



Area 1_Restoration methods and technologies

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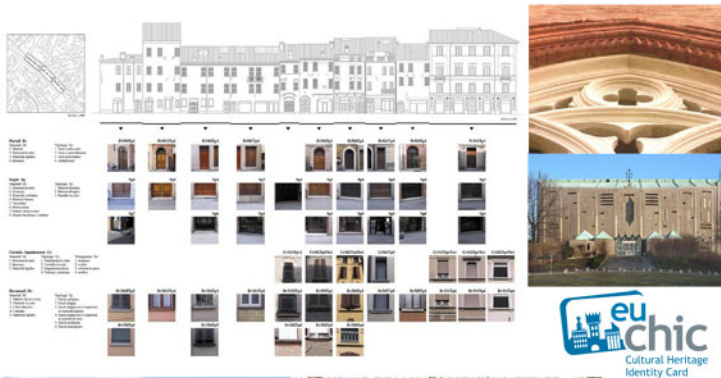
The workgroup carries out studies, researches and consultings – as national as international – in the field of preservation, conservation, management, use and improvement of the architectural heritage and the cultural heritage, as well.

The core aim is the recovery of architectural excellences and cultural projects, through studies and interventions for the conservation and enhancement of the heritage, both as building architecture or urban plan, as ancient or contemporary estates.

Due to the growing concept of historical-artistic statement, all issues foresee an interdisciplinary perspective, including all project stages: from the preliminary analysis (researches, surveys, diagnostics, etc), to the provision of technical papers, design proposals and all needed strategies for the dissemination.

Our services:

- Planning tools and guidelines to preserve both the identity and main features of territory and historic towns.
- Design support within conservation, restoration or refurbishment of buildings (research, surveys, technical studies, feasibility analysis, etc).
- Analysis of the needed design standards for health, accessibility, energy efficiency and safety, together with surveys to assess the decay of buildings and materials.
- Analysis of building tools for the conservation of architectural heritage and development of new materials and techniques of intervention.
- Provision of tools for management, maintenance and enhancement of buildings, cultural heritage and UNESCO sites.
- Design of cultural routes, as tourism and didactic strategy, integrated to the local path of museums and city heritage.



Area 2_Tools, materials and techniques for museography and exhibition design

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The research unit can offer consultation to public parties and technological transfer to private parties that deal with the safeguard of cultural heritage, of its cataloguing, representation and valorization through the museum institution and its branching in both regional, national, and international area.

A valuable experience has been carried out by the working group on consulting activity, to plan or reorganize both new and existing museums.

Within our exhibition planning and the development of prototypes, the collaboration with SMEs is a priority, this to be able to develop and test the industrial applicability of materials and technologies, even through partnerships, collaborations or technical sponsoring directly aimed to the production of tools, systems, elements and components.



Our services:

- Museographic planning for new and existing museums (feasibility studies, preliminary planning documents, different-level projects).
- Consulting for the definition, valorization and management of museum systems, eco-museums and material culture venues.
- Planning of graphic, signals and accessibility to museum venues (inclusive design).
- Museum valorization and recovery of the archaeological, industrial heritage and rural heritage and landscape.
- Consulting for the creation and execution of exhibition materials and communication tools within temporary and permanent exhibitions.
- Consulting for recovery, restoration, identification and study of fossil vertebrates.
- Consulting for the execution of naturalistic routes, for the recovery of deteriorated areas within the respect of the autochthon biodiversity.

