Development of an integrated and interdisciplinary heritage science

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 attractiveness and international outreach of Univ. Grenoble Alpes.

A cross-disciplinary project
- history of art
- archaeology
- material sciences
- geosciences
- restoration and conservation
- computing sciences
- geography

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

Science of heritage: perspectives on cultural artworks

Scientific and technological challenges

**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
  - Cultural heritage matter as a recorder of artistic human past activities
- **PURPOSES**: EXTRINSIC ANALYSIS
  - Artefact story in native cultural context
  - Understanding the artefact as artistic and cultural technical clue
  - Spatial and temporal following tracks
- **SCIENTIFIC APPROACH**
  - Historiography of artefact
  - History of artefact (primary and secondary sources, workshops, treatises, literature)
  - Form and creation life
  - Artistic cartography

**WP3: History, life and trajectories of artefacts**

**WP4 - Modelling and interconnected visualisation of cultural heritage**

**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
- Dealing with, organising and sustaining heterogeneous multidisciplinary data
- Write the history of artefacts

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


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