  | 0,2185    | 0,0668    | 0,7147    |           | 4  | H.2.4 0  |
| the po             | 6  | I.6.2 | 0,5076   | 0,1133   | 0,3791   |           | 26 | NPB.1.5  | 0,2271    | 0,0510    | 0,7219    |           | 43 | H.2.3    |
| ative to           | 8  | I.6.1 | 0,5498   | 0,0821   | 0,3681   |           | 25 | NPB.1.4  | 0,2234    | 0,0578    | 0,7188    |           | 42 | H.2.2    |
| tors rel           | 7  | I.5.1 | 0,2669   | 0,0605   | 0,6726   |           | 24 | VPB.1.3  | 0,6092    | 0,0795    | 0,3112    |           | 41 | H.2.1    |
| ios vec            | 9  | I.4.3 | 0,1669   | 0,0634   | 0,7697   |           | 23 | VPB.1.2  | 0,2185    | 0,0668    | 0,7147    |           | 40 | H.1.11   |
| scenar             | 5  | I.4.2 | 0,1669   | 0,0634   | 0,7697   |           | 22 | PB.1.1   | ,2234     | ,0578     | ,7188     |           | 39 | H.1.10   |
| oriority           | 4  | I.4.1 | 0,2258   | 0,0727   | 0,7016   |           | 21 | [.10.1 N | ,6092 (   | ,0795 (   | ,3112 (   |           | 38 | H.1.9    |
| of the J           | ю  | I.3.1 | 0,2606   | 0,0827   | 0,6567   |           | 20 | I.9.5    | 0,2234 0  | 0,0578 0  | 0,7188 0  |           | 37 | H.1.8    |
| Matrix             | 2  | I.2.1 | 0,2969   | 0,0856   | 0,6175   |           | 19 | I.9.4    | 0,2234 (  | 0,0578 0  | 0,7188    |           | 36 | H.1.7    |
| The <b>N</b>       | 1  | I.1.1 | 0,5472   | 0,2631   | 0,1897   |           | 18 | I.9.3    | 0,2271    | 0,0510    | 0,7219    |           | 35 | H.1.6    |
|                    |    |       | C1       | C2       | C        |           |    |          | C1        | C2        | C         |           |    |          |

C3 0,6871 0,7466 0,7147 0,6734 0,7188 0,7188 0,7188 0,3816 0,7188 0,3816 0,7188 0,7188 0,7188 0,6348 0,3085 0,3085 0,71219 0,6910 C2 0,0692 0,0601 0,0668 0,0751 0,0578 0,0578 0,0578 0,0578 0,0578 0,0578 0,0578 0,0578 0,0578 0,0579 0,0959 0,0959 0,0510 0,0510 0,0599 CI 0,2437 0,1933 0,2185 0,2515 0,2234 0,2234 0,2415 0,2234 0,2415 0,2234

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|-------------|------|------|------|------|------|-------|------|------|------|-------|------|-------|------|------|------|------|-------|-------|------|------|----------|
| C.20        | 5,00 | 5,00 | 6,00 | 0,20 | 0,20 | 5,00  | 0,33 | 6,00 | 0,20 | 0,20  | 5,00 | 0,20  | 5,00 | 5,00 | 5,00 | 5,00 | 5,00  | 5,00  | 7,00 | 1,00 |          |
| C.19        | 5,00 | 5,00 | 5,00 | 0,20 | 0,17 | 0,20  | 0,20 | 3,00 | 0,14 | 0,20  | 4,00 | 0,14  | 3,00 | 0,25 | 0,25 | 0,20 | 0,20  | 0,20  | 1,00 | 0,14 | 86       |
| C.18        | 7,00 | 7,00 | 7,00 | 0,20 | 0,20 | 3,00  | 5,00 | 6,00 | 0,20 | 0,33  | 7,00 | 0,20  | 5,00 | 5,00 | 5,00 | 4,00 | 5,00  | 1,00  | 5,00 | 0,20 | R = 0,1  |
| C.17        | 7,00 | 6,00 | 7,00 | 0,33 | 0,20 | 3,00  | 5,00 | 6,00 | 0,17 | 0,33  | 7,00 | 0,20  | 5,00 | 5,00 | 5,00 | 3,00 | 1,00  | 0,20  | 5,00 | 0,20 | Ū        |
| C.16        | 5,00 | 4,00 | 6,00 | 0,20 | 0,20 | 3,00  | 5,00 | 6,00 | 0,17 | 0,33  | 7,00 | 0,20  | 5,00 | 5,00 | 5,00 | 1,00 | 0,33  | 0,25  | 5,00 | 0,20 |          |
| C.15        | 4,00 | 3,00 | 3,00 | 0,14 | 0,17 | 0,17  | 0,20 | 3,00 | 0,14 | 0,14  | 5,00 | 0,14  | 4,00 | 3,00 | 1,00 | 0,20 | 0,20  | 0,20  | 4,00 | 0,20 |          |
| C.14        | 5,00 | 5,00 | 5,00 | 0,17 | 0,20 | 0,20  | 0,25 | 6,00 | 0,20 | 0,20  | 5,00 | 0,20  | 4,00 | 1,00 | 0,33 | 0,20 | 0,20  | 0,20  | 4,00 | 0,20 |          |
| C.13        | 5,00 | 4,00 | 6,00 | 0,25 | 0,20 | 0,20  | 0,25 | 5,00 | 0,17 | 0,20  | 5,00 | 0,20  | 1,00 | 0,25 | 0,25 | 0,20 | 0,20  | 0,20  | 0,33 | 0,20 |          |
| C.12        | 9,00 | 8,00 | 7,00 | 4,00 | 5,00 | 6,00  | 8,00 | 7,00 | 0,25 | 4,00  | 7,00 | 1,00  | 5,00 | 5,00 | 7,00 | 5,00 | 5,00  | 5,00  | 7,00 | 5,00 | 25       |
| C.11        | 3,00 | 3,00 | 4,00 | 0,20 | 0,20 | 0,20  | 0,20 | 0,33 | 0,14 | 0,17  | 1,00 | 0,14  | 0,20 | 0,20 | 0,20 | 0,14 | 0,14  | 0,14  | 0,25 | 0,20 | I = 0, 3 |
| C.10        | 7,00 | 7,00 | 7,00 | 4,00 | 0,33 | 7,00  | 7,00 | 7,00 | 0,25 | 1,00  | 6,00 | 0,25  | 5,00 | 5,00 | 7,00 | 3,00 | 3,00  | 3,00  | 5,00 | 5,00 | 0        |
| C.9         | 9,00 | 8,00 | 8,00 | 4,00 | 4,00 | 8,00  | 8,00 | 9,00 | 1,00 | 4,00  | 7,00 | 4,00  | 6,00 | 5,00 | 7,00 | 6,00 | 6,00  | 5,00  | 7,00 | 5,00 |          |
| C.8         | 3,00 | 3,00 | 2,00 | 0,20 | 0,14 | 0,20  | 0,14 | 1,00 | 0,11 | 0,14  | 3,00 | 0,14  | 0,20 | 0,17 | 0,33 | 0,17 | 0,17  | 0,17  | 0,33 | 0,17 |          |
| C.7         | 6,00 | 5,00 | 6,00 | 0,17 | 0,20 | 0,33  | 1,00 | 7,00 | 0,13 | 0,14  | 5,00 | 0,13  | 4,00 | 4,00 | 5,00 | 0,20 | 0,20  | 0,20  | 5,00 | 3,00 |          |
| C.6         | 7,00 | 6,00 | 7,00 | 0,17 | 0,20 | 1,00  | 3,00 | 5,00 | 0,13 | 0, 14 | 5,00 | 0,17  | 5,00 | 5,00 | 6,00 | 0,33 | 0,33  | 0,33  | 5,00 | 0,20 |          |
| C.5         | 4,00 | 5,00 | 4,00 | 0,33 | 1,00 | 5,00  | 5,00 | 7,00 | 0,25 | 3,00  | 5,00 | 0,20  | 5,00 | 5,00 | 6,00 | 5,00 | 5,00  | 5,00  | 6,00 | 5,00 |          |
| C.4         | 5,00 | 3,00 | 5,00 | 1,00 | 3,00 | 6,00  | 6,00 | 5,00 | 0,25 | 0,25  | 5,00 | 0,25  | 4,00 | 6,00 | 7,00 | 5,00 | 3,00  | 5,00  | 5,00 | 5,00 | 26,168   |
| C.3         | 3,00 | 3,00 | 1,00 | 0,20 | 0,25 | 0, 14 | 0,17 | 0,50 | 0,13 | 0, 14 | 0,25 | 0, 14 | 0,17 | 0,20 | 0,33 | 0,17 | 0, 14 | 0, 14 | 0,20 | 0,17 | max = 2  |
| C.2         | 3,00 | 1,00 | 0,33 | 0,33 | 0,20 | 0,17  | 0,20 | 0,33 | 0,13 | 0, 14 | 0,33 | 0,13  | 0,25 | 0,20 | 0,33 | 0,25 | 0,17  | 0, 14 | 0,20 | 0,20 | R        |
| C.1         | 1,00 | 0,33 | 0,33 | 0,20 | 0,25 | 0, 14 | 0,17 | 0,33 | 0,11 | 0, 14 | 0,33 | 0,11  | 0,20 | 0,20 | 0,25 | 0,20 | 0,14  | 0,14  | 0,20 | 0,20 |          |
|             | C.1  | C.2  | C.3  | C.4  | C.5  | C.6   | C.7  | C.8  | C.9  | C.10  | C.11 | C.12  | C.13 | C.14 | C.15 | C.16 | C.17  | C.18  | C.19 | C.20 |          |
|             |      |      |      |      |      |       |      |      |      |       |      |       |      |      |      |      |       |       |      |      |          |

