

European cultural heritage research at stake?



European Heritage Heads Forum
Potsdam/Berlin, 23-25 May 2012
Johanna Leissner, Fraunhofer Brussels



Evolution of the European Cultural Heritage Programme since 1986 – the world leader!

- 1986 - 1990 1st Period:

“Effects of Air Pollution on Historic Buildings”

•

•

- 1999 – 2002 5th Period

“Protection, conservation and enhancement of European Cultural heritage” within the Key Action “The City of Tomorrow and Cultural heritage” **40 M€**

- 2003 - 2006 6th Period

“Protection of the Cultural Heritage and associated conservation strategies” – within Priority 8 “SCIENTIFIC SUPPORT TO POLICIES” **17 M€**

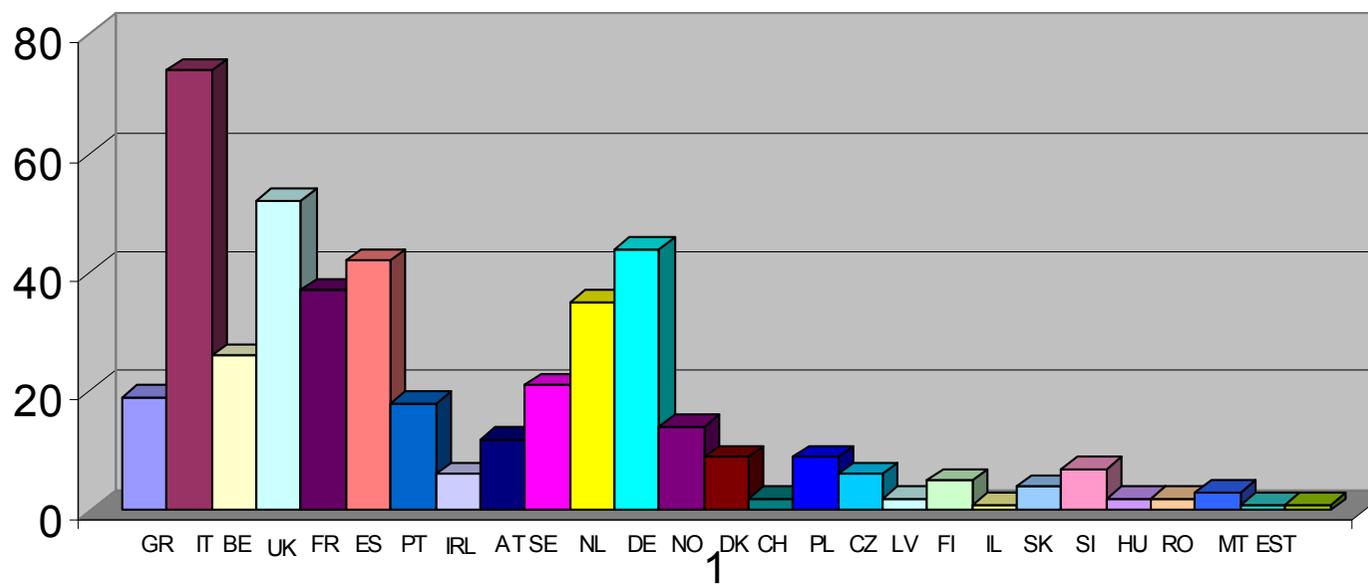
- **2007- 2013 7th Period**

“Protection, conservation and enhancement of cultural heritage, including human habitat” ~ **70 M€**

~ 140 multidisciplinary research projects with about 500 stakeholders



EC project partners on Cultural Heritage 1986 - 2002



J. Leissner, European Commission DG Research, 2003



Latest publications of the EU on cultural heritage research

EUROPEAN COMMISSION / Research & Innovation / Environment

EUROPEAN COMMISSION
European Research Area

EUROPEAN COMMISSION
European Research Area

Survey and outcomes of cultural heritage research projects supported in the context of EU environmental research programmes
From 5th to 7th Framework Programme

Preserving our heritage, Improving our environment
Volume I
20 years of EU research into
EUR 22050 EN

STUDIES AND REPORTS

EUR 24400 EN

Preserving our heritage, Improving our environment
Volume II
Cultural heritage research: FP5, FP6 and related projects
EUR 22050 EN

