

3D-IMP-ACT

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



OUTPUT T.3.1

Creation of a new laboratory in PUT



○ **Activity A. T3.1. Laboratory infrastructure and equipment purchase in PUT:**

The work package WPT3 of the project 3D-IMP-ACT consist in the creation of new Laboratory in Mechanical Engineering Faculty part of Polytechnic University of Tirana. This laboratory has been equipped with a diversity of electronical instruments such as digital camera + lens, 3D scanner with structured light, PC, projector, monitor, 3D printer, tablets, ect.

- The position of the new laboratory in PUT is in the -1 underground level.
 - Due to the high level of the humidity a lot of preparatory work has been done to bring the space in the apropiate conditions (Figure 1)

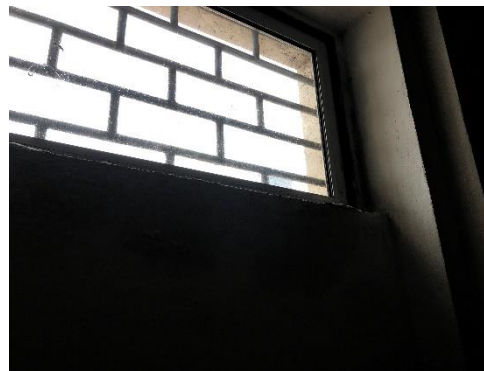


Figure 1



- **Activity A. T3.1. Laboratory infrastructure and equipment purchase in PUT:**



Establishing the PUT LAB Infrastructure



- **Activity A. T3.1. Laboratory infrastructure and equipment purchase in PUT:**

Due to the high level of Humidity a de-humidifier is working during the day to establish the working conditions.

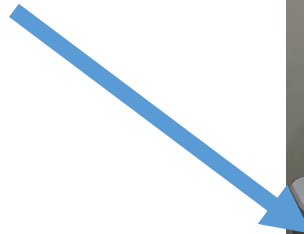


Figure 1



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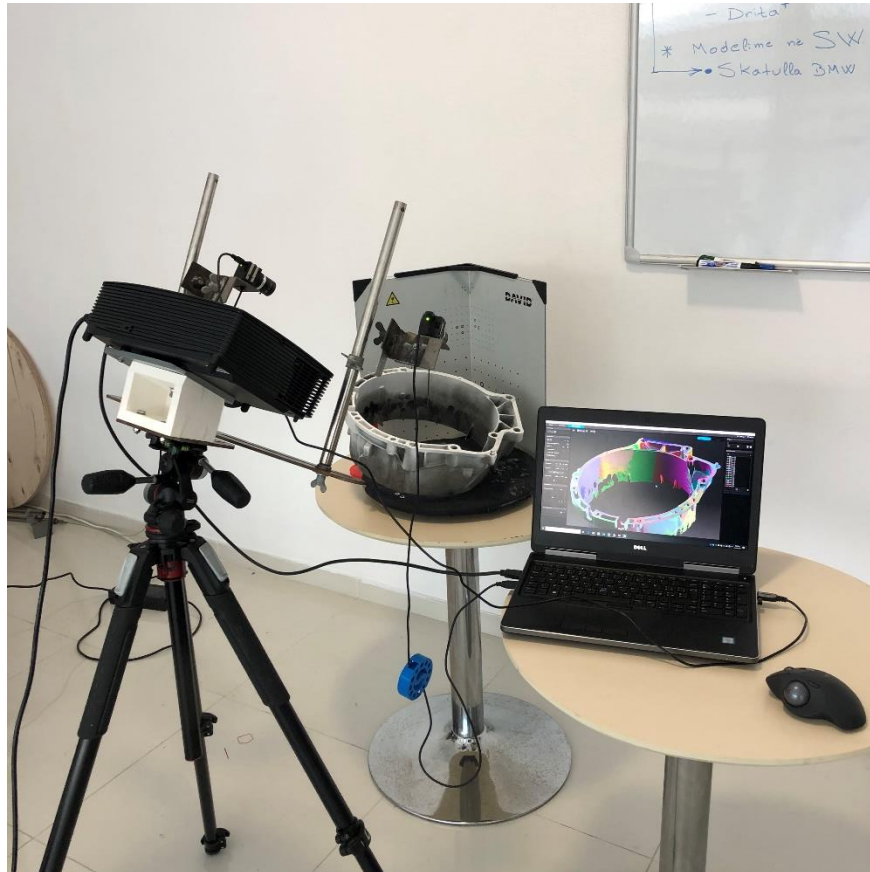
Drone Drone + Batteries kit (3 in additional)