|           | P.     | 0,0221 | 0,0217 | 0,0237 | 0,0295 | 0,0404 | 0,0099 | 0,0201 | 0,0920 | 0,2771 | 0,2491 | 0,0414 | 0,0789 | 0,0939 |                    |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|
|           | P.13   | 0,17   | 0,17   | 0,17   | 0,17   | 0,17   | 0,17   | 0,17   | 0,33   | 5,00   | 5,00   | 2,00   | 2,00   | 1,00   | 6                  |
|           | P.12   | 0,20   | 0,20   | 0,20   | 0,20   | 0,14   | 0,20   | 0,20   | 5,00   | 5,00   | 5,00   | 2,00   | 1,00   | 0,50   | R = 0,13           |
|           | P.11   | 1,00   | 1,00   | 1,00   | 2,00   | 2,00   | 0,20   | 0,20   | 5,00   | 5,00   | 5,00   | 1,00   | 0,50   | 0,50   | 0                  |
|           | P.10   | 0,11   | 0,11   | 0,11   | 0,11   | 0,11   | 0,11   | 0,11   | 0,11   | 2,00   | 1,00   | 0,20   | 0,20   | 0,20   |                    |
|           | P.9    | 0,11   | 0,11   | 0,11   | 0,11   | 0,11   | 0,11   | 0,11   | 0,11   | 1,00   | 0,50   | 0,20   | 0,20   | 0,20   |                    |
|           | P.8    | 0,25   | 0,20   | 0,20   | 0,20   | 0,20   | 0,20   | 0,20   | 1,00   | 9,00   | 9,00   | 0,20   | 0,20   | 3,00   |                    |
|           | P.7    | 1,00   | 1,00   | 1,00   | 1,00   | 3,00   | 0,33   | 1,00   | 5,00   | 9,00   | 9,00   | 5,00   | 5,00   | 6,00   | I = 0,217          |
|           | P.6    | 5,00   | 5,00   | 5,00   | 5,00   | 5,00   | 1,00   | 3,00   | 5,00   | 9,00   | 9,00   | 5,00   | 5,00   | 6,00   | 0                  |
|           | P.5    | 0,33   | 0,33   | 0,33   | 0,33   | 1,00   | 0,20   | 0,33   | 5,00   | 9,00   | 9,00   | 0,50   | 7,00   | 6,00   |                    |
|           | P.4    | 0,33   | 0,33   | 1,00   | 1,00   | 3,00   | 0,20   | 1,00   | 5,00   | 9,00   | 9,00   | 0,50   | 5,00   | 6,00   |                    |
|           | P.3    | 1,00   | 1,00   | 1,00   | 1,00   | 3,00   | 0,20   | 1,00   | 5,00   | 9,00   | 9,00   | 1,00   | 5,00   | 6,00   | 4                  |
|           | P.2    | 1,00   | 1,00   | 1,00   | 3,00   | 3,00   | 0,20   | 1,00   | 5,00   | 9,00   | 9,00   | 1,00   | 5,00   | 6,00   | x = 15,607         |
|           | P.1    | 1,00   | 1,00   | 1,00   | 3,00   | 3,00   | 0,20   | 1,00   | 4,00   | 9,00   | 9,00   | 1,00   | 5,00   | 6,00   | ${\cal X}_{ m ma}$ |
| Desirable | future | P.1    | P.2    | P.3    | P.4    | P.5    | P.6    | P.7    | P.8    | P.9    | P.10   | P.11   | P.12   | P.13   |                    |

Calculation of priorities of problems regarding the level of effective functioning of consumer cooperation

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|---|-----|---|
| 2 |     | 1 |
| 0 | - 1 | ٦ |
| ~ | -   |   |

Table A.79

Priority (importance) of actors relative to the problem of P.8

|                         |      |         |      | Vector of priorities |
|-------------------------|------|---------|------|----------------------|
| P.8                     | Ι    | NPB     | SR   | Pi                   |
| Ι                       | 1    | 3       | 2    | 0,547216             |
| NPB                     | 0,3  | 1       | 2    | 0,263074             |
| SR                      | 0,5  | 0,5     | 1    | 0,189709             |
| $\lambda_{max} = 3,136$ | 5 CI | = 0,068 | CR = | 0,117                |

Table A.81

Priority (importance) of actors relative to the problem of P.9

| P.9                     | Ι    | Н       | SR   | Vector of priorities<br>Pi |
|-------------------------|------|---------|------|----------------------------|
| Ι                       | 1    | 3       | 3    | 0,584156                   |
| Н                       | 0,3  | 1       | 3    | 0,280833                   |
| SR                      | 0,3  | 0,3     | 1    | 0,13501                    |
| $\lambda_{max} = 3,136$ | 5 CI | = 0,068 | CR = | 0,117                      |

Table A.82

Priority (importance) of actors relative to the problem of P.10

|                       |        |    | Vector of priorities |
|-----------------------|--------|----|----------------------|
| P.10                  | NPB    | SR | Pi                   |
| NPB                   | 1      | 2  | 0,666667             |
| SR                    | 0,5    | 1  | 0,333333             |
| $\lambda_{max} = 2,0$ | CI = 0 | CR | = 0                  |

Table A.83

### Priority (importance) of actors relative to the problem of P.12

|                       |        |    | Vector of priorities |
|-----------------------|--------|----|----------------------|
| P.12                  | NPB    | SR | Pi                   |
| NPB                   | 1      | 2  | 0,666667             |
| SR                    | 0,5    | 1  | 0,333333             |
| $\lambda_{max} = 2,0$ | CI = 0 | CR | = 0                  |

Priority (importance) of actors relative to the problem of P.13

|                       |        |     | Vector of priorities |
|-----------------------|--------|-----|----------------------|
| P.13                  | NPB    | SR  | Pi                   |
| NPB                   | 1      | 0,3 | 0,25                 |
| SR                    | 3      | 1   | 0,75                 |
| $\lambda_{max} = 2.0$ | CI = 0 | CR  | = 0                  |

Table A.85

# Priority (importance) of actors relative to the opportunities of O.1

|                       |        |    | Vector of priorities |
|-----------------------|--------|----|----------------------|
| M.1                   | OA     | SR | Pi                   |
| OA                    | 1      | 2  | 0,666667             |
| SR                    | 0,5    | 1  | 0,333333             |
| $\lambda_{max} = 2,0$ | CI = 0 | CR | = 0                  |

Table A.86

# Priority (importance) of actors relative to the opportunities of O.2

|                       |        |     | Vector of priorities |
|-----------------------|--------|-----|----------------------|
| O.2                   | Ι      | SR  | Pi                   |
| Ι                     | 1      | 0,3 | 0,25                 |
| SR                    | 3      | 1   | 0,75                 |
| $\lambda_{max} = 2,0$ | CI = 0 | CR  | = 0                  |

Table A.87

# Priority (importance) of actors relative to the opportunities of O.3

|                       |        |    | Vector of priorities |
|-----------------------|--------|----|----------------------|
| 0.3                   | Ι      | SR | Pi                   |
| Ι                     | 1      | 3  | 0,75                 |
| SR                    | 0,3    | 1  | 0,25                 |
| $\lambda_{max} = 2,0$ | CI = 0 | CR | = 0                  |

Table A.88

### Priority (importance) of actors relative to the opportunities of O.6

| O.6                 | NPB       | Vector of priorities<br>P <sub>i</sub> |
|---------------------|-----------|--|
| NPB                 | 1         | 1,00                                   |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                                    |

Priority (importance) of actors relative to the opportunities of O.7

| 0.7                 | NPB       | Vector of priorities<br>Pi |
|---------------------|-----------|----------------------------|
| NPB                 | 1         | 1,00                       |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                        |

Table A.90

### Priority (importance) of actors relative to the opportunities of O.8

| O.8                 | NPB       | Vector of priorities<br>Pi |
|---------------------|-----------|----------------------------|
| NPB                 | 1         | 1,00                       |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                        |

Table A.91

# Priority (importance) of actors relative to the opportunities of O.11

| 0.11                | Р         | Vector of priorities<br>Pi |
|---------------------|-----------|----------------------------|
| Р                   | 1         | 1,00                       |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                        |

Table A.92

# Priority (importance) of actors relative to the opportunities of O.13

| O.13                | р         | Vector of priorities<br>Pi |
|---------------------|-----------|----------------------------|
| Р                   | 1         | 1,00                       |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                        |

