



Data Exploitation with UrbanTEP for SDG Indicator Assessment and Monitoring



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10AM – 1PM (CET)

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The **Urban Thematic Exploitation Platform (UrbanTEP)** represents an innovative and comprehensive system designed to address the complex challenges of urban development and monitoring using Earth observation data. At its core, UrbanTEP is a state-of-the-art platform that harnesses the power of satellite data, analytics, and advanced technologies to provide a specialized toolkit for urban planning, management, and decision-making.

Objective of the training

The event will demonstrate the capabilities of EO-based products for Sustainable Development Goals (SDG) monitoring, and the functionalities of the UrbanTEP platform to fully exploit the datasets relevant in SDG context. Exemplary, the SDG 11 indicator processing and visualization will be introduced to the participants using World Settlement Footprint (WSF) suite data and other UTEP services.

Agenda

- Intro to UrbanTEP and objectives of the training
- World Settlement Footprint suite
- Algorithms and Processing infrastructure
- VISAT analytical tool
- Euro Data Cube (EDC) City Cubes



<https://urban-tep.eu>



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Key Elements of UrbanTEP:

- 1. Data Integration and Analysis:** UrbanTEP aggregates diverse Earth observation data, including satellite imagery, aerial photography, and various sensor data. This rich and comprehensive data pool is processed and analyzed to derive meaningful insights into urban landscapes, infrastructure, and changes over time.
- 2. Specialized Tools and Applications:** The platform offers a suite of specialized tools and applications tailored for urban monitoring. These tools enable users to perform detailed analysis, such as land use classification, urban growth mapping, infrastructure monitoring, and environmental impact assessment.
- 3. User-Friendly Interface and Access:** UrbanTEP provides a user-friendly interface, making complex data and analysis accessible to a wide range of users, including urban planners, policymakers, researchers, and developers. Its intuitive design allows for efficient navigation and utilization of its functionalities.
- 4. Collaborative Environment:** The platform fosters a collaborative environment where stakeholders, researchers, and experts can interact, share insights, and collaborate on urban development projects. It encourages cooperation and knowledge exchange within the urban development community.
- 5. Customization and Scalability:** UrbanTEP allows for customization and scalability, catering to specific urban development needs across different regions and scenarios. Its adaptability supports varied applications and requirements within the diverse landscape of urban environments.

Purpose and Impact:

UrbanTEP aims to revolutionize the way urban areas are observed, understood, and managed. By providing a comprehensive suite of tools and data, it contributes to more informed decision-making in urban planning, infrastructure development, resource management, and disaster risk reduction. Its impact extends to sustainable urban growth, improved resilience, and the overall well-being of urban populations.

In summary, UrbanTEP stands as an invaluable resource, combining cutting-edge technology with Earth observation data to empower stakeholders, researchers, and decision-makers in their pursuit of more efficient, sustainable, and resilient urban environments.