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 ATTRACTION AND INTERNATIONAL OUTREACH OF UNIVERSITY OF 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)


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**Scientific and technological challenges**

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

**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.

**WP1 - Raw matter resources and contextualisation**

- **SCIENTIFIC APPROACH:**
  - Archeological context
- **PURPOSES:**
  - Identification of « recipes » inside the matter

**WP2 - Materials, manufacturing process and alteration**

- **PURPOSES:**
  - Identification and characterization of constituting matters of artefacts
  - Understanding their manufacturing and alteration

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

- **PURPOSES:**
  - Identification of artefacts and their specificities
  - Interoperability between concept and vocabularies
  - Identification of process and transformation

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

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

**Visualisations**
- Textures, spatial, chronological, upgradable, interactive, 2D, 3D, augmented reality...