

URD_7

Title of the doctoral program

Urban and regional development

Title of the research activity

Methods and Procedures to Generate 3D GIS for Smart City: Security and Safety.

Short description of the research activity

The research is focused on the realization of a 3D GIS about urban and suburban area, especially devoted to Smart city planning, adopting innovative and smart technologies . The aims will be the data integration and how to generate the digital surface model of the city, creating a coherent logical and conceptual model, based on INSPIRE directive.

The urban planning will be analyzed on the safety and security point of views, especially about the smart mobility and the safety in case of natural risk.

Scientific responsible (name, surname, role, email)

Marco Piras, Assistant Professor, marco.piras@polito.it

Number of vacancies for XXXI cycle (3 years program)

1

Specific requirements (experiences, skills)

To have already worked with GIS platform and to know the basic element of photogrammetry. GIS, Photogrammetry, image analysis, Cartography, mapping, Open Source system, Positioning, Elements of Geomatics.

Website of the research group (if any)

http://areweb.polito.it/geomatics_lab/index%20EN.html