Area 3_Diagnostic and conservation

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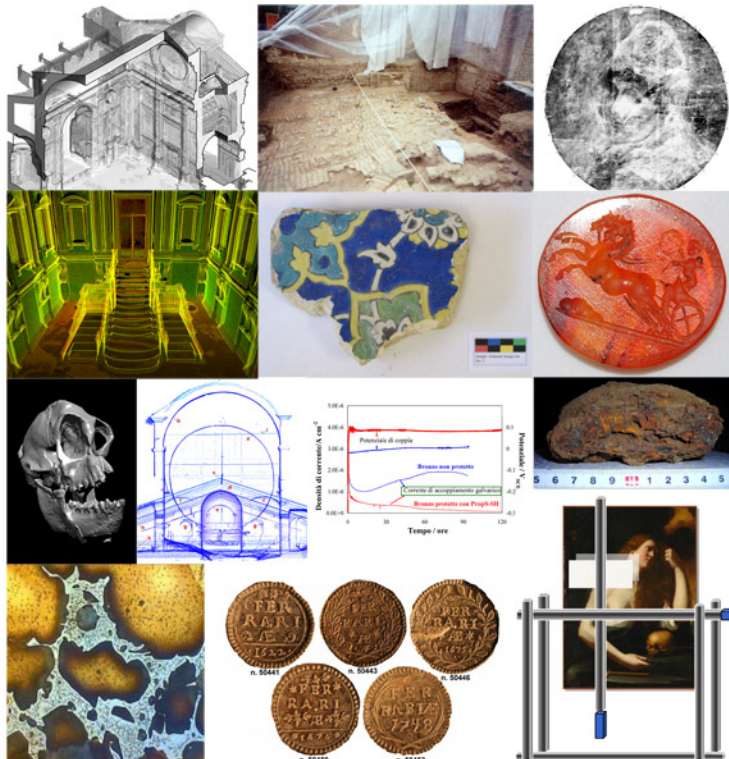
The working group develops researches and consulting for public and private bodies dealing with diagnostic and conservation of Cultural Heritage, often in collaboration with SMEs to design new products or services.

The existing projects have been focused on increasing historical and conservative knowledge, designing feasible restorations and introducing innovative materials to make and to restore art pieces.

Our activities are carried out through a synergic collaboration of several laboratories with specific competences as: ICT tools for surveys, prototyping and models, metallurgy and corrosion, petrography, archaeometry, thermography, image diagnostics, preservation and restoration of archaeological sites and architectural works. The work done includes many studies aimed at the conservation and restoration of Cultural Heritage in cooperation with national and international, private and public clients (Monumental & Fine Art Offices, Ministries, Museums, etc).

Our services:

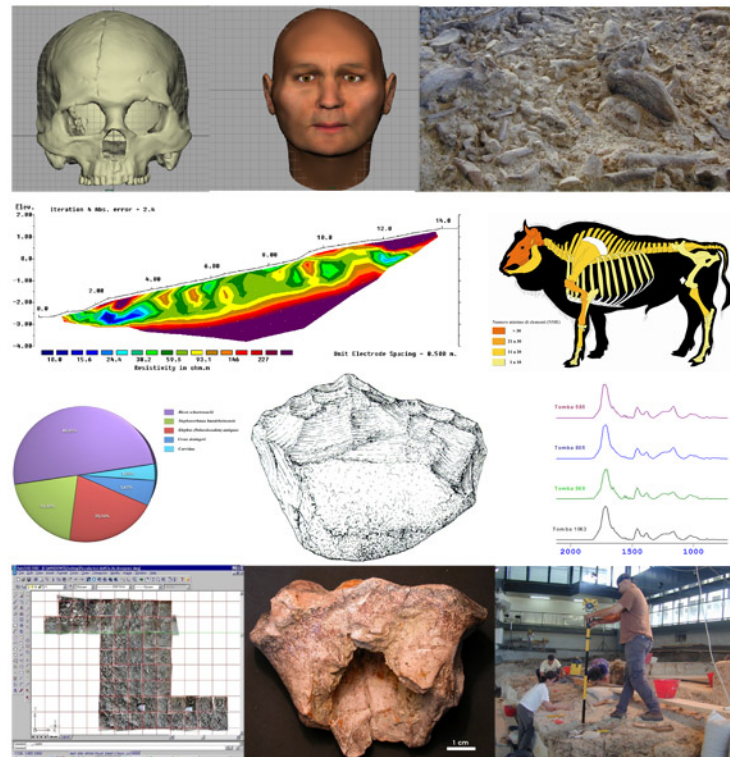
- Archaeometrical studies aimed at the characterisation of materials and metal surfaces, ceramics, stones, paintings and glasses for their preservation and authentication.
- Design of innovative smart materials and alloys for restoration and conservation of Cultural Heritage.
- Chemical and mineralogical-petrographic characterisation of non-metallic materials.
- Study and development of consolidant and protective organic materials for indoor and outdoor bronzes.
- Analysis of the deterioration of materials of archaeological interest and identification of the chemical-physical state for the purpose of cleaning.
- Image Diagnostics for paintings by using innovative scanning systems.
- ICT tools for building surveys, laserscanning, colorimetry, thermography and structural analysis.
- 3D digital integrated procedures for models, prototyping, database management and the production of maquettes.