7
COOPERATION



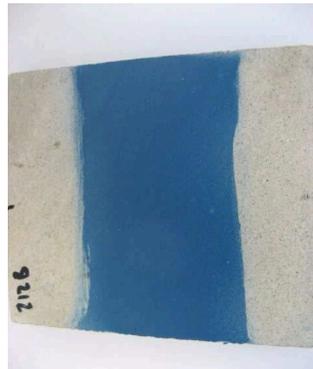
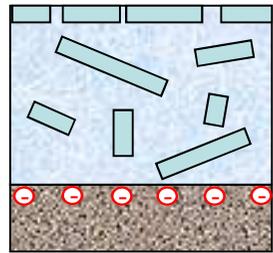
Results and achievements – examples I

Table 4: Main outcomes of FP5, FP6 and FP7 (until 2010) cultural heritage research projects

Main outcomes	FP5		FP6		FP7	
	Nb of projects	%	Nb of projects	%	Nb of projects	%
New instruments/software	11	27	6	26	4	26
New products/materials	8	20	4	17	3	20
New methodologies/strategies/ databases/guidelines	16	39	9	39	7	47
Training seminars and conferences	6	14	4	18	1	7



Water based anti-graffiti coatings for historic buildings and monuments



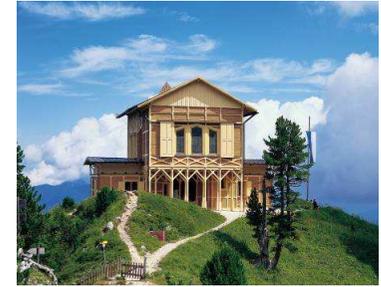
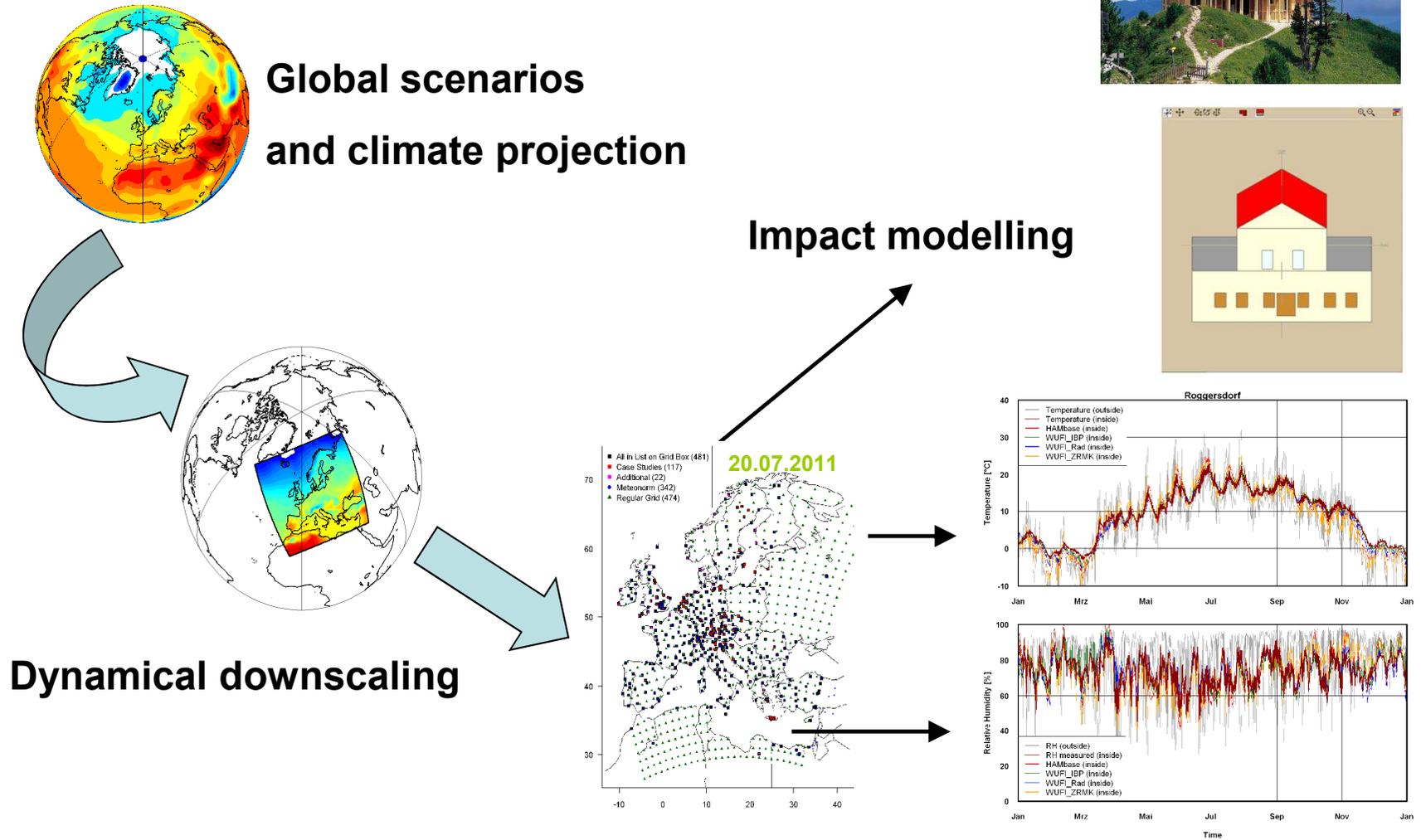
Results and achievements - examples II

