

To search for all and get them together: GIS for Lipetsk Region

A geoinformation system will be developed in Lipetsk Region, uniting general plans of all settlements of the region. It is to be created within the frames of the target program of town planning documentation compiling about the region and its settlements over the period of 2005-2009. It should be noted that such systems are currently introduced in many regions, though they differ a lot in their functions, destination and technical solutions.

We would like to stress that the interest to such geoinformation systems is connected with the requirement to process an increased volume of data flow, especially in large cities and intensively developing regions. The systems enable to more efficiently resolve issues, related to region planning, land use control, taxation, etc. Introduction of geoinformation systems is of interest not only to large cities administrations, but to the management of relatively small municipal entities as well. Regional geoportals of the town of Volgograd and Volgograd Region can be used as an example, as well as a number of projects of Yekaterinburg administration and many more.

As there are quite a lot of projects, there are also plenty of technical solutions. There are solutions based on the ArcGIS and ArcGIS Server functionality and there are projects based on MapInfo. “Triaterra” system of the **ScanEx RDC**, including GIS Mappl, proved to be quite efficient, same as the ISAD (Environment for Informatization of Administrative and Business Tasks) document exchange system. Besides, quite a large number of own makes are used. All the projects of this type can be divided into two big groups – those based on Web-technology and those using “desktop” applications. The first ones have an advantage of providing access to spatial information and to databases of a large number of users, including “rank-and-file” citizens, the second ones as a rule function in local area networks of different agencies and organizations and are used to ensure confidential data safety.

“Such projects are of great demand” – said the leading specialist of RS data thematic processing of **ScanEx Sergei Mikhailov**. “This partially had to do with the “2010 Problem”. Based on the introduction of Triaterra-like systems they may resolve issues related to land taxes and real-estate, reduce utility services costs due to better performance, control the condition of limited land use areas, etc. In other words, the understanding of the fact that GIS and spatial data can provide a benefit due to an increase in tax imposition and services planning optimization has already taken shape”.

There are no standards in this issue yet and none are to be expected in the nearest future, though the spatial data and services standardization issue has been quite topical lately. In particular, GIS-association has been actively working in this direction. Nonetheless, different organizations have already processed large volumes of data and found proper technical solutions for their tasks. Therefore, it should take quite a lot of time, even due to purely technological reasons, before all this will start to take shape.

Sources: Internet-portal MSKIT.ru (<http://www.mskit.ru/news/n68980/>)