Area 4_Tools for the recovery and preservation of the palaeontology and archaeological heritage

Carlo Peretto, Federica Fontana, Marta Arzarello, Emanuela Gualdi, Jacopo Ortalli, Simonetta Pancaldi, Giovanni Santarato, Lorenzo Ferroni, Marilena Leis, Marco Peresani, Ursula Thun Hohenstein, Maria Chiara Turrini, Luciana Zaccagni, Ciro Tartarini, Simonetta Zonari, Costanza Baldisserotto.

The working group carries out its activities from field research to laboratory analysis of materials, in the area of technologies for recovery and preservation of the archaeological and paleontological heritage. All activities have a strong interdisciplinary and involve the integration of different skills and laboratories: topography, geophysical analysis, palaeoanthropology, technology and usewre analysis applied to stone tools and bones, palaeobotany, paleontology, archaeozoology, taphonomy, GIS, biodeterioration, etc. The research activity is deeply rooted both locally and nationally, thanks to many partnerships with private institutions and Sovrintendenze Archeologiche (at present we have seven licences for the excavation of prehistoric sites), and internationally; as an example we are currently managing projects of research and development in Morocco and the Philippines.



Our services:

- New technologies for prehistoric and archaeological excavations, from field research to computerized documentation of archaeosurfaces.
- Archaeozoological and paleontological analysis of vertebrate remains for the reconstruction of the paleoenvironment and analysis of human remains.
- Techno-economical analysis of prehistoric lithic assemblages.
- Geophysics for the investigation and characterization of subsurface and characterization of materials.
- Identification of microorganisms and organisms responsible for the biodeterioration and development of control tools.
- Development of feasibility and technical plans, cost analysis and ICT assessment.
- Restoration of anthropic and paleontological remains, cataloguing and ICCD inventory, consolidation of archaeosurfaces and analysis.
- Dissemination plans, 3D models of remains, didactic projects

Area 5_Management and valorisation of the cultural heritage

Fabio Donato, Francesca Cappelletti, Marco Di Tommaso, Massimiliano Mazzanti, Laura Ramaciotti, Francesco Badia, Lauretta Rubini, Anna Maria Visser, Elisa Barbieri, Ugo Rizzo, Enrica Gilli.

This workgroup is devoted to the development of economic and managerial competencies for the provision of services to firms involved in the preservation, management and valorisation of the cultural heritage. Furthermore, the area aims at deepening the technology transfer actions.

We can take care of the preparation and development of managerial tools useful for firms, but we are also able to supervise the technology transfer process management, the structuring of the relations with firms, the management of the establishment of spin-offs.

The workgroup can provide suggestions on editorial lines, recovery of historical materials to re-insert in the production processes (such as ceramics), preliminary and on-going operations that are necessary to avoid possible risks of destruction or loss of history which is a consequence of every intervention on a modern or an ancient



Our services:

- Analysis of organisational and management profiles (management systems evaluation, creation of partnership and networking).
- Economic planning systems of interventions (Business plans, action and strategies analysis, evaluation of investment programmes, elaboration of documents for the management of cultural heritage, balance sheets).
- Instruments to measure the results of valorisation (qualitative and quantitative analyses, instruments for the economic evaluation of the heritage, systems of internal economic monitoring; systems to measure performance and economic impact).
- Tools for communication and management of the relations on the territory (fund-raising, territorial marketing, public governance).