

# EUREKA PROJECT E!140 - EUROCARE

## 1. General description

<b>Project</b>	E! 140 - EUROCARE	<b>Status</b>	Finished - 27-MAR-2002
<b>Title</b>	<b>European Project Of Conservation,Restoration And Maintenance (Umbrella: Generates Projects, But Does Not Carry Out R&amp;D)</b>		
<b>Class</b>	Umbrella	<b>Technological area</b>	Environment
<b>Start date</b>	01-SEP-1986	<b>End date</b>	01-JAN-2002
<b>Duration</b>	184 months	<b>Total cost</b>	0 Meuro
<b>Partner sought</b>	No		
<b>Summary</b>	New Industrial Products And Technologies As Well As Craft Skills For Conservation And Restoration Work. Establishment Of Technical Standards And Guidelines For Examination And Treatment Of Objects And Monuments.		

## Budget and duration

Phase	Budget(Meuro)	Duration (Months)
<b>Total</b>	<b>0</b>	<b>184</b>

## Member contribution

Member	Contribution	Position	Since
<b>Austria</b>	<b>.00%</b>	<b>Notified Finished</b>	<b>27-MAR-2002</b>
Czech Republic	.00%	Notified Finished	27-MAR-2002
Germany	.00%	Notified Finished	08-JAN-1997
Denmark	.00%	Notified Finished	27-MAR-2002
Spain	.00%	Notified Finished	27-MAR-2002
European Union	.00%	Notified Finished	27-MAR-2002
Hungary	.00%	Notified Finished	27-MAR-2002
Iceland	.00%	Notified Finished	27-MAR-2002
Italy	.00%	Notified Finished	27-MAR-2002
Portugal	.00%	Notified Finished	27-MAR-2002
Turkey	.00%	Notified Finished	27-MAR-2002
Slovenia	%	Notified Finished	27-MAR-2002
Sweden	.00%	Notified Finished	27-MAR-2002
Norway	.00%	Notified Finished	27-MAR-2002
Ireland	.00%	Notified Finished	27-MAR-2002
Greece	.00%	Notified Finished	27-MAR-2002
Finland	.00%	Notified Finished	27-MAR-2002
France	.00%	Notified Withdrawn	12-DEC-1995
United Kingdom	.00%	Notified Withdrawn	05-FEB-1996
The Netherlands	.00%	Notified Withdrawn	09-OCT-1995

## Participants

Company	Country	Type	Role
<b>Schloss Schoenbrunn Kultur Und Betriebsges. M.B.H.</b>	<b>Austria</b>	<b>SME</b>	<b>Main</b>
Dept. Of International Cooperation In Research & Development Ministry Of Education, Youth And Sports	Czech Republic	Governm./Nat. Admin.	Partner
Svuom Praha A.S.	Czech Republic	Research Institute	Partner
Danish Building Research Inst.(Statens Byggeforskningsinst.)	Denmark	Research Institute	Partner
Tubitak - Scientific & Technical Research Council Of Turkey (Tubitak)	Turkey	Governm./Nat. Admin.	Partner
The European Commission - Research Dg	Belgium	Governm./Nat. Admin.	Partner
Danish Agency For Trade And Industry	Denmark	Governm./Nat. Admin.	Partner
Uni Karlsruhe/Mineralogisches Institut	Germany	University	Partner
Ibri - The Icelandic Building Research Institute	Iceland	Research Institute	Partner
Institut Fuer Chemie Und Biologie Des Meeres (Icbm) Carl-Von-Ossietzky Universitaet Oldenburg	Germany	University	Partner
Hochschule Fuer Angewandte Kunst In Wien Institut Fuer Silikatchemie Und Archaeometrie (Isca)	Austria	University	Partner
Goeteborg University/Institute Of Conservation Gmv-Goeteborg Centre Of Environment And Sustainability	Sweden	University	Partner
Ucd - University College Dublin / School Of Architecture	Ireland	University	Partner
Trinity College Dublin / Computer Science Department	Ireland	University	Partner
Instituto De Ciencias De La Construcion "Eduardo Torroja"	Spain	Research Institute	Partner
Konservatorskolen (Royal Danish Academy Of Fine Arts)	Denmark	University	Partner
Riksantikvaren (Central Office Of Historic Monuments/Sites)	Norway	Governm./Nat. Admin.	Partner
Ntua - Department Of Naval Architecture & Marine Engineering National Technical University Of Athens	Greece	University	Partner
Environment Min./Den Kommitterede I Kulthistoriske Anliggend	Denmark	Governm./Nat. Admin.	Partner
Norwegian Building Research Institute (Byggforsk)	Norway	Research Institute	Partner
Nilu - Norwegian Institute For Air Research	Norway	Research Institute	Partner
Laboratorio Nacional De Engenharia Civil	Portugal	Research Institute	Partner
Office Of Public Works	Ireland	Governm./Nat. Admin.	Partner
C.N.R. - Istituto Sull'Inquinamento Atmosferico (Iia)	Italy	Research Institute	Partner
Istituto Centrale Per Il Restauro	Italy	Governm./Nat. Admin.	Partner
Iasi - Istituto Di Analisi Dei Sistemi Ed Informatica	Italy	Research Institute	Partner
Enea - C. R. E. Casaccia Ente Per Le Nuove Tecnologie, L'Energia, L'Ambiente	Italy	Research Institute	Partner
Ministry Of Research And Technology	Denmark	Governm./Nat. Admin.	Partner
C.N.R. - Istituto Fisbat/Chimica	Italy	Research Institute	Partner
D.Bassa/Alta Atmosfera	Italy	Research Institute	Partner
Ministry Of The Environment	Finland	Governm./Nat. Admin.	Partner