Table A.93

# Priority (importance) of actors relative to the opportunities of O.14

| O.14                | Н         | Vector of priorities<br>Pi |
|---------------------|-----------|----------------------------|
| Н                   | 1         | 1,00                       |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                        |

### Priority (importance) of actors relative to the opportunities of O.15

|                       |        |    | Vector of priorities |
|-----------------------|--------|----|----------------------|
| 0.15                  | Н      | SR | Pi                   |
| Н                     | 1      | 1  | 0,5                  |
| SR                    | 1      | 1  | 0,5                  |
| $\lambda_{max} = 2,0$ | CI = 0 | CR | = 0                  |

Table A.95

### Priority (importance) of actors relative to the opportunities of O.16

| O.16                | Н         | Vector of priorities<br>Pi |
|---------------------|-----------|----------------------------|
| Н                   | 1         | 1,00                       |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                        |

Table A.96

### Priority (importance) of actors relative to the opportunities of O.14

| O.14                | NPB       | Vector of priorities<br>P <sub>i</sub> |
|---------------------|-----------|--|
| NPB                 | 1         | 1,00                                   |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                                    |

Table A.97

### Priority (importance) of actors relative to the opportunities of O.18

| O.18                | NPB       | Vector of priorities<br>Pi |
|---------------------|-----------|----------------------------|
| NPB                 | 1         | 1,00                       |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                        |

Table A.98

### Priority (importance) of actors relative to the opportunities of O.19

| O.19                | Н         | Vector of priorities<br>Pi |
|---------------------|-----------|----------------------------|
| Н                   | 1         | 1,00                       |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                        |

Priority (importance) of actors relative to the opportunities of O.20

|                       |        |    | Vector of priorities |
|-----------------------|--------|----|----------------------|
| O.20                  | Н      | SR | Pi                   |
| Н                     | 1      | 1  | 0,5                  |
| SR                    | 1      | 1  | 0,5                  |
| $\lambda_{max} = 2,0$ | CI = 0 | CR | = 0                  |

Table A.100

# Priority (importance) of measures relative to Policies OA.3

|                       |        |        | Vector of priorities |
|-----------------------|--------|--------|----------------------|
| OA.3                  | OA.3.1 | OA.3.2 | Pi                   |
| OA.3.1                | 1      | 5      | 83,33%               |
| OA.3.2                | 0,2    | 1      | 16,67%               |
| $\lambda_{max} = 2.0$ | CI = 0 | CR     | = 0                  |

Table A.101

Priority (importance) of measures relative to Policies OA.7

| 0A 7                  | OA 7 1  | OA 7 2 | Vector of priorities<br>P: |
|-----------------------|---------|--------|----------------------------|
| 011.7                 | 011.7.1 | -      | 11                         |
| OA.7.1                | 1       | 5      | 83,33%                     |
| OA.7.2                | 0,2     | 1      | 16,67%                     |
| $\lambda_{max} = 2.0$ | CI = 0  | CR     | = 0                        |

Table A. 102

### Priority (importance) of measures relative to Policies OA.8

| OA.8                | OA.8.1    | Vector of priorities<br>Pi |
|---------------------|-----------|----------------------------|
| OA.8.1              | 1         | 1,00 %                     |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                        |

Table A.103

Priority (importance) of measures relative to Policies OA.10

| OA.10               | OA.10.1   | Vector of priorities<br>Pi |
|---------------------|-----------|----------------------------|
| OA.10.1             | 1         | 1,00 %                     |
| $\lambda_{max} = 0$ | CI = 0 CR | = 0                        |

Priority (importance) of measures relative to Policies R.2

|                         |       |         |       | Vector of priorities |
|-------------------------|-------|---------|-------|----------------------|
| R.2                     | R.2.1 | R.2.2   | R.2.3 | Pi                   |
| R.2.1                   | 1     | 5       | 6     | 70,16%               |
| R.2.2                   | 0,2   | 1       | 5     | 22,58%               |
| R.2.3                   | 0,17  | 0,2     | 1     | 07,27%               |
| $\lambda_{max} = 3,231$ | CI    | = 0,115 | CR =  | 0,199                |

Table A.105

Priority (importance) of measures relative to Policies SR.1

| CD 1              | CD 1 1 | CD 1 2 | OD 1.2 | CD 1 4   | Vector of                 |  |  |  |
|-------------------|--------|--------|--------|----------|---------------------------|--|--|--|
| SR.1              | SR.1.1 | SR.1.2 | SR.1.3 | SR.1.4   | priorities P <sub>i</sub> |  |  |  |
| SR.1.1            | 1      | 3      | 0,2    | 0,2      | 11,51%                    |  |  |  |
| SR.1.2            | 0,3    | 1      | 0,3    | 0,3      | 8,58%                     |  |  |  |
| SR.1.3            | 5      | 3      | 1      | 3        | 50,66%                    |  |  |  |
| SR.1.4            | 5      | 3      | 0,3    | 1 29,25% |                           |  |  |  |
| $\lambda_{max} =$ | 4,494  | CI = ( | ),165  | CR =     | 0,183                     |  |  |  |

Table A.106

Priority (importance) of measures relative to Policies SR.2

| SR.2              | SR.2.1 | SR.2.2 | SR.2.3 | SR.2.4     | SR.2.5 | Vector of<br>priorities P <sub>i</sub> |  |  |  |
|-------------------|--------|--------|--------|------------|--------|--|--|--|--|
| SR.2.1            | 1      | 3      | 3      | 3          | 3      | 38,96%                                 |  |  |  |
| SR.2.2            | 0,3    | 1      | 0,3    | 0,25       | 0,3    | 6,34%                                  |  |  |  |
| SR.2.3            | 0,3    | 3      | 1      | 5          | 4      | 29,45%                                 |  |  |  |
| SR.2.4            | 0,3    | 4      | 0,2    | 1          | 0,3    | 9,97%                                  |  |  |  |
| SR.2.5            | 0,3    | 3      | 0,25   | 3 1 15,27  |        |  |  |  |  |
| $\lambda_{max} =$ | 5,766  | CI = ( | ),192  | CR = 0,171 |        |  |  |  |  |

| SR.3   | SR.3.1            | SR.3.2 | SR.3.3 | SR.3.4 | SR.3.5  | SR.3.6 | SR.3.7 | SR.3.8     | Vector of<br>priorities Pi |  |  |  |
|--------|-------------------|--------|--------|--------|---------|--------|--------|------------|----------------------------|--|--|--|
| SR.3.1 | 1                 | 3      | 3      | 3      | 3       | 4      | 3      | 3          | 27,51%                     |  |  |  |
| SR.3.2 | 0,3               | 1      | 1      | 0,5    | 0,5     | 2      | 0,5    | 0,5        | 6,82%                      |  |  |  |
| SR.3.3 | 0,3               | 1      | 1      | 1      | 0,3     | 0,3    | 0,3    | 0,3        | 5,11%                      |  |  |  |
| SR.3.4 | 0,3               | 2      | 1      | 1      | 0,25    | 0,2    | 0,2    | 0,2        | 4,44%                      |  |  |  |
| SR.3.5 | 0,3               | 2      | 3      | 4      | 1       | 2      | 0,25   | 0,25       | 10,15%                     |  |  |  |
| SR.3.6 | 0,25              | 0,5    | 3      | 5      | 0,5     | 1      | 0,25   | 0,25       | 7,12%                      |  |  |  |
| SR.3.7 | 0,3               | 2      | 3      | 5      | 4       | 4      | 1      | 4          | 22,76%                     |  |  |  |
| SR.3.8 | 0,3               | 2      | 3      | 5      | 4       | 4      | 0,25   | 1          | 16,09%                     |  |  |  |
|        | $\lambda_{max} =$ | 9,303  |        |        | CI = 0, | 186    |        | CR = 0,132 |                            |  |  |  |

Priority (importance) of measures relative to Policies SR.8

| SR.3   | 22 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
|--------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|---------|---------|---------|---------|-------|-------|-------|
| SR.2   | 21 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
| SR.1   | 20 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
| R.3    | 19 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
| R.2    | 18 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
| 0A.11  | 17 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
| DA.10  | 16 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
| 0A.8 ( | 15 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
| OA.7   | 14 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
| OA.3   | 13 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
| OA.2   | 12 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
| 0A.1   | 11 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
| H.1    | 10 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0,05  | 0,04  | 0.13  |
| NPB.1  | 6  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0,28    | 0,04    | 0,03    | 0,26    | 0,14    | 0,10    | 0,07    | 0,08    | 0     | 0     | 0     |
| I.7    | ~  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0,67  | 0,33  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
| I.6    | 7  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0,60  | 0,23  | 0,06  | 0,11  | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
| I.5    | 9  | 0     | 0     | 0     | 0     | 0     | 0     | 1,00  | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
| I.4    | 5  | 0     | 0     | 0     | 0,69  | 0,09  | 0,22  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
| I.3    | 4  | 0     | 0     | 1,00  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
| I.2    | 3  | 0     | 1,00  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
| I.1    | 2  | 1,00  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0     | 0     | 0     |
|        | 1  | I.1.1 | I.2.1 | I.3.1 | I.4.1 | I.4.2 | I.4.3 | I.5.1 | I.6.1 | I.6.2 | I.6.3 | I.6.4 | I.7.1 | I.7.2 | NPB.1.1 | NPB.1.2 | NPB.1.3 | NPB.1.4 | NPB.1.5 | NPB.1.6 | NPB.1.7 | NPB.1.8 | H.1.1 | H.1.2 | H.1.3 |