Active SLS 3D scanner + scanning software



- **Activity A. T3.1. Laboratory infrastructure and equipment purchase in PUT:**



Machine Vision Industrial cameras

+

Lenses for Machine Vision Industrial
cameras



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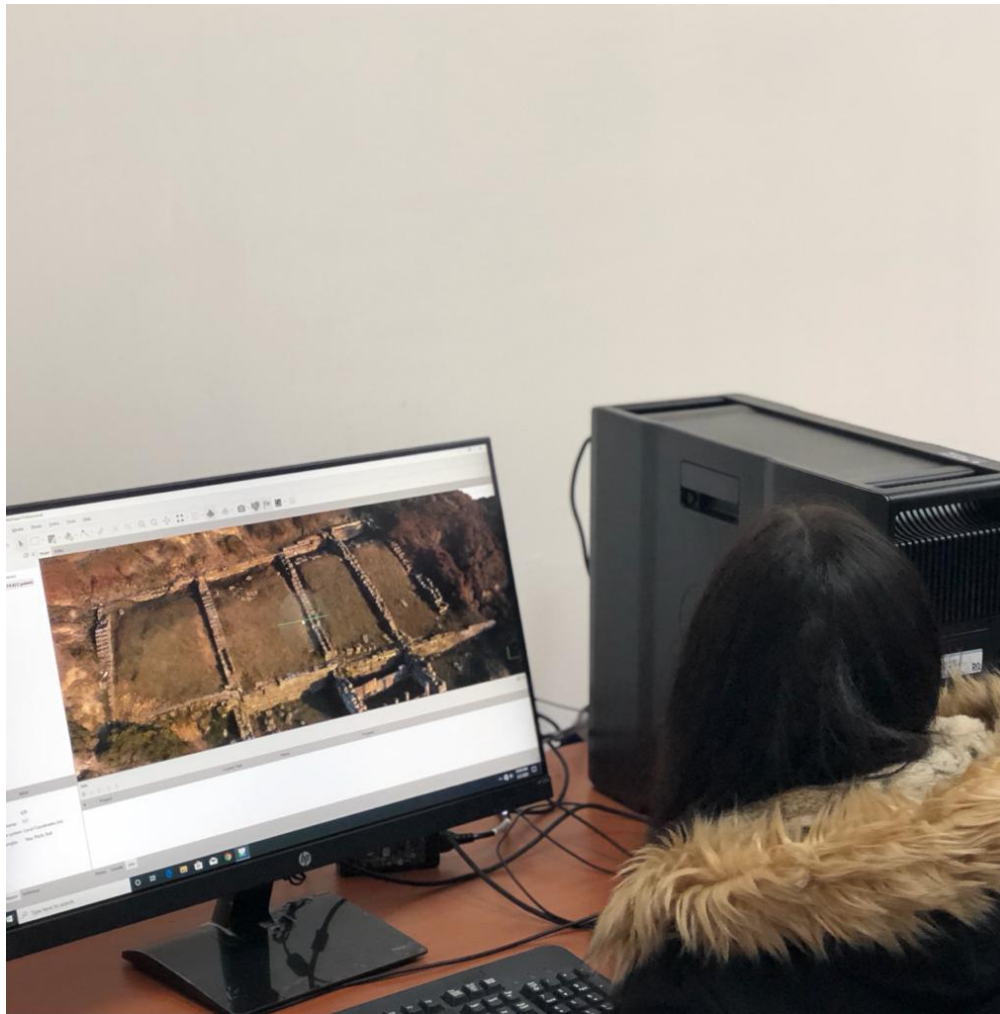
VR/AR Headset

+

VR/AR Controllers



- **Activity A. T3.1. Laboratory infrastructure and equipment purchase in PUT:**



PC workstation

+

Monitor



- **Activity A. T3.1. Laboratory infrastructure and equipment purchase in PUT:**



PC Notebooks



- **Activity A. T3.1. Laboratory infrastructure and equipment purchase in PUT:**



3D printer
+
Printing
materials
filaments PLA



- **Activity A. T3.1. Laboratory infrastructure and equipment purchase in PUT:**



Tablets



- **Activity A. T3.1. Laboratory infrastructure and equipment purchase in PUT:**



Digital SLR
Cameras
+
Digital SLR
Lenses kit
+
Tripod holder kit



- **Activity A. T3.1. Laboratory infrastructure and equipment purchase in PUT:**



Events with
students
explaining the
advanced
techniques of
3D scanning and
3D printing in
the PUT
Laboratory



○ **Activity A. T3.1. Laboratory infrastructure and equipment purchase in PUT:**



Due to the situation created by COVID-19 pandemic, and with the good will to help the medical staff engaged in the fight against this disease in Albania, Mechanical Engineering Faculty (MEF) part of Polytechnic University of Tirana, decided to make available its technological and technical assets. FACESHIELD 3D masks were delivered to Mother Teresa University Hospital Center, in Tirana



Thank you!
3D-IMP-ACT



Politecnico
di Bari



POLO
MUSEALE
DELLA PUGLIA

