



NET-HERITAGE
Final Project Meeting
Rome, 21-23 September 2011



WP3
Strategic activities between
RTD programmes
applied to the Protection of
Tangible Cultural Heritage

Ministry of Education, University and Research

SP1 – Cooperation Grant Agreement n° 219301 NET-HERITAGE

NET- HERITAGE : STRATEGIC ACTIVITIES

In this Project MIUR had the coordination of WP3: Strategic activities between RTD programmes applied to the Protection of Tangible Cultural Heritage

The objectives of WP3 were:

- *Identify the RTD priorities and topics most relevant to create sustainable approach to tangible cultural heritage protection.*
- *Develop joint strategies for addressing and implementing research and technological activities of strategic importance for European governments in this specific sector.*
- *Establish a strategic framework and partnership for RTD programmes among the Partner member states.*
- *Examine long term funding scenarios and generate recommendations for future joint activities.*
- *Make recommendations on possible strategic test issues for transnational exploitation.*

Lead Partner: MUR Participant: All Partners

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WP3 had three Tasks : Task 3.1- 3.2-3.3

3.1 Fostering and implementing the comparing and discussion within the national research networks in the field

The identification and analysis of common strategic RTD priorities has been the major output of this task.

3.2 Strategic Activities leading to the identification of complementarities and potential networking among National Research programmes. Development of potential common strategies and priorities of National Research Programmes in the field of protection of tangible cultural heritage.

3.3 Identification of areas for potential future cooperation aiming to generate recommendations for future joint activities (out put to WP4)

In WP3 3 deliverables were required:

- D 3.1 Report on common research gaps and priorities. (month 20) : July 2010**
- D 3.2 Report on the possible convergence of RTD programme and planning of common national research strategies in this domain (month 24) : November 2010**
- D 3.3 Position paper on research gaps to generate recommendations for future joint activities and European RTD work programme and input synthesised information contained in Standard Templates into NET-HERITAGE Observatory web portal. (month 24) : January 2011**



The 3 deliverables were structured as follows:

D 3.1 Report on common research gaps and priorities (month 20)

1. INTRODUCTION

1.1 Context and overview of Strategic Activity performed in Net-Heritage

2. PROCEDURE ADOPTED FOR STRATEGIC ACTIVITY IDENTIFICATION

2.1. Setting up of National Consultation/Technical Panels

2.2. National Consultation/Technical Panels goals and activities

3. TOPICS DESCRIPTIONS AND EVALUATION OF NEEDS, STRENGTHS AND SCIENTIFIC PRIORITIES

Topic 1 Environmental assessment and monitoring (pollution, climate change, seismic risk)

Topic 2 Investigation of damage mechanisms to establish preventive conservation strategies

Topic 3 Measurement instruments of practical relevance for end-users

Topic 4 Innovation of materials and technologies for conservation and maintenance

Topic 5 Evaluation of treatments and materials used in conservation at present and over recent decades, assessing their suitability and future consequences

Topic 6 Alteration and conservation of materials with special focus on modern materials used in Contemporary Art and Architecture and also as cultural information storage (CDs, DVDs, etc)

Topic 7 Anthropogenic pressure evaluation and management

Topic 8 Security technologies and systems in museums, libraries, archives and for the movement of artefacts

Topic 9 Tele-survey and Geographic Information Systems for protection and management of tangible cultural heritage

Topic 10 Contemporary cultural heritage in spatial contexts

Topic 11 Pre-normative studies for the guaranteed protection and management of tangible cultural heritage

4. IDENTIFICATION OF COMMON PRIORITIES

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D 3.2 Report on the possible convergence of RTD programme and planning of common national research strategies in this domain

- 1.Executive summary
 - 2.Process description
 - 3.Cumulative histogram of needs, strengths and scientific priorities
 - 4.Relation needs vs strengths
 - 5.Needs vs Strengths towards a summation analysis
 - 6.Scientific priority identification
- Conclusion



D 3.3 Position paper on research gaps to generate recommendations for future joint activities and European RTD work programme

