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

ITN DCH

GEORGIOS LEVENTIS, ER3

PROJECT

Machine Learning in Processing 3D/4D Cultural Assets
Supervisor: Marinos Ioannides
Cyprus University of Technology (CUT)

OBJECTIVES

- Study and analysis of the state of the art on machine learning (unsupervised, semi supervised, supervised) for summarization, classification and identification in cultural heritage applications
- Classification of relevant content in time dimension for cultural monuments
- Multimedia summarization in 4 dimensions (X, Y, Z, Time)

ACADEMIC BACKGROUND

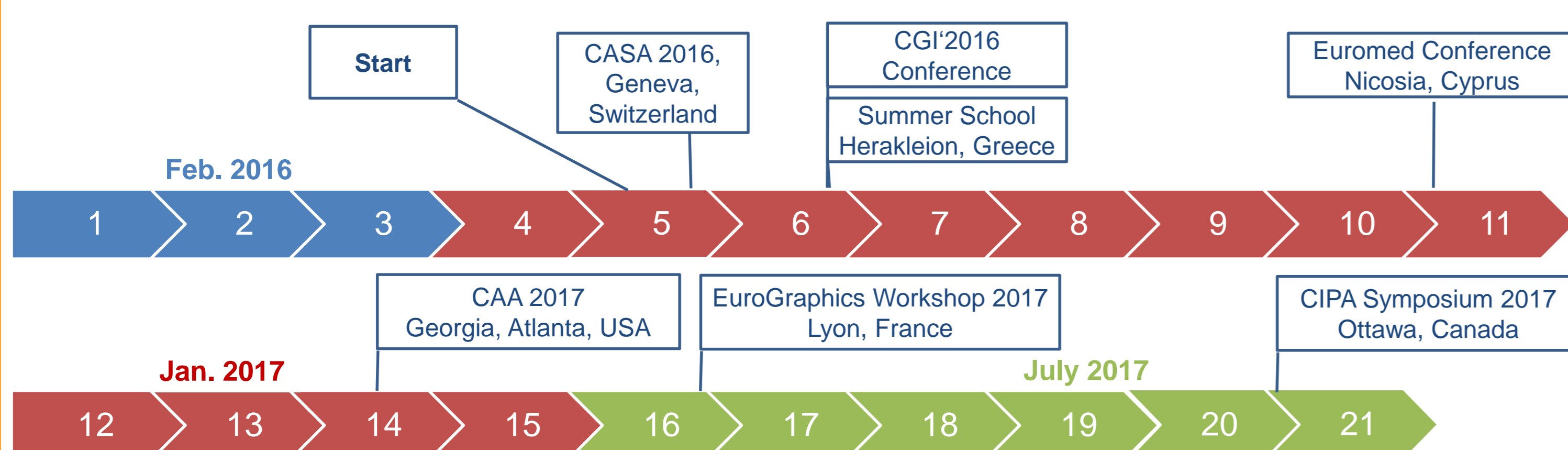*Master of Science (MSc) in Cultural Informatics and Communication*

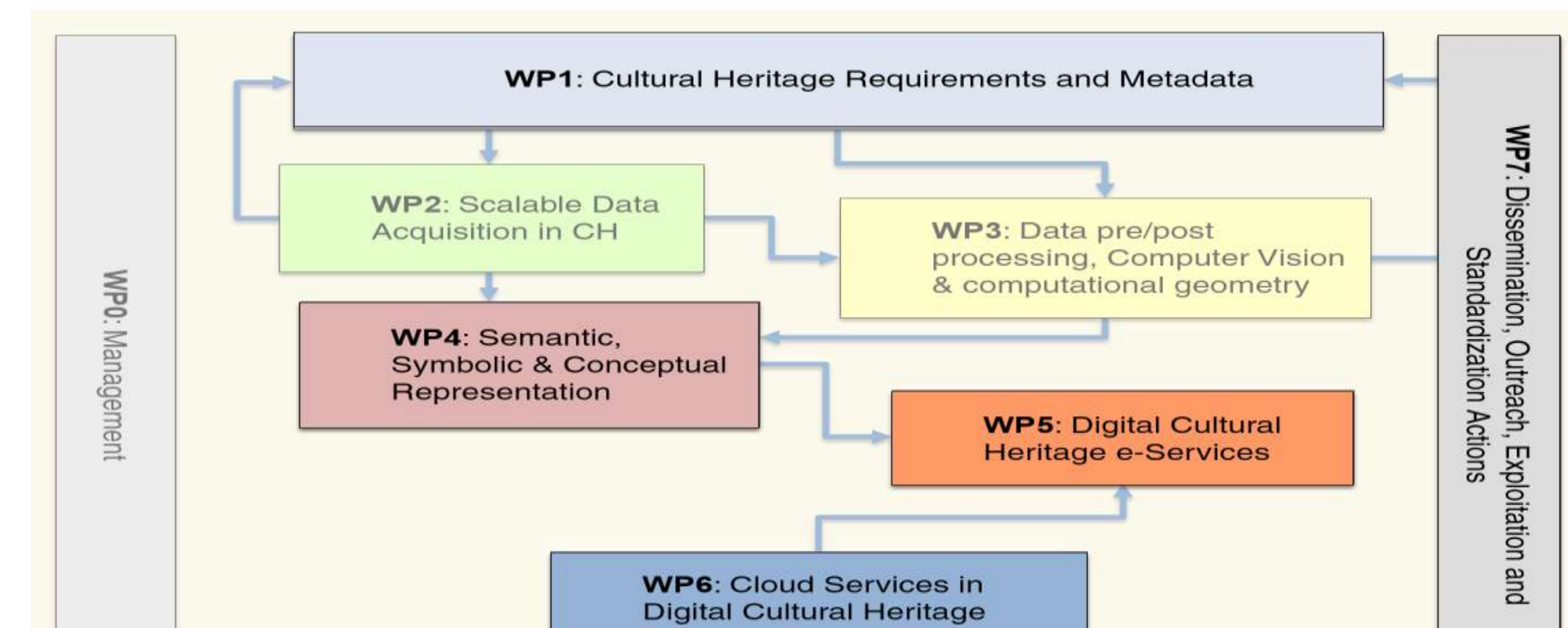*Bachelor's Degree (BSc) in Cultural Informatics and Communication*