The Matrix A (general) of priorities (importance) of the most important policies of actors relative to focus

| 6          | 1 |   |   | ٣ |   |
|------------|---|---|---|---|---|
| 5          |   |   |   | - | , |
| <b>U</b> 1 | 1 | ٠ | - | 2 |   |
|            |   |   |   |   |   |

Table A.108

# Continued tab. A. 108

| 22 | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0       | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
|----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|---------|---------|-------|-------|-------|-------|-------|--------|--------|--------|
| 21 | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0       | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 20 | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0       | 0       | 0     | 0     | 0     | 0     | 0     | 0,12   | 0,09   | 0,51   |
| 19 | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0       | 0       | 0     | 0     | 0     | 0, 83 | 0,17  | 0      | 0      | 0      |
| 18 | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0       | 0       | 0,70  | 0,23  | 0,07  | 0     | 0     | 0      | 0      | 0      |
| 17 | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0       | 1,00    | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 16 | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 1,00    | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 15 | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1,00  | 0       | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 14 | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0, 83  | 0, 17  | 0     | 0       | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 13 | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0,83   | 0,17   | 0      | 0      | 0     | 0       | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 12 | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 1,00   | 0      | 0      | 0      | 0      | 0     | 0       | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 11 | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0,70   | 0,20   | 0,10   | 0      | 0      | 0      | 0      | 0      | 0     | 0       | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 10 | 0,19  | 0,02  | 0,03  | 0,16  | 0,16  | 0,06  | 0,14   | 0,04   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0       | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 6  | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0       | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 8  | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0       | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 7  | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0       | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 9  | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0       | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 5  | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0       | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 4  | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0       | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| б  | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0       | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 7  | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0       | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 1  | H.1.4 | H.1.5 | H.1.6 | H.1.7 | H.1.8 | H.1.9 | H.1.10 | H.1.11 | 0A.1.1 | OA.1.2 | 0A.1.3 | OA.2.1 | OA.3.1 | OA.3.2 | OA.7.1 | OA.7.2 | OA.81 | OA.10.1 | OA.11.1 | R.2.1 | R.2.2 | R.2.3 | R.3.1 | R.3.2 | SR.1.1 | SR.1.2 | SR.1.3 |

| 22 | 0      | 0      | 0      | 0      | 0      | 0      | 0,28   | 0,07   | 0,05   | 0,04   | 0,10   | 0,07   | 0,23   | 0,16   |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 21 | 0      | 0,39   | 0,06   | 0,29   | 0,10   | 0,15   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 20 | 0,29   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 19 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 18 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 17 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 16 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 15 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 14 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 13 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 12 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 11 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 10 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 6  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| ~  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 7  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 9  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 5  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 4  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 3  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 2  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 1  | SR.1.4 | SR.2.1 | SR.2.2 | SR.2.3 | SR.2.4 | SR.2.5 | SR.3.1 | SR.3.2 | SR.3.3 | SR.3.4 | SR.3.5 | SR.3.6 | SR.3.7 | SR.3.8 |

# The Matrix L (structural) of priorities (importance) of the most important policies of actors in relation to focus

| SR.3        | 22 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|-------------|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| SR.2        | 21 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| SR.1        | 20 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| R.3         | 19 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| R.2         | 18 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0A.11       | 17 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| OA.10       | 16 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| OA.8        | 15 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0A.7        | 14 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0A.3        | 13 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| <b>OA.2</b> | 12 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0A.1        | 11 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0,04615 |
| H.1         | 10 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0,16923 | 0       |
| NPB.1       | 6  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0,12308 | 0       | 0       |
| I.7         | 8  | 0       | 0       | 0       | 0       | 0       | 0       | 0,03077 | 0       | 0       | 0       |
| I.6         | 7  | 0       | 0       | 0       | 0       | 0       | 0,06154 | 0       | 0       | 0       | 0       |
| I.5         | 9  | 0       | 0       | 0       | 0       | 0,01538 | 0       | 0       | 0       | 0       | 0       |
| I.4         | 5  | 0       | 0       | 0       | 0,04615 | 0       | 0       | 0       | 0       | 0       | 0       |
| I.3         | 4  | 0       | 0       | 0,01538 | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| I.2         | 3  | 0       | 0,01538 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| I:1         | 2  | 0,01538 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|             | 1  | L.1     | 1.2     | I.3     | I.4     | I.5     | 1.6     | L.7     | NPB.1   | H.1     | 0A.1    |

 $1\,00$ 

Continued tab. A. 108

| A.109     |  |
|-----------|--|
| tab.      |  |
| Continued |  |

| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  |    | 1       |         |         |         | 1       |         |         |         |         |             |         |
|--|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|---------|
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 22 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0           | 0,12308 |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 21 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0,07692     | 0       |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 20 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0,06154 | 0           | 0       |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 19 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0,03077 | 0       | 0           | 0       |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 18 | 0       | 0       | 0       | 0       | 0       | 0       | 0,04615 | 0       | 0       | 0           | 0       |
|  | 17 | 0       | 0       | 0       | 0       | 0       | 0,01538 | 0       | 0       | 0       | 0           | 0       |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 16 | 0       | 0       | 0       | 0       | 0,01538 | 0       | 0       | 0       | 0       | 0           | 0       |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 15 | 0       | 0       | 0       | 0,01538 | 0       | 0       | 0       | 0       | 0       | 0           | 0       |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 14 | 0       | 0       | 0,03077 | 0       | 0       | 0       | 0       | 0       | 0       | 0           | 0       |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 13 | 0       | 0,03077 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0           | 0       |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 12 | 0,01538 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0           | 0       |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | 11 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0           | 0       |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 10 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0           | 0       |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 6  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0           | 0       |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | ~  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0           | 0       |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  | 7  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0           | 0       |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  | 9  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0           | 0       |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  | S  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0           | 0       |
| 1         2         3           0A.2         0         0           0A.3         0         0           0A.7         0         0           0A.7         0         0           0A.8         0         0           0A.10         0         0           0A.10         0         0           R.2         0         0           R.3         0         0           SR.1         0         0           SR.3         0         0 | 4  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0           | 0       |
| 1         2           0A.2         0           0A.3         0           0A.4         0           0A.10         0           0A.11         0           0A.11         0           R.2         0           SR.1         0           SR.1         0           SR.3         0           SR.3         0           SR.3         0  | ŝ  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0           | 0       |
| 1<br>0A.2<br>0A.10<br>0A.10<br>0A.11<br>R.2<br>R.3<br>SR.1<br>SR.2<br>SR.2<br>SR.3   | 6  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0           | 0       |
|  | 1  | 0A.2    | 0A.3    | 0A.7    | 0A.8    | OA.10   | 0A.11   | R.2     | R.3     | SR.1    | <b>SR.2</b> | SR.3    |

The Matrix AL (structural) with vectors X, W of priorities (importance) of the most important policies of actors in

relation to focus

| The | most<br>significa<br>nt | medium<br>impact | 26 | +       | +       | +       | +       |         |         |         | +       |         |         |         |         |         | +       |         |         | +       | +       |
|-----|-------------------------|------------------|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|     | W, %                    |                  | 25 | 3,67    | 2,92    | 2,14    | 3,69    | 0,46    | 1,17    | 0,81    | 3,32    | 1,27    | 0,33    | 0,62    | 1,26    | 0,63    | 4,67    | 0,66    | 0,50    | 4,33    | 2,39    |
|     | M                       |                  | 24 | 0,0367  | 0,02915 | 0,02135 | 0,03686 | 0,00464 | 0,0117  | 0,00806 | 0,03324 | 0,01272 | 0,00334 | 0,00617 | 0,01255 | 0,00628 | 0,04665 | 0,0066  | 0,00502 | 0,04328 | 0,0239  |
|     | ALX                     |                  | 23 | 0,00174 | 0,00138 | 0,00101 | 0,00175 | 0,00022 | 0,00056 | 0,00038 | 0,00158 | 0,0006  | 0,00016 | 0,00029 | 0,0006  | 0,0003  | 0,00222 | 0,00031 | 0,00024 | 0,00206 | 0,00113 |
|     | SR.3                    |                  | 22 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     | SR.2                    |                  | 21 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     | SR.1                    |                  | 20 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     | R.3                     |                  | 19 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     | R.2                     |                  | 18 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     | 0A.11                   |                  | 17 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     | OA.10                   |                  | 16 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     | 0A.8                    |                  | 15 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     | 0A.7                    |                  | 14 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     | 0A.3                    |                  | 13 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     | 0A.2                    |                  | 12 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     | 0A.1                    |                  | 11 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     | Н.1                     |                  | 10 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     | NPB.1                   |                  | 6  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0,03466 | 0,0049  | 0,00373 | 0,03215 | 0,01775 |
|     | 1.7                     |                  | 8  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0,02051 | 0,01026 | 0       | 0       | 0       | 0       | 0       |
|     | I.6                     |                  | L  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0,03687 | 0,01411 | 0,00371 | 0,00685 | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     | 1.5                     |                  | 9  | 0       | 0       | 0       | 0       | 0       | 0       | 0,01538 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     | I.4                     | _                | 5  | 0       | 0       | 0       | 0,03197 | 0,00403 | 0,01015 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     | 1.3                     |                  | 4  | 0       | 0       | 0,01538 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     | 1.2                     |                  | 3  | 0       | 0,01538 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     | П                       |                  | 2  | 0,01538 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|     |                         |                  |    | L1.1    | 1.2.1   | I.3.1   | I.4.1   | I.4.2   | I.4.3   | I.5.1   | I.6.1   | I.6.2   | I.6.3   | I.6.4   | I.7.1   | I.7.2   | NPB.1.1 | NPB.1.2 | NPB.1.3 | NPB.1.4 | NPB.1.5 |
|     |                         |                  | -  | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | _       | -       | -       | -       | -       |

