ITN-DCH
www.itn-dch.eu
Initial Training Network for Digital Cultural Heritage

ELLIE STATHOPOULOU, ESR4

CULTURAL HERITAGE CONTENT DIGITIZATION
Capturing and Digitisation technologies in CH

- Data acquisition using photogrammetry and scanning
- 3D reconstruction algorithms (Structure from Motion, Multi-View Stereo)
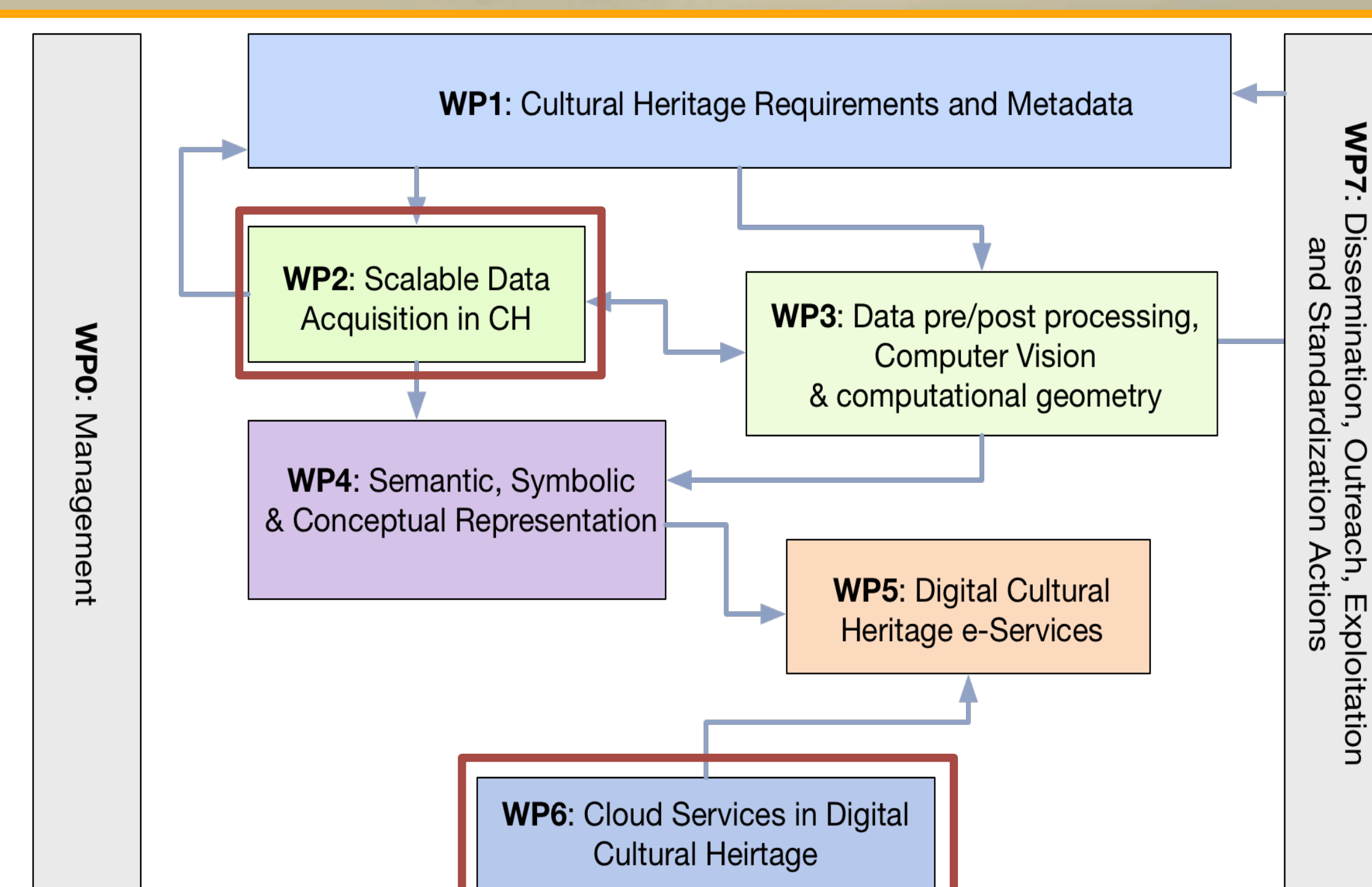- Image and point cloud processing
- Data integration

