NECESSITY OF IMPLEMENTATION SYSTEM ELECTRONIC DOCUMENT CIRCULATION IN ECOLOGICAL ACTIVITIES

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Ukraine and different foreign institutions have been paying much attention to development of information technologies in recent time. This is evidenced by preparation of the "Electronic Ukraine" project by our government, adoption of the decision to grant USD 5 millions for financing the "Ukraine – Development Through Internet" project by the Board of the World Bank, and numerous grants from foreign non-profit organizations for implementation of IT projects[1].

Already in 1998, the National Informatization Program was adopted, in which it is stated: "Now the development of world's economy is significantly influenced by the infrormatization process, which not just rebuilds the economy, but also accelerates its growth and determines the social transformation of the society. Education and personal information security have gained significant social importance; information and knowledge have become key factors of production, and the sphere of IT and communications has become and important instrument providing the states with the opportunity to prevent finding themselves driven outside of the social progress track"[2].

Ukraine, as a Party to the Aarhaus Convention "On Access to Information, Public Participation in Decision-Making and Acess to Justice Regarding Evironmental Matters", has undertaken relevant obligations before the international community. In order to secure the effective performance of such obligations, it is necessary, in particular, to develop the means of electronic access to the environmental information. The informatization of ecological issues and use of natural resources requires the creation of informational resources and intellectual information technologies for modeling and forecasting the ecological state of territories, environmental pollution and other consequences of the impact of technology and natural disasters, as well as for optimal use of natural resources[2].

Electronic document circulation has an important role in informatization of environmental issues.

Electronic document circulation include: creation documents, processing documents, transmission documents, saving documents, display of the information which circulates in the organisation.

The throughout automated control of documents at all stages of work dramatically increases the quality of performers' work, makes the time needed for documents processing more predictable and manageable. The shared use of electronic document processing systems and data storages allows systemizing and consolidating information, which simplifies analysis of the information and preparation of reports. More effective decisions and actions based on relevant technologies for obtaining information from data may be used for search of concealed regularities in large data arrays. All that is possible only in a management system built on the basis of fully electronic document circulation.

The world's electronic document circulation systems' market has been developing for over 20 years. It is very fragmented because both world-wide known multy-sector IT corporations, as well as relatively little known (or known only in its market sector) companies, are present at this market.

The most popular systems of the Electronic Document Circulation are "Справа" (produced by company "Електронні офісні системи"), DocsVision 2.0 "Архів-Діловодство" (produced by company "Digital Design"), OPTiMA-WorkFlow (produced by company "OPTiMA"), Documentum 4i (produced by company "Documentum"), Lotus Notes (produced by company "Lotus").

According to different estimations, at present there several hundreds applications existing in the world which may be classified as Electronic Document Circulation software, which differ both by their functions and by implemented technological solutions, and are used almost everywhere. Such wide spread of Electronic Document Circulation evidence their efficiency and significance and once again proves the necessity of implementation of Electronic Document Circulation in environmental organizations, which will improve the productivity of their personnel by 20-25% [3].

Today in Ukraine there is already existing number of laws defining baseline organizational („About electronic documents and electronic document circulation", „About the electronic digital signature", „About the National program of infrormatization", „ About national system of confidential communication") and legal grounds of electronic documents' circulation and use[4].

But, it should be mentioned that despite of the fact that the term "document circulation" is used in the description of almost every information system and of the existence of a variety of systems for recording facts and Electronic Document Circulation's in different sectors of national economy, today no wide implementation of Electronic Document Circulation in environmental protection authorities may be observed in Ukraine.

It should be realized that Electronic Document Circulation is the very solution providing for the opportunity to significantly improve the work of state environmental protection inspections and departments which are responsible for exercising ecological supervision and assessment.

References

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