

# **Building Register Development in Federation of Bosnia and Herzegovina: Advancing Land Administration and Climate-Resilient Urban Governance through the GIVE Project**

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## **SUMMARY**

The Geospatial Infrastructure and Valuation Enhancement Project (GIVE) in the Federation of Bosnia and Herzegovina, supported by the World Bank, represents a transformative effort to strengthen spatial data infrastructures and improve land governance. Within this framework, Component B – Building Register Development aims to establish a comprehensive, interoperable, and sustainable register of buildings and building parts across the Federation of Bosnia and Herzegovina (FBiH).

This initiative introduces a harmonized methodology for data collection, processing, and quality control, combining aerial orthophotos, LiDAR-derived 3D representations, and field verification through mobile applications. The resulting geospatial database will be fully interoperable with cadastral, spatial planning, and infrastructure datasets, forming a key building block of the Spatial Data Infrastructure in the Federation of Bosnia and Herzegovina.

Beyond technical innovation, the Building Register plays a strategic role in climate change adaptation and disaster risk management, supporting evidence-based decision-making for ministries, local governments, and emergency agencies. By integrating data on building attributes, location, and condition, the system enables vulnerability assessment, supports resilience planning, and contributes directly to achieving SDG 11 (Sustainable Cities and Communities) and SDG 13 (Climate Action).

Initial rollout is planned for 40 local self-government units (LSGUs), with full coverage of all 79 LSGUs envisaged post-project. The approach emphasizes data quality assurance, capacity building, and public communication, ensuring transparency, inclusiveness, and long-term institutional

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sustainability.

This paper presents the conceptual design, implementation roadmap, and early outcomes of the Building Register Development component. It highlights how the GIVE Project positions Bosnia and Herzegovina among the European leaders adopting fit-for-purpose, climate-informed land administration systems, providing an example of how modern geospatial solutions can drive sustainable development “beyond 2030.”

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