Project Deliverables

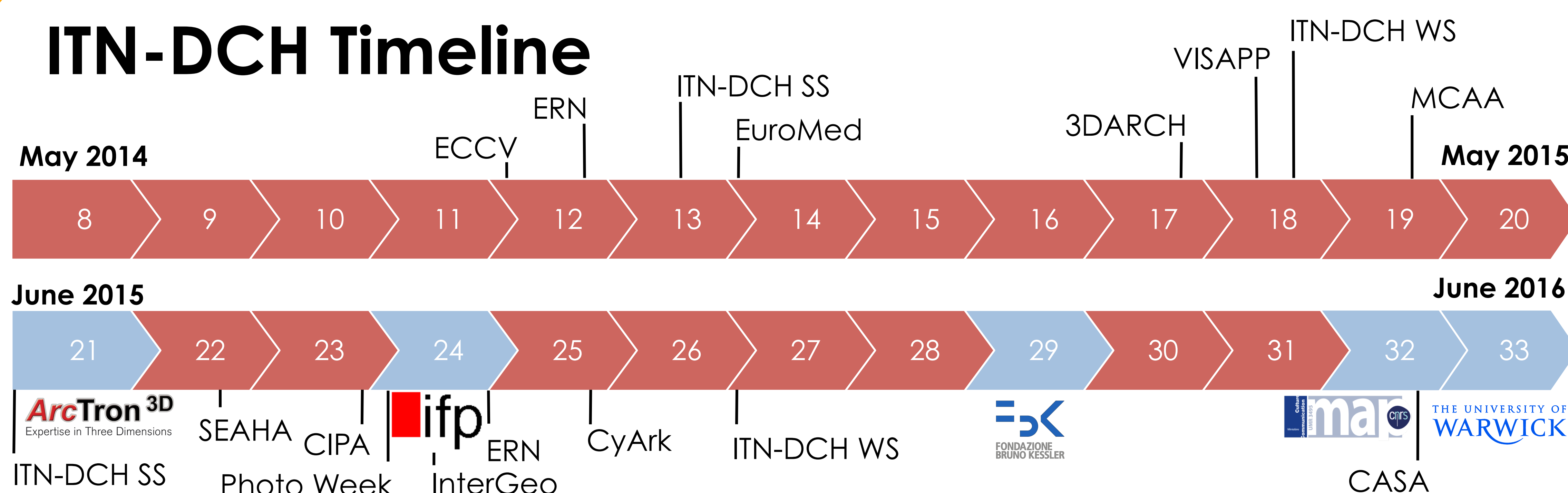### Primary responsible - completed

- D2.1 "Design of the digitisation architecture"
- D2.2 "Camera calibration & automatic registration of large data sets"
- D2.3 "Data acquisition techniques using multi-view cameras"
- D2.4 "Data acquisition techniques using laser scanners and depth sensors"

Contributor

- D1.1, D1.2, D3.1a, D3.1b, D3.2, D2.5

WP0: Management

WP1: Cultural Heritage Requirements and Metadata

WP2: Scalable Data Acquisition in CH

WP3: Data pre/post processing, Computer Vision & computational geometry

WP4: Semantic, Symbolic & Conceptual Representation

WP5: Digital Cultural Heritage e-Services

WP6: Cloud Services in Digital Cultural Heritage

WP7: Dissemination, Outreach, Exploitation and Standardization Actions

ITN-DCH Timeline

May 2014

ERN
ECCV
ITN-DCH SS
EuroMed
3DARCH
VISAPP
ITN-DCH WS
MCAA
May 2015

| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |

June 2015
June 2016

| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 |

ArcTron 3D
Expertise in Three Dimensions
ITN-DCH SS

SEAHA
Photo Week

CIPA

ifp
ERN
InterGeo

CyArk

ITN-DCH WS

FONDAZIONE BRUNO KESSLER

mac

THE UNIVERSITY OF WARWICK
CASA

Publications*

- 3DArch 2015 (Avila, Spain)
- VISAPP 2015 (Berlin, Germany)
- SEAHA 2015 (London, UK)
- CIPA 2015 (Taipei, Taiwan)

Upcoming

- ISPRS 2016 (Prague, Czech)
- Arqueologica (Valencia, Spain)

