



ERSA2025 Congress

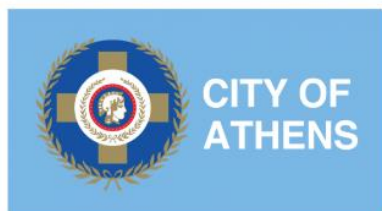
Abstract book

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Innovative geospatial accessibility KPIs for assessing regional infrastructure endowment

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S90-S1 Transport Policies Shaping Sustainable Cities and Territories, Amphitheater II - SAKIS
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Accessibility is a key-factor for regional socio-economic development, as supported by numerous studies and international initiatives linking regional connectivity to economic performance. Nevertheless, inconsistencies in data availability, standardization, and collection may hamper transferable and comprehensive assessments. This study addresses these gaps by defining innovative geospatial accessibility KPIs to evaluate regional infrastructure endowment and its impacts on socio-economic development, focusing on Italy's NUTS-3 regions. By implementing a hybrid approach, present research integrates infrastructure-based and activity-based measures, thus creating a geodatabase that combines socio-economic, geographical and infrastructural data. Similar database supports advanced spatial queries and geostatistical modelling, thus enabling regional economic assessments. Research questions target the dependency of economic growth rates on connectivity or percolation indexes and the correlation between infrastructure-based accessibility and regional economic structures. Expected outcomes aim to improve regional data maintenance systems and provide insights concerning how infrastructures influence economic growth and specialization. Study findings will contribute to the design of more detailed and targeted economic policies and planning, addressing the limitations of current methodologies and providing a more comprehensive evaluation of regional infrastructural assets and their impacts on economic development and specialization.