



Cultural Heritage Identity Card

Laboratoire Recherche des Monuments Historiques (LRMH)
Research laboratory for historical monuments
 Ministère de la Culture et de la Communication
 France
Ministry of culture and communication

Advisory Committee Member
 Isabelle Pallot-Frossard



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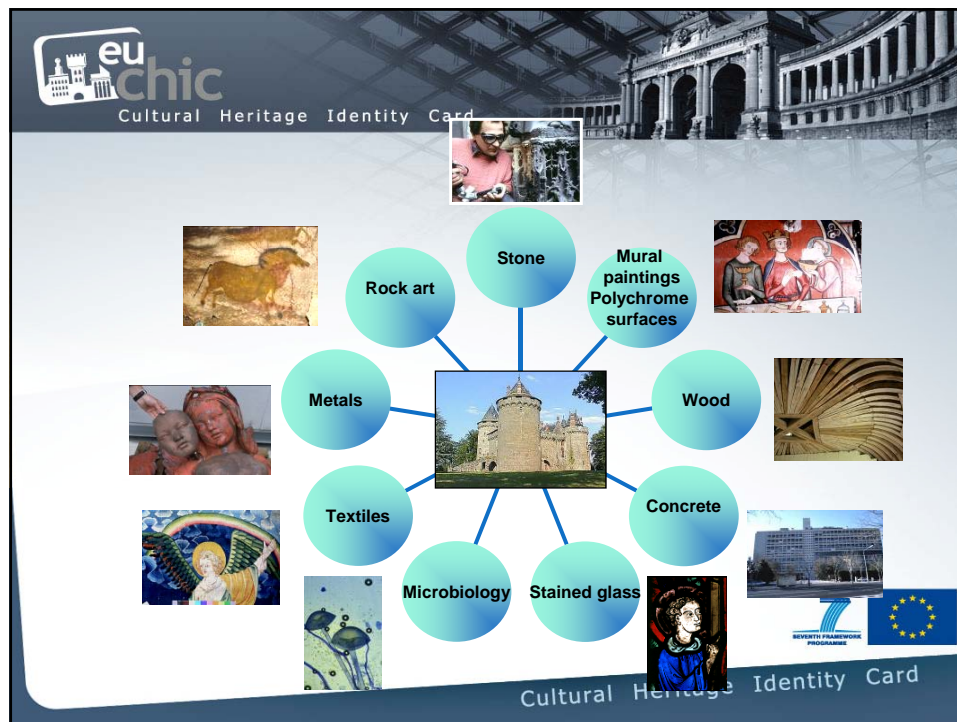
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Laboratoire de recherche des monuments historiques
Research laboratory for historical monuments

- A public service of the French Ministry of Culture and communication
- A laboratory dedicated to research on conservation of cultural heritage (monuments and works of art attached to monuments)
- 38 employees (engineers, geologists, chemists, microbiologists, photographers)
- 9 specialized departments (stone, mural paintings, wood, metal, concrete, stained glass, textiles, microbiology, rock art)
- A documentation center (data base on conservation topics)
- Budget : 820 K€ (excluding salary costs)



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3 Missions



- Case studies on deterioration and conservation of cultural heritage (cathedrals, castles...) on
 - Materials identification
 - Deterioration diagnosis
 - Environment monitoring
- Research programs on
 - Composition of ancient materials
 - Deterioration phenomena
 - Efficiency and durability of conservation treatments
- Scientific assistance for those in charge of cultural heritage
 - Training courses for conservators, architects, curators
 - Scientific advice on products and techniques
 - Scientific monitoring of restoration works (participation in scientific committees linked to important monuments)

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Analytical equipment

- Chemical tests
- X-rays fluorescence
- X-rays diffraction (XRD)
- Scanning electron microscopy (SEM-EDS)
- Infrared spectrometry (FTIR)
- Chromatography (HPLC, GC-MS, and ion chromatography)
- LIBS
- Microbiology laboratory





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Testing equipment

- Petro-physical testing laboratory
- Climatic ageing room
- SO2 chamber
- Light aging room (xenotest)
- Dynamometer
- On site diagnosis tools :
colorimeter, ultrasonic
measurements, rebars location,
potential and Rp measurements...




Climatic ageing room



Dynamometer


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EC projects

- Optimization of protective glazing for ancient stained glass windows (VIDRIO)
- Research on evaluation of the state of decay of painted surfaces using laser scanning vibrometer (LASERACT)
- Conservation of metals in outdoors conditions, evaluation of the efficiency of corrosion inhibitors (PROMET)
- Assessment of desalination mortars and poultices for historic masonries (DESALINATION)
- Preservation of ancient MEDiterranean sites in terms of their ornamental and building STONE (MEDISTONE)
- Conservation Materials for Stained Glass Windows, Assessment of Treatments, Studies on Reversibility, and Performance of Innovative Restoration Strategies and Products (CONSTGLASS)



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Links in benefit of CHIC

- Architects in charge of monuments (Chief architects of historical monuments and « architectes des bâtiments de France »)
- Regional administration of historical monuments
- Public and private owners
 - Cities : « French Mayors Association »
 - « La demeure historique » (Historical residences)
 - ICOMOS national committee



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