Table 5: Participation of women in FP5, FP6 and FP7 (until 2010) cultural heritage research projects

Participation of Women	FP5		FP6		FP7	
	Nb of Women	%	Nb of Women	%	Nb of Women	%
Coordinators	13	32	9	39	7	47
Work package leaders (Partners within consortium)	-	-	37	23	43	24



Climate change and impact modelling for historic buildings and collections



The great concern - Horizon 2020



EUROPEAN COMMISSION

Brussels, 30.11.2011
COM(2011) 811 final

2011/0402 (CNS)

Proposal for a

COUNCIL DECISION

**establishing the Specific Programme Implementing Horizon 2020 - The Framework
Programme for Research and Innovation (2014-2020)**



HORIZON 2020

Commission proposal
for a **80 billion** Euro research and innovation funding
programme (2014-20)

A core part of
Europe 2020, Innovation Union & European Research Area:

Responding to the economic crisis to invest in future
jobs and growth

Addressing peoples' concerns about their **livelihoods,**
safety and environment.

Strengthening the EU's global position in research,
innovation and technology

A time line for Horizon 2020

From 30/11: Parliament and Council negotiations on the basis of the Commission proposals

Ongoing: Parliament and Council negotiations on EU budget 2014-20 (including overall budget for Horizon 2020)

Mid 2012: Final calls under 7th Framework Programme for Research to bridge gap towards Horizon 2020