TRAINING & WORKING BACKGROUND

- Member of "Intelligent Multimedia and Virtual Reality" Research Laboratory.
- "A Hierarchical Fuzzy Clustering Framework for Training RBF Networks" Research Paper in Proceedings of IASTED 2011 International Conference.
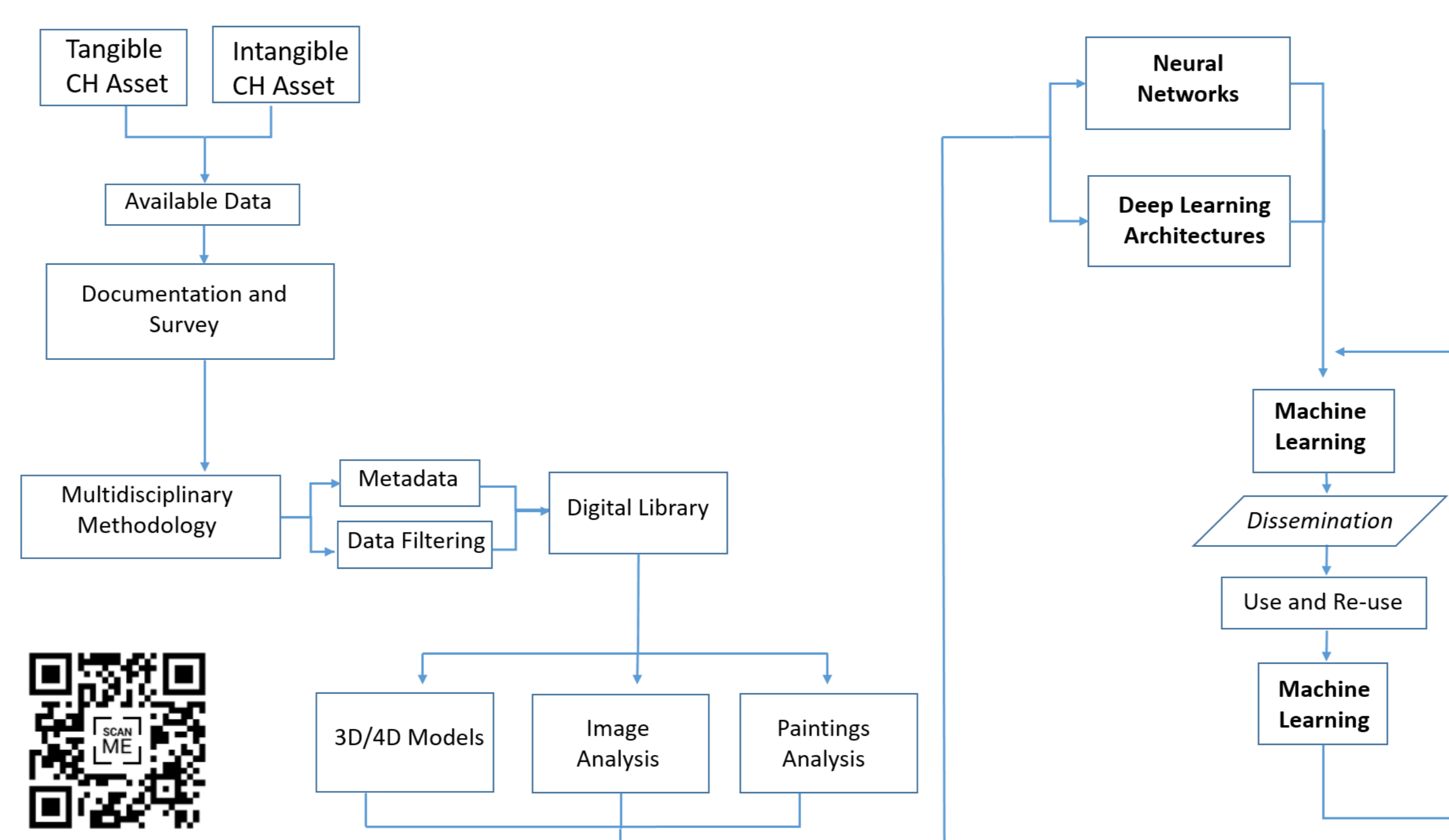
ITN-DCH TIMETABLE

1	2	3	4	5	6	7	8	9	10	11

Feb. 2016 — Start — CASA 2016, Geneva, Switzerland — CGI'2016 Conference — Summer School Herakleion, Greece — Euromed Conference Nicosia, Cyprus

12	13	14	15	16	17	18	19	20	21

Jan. 2017 — CAA 2017 Georgia, Atlanta, USA — EuroGraphics Workshop 2017 Lyon, France — July 2017 — CIPA Symposium 2017 Ottawa, Canada

Work Packages

Tasks and Methodology

- Review and evaluation of current methodologies in Europeana
- Creation of deep learning architectures
- Development and experimental implementation of the above algorithms

Results

- Innovative algorithms for the objectives
- Validation of the results on real data in cooperation with Europeana
- Dissemination and Outreach Plan
- Standardization

Home Country

Host Country

Host Organization

MARIE CURIE ACTIONS