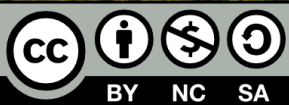




**POLITECNICO**  
MILANO 1863

**URBAN GEOmatics for Bulk Information Generation,  
Data Assessment and Technology Awareness**

**POLIMI ACTIVITIES**



# POLIMI ACTIVITIES

## WP1 (Requirements analysis)

- **Role:** responsibility (with CNR)
- **Objective:** identification of the most important priorities and issues related to the mobility and soil consumption topics, on the basis of the state-of-the-art literature.
- **Expected target:** detailed list of the geospatial data and their features, which have to be considered in the SDI

## WP2 (Data model)

- **Role:** participant (with all)
- **Objective:** development and tuning of the data model
- **Expected target:** achieve an effective, efficient and comprehensive model for all the data considered within the SDI





# POLIMI ACTIVITIES

## WP3 (Architecture design and implementation)

- WP3.1 (server side)
  - **Role:** participant (with UNIPD)
  - **Objective:** implementation of a distributed, acentric and interoperable SDI, able to manage and share the data at federated servers nodes based at different RUs
- WP3.2 (client side)
  - **Role:** responsibility
  - **Objective:** designing and implementing: I) a customizable and interactive platform for the multidimensional visualization and basic processing of the geospatial data; ii) a collaborative platform for the management and cross-validation of VGI data
- **WP3 Expected target:** design and implementation of the SDI, by means of FOS (Free and Open Source) technologies compliant with OGC standard web services



# POLIMI ACTIVITIES

## WP4: Data collection, processing and validation

- WP4.5 (Location tracks + IoT)
  - **Role:** participant
  - **Objective:** widen what is now possible within OpenStreetMap to positions, navigation tracks, location tags collected outdoors and indoors with all the available sensors and signals of-opportunity, through apps installed on smartphones and tablets
- WP4.6 (User-generated data)
  - **Role:** responsibility
  - **Objective:** design and implementation of new applications to collect missing information required by domain experts. Investigations about the potential optimized contribution and reuse of social media and the open issues related to the ownership and privacy of the data



# POLIMI ACTIVITIES

## WP4: Data collection, processing and validation

- WP4.7 (Telecommunication data)
  - **Role:** participant
  - **Objective:** investigations about data acquired by network cells once in connection with portable devices (number of connected devices and connection duration, calls/sms in and calls/sms out and Tweets)
- **WP4 Expected target:** acquisition, processing and quality representation of different kinds of geospatial data; designing and implementing within the SDI of a discovery facility for selecting geospatial data



# POLIMI ACTIVITIES

## WP5 (Testing)

- **Role:** participant (with all)
- **Objective:** test all the tools of the implemented SDI
- **Expected target:** detailed list both of the fully operational tools / functionalities and of the encountered problems

## WP6 (Functionalities)

- **Role:** participant
- **Objective:** application of the functionalities for the topics of interest
- **Expected target:** establish best practice cases for mobility and soil consumption

