Patrimalp, Science of Heritage: perspectives on cultural artworks

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Patrimalp
Univ. Grenoble Alpes

Science of heritage: perspectives on cultural artworks

Development of an integrated and interdisciplinary heritage science

Challenges

Patrimalp aims to:
- Develop an interdisciplinary scientific community at the heart of Univ. Grenoble Alpes
- Create innovative heritage research methods
- Initiate an interdisciplinary academic course on heritage
- Support heritage and culture policies
CARRYING OUT THESE GOALS WILL STRONGLY CONTRIBUTE TO THE HERITAGE AND CULTURAL CONTEXT AT THE HEART OF UNIV. GRENoble ALPES

A cross-disciplinary project

- History of art
- Archaeology
- Material sciences
- Geosciences
- Restauration and conservation
- Computing sciences
- Geography

Case studies

- Antic Theater of Lyon
- Epigraphical stone of Vaison-la-Romaine
- Saint-Michel de Connexe Priory
- Costumes and Jewellery in the Alps
- Brocades transposed
- Neolithic rock art sites (Rocher du Château, Trou de la Féclaz)

WP1 - Raw matter resources and contextualisation

- Purposes:
  - Identification of raw materials used in the processing of artefacts
  - Socio-ecosystemic contextualization of raw material strategies and rock art production

WP2 - Materials, manufacturing process and alteration

- Purposes: Intrinsic analysis
  - Identification and characterization of constituting matters of artefacts
  - Understanding their manufacturing and alteration

WP3: History, life and trajectories of artefacts

- Purposes: Extrinsic analysis
  - Artefact story in native cultural context
  - Understanding the artefact as artistic and cultural technical clue
  - Spatial and temporal following tracks

Scientific and technological challenges

- Natural and cultural context
- Geology and geomorphology

Time and space

The innovative approach developed by Patrimalp consortium is based on carefully selected case studies carried out in the West Alpine region and Rhône corridor, from the Neolithic period to the pre-industrial period.

WP4: Modelling and interconnected visualisation of cultural heritage

- Purposes:
  - Modelling knowledge and reasoning about heritage artefacts, their components and context
  - Geovisualisation
  - Restitution and Rendering

Scientific bottlenecks

- Reconstitute the different “states” of the artefact
- Develop an ultimate integrated physico-chemical analysis of artefacts
- Understanding artefact materials through a selective analysis method

Production of a common story of the artefact across the time in its environmental and cultural context

Case studies

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