



# URBAN GROWTH

## MOSCOW CADASTRE BALANCES URBAN REVITALIZATION WITH SOCIAL AND POLITICAL SERVICES

Political and economic transformations in Russia have led to increases in both public and private initiatives aimed at urban redevelopment. The city of Moscow determined that its first step toward effective urban revitalization should be the creation and maintenance of an accurate city base map. This map would serve as the basis for urban planning activities, economic growth plans, and the public information portal.

The cadastral map would document information about land plots and parcels, including the buildings and structures located on them. In addition, it would catalog ongoing urban and architectural projects, the value of urban lands and their condition and use, and any environmental restrictions that might affect growth or development plans. In creating its urban cadastre, the city needed to coordinate information from various organizations and departments. In operation, the system would have to collect and regularly update more than 40 types of information from multiple sources.

The finished project — the Moscow State Urban Cadastre — is a computerized information system based on Bentley software. The Urban Cadastre Service, which is part of the Committee for Architecture and Town Planning of the City of Moscow, provides government bodies, investors, building organizations, private developers, and city residents with all the planning information they need in a single cadastral report. The reports are available in both hardcopy and electronic form.

The city uses the new Urban Cadastre as the basis for all of its planning decisions. This helps it avoid some of the most costly and irretrievable mistakes in city development — errors and omissions in

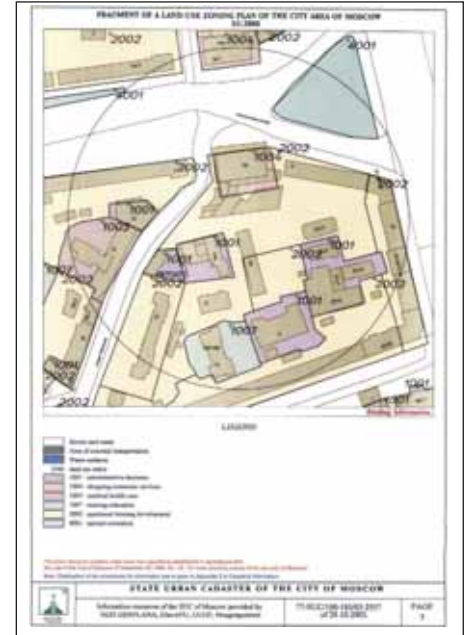
urban planning. The Urban Cadastre also helps the city budget its resources efficiently and effectively, and concentrate them where the need is most critical.

Better planning decisions are now being made regarding housing quality improvement, development of the engineering and transportation infrastructure, environmental conservation projects, and the preservation of the historic city image with its unique landscape. The improved procedures and availability of critical decision-making information have helped promote increased public awareness and a better understanding of plans and actions proposed by the authorities to aid in further city development activities.

### Key benefits

Without question, one of the key benefits of the new system is information access and dissemination. Said Project Manager Nikolai Zakharevich, "Use of Bentley technology has allowed us to more quickly and efficiently prepare cadastral reports and to raise the quality of the information they contain." Bentley technology enables a cadastral report to be prepared for any applicant in two hours, rather than in days, which was the case prior to system implementation. In addition, applicants and others, including some 14,000 government users, can access cadastral information on the Internet, further speeding the process.

The widespread availability of rich data that the new system provides has changed the way the city of Moscow performs critical planning and development activities. For example, it has enabled improved coopera-



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tion between the state and private development enterprises. While developers pay a fee for access to the critical mapping information, the state also provides critical funding for the information management mechanism. In this way, the system is not merely a commercial initiative, but also a cooperative that yields both economic and social benefits.

The new system has also made it easier for Moscow to review and make intelligent decisions when faced with differing growth plans. The city can now analyze the environ-

mental and cultural impact of each proposed plan prior to making a decision, helping ensure that urban growth can proceed in an orderly and beneficial fashion.

**Project**

Moscow State Urban Cadastre

**Organization**

Moscow Urban Cadastre Service (ITC MKA, GlavAPU)

Fragment of land-use zoning plan of the city area of Moscow.

**BE Awards Category**

Geospatial Mapping and Cadastre

**Project Objective**

Ensure timely provision of accurate cadastral information to government bodies, investors, building organizations, private developers, and city residents

Article submitted by Bentley. More Information: [www.bentley.com](http://www.bentley.com)

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