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## Економіка для екології

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## SCENARIO ANALYSIS MODEL OF ECONOMIC SECURITY COMPONENTS

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Tendencies of recent years have shown that economic security is the most important part of the sustainable development of nations and the world in general. That is why the forefront every state puts improves their economic situation, their international resource dependencies and explores new methods of management economic situation.

Components of economic security.

The term "economic security" can be interpreted in different ways:

- A set of measures taken by subjects to ensure the sustainability of facilities (economy of the state). In this case, economic security - the state created conditions that ensure preventing irreparable damage from internal and external economic threats;
- In the second case, security a condition of the object protection which differs dynamic stability and timely Possibility of influence on course of events in order to maintain this facility.

The economic security of the country is divided into a number of areas. Let us consider the most important of them:

- Demographic security;
- Military security;
- Energy security;
- Financial and monetary security;
- Scientific and intellectual security.

For today the current issues is to analyze the components of economic security with the use of information analytical systems (IAS), including advanced analytics [1].

In IAS apply model-driven approach. For IAS with advanced analytics model contains its model scenario looks:

$$Sc = \bigcup_{i} \{ El_i, Ex_i, F^{El}(null \mid Ob_1, ...Ob_n) \mid i = \overline{1, N}; j = \overline{1, N}; i \neq j \}$$

where  $El_i$  - element of scenario analysis information that can be action, event or link;

 $Ex_i$  - performer of scenario element that can be a business analyst, data analyst, expert, worker of organization and process;

 $F^{El}(null \mid Ob_1,...Ob_n)$  - function of k task of information analysis, which can take input the meaning of the subject area or empty value.

To construct scenario tools that have the following features was developed:

- Construction and saving of scenario models;
- Execution of the scenario and getting the result of the constructed model;

Using of these tools a scenario model of GDP calculation (fig. 1) was build, as this index is one of the most important indicators of economic security.

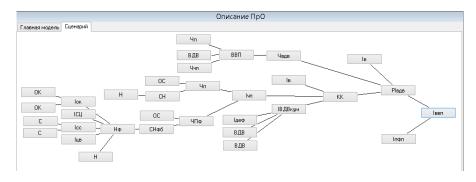


Figure 1 – Scenario model of GDP calculation

#### **References:**

1. Magic Quadrant for Business Intelligence and Analytics Platforms. — 2013, © Gartner Analytic.