# Continued tab. A.110

| 96 | +       |         |         |         |        | +       | +      |         |         | +       | +       |         | +       |         | +       |         |         |         |         |         |         |         |         |         | +       |         |         |         | +       |         | +       |         | +       | +       |         |        |         |         |         | +       |           |         |         |         |         | +       | +       | 67,43%<br>23 units |
|----|---------|---------|---------|---------|--------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|-----------|---------|---------|---------|---------|---------|---------|--------------------|
| 25 | 1,64    | 1,09    | 1,29    | 0,78    | 0,54   | 1,91    | 2,84   | 0,26    | 0,48    | 2,43    | 2,49    | 0,89    | 2,06    | 0,54    | 2,84    | 0,82    | 0,39    | 1,03    | 1,36    | 0,27    | 1,18    | 0,24    | 0,65    | 0,59    | 2,54    | 1,20    | 0,39    | 0,12    | 2,12    | 0,42    | 1,70    | 1,27    | 7,48    | 4,32    | 1,18    | 0,19   | 0,89    | 0,30    | 0,46    | 3,30    | 0,82      | 0,61    | 0,53    | 1,22    | 0,85    | 2,73    | 1,93    | 1.54               |
| 24 | 0.01641 | 0,01088 | 01294   | 0,00784 | 0,0054 | 0,01905 | 0,0284 | 0,00263 | 0,00476 | 0.02425 | 0.02486 | 0.00892 | 0,0206  | 0.00538 | 0,02837 | 0,00818 | 0,00393 | 0,01033 | 0.01362 | 0,00272 | 0.01175 | 0,00235 | 0,00647 | 0.00588 | 0.02538 | ,01199  | ),00386 | 0,00124 | 0,02123 | 0,00425 | ,01701  | 0.01268 | 0,07484 | 0,04321 | 0,01183 | ,00193 | 0,00894 | 0.00303 | ),00464 | 0,03296 | 0,00817   | 0,00612 | 0,00531 | 0.01216 | 0,00853 | 0,02727 | ,01928  | Aedium             |
| 23 | 00078 0 | 00052 ( | 00061 ( | 00037 ( | 00026  | ) 6000  | 00135  | 00012 0 | 00023 ( | 00115 0 | 00118 ( | 00042 ( | 86000   | 00026 ( | 00135 ( | 00039 ( | 00019 ( | 00049 ( | 00065 ( | 00013 ( | 00056 ( | 00011 0 | 00031 ( | 00028 ( | 00121 ( | 00057 ( | 00018 0 | 00006 ( | 00101 ( | ,0002 ( | 00081 0 | 0006 (  | 00355 ( | 00205 ( | 00056 ( | 00000  | 00042 ( | 00014 0 | 00022 ( | 00156 ( | 00039 (   | 00029 ( | 00025 ( | 00058 ( | 0004 (  | 00129 ( | 00092 ( | 04748              |
| 2  | 0       | 0 0     | 0 0     | 0 0     | 0 0    | 0 0     | 0 0,   | ð<br>0  | 0 0     | 0 0     | 0       | 0       | 0 0     | 0 0     | 0 0     | 0 0     | 0 0     | 0 0     | 0       | 0       | 0       | 0       | 0 0     | 0 0     | 0 0     | 0 0     | 0 0,    | 0 0,    | 0 0     | 0       | 0 0,    | 0 0     | 0 0     | 0       | 0       | 0      | 0       | 0 0,    | 0 0,    | 3386 0, | 0,084 0,0 | 0629 0, | 0546 0, | 1249 0, | 0876 0  | 2801 0, | 1981 0, | nm 0               |
| 16 | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 12997   | 00488  | 12266   | 0767    | 01175   | 0 0,0   | 0<br>0    | 0 0,0   | 0 0,0   | 0 0'0   | 0 0,0   | 0 0,0   | 0 0,0   | ~                  |
| 20 | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0708    | 0528    | 3117    | ,018    | 0,0     | 0 0'(  | 0,0     | 0 0,0   | 0 0,0   | 0       | 0         | 0       | 0       | 0       | 0       | 0       | 0       |                    |
| 10 | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 2564    | 0513    | 0 0,0   | 0 0,0   | 0,0     | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0         | 0       | 0       | 0       | 0       | 0       | 0       |                    |
| 8  | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 13238   | 01042   | 0335    | 0 0,0   | 0 0,0   | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0         | 0       | 0       | 0       | 0       | 0       | 0       |                    |
| 17 | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 1538    | 0 0,0   | 0 0,0   | 0 0,0   | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0         | 0       | 0       | 0       | 0       | 0       | 0       |                    |
| 91 | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 1538    | 0,0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0         | 0       | 0       | 0       | 0       | 0       | 0       |                    |
| 5  | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 1538    | 0,0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0         | 0       | 0       | 0       | 0       | 0       | 0       |                    |
| 4  | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 2564    | 0513    | 0,0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0         | 0       | 0       | 0       | 0       | 0       | 0       |                    |
|    | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 2564    | 0513    | 0 0,0   | 0 0,0   | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0         | 0       | 0       | 0       | 0       | 0       | 0       |                    |
|    | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 1538    | 0 00    | 0 0'0   | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0         | 0       | 0       | 0       | 0       | 0       | 0       |                    |
|    | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 3234    | 0933    | 0448    | 0,0 0,0 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0         | 0       | 0       | 0       | 0       | 0       | 0       |                    |
| 0  | 0       | 0       | 0       | 0872    | 0601   | 0212    | 316    | 0293    | 053     | 2699    | 2766    | 0993    | 2292    | 0599    | 0,0     | 0,0     | 0 0'0   | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0         | 0       | 0       | 0       | 0       | 0       | 0       |                    |
| 6  | 1219    | 6080    | 0962    | 0 0'0   | 0 0'0  | 0 0'(   | 0 0'(  | 0,0     | 0'0     | 0,0 0,0 | 0.0 0.0 | 0.0 0.0 | 0,0 0,0 | 0 0,0   | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0         | 0       | 0       | 0       | 0       | 0       | 0       |                    |
| ~  | 0 0,0   | 0 0'0   | 0 0'0   | 0       | 0      | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0         | 0       | 0       | 0       | 0       | 0       | 0       |                    |
| 7  | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0         | 0       | 0       | 0       | 0       | 0       | 0       |                    |
| 9  | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0         | 0       | 0       | 0       | 0       | 0       | 0       |                    |
| 2  | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0         | 0       | 0       | 0       | 0       | 0       | 0       |                    |
| 4  |         | 0       | 0       | 0       | 0      | 0       | 0      | 0       | 0       | 0       |         |         | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |         | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0       | 0       | 0       | 0         | 0       | 0       | 0       | 0       | 0       | 0       |                    |
|    | -       | -       | _       | -       | -      | _       | -      | _       | -       | _       | _       | _       | _       | _       | _       | _       | -       | _       | _       | _       | _       | _       | _       | _       | _       | -       | -       | -       | -       | _       | -       |         | -       | -       | _       | _      | _       | -       | -       | -       | _         | -       | -       | -       |         | _       | _       |                    |
| -  |         | 0       | 0       | 0       | 0      | 0       | 0      | -<br>-  | -<br>0  | -<br>-  | 6       | 6       | -<br>-  | 6       | 0       | -<br>-  | -<br>0  | 0       | 6       | 6       | 6       | 6       | -<br>-  | 0       | 6       | 0       | 0       | 0       | 0       | -       | 0       | 0       | 0       | -       | -       | _      | -       | 0       | 0       | 0       | -<br>0    | 0       | -<br>0  | 0       | 0       | _       |         |                    |
|    | .1.6 (  | .1.7 (  | .1.8    | 1.1     | .2 (   | 3       | .4 (   | 5       | .6 (    | .7      | 8.      | 6.      | 10      |         | 1.1     | 1.2     | 1.3 (   | 2.1 (   | 3.1 (   | 3.2 (   | 7.1 (   | 7.2 (   | 81 (    | 10.1 (  | 11.1    | 1.1     | 2 (     | 3 (     | ) I'i   | 12      | 1.1 (   | 1.2 (   | 1.3     | 1.4     | 2.1     | 2.2 (  | 2.3 (   | 2.4 (   | 2.5 (   | 3.1 (   | 3.2 (     | 3.3 (   | 3.4 (   | 3.5 (   | 3.6 (   | 3.7 (   | 3.8 (   |                    |
| [  | NPB     | NPB     | NPB     | H.1     | H.1    | H.1     | H.1    | Η.1     | H.1     | H.1     | H.1     | H.1     | H.1.    | H.1.    | OA.     | OA.     | OA.     | OA.     | OA      | OA      | OA.     | OA.     | OA.     | OA.     | OA. i   | R.2     | R.2     | R.2     | R.3     | R.3     | SR.     | SR.     | SR.     | SR.     | SR      | SR     | SR.     | SR      | SR      | SR.     | SR.       | SR.     | SR.     | SR.     | SR.     | SR.     | SR.     |                    |

