# ITN-DCH www.itn-dch.eu





## NIKOLETTA SKORDAKI, ESR14

## **ENVIRONMENTAL FACTORS IN DIGITAL CULTURAL** HERITAGE

- · Study of the long-term environmental factors and their influence on the built Cultural Heritage
- · Study of the decay processses
- · Examination of materials physicochemical properties
- · Assessment of the environment's impact to buildings' structure



### SCIENTIFIC BACKGROUND

- <u>Chemical Engineer</u>, School of Chemical Engineering, National Technical University of Athens (NTUA), Greece
- MSc 'Mathematical Modeling in Modern Technologies and Financial Engineering', School of Applied Mathematical and Physical Sciences, NTUA, Greece
- MSc 'Protection of monuments Direction: Materials and maintenance intervention', School of Architecture, NTUA, Greece

#### FIRST YEAR OF FELLOWSHIP 1-8 June 2014 15-18 September 2014 8 June 2014 3-8 November 2014 2<sup>nd</sup> ITN-DCH Summer HISTCAPE final meeting Start of FuroMed 2014 School Podsreda Castle, Slovenia Fellowship Rhodes, Greece Limassol Cyprus Jun. 2014 Jul. 2014 Aug. 2014 Sep. 2014 Oct. 2014 Nov. 2014 Dec. 2014 Jun. 2015 Feb. 2015 Mar. 2015 Apr. 2015 May. 2015 Jun. 2015 12 20-24 October 2014 23-26 March 2015 4-27 May 2015 1st ITN-DCH Summer School, Secondment at 2nd ITN-DCH Workshop Institute of Photogrammetry, Carnuntum Archaeological Park, CNRS, Marseille, University of Stuttgart, Germany Petronell Carnuntum, Austria

### LONG TERM ENVIRONMENTAL FACTORS' CATEGORIES

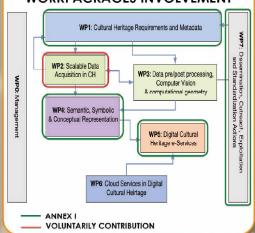
The categorization is based on the EU-Chic project (http://www.eu-chic.eu)



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|---|----|----------------------------------|
|   | Α  | LONG TERM INFLUENCES             |
|   | A1 | Bio attack                       |
|   | A2 | Climate conditions fluctuations  |
|   | А3 | Aeolic impact                    |
|   | Α4 | Water (Ground, Atmospheric)      |
|   | A5 | Solar radiation                  |
|   | A6 | Particle matter & aerosols       |
|   | Α7 | Long term loading                |
|   | A8 | Geological conditions (including |

ENVIRONMENTAL RISKS

## WORKPACKAGES INVOLVEMENT



## **ACTIVITIES**

· Survey of long-term environmental impact on built Cultural Heritage

Submission of paper regarding the survey on CIPA 25th International Symposium 2015, Taipei, 31 August-4 September 2015

Investigation of the environment of Asinou Church's area, Cyprus

Submission of an abstract regarding the environmental impact at Asinou Church, at SEAHA Conference, University College London, 14-15 July 2015

• Editing of e-book concerning Asinou Church







Host Country



**Host Organization** 







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