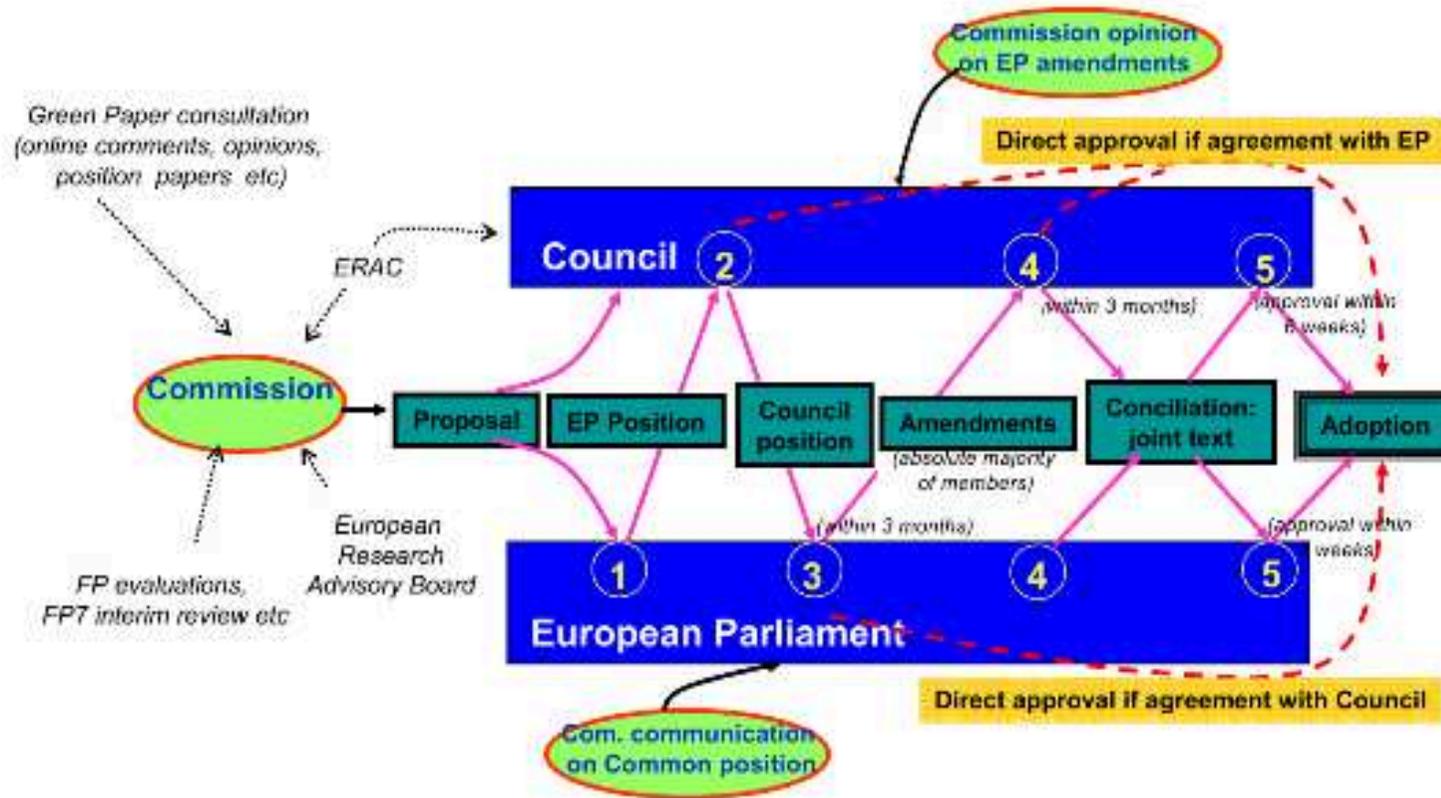
By end 2013: Adoption of legislative acts by Parliament and Council on Horizon 2020

1/1/2014: Horizon 2020 starts; launch of first calls;

Horizon 2020 will be adopted using the "ordinary legislative procedure" (formerly known as "co-decision").



The “Ordinary legislative procedure” (ex “co-decision”)



Two online petitions – one German and one Europe-wide

Cultural heritage research must be included in the 8th EU Framework Programme for Research and Innovation (HORIZON 2020)

Share your petition: Like 275 Send Tweet 194

To see all the signatures visit the [List Signatures](#) page. You can also download signature data or create a PDF of your petition from the [Download Signatures](#) page.

STATISTICS	
Signatures today	5
Signatures yesterday	3
Signatures within last 7 days	58
Total this month	111
Total signatures since 2012-02-09	7169



Cultural heritage research must be included in the 8th EU Framework Programme for Research and Innovation (HORIZON 2020)

Sign

Blog

Signatures

Email friends

 Tweet 113

The Petition

From: European cultural heritage research community
To: European Parliament and European Council

We, the undersigned, would like to plead strongly for the inclusion of cultural heritage research in the 8th EU Framework Programme for Research and Innovation, HORIZON 2020.

In the proposal of the European Commission for HORIZON 2020 cultural heritage has been omitted completely, thus taking away all the funds previously available for research in this field. This decision has serious consequences, since the whole basis for the conservation of cultural heritage in Europe will be eliminated, probably for many years to come.

Due to continuous EU funding of cultural heritage research since 1986 almost 200 projects have been successfully implemented internationally, making Europe the world leader in this sector. As an example of one of the outstanding projects within the current Framework Programme we mention here "Climate for Culture" (Project No. 226973; period: 2009-2014), which assesses the damage potential of climate change on our cultural heritage, its socio-economic impact as well as the possibilities of mitigation. For the first time ever, high resolution climate evolution scenarios will be coupled with whole building simulation models in order to identify the most urgent risks for specific regions and to develop mitigation strategies.