Priorities (importance) of the most important policies of actors regarding the focus of the FDPP

| Activities | W       | W, % | The most significant |
|------------|---------|------|----------------------|
|            | 2       | ,    | > medium impact      |
| 1          | 2       | 3    | 4                    |
| l.1.1      | 0,07668 | 7,67 | +                    |
| 1.2.1      | 0,06091 | 6,09 | +                    |
| I.3.1      | 0,04462 | 4,46 | +                    |
| 1.4.1      | 0,07702 | 7,70 | +                    |
| I.4.2      | 0,0097  | 0,97 |                      |
| I.4.3      | 0,02445 | 2,45 | +                    |
| I.5.1      | 0,01684 | 1,68 |                      |
| I.6.1      | 0,06944 | 6,94 | +                    |
| I.6.2      | 0,02657 | 2,66 | +                    |
| I.6.3      | 0,00698 | 0,70 |                      |
| I.6.4      | 0,0129  | 1,29 |                      |
| I.7.1      | 0,02623 | 2,62 | +                    |
| I.7.2      | 0,01311 | 1,31 |                      |
| I.8.1      | 0,01458 | 1,46 |                      |
| I.8.2      | 0,00729 | 0,73 |                      |
| I.9.1      | 0,00314 | 0,31 |                      |
| I.9.2      | 0,00687 | 0,69 |                      |
| I.9.3      | 0,01791 | 1,79 |                      |
| I.9.4      | 0,00907 | 0,91 |                      |
| I.9.5      | 0,00175 | 0,17 |                      |
| I.10.1     | 0,00622 | 0,62 |                      |
| NPB.1.1    | 0,02569 | 2,57 | +                    |
| NPB.1.2    | 0,00363 | 0,36 |                      |
| NPB.1.3    | 0,00276 | 0,28 |                      |
| NPB.1.4    | 0,02383 | 2,38 | +                    |
| NPB.1.5    | 0,01316 | 1,32 |                      |
| NPB.1.6    | 0,00903 | 0,90 |                      |
| NPB.1.7    | 0,00599 | 0,60 |                      |
| NPB.1.8    | 0,00713 | 0,71 |                      |
| H.1.1      | 0,01442 | 1,44 |                      |
| H.1.2      | 0,00994 | 0,99 |                      |
| H.1.3      | 0,03507 | 3,51 | +                    |
| H.1.4      | 0,05227 | 5,23 | +                    |
| H.1.5      | 0,00484 | 0,48 |                      |
| H.1.6      | 0,00876 | 0,88 |                      |
| H.1.7      | 0,04464 | 4,46 | +                    |
| H.1.8      | 0,04576 | 4,58 | +                    |
| H.1.9      | 0,01642 | 1,64 |                      |
Continued tab. A.111

| 1       | 2       | 3    | 4             |
|---------|---------|------|---------------|
| H.1.10  | 0,03792 | 3,79 | +             |
| H.1.11  | 0,0099  | 0,99 |               |
| H.2.1   | 0,00689 | 0,69 |               |
| H.2.2   | 0,01734 | 1,73 |               |
| H.2.3   | 0,00775 | 0,78 |               |
| H.2.4   | 0,00195 | 0,19 |               |
| OA.1.1  | 0,01867 | 1,87 |               |
| OA.1.2  | 0,00538 | 0,54 |               |
| OA.1.3  | 0,00259 | 0,26 |               |
| OA.2.1  | 0,0068  | 0,68 |               |
| OA.11.1 | 0,0167  | 1,67 |               |
| R.3.1   | 0,01039 | 1,04 |               |
| R.3.2   | 0,00208 | 0,21 |               |
|         | Medium  | 1,96 |               |
|         | Sum     |      | 15 Activities |
|         |         |      | 67,11%        |

Table A.112

Priority (importance) of the most important policyian of the actor «Intellect»

| Intellect               | Policies |      |            |     |            |     | Vector of                 |
|-------------------------|----------|------|------------|-----|------------|-----|---------------------------|
| Policies                | I.1      | I.2  | I.3        | I.4 | I.6        | I.7 | priorities P <sub>i</sub> |
| I.1                     | 1        | 3    | 4          | 3   | 2          | 4   | 0,3507                    |
| I.2                     | 0,3      | 1    | 3          | 4   | 3          | 3   | 0,2480                    |
| I.3                     | 0,25     | 0,3  | 1          | 3   | 2          | 4   | 0,1532                    |
| I.4                     | 0,3      | 0,25 | 0,3        | 1   | 3          | 3   | 0,1083                    |
| I.6                     | 0,5      | 0,3  | 0,5        | 0,3 | 1          | 3   | 0,0902                    |
| I.7                     | 0,25     | 0,3  | 0,25       | 0,3 | 0,3        | 1   | 0,0496                    |
| $\lambda_{max} = 6,773$ |          |      | CI = 0,155 |     | CR = 0,125 |     |                           |

Table A.113

Priority (importance) of the most important policyian of the actor «Natural and production base»

| Natural and production | Policies        | Vector of                 |
|------------------------|-----------------|---------------------------|
| base                   |                 | priorities P <sub>i</sub> |
| Policies               | NPB.1           |                           |
| NPB.1                  | 1               | 1,0                       |
| λ                      | CI = 0 $CR = 0$ |                           |

## Priority (importance) of the most important policyian of the actor «Health»

| Health          | Policies                | Vector of                 |
|-----------------|-------------------------|---------------------------|
| Policies        | H.1                     | priorities P <sub>i</sub> |
| H.1             | 1                       | 1,0                       |
| $\lambda_{\mu}$ | max = 0 $CI = 0$ $CR =$ | 0                         |

Table A.115

## Priority (importance) of the most important policyian of the actor «Organization and Adaptation»

| Organization<br>and Adaptation | Pc                     | Vector of  |                           |
|--------------------------------|------------------------|------------|---------------------------|
| Policies                       | OA.1                   | OA.11      | priorities P <sub>i</sub> |
| OA.1                           | 1                      | 0,3        | 0,25                      |
| OA.11                          | 3                      | 1          | 0,75                      |
| $\lambda_{mc}$                 | <sub>LA</sub> = 2,0 CI | = 0 CR = ( | )                         |

Table A.116

## Priority (importance) of the most important policyian of the actor «Regulation»

| Regulation | Policies       | Vector of                 |
|------------|----------------|---------------------------|
| Policies   | P.3            | priorities P <sub>i</sub> |
| P.3        | 1              | 1,0                       |
| λ          | max = 0 CI = 0 | CR = 0                    |

Table A.117

### Priority (importance) of the most important policyian of the actor «State

#### Regulation»

| State Regulation | Ро                    | Vector of    |                           |
|------------------|-----------------------|--------------|---------------------------|
| Policies         | SR.1                  | SR.3         | priorities P <sub>i</sub> |
| SR.1             | 1                     | 3            | 0,75                      |
| SR.3             | 0,3                   | 1            | 0,25                      |
| $\lambda_{ma}$   | <sub>L</sub> = 2,0 CI | = 0 CR $= 0$ |                           |

The Matrix A (general) of priorities (importance) of the policies of the actors in relation to the focus

|       | Ι      | NPB | Η | OA   | R | SR   |
|-------|--------|-----|---|------|---|------|
| I.1   | 0,3507 | 0   | 0 | 0    | 0 | 0    |
| I.2   | 0,2480 | 0   | 0 | 0    | 0 | 0    |
| I.3   | 0,1532 | 0   | 0 | 0    | 0 | 0    |
| I.4   | 0,1083 | 0   | 0 | 0    | 0 | 0    |
| I.6   | 0,0902 | 0   | 0 | 0    | 0 | 0    |
| I.7   | 0,0496 | 0   | 0 | 0    | 0 | 0    |
| NPB.1 | 0      | 1   | 0 | 0    | 0 | 0    |
| H.1   | 0      | 0   | 1 | 0    | 0 | 0    |
| OA.1  | 0      | 0   | 0 | 0,75 | 0 | 0    |
| OA.2  | 0      | 0   | 0 | 0,25 | 0 | 0    |
| R.3   | 0      | 0   | 0 | 0    | 1 | 0    |
| SR.1  | 0      | 0   | 0 | 0    | 0 | 0,75 |
| SR.3  | 0      | 0   | 0 | 0    | 0 | 0,25 |

