

# CIVIL AND ENVIRONMENTAL ENGINEERING

## BIM-GIS and VR for a "policy making" methodology

<b>Funded By</b>	Ministero dell'Università e della Ricerca - MUR [P.iva/CF:96446770586]
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<b>Context of the research activity</b>	Promote the digital transition of the Public Administration using VR to visualize in an immersive way different scenario deriving from BIM and GIS interoperability data management about existing infrastructural assets in order to support strategic decision making.
<b>Objectives</b>	The research project aims to develop a "policy making" methodology relating to intervention strategies on existing infrastructural assets using GIS and BIM tools in an interoperable and scalable way from the general (territorial area) to the particular (work of art ) and vice versa, favoring the digital transition of the Public Administration. Starting from a real, illustrative and replicable case study, models will be developed to be used in immersive Virtual Reality for the training of manager, also in terms of organizational psychology. By virtually comparing different scenarios, it will be possible to facilitate real decisions for the resolution of infrastructure and territory management and maintenance problems starting from the identification of a hierarchy of solutions.
<b>Skills and competencies</b>	Ability to manage Big Data and Tools for VR, integrating technical data and

**competencies  
for the  
development of  
the activity**

psychological reactions from users under stress.