ITN-DCH

www.itn-dch.eu

Initial Training Network for Digital Cultural Heritage

MATEVZ DOMAJNKO, ESR7

IMAGE PROCESSING AND 3D RECONSTRUCTION

Summary of Career-Development Plan:

- 3D photogrammetric reconstruction techniques
- parallel processing and GPU technologies
- Multi-View stereo reconstruction algorithms
- 3D digitization technologies: Laserscanning, structured-light digitization
- 3D data acquisition – 3D modelling – 3D visualization

EDUCATIONAL BACKGROUND

- University Degree in Geodesy and Geoinformation, University of Ljubljana
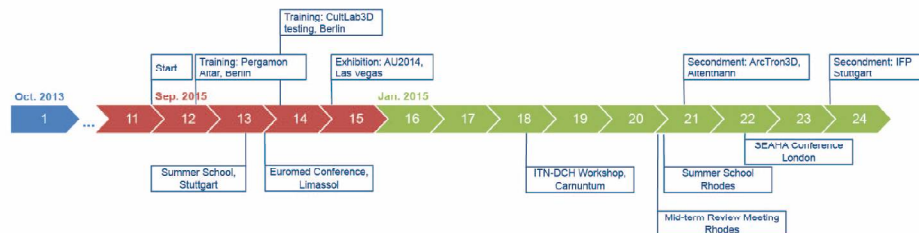- PhD student: 3D cartographic visualization

EXPERIENCES

- Project and teaching assistant
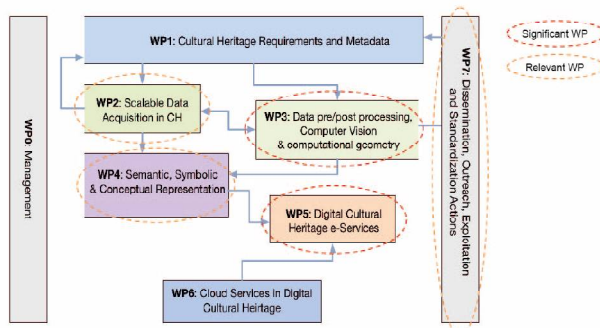- Strong background in photogrammetry, GIS and 3D landscape visualization

TRAINING ACTIVITIES

- Pergamon Museum: Laserscanning & Photogrammetric data acquisition

- CultLab3D testing: photogrammetric digitization process

- AU2014 – Exhibition: Presentation of worldwide first 3D mass digitization pipeline
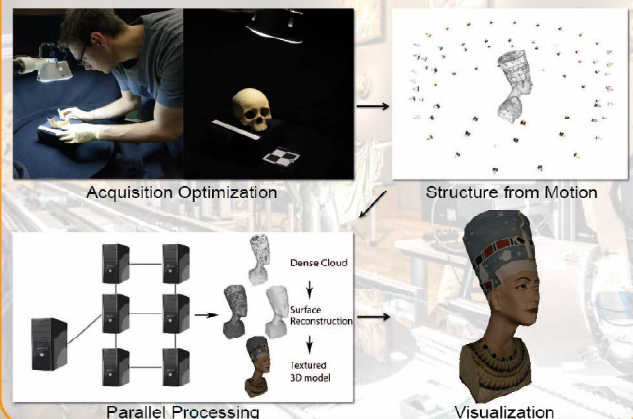
TIMELINE of ACTIVITIES
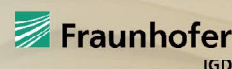

PROJECT WORK PACKAGE INVOLVEMENT

RESEARCH

Acquisition Optimization

Structure from Motion

Parallel Processing

Visualization

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Host Organization

Home Country

Host Country