## Participants

<b>Company</b>	<b>Country</b>	<b>Type</b>	<b>Role</b>
Vtt/Building Technology Technical Research Centre Of Finland	Finland	Research Institute	Partner
Cnuce-Centro Nazionale Universitario Di Calcolo Elettronico	Italy	Research Institute	Partner
Ljubljana University/Civil Engineering Institute (Zrmk)	Slovenia	University	Partner
Soprintendenza Per I Beni Ambient. Ed Architetton. Del Lazio	Italy	Research Institute	Partner
Miklos Ybl Polytechnik	Hungary	University	Partner
Gen.Secretariat Of Res.& Tech./National Research Foundation	Greece	Research Institute	Partner

## 2. Project outline

### Project description

The EUROCARE project aims to develop industrial products and technologies which are currently not available as well as craft skills for conservation and restoration work based on and supported by scientific knowledge. The objective of the project is to establish advanced technical standards and European guidelines for the evaluation, analysis and treatment of objects and monuments.

EUROCARE aims to:

- develop new chemicals
- improve the analytical and treatment techniques to be applied by architects and conservators
- promote the exchange of information between scientists and industry in all participating countries
- generate a market for high technology products and processes in the field of conservation, and to
- establish individual compatible databanks for information (including image storage, image processing and network transfer).

### Technological development envisaged

EUROCARE structure:

Initial phase:

Industry, scientists and users agree that the presently available chemicals, analytical methods and standards for the treatment of deteriorating objects exposed to environmental pollution are inadequate and short-lived and may even contribute to further damage. Therefore, the participating working groups have defined the most urgent and promising fields of R & D. The materials and parameters which are to be examined will be defined before pilot studies are initiated in zones of different climatic and pollution conditions in Europe. In this connection, international cooperation has already started and interdisciplinary sub-projects and working groups have been set up with a view to treating the topics selected. These working groups are to include partners from industry as well as from the scientific and users' communities. The EUROCARE Board formulated a provisional definition of the following sub-projects:

Execution Phase:

The development of industrial products, methods and techniques is to be achieved by taking the following steps:

- scientists, conservators and art historians are to make a general evaluation of material damage by applying traditional and novel criteria as well as to render a visual description with the aid of new techniques.
- the development of industrial products based on the results yielded by the initial testing phase is required. These new chemicals and methods are to ensure a more effective conservation of the relevant objects.
- studies on conservation materials and techniques are to be carried out using artificial structures, in situ structures, mural paintings and other test surfaces.
- plans have been made for the development of instruments for a special - and in particular an advanced non-

destructive analysis (e.g. by means of laser optics, infrared spectroscopy, biosensors, CCD photogrammetry, microseismology, microclimatography and miniaturized gas chromatography equipment for field work).

- when carrying out the various sub-projects, attempts should be made to develop the data bank system and adapt it to the respective sub-project in order to minimize analytical work and at the same time maximize the success of analysis and treatment. In addition, the lasting effect of new materials and methods of conservation is to be checked.

Final Phase:

A) The information and technology transfer among interested institutions from EUREKA countries, in particular between training centres for conservators and craftsmen, is to be enhanced by pooling the relevant information in various factual data banks.

B) European standards and guidelines for conservation and restoration are to be established under the interdisciplinary sub-projects with Governmental institutions taking an active part. This procedure is aimed at bridging the gap which currently separates industry, scientists and the often sceptical conservators and restorers.

Note under Relationship to other EU Programmes:

Unspecified links with environmental and material programmes of the CEC.

## Markets application and exploitation

The materials, methods and services are to be developed in such a way that they can be applied in all fields of conservation and restoration of materials and objects which are exposed to natural environmental factors as well as to pollution. Some of the products and methods will be appreciated above all by public institutions which are charged with the protection of the cultural heritage; others will be suited for broad application in the building and materials-producing industries. Some products will, however, be too specialized and expensive for general application.

## Project codes

### **BSI**

AUY

conservation

YHO

records management

### **NACE**

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Contribution to project

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Expertise

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Contribution to project

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Expertise

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Contribution to project

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Expertise

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Contribution to project

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Expertise

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Contribution to project

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**Organisation type**  
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Partner

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Contribution to project

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Expertise

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Contribution to project

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Expertise

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Contribution to project

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Expertise

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**Participant role** Partner

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Contribution to project

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Expertise

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**Organisation type** University  
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Contribution to project

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Expertise

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#### 4. Partner

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**Organisation type** University  
**Participant role** Partner

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Contribution to project

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Expertise

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#### 4. Partner

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**Participant role** Partner

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Contribution to project

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Expertise

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Contribution to project

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Expertise

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Contribution to project

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Expertise

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**Participant role** Partner

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Contribution to project

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Expertise

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Contribution to project

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## Expertise

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## Expertise

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**Participant role** Partner

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Contribution to project

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Expertise

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Contribution to project

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Expertise

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Contribution to project

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Expertise

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Location of main contact.

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Contribution to project

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Expertise

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Contribution to project

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## Expertise

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## Contribution to project

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## Expertise

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Expertise

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Contribution to project

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Expertise

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Contribution to project

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Expertise

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Contribution to project

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Expertise

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Contribution to project

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Expertise

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Contribution to project

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Expertise

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Research Institute  
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Contribution to project

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Expertise

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Contribution to project

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## Expertise

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**Participant role** Partner

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## Contribution to project

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## Expertise

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**Participant role**            Partner

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Contribution to project

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Expertise

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Contribution to project

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Expertise

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Contribution to project

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Expertise