Table A.119

## The Matrix L (structured) of priorities (importance) of the policies of the actors in relation to the focus

|     | Ι        | NPB   | Н     | OA    | R     | SR    |
|-----|----------|-------|-------|-------|-------|-------|
| Ι   | 0,461538 | 0     | 0     | 0     | 0     | 0     |
| NPB | 0        | 0,077 | 0     | 0     | 0     | 0     |
| Н   | 0        | 0     | 0,077 | 0     | 0     | 0     |
| OA  | 0        | 0     | 0     | 0,154 | 0     | 0     |
| R   | 0        | 0     | 0     | 0     | 0,077 | 0     |
| SR  | 0        | 0     | 0     | 0     | 0     | 0,154 |

Table A.120

The Matrix AL (structural) with vectors X, W of priority (importance) of the policies of the actors in relation to the focus

|       | Ι        | NPB      | Н        | OA | R | SR | ALX    | W      | W, %  |
|-------|----------|----------|----------|----|---|----|--------|--------|-------|
| 1     | 2        | 3        | 4        | 5  | 6 | 7  | 8      | 9      | 10    |
| I.1   | 0,16186  | 0        | 0        | 0  | 0 | 0  | 0,0704 | 0,2724 | 27,24 |
| I.2   | 0,114452 | 0        | 0        | 0  | 0 | 0  | 0,0498 | 0,1926 | 19,26 |
| I.3   | 0,070699 | 0        | 0        | 0  | 0 | 0  | 0,0308 | 0,1190 | 11,90 |
| I.4   | 0,049992 | 0        | 0        | 0  | 0 | 0  | 0,0218 | 0,0841 | 8,41  |
| I.6   | 0,041627 | 0        | 0        | 0  | 0 | 0  | 0,0181 | 0,0701 | 7,01  |
| I.7   | 0,022908 | 0        | 0        | 0  | 0 | 0  | 0,0100 | 0,0386 | 3,86  |
| NPB.1 | 0        | 0,076923 | 0        | 0  | 0 | 0  | 0,0066 | 0,0255 | 2,55  |
| H.1   | 0        | 0        | 0,076923 | 0  | 0 | 0  | 0,0190 | 0,0733 | 7,33  |

| Continued | tab. | A.1 | 20 |
|-----------|------|-----|----|
|-----------|------|-----|----|

| 1    | 2 | 3 | 4 | 5        | 6        | 7        | 8      | 9      | 10   |
|------|---|---|---|----------|----------|----------|--------|--------|------|
| OA.1 | 0 | 0 | 0 | 0,115385 | 0        | 0        | 0,0073 | 0,0281 | 2,81 |
| OA.2 | 0 | 0 | 0 | 0,038462 | 0        | 0        | 0,0024 | 0,0094 | 0,94 |
| R.3  | 0 | 0 | 0 | 0        | 0,076923 | 0        | 0,0036 | 0,0141 | 1,41 |
| SR.1 | 0 | 0 | 0 | 0        | 0        | 0,115385 | 0,0141 | 0,0546 | 5,46 |
| SR.3 | 0 | 0 | 0 | 0        | 0        | 0,038462 | 0,0047 | 0,0182 | 1,82 |
|      |   |   |   |          |          | Сума     | 0,2586 |        |      |

Priority (importance) of the most important measures in relation to Policies I.4

| I.4                   | I.4.1  | I.4.3 | Vector of priorities<br>Pi |
|-----------------------|--------|-------|----------------------------|
| I.4.1                 | 1      | 2     | 83,33%                     |
| I.4.3                 | 0,2    | 1     | 16,67%                     |
| $\lambda_{max} = 2,0$ | CI = 0 | CR    | = 0                        |

Table A.122

Priority (importance) of the most important measures in relation to Policies I.6

| I.6                   | I.6.1  | I.6.2 | Vector of priorities<br>Pi |
|-----------------------|--------|-------|----------------------------|
| I.6.1                 | 1      | 2     | 83,33%                     |
| I.6.2                 | 0,2    | 1     | 16,67%                     |
| $\lambda_{max} = 2,0$ | CI = 0 | CR    | = 0                        |

Table A.123

Priority (importance) of the most important measures in relation to Policies NPB.1

| NPB.1                  | NPB1.1 | NPB.1.4   | NPB.1.5 | NPB.1.6 | Vector of<br>priorities P <sub>i</sub> |
|------------------------|--------|-----------|---------|---------|--|
| NPB.1.1                | 1      | 3         | 3       | 3       | 45,29%                                 |
| NPB.1.4                | 0,3    | 1         | 5       | 5       | 33,76%                                 |
| NPB.1.5                | 0,3    | 0,2       | 1       | 3       | 13,29%                                 |
| NPB.1.6                | 0,3    | 0,2       | 0,3     | 1       | 7,67%                                  |
| $\lambda_{max} = 4,49$ | 94     | CI = 0,16 | 5       | CR =    | 0,183                                  |

Priority (importance) of the most important measures in relation to Policies SR.1

| SR.1                    | SR.1.1 | SR.1.3  | SR.1.4 | Vector of priorities<br>Pi |
|-------------------------|--------|---------|--------|----------------------------|
| SR.1.1                  | 1      | 0,2     | 0,2    | 8,56%                      |
| SR.1.3                  | 5      | 1       | 3      | 61,75%                     |
| SR.1.4                  | 5      | 0,3     | 1      | 29,69%                     |
| $\lambda_{max} = 3,136$ | 5 CI   | = 0,068 | CR =   | 0,117                      |

Table A.125

Priority (importance) of the most important measures in relation to Policies SR.3

| SR.3                    | SR.3.1 | SR.3.7  | SR.3.8 | Vector of priorities<br>Pi |
|-------------------------|--------|---------|--------|----------------------------|
| SR.3.1                  | 1      | 3       | 3      | 57,50%                     |
| SR.3.7                  | 0,3    | 1       | 4      | 30,43%                     |
| SR.3.8                  | 0,3    | 0,25    | 1      | 12,07%                     |
| $\lambda_{max} = 3,217$ | CI CI  | = 0,109 | CR =   | 0,187                      |

Table A.126

Priority (importance) of the most important measures in relation to Policies H.1

| H.1               | H.1.3 | H.1.4  | H.1.7 | H.1.8 | H.1.10     | Vector of<br>priorities P <sub>i</sub> |
|-------------------|-------|--------|-------|-------|------------|--|
| H.1.3             | 1     | 0,25   | 3     | 5     | 0,25       | 16,26%                                 |
| H.1.4             | 4     | 1      | 3     | 0,2   | 3          | 24,24%                                 |
| H.1.7             | 0,3   | 0,3    | 1     | 3     | 3          | 20,70%                                 |
| H.1.8             | 0,2   | 5      | 0,3   | 1     | 3          | 21,22%                                 |
| H.1.10            | 4     | 0,3    | 0,3   | 0,3   | 1          | 17,58%                                 |
| $\lambda_{max} =$ | 8,641 | CI = ( | ),910 |       | CR = 0,813 |  |

The Matrix A (general) of priorities (importance) of policies of actors in relation to focus

