ASSESSMENT AND QUALITY MANAGEMENT OF DYNAMIC CIRCUIT FLOWS AS A CONDITION OF ENTERPRISE SAFETY

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Abstract: State standard R ISO 22301-2014 establishes the requirements for an effective business continuity management system to protect against incidents, reduce the possibility of their implementation, prepare response, and recover from incidents that threaten the economic and information security of the enterprise. The activities can be described through the interaction of dynamic circuit flows (information, financial, material, energy, and staff). It is legitimate to use qualimetric measurements to optimize it and reduce the risk of incidents.

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The Business Continuity Management System (BCMS) is a part of the organization's overall management system, which includes organizational structure, policies, activity planning, responsibility allocation, procedures, processes, and resources.

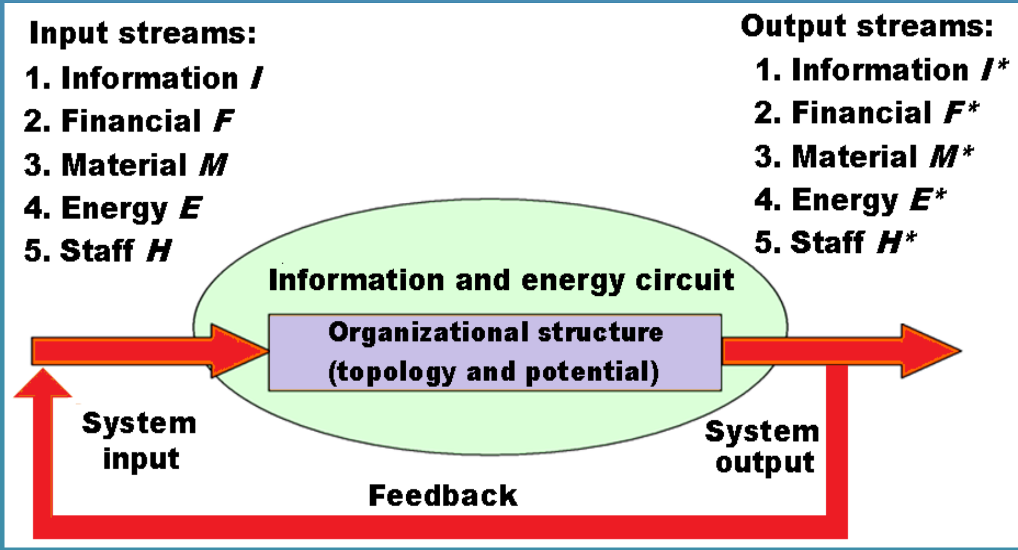
An effective BCMS should take into account the influence of uncertainty and risk factors in the occurrence of incidents and ensure the continuity of business operations and the implementation of business processes during the incidents and breaches caused by them.

It is necessary to understand what organizational and resource conditions are necessary and sufficient to ensure the activities of the enterprise at a certain (desired) level of its productivity and efficiency, which can be a set of target values of key parameters, correspond to the needs of the organization.

There is always a certain organizational structure of an enterprise, during the operation of which with certain probability there are incidents that violate the main business processes and negatively affect the productivity and efficiency of its activities.

To increase the productivity and efficiency of management within the framework of a systematic approach, it is required to use scientific methods. For complex socio-economic systems, management issues are still not well developed, and technical and industrial-technical systems are known and widely used. In other words, the number of possible options for organizational structures is infinite, but only those that have a well-defined configuration (adjusted for each specific case) are viable.

Organizational structures of similar types have similar concepts. Within specific enterprises, they differ only in potentials and topology, i.e. location in space and the connections between their elements. These relations can be described as a system of dynamic circuit flows that reflect the real business processes of the organization.



1. The application of the concept of “qualimetric measurement” in the theory and practice of qualimetry as one of the types of measurements allows for a comprehensive combination of the methodology of qualimetry and metrology, which has powerful scientific, practical, and regulatory tools that allow research in any field of knowledge.

2. The use of a virtual measure of product quality, formed on the basis of a basic quality profile, allows fully implementing the procedure of qualimetric measurements and determining the measurement result: quality level of the product under study.

3. The use of the trimodal model of multidimensional scaling allows taking into account the presence of a statistical relation (correlation) between the individual assessed quality indicators of the investigated products and thereby increasing the accuracy of determining the level of product quality.

Thank you for your attention!