- 1. Introduction
- 2. Identification of research gaps
- 3. Identification of high scientific priorities
 - 3.1 High scientific priorities
- 4. Needs, Strengths and high Scientific Priorities of European countries
 - 4.1 Geographical distribution of high scientific priorities
 - 4.2 Relationship between needs and strength of research topics related to high scientific priorities
- 5. Recommendations

WP3 MILESTONES AND EXPECTED RESULT were:

M3.1 Implementation of the inventory of complementarities between national programmes to identify redundancy and fill in research gaps. (month 20)

M3.2 Formulation for transnational and interdisciplinary cooperation. (month 24)

M3.3 Identification of the potential of future cooperation and exchange. (month 24)



SUB TOPICS WITH HIGH PRIORITY (1) were identified in the following list:

Following the evaluation process, twelve subtopics were identified as common high scientific priorities:

- 2.1 Multidisciplinary approach on the synergic interactions between environment and materials
- 2.2 Interactions between specific environmental factors (temperature, humidity, ...) and complex artifacts made by different materials.
- 3.1 Portable instruments for in situ measurements.
- 3.2 Non invasive instruments and methodologies for diagnosis and monitoring.
- 4.1 Development of new and appropriate materials and technologies for the upgrading or the construction of conservation buildings/rooms.
- 4.2 Development or improvement of products for restoration and conservation with low impact on the historical content of artifacts.
- 5.2 Innovative solutions for compatibility, durability and reversibility of new materials and treatments.



SUB TOPICS WITH HIGH PRIORITY (2) were identified in the following list:

6.1 Development of strategies and procedures for storage and preservation of multi media supports and readability of the stored content.

6.2 Innovative proposals for conservation and durability of contemporary art materials (i. e. plastics, ceramics, new alloys, glasses, new dyes, concrete, mortars).

7.1 Development of management systems on quality and sustainability of indoor/outdoor cultural heritage environments.

7.3 Development of scientific criteria and tools to measure and regulate tourist impact on cultural heritage sites.

10.1 Preservation of industrial heritage: objects, buildings and landscape.

12 sub-topics with high priority



Reccomendation (1)

The process for defining a common strategic research agenda **must be based on a detailed and thorough consultation within each European Country**, an approach never previously implemented in the specific field of conservation of tangible cultural heritage.

For the **first time** since the EU Framework Programmes on Research, such an approach was adopted within the NET HERITAGE Project, **through the involvement of national expert panels, leading to agreement on 12 research issues of high scientific priorities.**

The innovation of this approach consists in the **networking of research Ministries, Councils and Foundations** in the field of research and cultural heritage

Reccomendation (2)

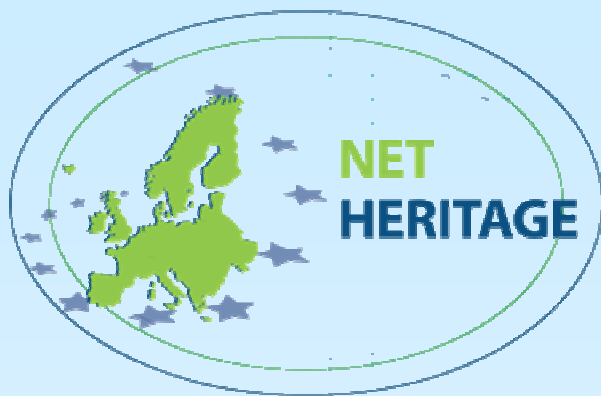
- **European Countries have common priorities** and should look for common solutions in the research field of cultural heritage.
- The list of high research priorities must be used to **develop common programmes.**
- **Cultural heritage research** needs to be included on the **National research agenda.**
- **The presented survey** can be used as a tool for an 'a la carte' approach, on which to base the **Joint Programming Initiative (JPI) on Cultural Heritage.**
- The list of common high priorities should be taken in due account for the definition of the **8th Framework Programme.**

Reccomendation (3)

The survey shows **the strength of European research** in the field of cultural heritage. It is recommended that this research capability, which is assumed as a world reference point, be exploited to **reinforce European competitiveness.**

The approach on which this consultation was based may be **adopted for other research areas.**

Finally, the priorities identified within the NET HERITAGE Project should be integrated within the research policies of **other sectors, such as energy, construction, ICT, nanotechnologies, and smart cities .**



THANKS