The research programmes funded in the last decades have built up a unique Europe-wide network for interlinking professional know-how in urgent matters of common interest. Only through research and innovation is it possible to meet the complex challenges involved in protecting our cultural heritage. Research funding provided within the EU Framework Programmes is essential for Europe, as it guarantees the development and implementation of state-of-the-art methods that are urgently required all over Europe not only for the conservation of irreplaceable cultural assets but also for their nurture. Without research, such assets cannot be cared for in the most sustainable manner, leading to the loss of a significant part of our cultural identity and an important economic factor that amounts to 3.3% GDP in Europe and a turnover of 338 billion EUR p.a. from tourism.

Thus, the exclusion of cultural heritage research from HORIZON 2020 would be a disastrous step backwards for Europe as a cultural entity as well an extremely negative signal to the rest of the world.

The signatories of this letter request the EU to acknowledge fully its responsibilities now and in the future, to put cultural heritage research back high on its agenda and to address the topic appropriately in the next Framework Programme.

In the name of the signatories

 Sponsor

(No Sponsor Info)

 Spread the word

Help promote this petition by adding this widget on your website

 Links

<http://ec.europa.eu>

<http://ec.europa.eu/pg=cultural>

<http://www.ectp.eu>

<http://www.netherlands.gov.nl>

<http://www.heritage.nl>

<http://www.eu-council.europa.eu>

<http://www.climacomm.eu>

<http://www.ibp.fr>

<http://www.forschungsbund.de/kulturerbe/>

<http://www.ntua.gr>

 Sponsors



Suggestions for the „reflection paper“

😊 include

research for cultural heritage

😊 recommend that

cultural heritage be included in the EU sustainability strategy

😊 recommend that

cultural heritage services be established like the successful ecosystem services



Let`s join forces!



How do we care about the welfare of future generations?

**Sustainability
Preventive conservation strategy**



Ecosystem services

- **Humankind benefits from a multitude of resources and processes that are supplied by natural ecosystems.** Collectively, these benefits are known as **ecosystem services** and include products like clean drinking water and processes such as the decomposition of wastes. While scientists and environmentalists have discussed ecosystem services for decades, these services were popularized and their definitions formalized by the United Nations 2005 Millennium Ecosystem Assessment (MEA), a four-year study involving more than 1,300 scientists worldwide.^[1] This grouped ecosystem services into four broad categories: *provisioning*, such as the production of food and water; *regulating*, such as the control of climate and disease; *supporting*, such as nutrient cycles and crop pollination; and *cultural*, such as spiritual and recreational benefits.
- As human populations grow, so do the resource demands imposed on ecosystems and the impacts of our global footprint. **Natural resources are not invulnerable and infinitely available. The environmental impacts of anthropogenic actions, which are processes or materials derived from human activities, are becoming more apparent** – air and water quality are increasingly compromised, oceans are being overfished, pests and diseases are extending beyond their historical boundaries, and deforestation is exacerbating flooding downstream. It has been reported that approximately 40-50% of Earth's ice-free land surface has been heavily transformed or degraded by anthropogenic activities, 66% of marine fisheries are either overexploited or at their limit, atmospheric CO2 has increased more than 30% since the advent of industrialization, and nearly 25% of Earth's bird species have gone extinct in the last two thousand years.^[2]



- Society is increasingly becoming aware that ecosystem services are not only limited, but also that they are threatened by human activities. The need to better consider long-term ecosystem health and its role in enabling human habitation and economic activity is urgent. To help inform decision-makers, many ecosystem services are being assigned economic values, often based on the cost of replacement with anthropogenic alternatives.
- **The ongoing challenge of prescribing economic value to nature, for example through biodiversity banking, is prompting transdisciplinary shifts in how we recognize and manage the environment, social responsibility, business opportunities, and our future as a species.**



EU Sustainable Development Strategy identifies 7 key challenges:

- Climate change and clean energy
- Sustainable transport
- Sustainable production and consumption
- Better management of natural resources *and cultural resources*
- Public health threats
- Social inclusion, demography and migration
- Fighting global poverty



Further information on European cultural heritage research:

http://ec.europa.eu/research/environment/index_en.cfm?pg=cultural

<http://www.heritageportal.eu/>

http://cordis.europa.eu/fp7/ict/telearn-digicult/digicult-projects_en.html



European cultural heritage research conference

29 October – 3 November 2012

Cyprus

