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KNOWLEDGE MANAGEMENT FOR SUSTAINABLE DEVELOPMENT ACHIEVEMENT

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Abstract. Knowledge management is an effective mechanism to achieve sustainable development. Tasks assigned to analysts, can be solved using the experience of leading countries of the world. In this article the framework of knowledge management, which takes into account the investigated domain, is suggested. In the proposed framework a scenario- oriented approach is used to form possible analytical activities scenarios that are based on experience.

The accumulated experience of countries that are on track to achieve sustainable development or have already achieved it can be used to achieve sustainable development in Ukraine through their experience. Next knowledge can be investigated for that: methods and working models of sustainable development achievement.

Knowledge Management - a process aimed to support knowledge at the appropriate level and aimed to develop a new knowledge by goals (development of new products, technologies, etc.). Knowledge management technologies are often defined in terms of their ability to help process and organize textual content and data so as to enhance search capabilities and to gamer meaning and assess relevance so as to help answer questions, realize new opportunities, and solve current problems [1].

At present, only the first steps are being made to develop structures for representing and using knowledge about the processes that need to provide a flexible response and the current situation, with both in its assessment and in prediction to select the best continuation scenario [2].

The KM framework consist of next elements (figure 1):

1. Formation by analysts goals to achieve sustainable development, specification of the regional level.

2. Identifying tasks that must be done to achieve the goal: tasks are formed on the basis of knowledge about the area of research and knowledge about the processes.

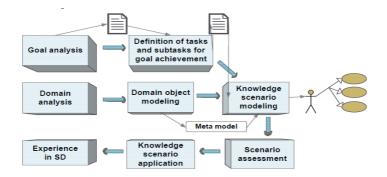


Fig 1. Knowledge management framework in sustainable development achievement

3. Analysis of domain formation and domain object model description. Description of Domain- it is the stage where domain object model is being constructed.

4. Simulation of analytical activity scenarios analytical based on constructed domain object model and study ways to achieve sustainable development, using the accumulated experience in solving similar problems in other countries. Scenario modeling goal is to inspect the behavior of a complex system (i.e., the enterprise, economic and ecologic system and region) under some given hypotheses called scenarios. Analytical activity consists of regular collection and processing of information that can be used to support decision making and to study and investigate objects and processes features. Analytical activity scenarios specify the order of analytical activity implementation with the aim of getting necessary information for sufficient decision-making.

5. Assessment of Knowledge is an important step, but poorly explored. At this stage the accuracy of the knowledge and expertise match stated objectives and available resources. If the search produced several similar knowledge is necessary to determine what are the most adequate for the specified conditions.

6. Application of knowledge is performed at the state / regional administration.

7. Knowledge applied to meet the objectives and goals are experience and can be used in the future.

The next step is to examine the objectives of knowledge management and its structure and determine the nature and structure of knowledge with respect to the level of achievement of sustainable development.

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