

3D-IMP-ACT

VIRTUAL REALITY AND **3D** EXPERIENCES TO **IMPROVE** TERRITORIAL **ATTRACTIVENESS**,
CULTURAL HERITAGE, SMART MANAGEMENT AND **TOURISTIC DEVELOPMENT**



OUTPUT T.1.2

Photorealistic 3D documentation of
representative pilot-cases by innovative
technologies (UAVs)



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The on-site acquisition (measures, videos, photos, 360° panoramas, etc.) has helped develop the following products:

- ❖ **Video acquisition by UAVs**, in order to collect information about the pilot cases and to show to the users specific areas or components of the architecture/settlement not directly visible or accessible by direct visit.
- ❖ **3D models (dense point clouds, meshes and textured models)**, reconstructed by photo-modelling techniques of architectural elements and components of the pilot cases.

The video acquisitions regarded the following sites:

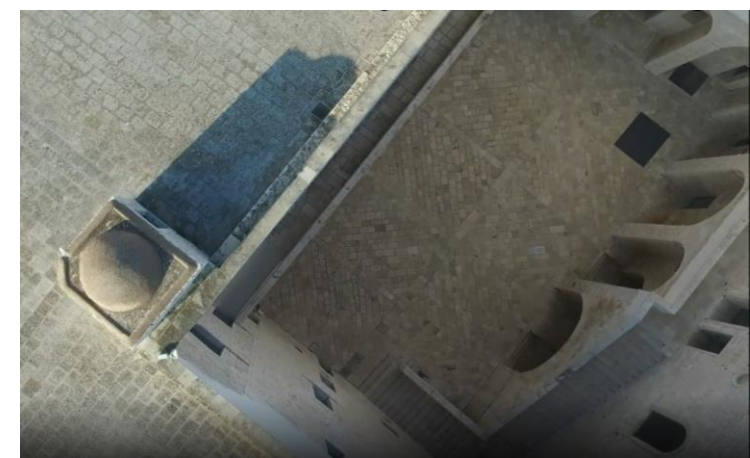
- Archaeological site of Egnatia (Italy);
- Castle of Trani (Italy);
- Castle of Bashtova (Albania);
- Archaeological site of Apollonia (Albania).

The 3D models processed are 22:

- n. 5 for the Castle of Trani
- n. 5 for the Castle of Bari
- n. 7 for the Castle of Gioia del Colle
- n. 3 for the Site of Egnatia
- n. 2 for the Site of Apollonia



Castle of Trani (Italy): image acquisition by Unmanned Aerial Vehicles (UAVs)





Castle of Trani (Italy): Photorealistic 3D model of the west façade





Archaeological site of Egnatia (Italy): image acquisition by Unmanned Aerial Vehicles (UAVs)





Archaeological site of Egnatia (Italy): image acquisition by Unmanned Aerial Vehicles (UAVs) and elaboration of the photorealistic 3D model of the Amphitheatre





Archaeological site of Egnatia (Italy): image acquisition by Unmanned Aerial Vehicles (UAVs) and elaboration of the photorealistic 3D model of the Sacellum of Attis





Archaeological site of Apollonia (Albania): image acquisition by Unmanned Aerial Vehicles (UAVs) and elaboration of the photorealistic 3D model of the Ninfeo





Archaeological site of Apollonia (Albania): image acquisition by Unmanned Aerial Vehicles (UAVs) and elaboration of the photorealistic 3D model of the Odeon