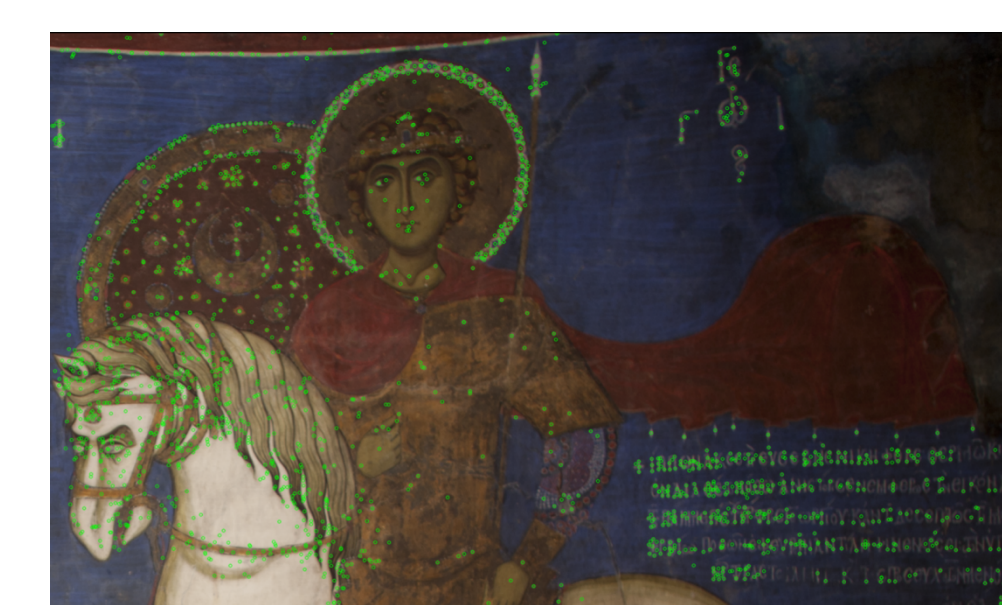*Since start of fellowship

Current Research

- MVS algorithms comparison
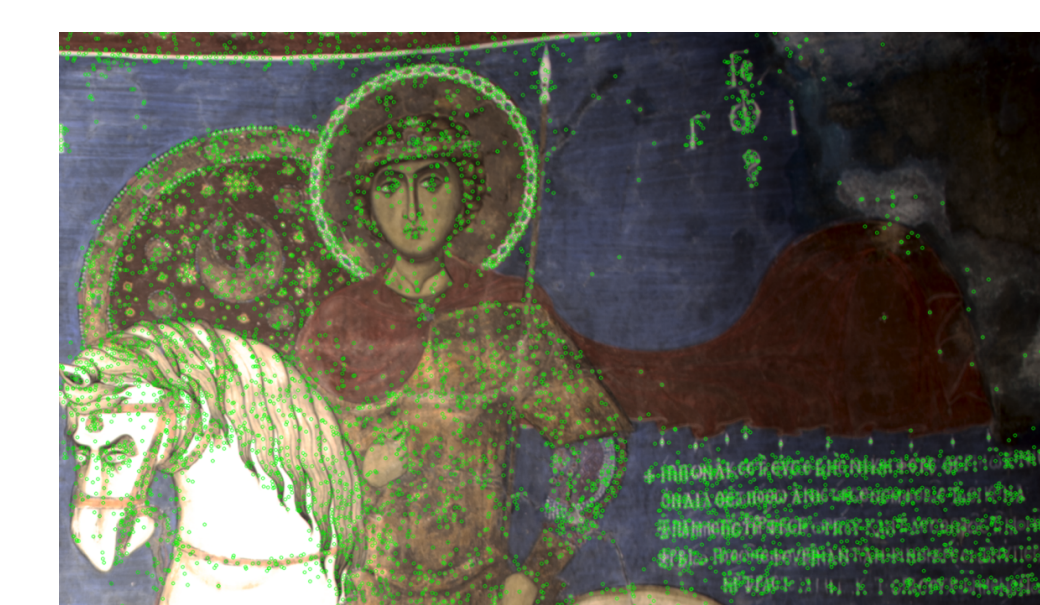
- Crowdsourcing lost CH

- High Dynamic Range Imaging for 3D reconstruction
– Feature Detection, Description and Matching
LDR   HDR

Country of Origin   Home Country   Host Country   Host Organization

MARIE CURIE ACTIONS