

# ROME TRANSFORMED

## DATA CAPTURE, MANAGEMENT AND INTEGRATION

### Workshop

Newcastle upon Tyne, 16<sup>th</sup>-19<sup>th</sup> December 2019



This workshop is part of the Rome Transformed project that has received funding from the European Research Council (ERC) under H2020-EU.1.1., the European Union's Horizon 2020 research and innovation programme (Grant agreement No.: 835271)

<https://cordis.europa.eu/project/rcn/221968/factsheet/en>

Monday 16<sup>th</sup> December

**Project essentials (Room ARMB3.39)**

*14.30 Introduction to Rome Transformed*

- Rome Transformed: aims and objectives (10 mins, Ian Haynes)
- Rome Transformed: potentialities and new perspectives (10 mins, Paolo Liverani)
- Where to find what: codes, data sharing, the manual (10 mins, Thea Ravasi)
- Project Administration and fiscal reporting on costing (15 mins, Vic Christie)

**Data capture – Geophysics (Room ARMB3.39)**

Additional room for separate meetings: ARMB3.38 (4-6pm)

*15.30 Presentations*

- Geophysics and the Lateran Project: results, challenges, lessons learned (15 mins, Salvatore Piro)
- GPR and ERT for Rome Transformed: methodologies and challenges (15 mins, Steve Kay)

*16.00 Discussion*

- Planning and agreeing on:
  - work packages/area codes for GPR data capture
  - data management and sharing
  - permits
  - challenging spaces
  - subsidiary Work Packages (i.e. which team does what, where and with what antennae)
  - an agreed system to ensure that radar specialists look to one another work
  - GPR Interpretation (we will need to pool data and get the different radar specialists to look at one another)

*17.00 Drafting*

- Confirm each GE (geophysics) area, with information on timing, which team does what where and with what antennae, expected outputs, challenges, permits required

*19.00 Dinner @ Ottoman Turkish Restaurant, 32 Clayton St West, Newcastle, NE1 5DZ*

Tuesday 17th December

**Data capture - Environmental analysis (Room ARMB1.48)**

*9.00 Presentations*

- Environmental analysis: methods and potential issues (15 mins, Lisa Marie Shillito)
- Hydrology analysis: methods and potential issues (15 mins, Richard Dawson)
- Physical Geography: methods and potential issues (15 mins, Margherita Azzari)

*10.00 Discussion*

- Planning and agreeing on
  - work packages/area codes for environmental analysis data capture
  - data management and sharing
  - permits

*11.00 Drafting*

- Draft a document outlining a list of each EA (i.e. Environmental analysis) area, with information on timing, expected outputs, challenges, permits to require

*13.00 Lunch @ Expanded Interiors book launch. Fine Art Seminar Room (KEVII 3.28)*

**Data integration (Room ARMB1.48)**

Additional room for separate meetings: ARMB1.06 (3-6pm)

*14.00 Presentations*

- Data integration: what types of data are we dealing with in the project (10 mins, Alex Turner)
- 3D GIS methodologies and challenges (15-20 mins, Nicolò Dall'Unto, Skype presentation)
- Presentation by Mark Turner (NU Research Software Engineering team, 10 mins)

*15.00 Discussion*

- Discussion on challenges and methodology with GPR, Drone, Scans data integration
- Develop a strategy for data integration with GPR, Drone, Scans (3D GIS)

*16.30 Drafting*

- Draft a document outlining a strategy for data integration with GPR, Drone, Scans

17.30-18.00 Reserved for extended discussion

*19.00 Dinner @ Ottoman Turkish Restaurant, 32 Clayton St West, Newcastle, NE1 5DZ*

Wednesday 18th December

**Data capture – Laser scan and Structural Analysis (Room ARMB1.06)**

Additional room for separate meetings: ARMB1.05 (10am-1pm)

9.00 *Presentations*

- Archaeology of Rome Transformed (10 mins, Thea Ravasi)
- Archival resources for Structural Analysis (10 mins, Francesca Carboni)
- Database and SA (Structural Analysis) methodology (10 mins, Dave Heslop)

9.30 *Discussion*

- Planning and agreeing on:
  - work packages/area codes for SA data capture
  - data management and sharing
  - permits
  - challenging spaces (Aqueduct, Aurelian Walls)

10.30 *Drafting*

- Draft a list of each SA area, with information on timing, expected outputs, challenges, permits to require

12.00 *Lunch (Room 1.05)*

**Data capture – Drones (Room ARMB1.06)**

Additional room for separate meetings: ARMB1.28 (3-6pm)

13.00 *Presentations*

- Drones in Rome Transformed: issues and methods (15 mins, Stefano Campana, skype presentation)

13.15 *Discussion*

- Planning and agreeing on
  - work packages/area codes for drone data capture
  - data management and sharing
  - permits
  - Scans and structural analysis of overlapping buildings (Aqueduct and Aurelian walls)
  - Data integration between drone and laser scanning (ways to ensure that bits are not missed)
  - Agree a system to ensure that scan people and drone people can share data

15.30 *Drafting*

- Draft a list of each DR (i.e. drone) area, with information on timing, expected outputs, challenges, permits to require

16.30 Reserved for extended discussion/separate meetings

17.30 *Dinner @ Blackfriars Restaurant, Friars St., Newcastle. NE1 4XN*

Thursday 19th December

**Data management, 3D visualization and modelling (Room ARMB1.06)**

Additional room for separate meetings: ARMB1.05 (11am-1pm)

**9.00** *Presentations*

- Data Management Plan: issues and methods (10 mins, Graham Collins)
- SCIEDOC (15 mins, by Marc Gellert)
- 3D visualisation and modelling: programs used, filetypes required, lessons learned from Lateran project and SGL2 (15 mins, by Iwan Peverett)

**10.00** *Discussion*

- Discussion on the structure of model management to use in SCIEDOC

**11.00** *Drafting*

- Drafting the structure of model management to use in SCIEDOC
- Drafting a document with file extensions and programmes that will be used for 3D modelling

**12.00** *Lunch (room ARMB 1.05)*