



XXVII FIG CONGRESS

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Digital transformation of public land administration services in Federation of Bosnia and Herzegovina

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INTRODUCTION AND BACKGROUND

- Joint efforts of FGA and other spatial data holders, with the support of various carefully coordinated projects is leading to significant progress in the area of public service provision.
- FGA is the central authority of Federation of Bosnia and Herzegovina (FBH) responsible for administrative and professional tasks in several areas
- Organization of geodetic affairs within FBH is decentralized – top-level decision making processes are dispersed throughout the Federation.
- Regardless of the decentralised framework, the dedicated work on the establishment of accurate and up to date spatial data registers has attracted many stakeholders enabling continuous activities on data integration and interoperability.
- Continued evidence of the digital transformation in the Federation of Bosnia and Herzegovina



CHANGE DRIVERS

- The vision: Availability of digital data to all in order to enable unhindered access to data and data distribution; data accuracy and data quality in the sense of their sustained maintenance and timeliness; and compatibility and consistency of the data maintained and provided by different authorities.
- The advancements in IT and technology that are changing business and society, disrupting old business models and creating rules
- Key business goals: Availability of data provided by the land administration institutions, land registry and real estate/cadastral and variety of other spatial data and services to a wide range of stakeholders
- Due to the sensitivity of data, the distribution of data and services must comply with the legal regulations relating to the protection of personal privacy data as well as all other relevant laws and regulations.

CHANGE SUPPORT

- Federation of Bosnia and Herzegovina recognizes the activities of the Land administration sector as an important goal that can significantly contribute to the digital transformation goals, the European Union accession efforts and consequently to overall economic and social development and growth.
- The change process has been significantly also supported by several key external influences:
 - The World Bank;
 - Sida (the Swedish International Development Cooperation Agency);
 - Norway
 - Netherlands
 - EU authorities



DIGITAL TRANSFORMATION PROGRESS OVERVIEW

results

- Results in creating a favorable business and investment climate have been achieved despite the fact that the Federation of BiH has a complex dual land administration.
- Land registers for the entire FBH have been digitized - Land Registration Project; 1,030,000 land registry records at the end of 2011.
- More than 1,3 million owners and co-owners have so far registered their real estate within the RERP project and protected their rights to it, which has improved the preconditions for secure legal real estate transactions and the development of the overall economy.
- LR and cadastre software have been introduced which has enabled transparency, reduced the possibility of corruption, enabled statistical analysis and monitoring the efficiency of all cadastre services and all land registry offices in FBH.
- Online availability of cadastral data from the Real Estate Cadastre Database provided.
- E-services provided annually record multi-million figures, which significantly proves the the interest and need of citizens, legal entities and institutions.

DIGITAL TRANSFORMATION PROGRESS OVERVIEW

- The interoperability of the cadastral and LR information system is ensured, then the interoperability of the cadastral information system with the systems of the Digital Archive, Address Register and IDDEEA, and the interoperability of the land registry information system with the systems of the Address Register and IDDEEA.
- 59 land registry and cadastral offices are renovated and equipped for improved working environment and work organization, greatly reduced the possibility of corruption and significantly improved citizens' perception and confidence in land registry and cadastre.
- More than 58% of land registry entries are based on the new cadastral survey (the total number of all land registry entries in the electronically kept land registry of the FBH is 2.03 million). For the sake of comparison, it is illustrative to say that at the end of 2007, that percentage was only 13%!
- The total number of plots in the Federation of BiH in vector form is 4.2 million, which is more than 75% of the total number of plots in RECDB.

DIGITAL TRANSFORMATION PROGRESS OVERVIEW

- Excellent cooperation of FGA and Tax Administration of the Federation of Bosnia and Herzegovina during the realization of the CILAP project resulted in a functional and up-to-date Sales Price Register of the FBH and by development of a public presentation of SPR data (Public Access).
- With the CILAP project support, the application for establishment, management and maintenance of address register has become fully operational and ready for use in FBH municipalities
- Data on addresses in the FBH is available to all citizens through the FGA geoportal and FBH Geoportal of Spatial Data Infrastructure. Currently, the FGA has signed agreements on distribution of AR data with forty five municipalities, data have been prepared for 30 municipalities.
- Geodetic infrastructure improvements end ETRS system in use to great extent.

DIGITAL TRANSFORMATION PROGRESS OVERVIEW

- Data harmonization according to INSPIRE standard for 12 datasets is completed.
- GIS Browser of the SDI Geoportal of FBH was published with the support of the Government of the Federation of BiH.
- The GIS Browser, together with the Catalog of Metadata, the Register of IPP Sources and Subjects as well as the SDI website, form one unit that represents the SDI Geoportal of the FBH.
- 54 SDI subjects and 109 data sources have been registered in the SDI Registers.
- All applications are accessed centrally through the official website of the SDI FBH: <https://ippfbih.gov.ba/>.

CONCLUSIONS

- FBH headed by its Government recognizes the activities of the Land administration sector as an important goal that can significantly contribute to the digital transformation goals.
- Joint efforts of geodetic authority and other spatial data holders, with the support of various carefully coordinated projects is leading to the fulfilment of ultimate goals and facilitation of public service provision.
- Data and metadata standards, procedures, and policies are used to promote coordination among data in the Federation of Bosnia and Herzegovina.
- Continued evidence of the digital transformation in the FBH is the increased exchange of data via web services with different authorities and local governments that raises the efficiency of work in land administration and laying the foundations for e-government for user benefits.
- There are limitations in the existing legal framework for the full operationalization of the interoperability, which will require further analysis and initiation of the procedures for amending the legal framework necessary for the implementation of the interoperability objectives.



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