|         | I.1 | I.2 | I.3 | I.4    | I.6    | I.7 | NPB.1  | H.1    | OA.1 | OA.11 | R.3 | SR.1   | SR.3   |
|---------|-----|-----|-----|--------|--------|-----|--------|--------|------|-------|-----|--------|--------|
| I.1.1   | 1   | 0   | 0   | 0      | 0      | 0   | 0      | 0      | 0    | 0     | 0   | 0      | 0      |
| I.2.1   | 0   | 1   | 0   | 0      | 0      | 0   | 0      | 0      | 0    | 0     | 0   | 0      | 0      |
| I.3.1   | 0   | 0   | 1   | 0      | 0      | 0   | 0      | 0      | 0    | 0     | 0   | 0      | 0      |
| I.4.1   | 0   | 0   | 0   | 0,8333 | 0      | 0   | 0      | 0      | 0    | 0     | 0   | 0      | 0      |
| I.4.3   | 0   | 0   | 0   | 0,1667 | 0      | 0   | 0      | 0      | 0    | 0     | 0   | 0      | 0      |
| I.6.1   | 0   | 0   | 0   | 0      | 0,8333 | 0   | 0      | 0      | 0    | 0     | 0   | 0      | 0      |
| I.6.2   | 0   | 0   | 0   | 0      | 0,1667 | 0   | 0      | 0      | 0    | 0     | 0   | 0      | 0      |
| I.7.1   | 0   | 0   | 0   | 0      | 0      | 1   | 0      | 0      | 0    | 0     | 0   | 0      | 0      |
| NPB.1.1 | 0   | 0   | 0   | 0      | 0      | 0   | 0,4529 | 0      | 0    | 0     | 0   | 0      | 0      |
| NPB.1.4 | 0   | 0   | 0   | 0      | 0      | 0   | 0,3376 | 0      | 0    | 0     | 0   | 0      | 0      |
| NPB.1.5 | 0   | 0   | 0   | 0      | 0      | 0   | 0,1329 | 0      | 0    | 0     | 0   | 0      | 0      |
| NPB.1.6 | 0   | 0   | 0   | 0      | 0      | 0   | 0,0767 | 0      | 0    | 0     | 0   | 0      | 0      |
| H.1.3   | 0   | 0   | 0   | 0      | 0      | 0   | 0      | 0,1626 | 0    | 0     | 0   | 0      | 0      |
| H.1.4   | 0   | 0   | 0   | 0      | 0      | 0   | 0      | 0,2424 | 0    | 0     | 0   | 0      | 0      |
| H.1.7   | 0   | 0   | 0   | 0      | 0      | 0   | 0      | 0,2070 | 0    | 0     | 0   | 0      | 0      |
| H.1.8   | 0   | 0   | 0   | 0      | 0      | 0   | 0      | 0,2122 | 0    | 0     | 0   | 0      | 0      |
| H.1.10  | 0   | 0   | 0   | 0      | 0      | 0   | 0      | 0,1758 | 0    | 0     | 0   | 0      | 0      |
| OA.1.1  | 0   | 0   | 0   | 0      | 0      | 0   | 0      | 0      | 1    | 0     | 0   | 0      | 0      |
| OA.11.1 | 0   | 0   | 0   | 0      | 0      | 0   | 0      | 0      | 0    | 1     | 0   | 0      | 0      |
| R.3.1   | 0   | 0   | 0   | 0      | 0      | 0   | 0      | 0      | 0    | 0     | 1   | 0      | 0      |
| SR.1.1  | 0   | 0   | 0   | 0      | 0      | 0   | 0      | 0      | 0    | 0     | 0   | 0,0856 | 0      |
| SR.1.3  | 0   | 0   | 0   | 0      | 0      | 0   | 0      | 0      | 0    | 0     | 0   | 0,6175 | 0      |
| SR.1.4  | 0   | 0   | 0   | 0      | 0      | 0   | 0      | 0      | 0    | 0     | 0   | 0,2969 | 0      |
| SR.3.1  | 0   | 0   | 0   | 0      | 0      | 0   | 0      | 0      | 0    | 0     | 0   | 0      | 0,5750 |
| SR.3.7  | 0   | 0   | 0   | 0      | 0      | 0   | 0      | 0      | 0    | 0     | 0   | 0      | 0,3043 |
| SR.3.8  | 0   | 0   | 0   | 0      | 0      | 0   | 0      | 0      | 0    | 0     | 0   | 0      | 0,1207 |

| SR.3  | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0,115385 |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| SR.1  | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0,115385 | 0        |
| R.3   | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0,038462 | 0        | 0        |
| 0A.11 | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0,038462 | 0        | 0        | 0        |
| 0A.1  | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0,038462 | 0        | 0        | 0        | 0        |
| H.1   | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0,192308 | 0        | 0        | 0        | 0        | 0        |
| NPB.1 | 0        | 0        | 0        | 0        | 0        | 0        | 0,153846 | 0        | 0        | 0        | 0        | 0        | 0        |
| I.7   | 0        | 0        | 0        | 0        | 0        | 0,038462 | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| I.6   | 0        | 0        | 0        | 0        | 0,076923 | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| I.4   | 0        | 0        | 0        | 0,076923 | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| I.3   | 0        | 0        | 0,038462 | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| I.2   | 0        | 0,038462 | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| I.1   | 0,038462 | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
|       | I.1      | I.2      | I.3      | I.4      | I.6      | I.7      | VPB.1    | H.1      | 0A.1     | DA.11    | R.3      | SR.1     | SR.3     |

The Matrix L (structured) priorities (importance) of policies of actors in relation to focus

Table A.129

The Matrix AL (structured) with vectors X, W of priorities (importance) of events policies of actors in relation to

focus

| W, %  | 17 | 16,32    | 11,54    | 7,13     | 8,40     | 1,68     | 6,99     | 1,40     | 2,31     |
|-------|----|----------|----------|----------|----------|----------|----------|----------|----------|
| M     | 16 | 0,1632   | 0,1154   | 0,0713   | 0,0840   | 0,0168   | 0,0699   | 0,0140   | 0,0231   |
| ALX   | 15 | 0,0105   | 0,0074   | 0,0046   | 0,0054   | 0,0011   | 0,0045   | 0,0009   | 0,0015   |
| SR.3  | 14 | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| SR.1  | 13 | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| R.3   | 12 | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 0A.11 | 11 | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 0A.1  | 10 | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| H.1   | 6  | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| NPB.1 | 8  | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| I.7   | 7  | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0,038462 |
| I.6   | 9  | 0        | 0        | 0        | 0        | 0        | 0,064103 | 0,012821 | 0        |
| I.4   | 5  | 0        | 0        | 0        | 0,064103 | 0,012821 | 0        | 0        | 0        |
| I.3   | 4  | 0        | 0        | 0,038462 | 0        | 0        | 0        | 0        | 0        |
| I.2   | Э  | 0        | 0,038462 | 0        | 0        | 0        | 0        | 0        | 0        |
| I.1   | 2  | 0,038462 | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
|       | 1  | I.1.1    | I.2.1    | 1.3.1    | I.4.1    | I.4.3    | I.6.1    | I.6.2    | I.7.1    |

110

Table A.128

| =        |   |   |  | 111 10   | 111 0  | п17  | H1.4   |
|----------|---|---|--|--|--|--|--|
|          |   |   |  |  |  |  |  |
| 0,0542   | 0,0852  | 0,0542  | ),0727   | ),0810 (   | ,0914 (  | ,1047 0  | C3 0,  |
| 0,7283   | 0,6442  | 0,7283  | ),7223   | ),7306 (   | ,6910 (  | ,6370 0  | C2 0,  |
| 0,2176   | 0,2706  | 0,2176  | ),2050   | ),1884 (   | ,2176 (  | ,2583 0  | C1 0,  |
| I.6.2    | I.6.1   | I.4.3   | I.4.1  | I.3.1  | I.2.1  | I.1.1  |  |
|          | -   | -   | e focus  | ion to the   | s in relat   | the actor  | olicies of   |
| scenario | rasting   | of cont   | ortance)   | ties (imp.   | of priori  | Matrix o   | The  |
|          |   |   |  |  |  |  |  |
| 0        | 0   | 0   | 0  | 0  | 0  | 0 0  | R.3.8 (  |
| 0        | 0   | 0   | 0  | 0  | 0  | 0 0  | R.3.7 C  |
| 0        | 0   | 0   | 0  | 0  | 0  | 0 0  | R.3.1 0  |
| 0        | 0   | 0   | 0  | 0  | 0  | 0 0  | R.1.4 0  |
| 0        | 0   | 0   | 0  | 0  | 0  | 0 0  | R.1.3 C  |
| 0        | 0   | 0   | 0  | 0  | 0  | 0 0  | R.1.1 0  |
| 0        | 0   | 0   | 0  | 0  | 0  | 0 0  | P.3.1 C  |
| 0        | 0   | 0   | 0  | 0  | 0  | 0 0  | A.11.1 C   |
| 0        | 0   | 0   | 0  | 0  | 0  | 0 0  | A.1.1 0  |
| 0,033811 | 0   | 0   | 0  | 0  | 0  | 0 0  | (1.10 0  |
| 0,040805 | 0   | 0   | 0  | 0  | 0  | 0 0  | H.1.8 C  |
| 0,039809 | 0   | 0   | 0  | 0  | 0  | 0 0  | H.1.7 C  |
| 0,046611 | 0   | 0   | 0  | 0  | 0  | 0 0  | H.1.4 C  |
| 0,031272 | 0   | 0   | 0  | 0  | 0  | 0 0  | H.1.3 (  |
| 0        | 0,011801  | 0   | 0  | 0  | 0  | 0 0  | PB.1.6 (   |
| 0        | 0,02044   | 0   | 0  | 0  | 0  | 0 0  | PB.1.5 (   |
| 0        | 0,051931  | 0   | 0  | 0  | 0  | 0 0  | PB.1.4 (   |
| 0        | 0,069673  | 0   | 0  | 0  | 0  | 0 0  | PB.I.I (   |
| 6        | ×   | _   | 0  | 0  | 4  | 1<br>0   | 111  |
|          | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 5 $6$ $7$ $8$ $9$ $0$ $0$ $0$ $0.00673$ $0$ $0$ $0$ $0.0011801$ $0$ $0$ $0$ $0.011801$ $0$ $0$ $0$ $0.011801$ $0$ $0$ $0$ $0$ $0.031272$ $0$ $0$ $0$ $0.031272$ $0$ $0$ $0$ $0.031272$ $0$ $0$ $0$ $0.031272$ $0$ $0$ $0$ $0.031272$ $0$ $0$ $0$ $0.031272$ $0$ $0$ $0$ $0.033811$ $0$ <td< td=""><td>0 <math>0</math> <math>0</math><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td></td></td<> | 0 $0$ <td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |

0,1047

0,0719

0,0852

0,1047

0,1047

0,1095

0,0719

0,0510

0,0719

0,0719

0,0719

0,1047

0,0578

111



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