

PROJECT FINAL REPORT

Grant Agreement number: 244060

Project acronym: MARCOM+

Project title: Towards an Integrated Marine and Maritime Science Community

Funding Scheme: FP7 Support Action

Period covered: from 2010-01-01 to 2012-04-30

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Final publishable summary report

Executive summary

The result of the FP7 funded project MARCOM+ is the establishment of the European Marine and Maritime Science and Technology Forum. The Forum will be operational during a two-year transitional phase 2012-13. It has the task of creating and sustaining effective interactions with the broader stakeholders groups (European member states, regional authorities, industry and civil society). ICES chairs the Forum in its initial phase. The vision of the Forum is based on the premise that no matter how effective and efficient individual science networks may be, their value is multiplied through the synergy that comes with cross-sector cooperation. The vision is a marine and maritime science network which provides a forum for dialogue between Europe's marine and maritime science organizations. The mission is to facilitate identification, definition of cross-cutting topics across the entire marine / maritime science and technology community; through, e.g.: undertaking foresight analysis, assessing societal, governmental, and industrial needs and assist in mobilizing actors and resources to support identified cross-cutting topics.

The European research networks dealing with the marine and maritime research sectors transport and maritime industries, ocean energy, tourism, coastal development, security, living resources, fisheries and aquaculture have decided to join forces and form the Forum in order to take further steps in integrating their science activities. It consists of the following networks:

- Coastal and Marine Union;
- Waterborne Technology Platform;
- European Council for Maritime Applied Research and Development Association;
- European Aquaculture Technology and Innovation Platform;
- European Fisheries and Aquaculture Organization;
- European Fisheries Technology Platform
- European Global Ocean Observing System;
- International Council for the Exploration of the Sea;
- Marine Board;
- European Network of Marine Research Institutes and Stations;
- The Mediterranean Science Commission; the European Fisheries Technology Platform.
- The European Ocean Energy Association

The main partners of the Forum mirror the European maritime and marine research communities and industries and represent the major networks and pan-European research organizations. The Forum will continue its project core activity of guiding the implementation of the European Strategy for Marine and Maritime Research and serving the two-way feedback needs of dialogue between marine science and maritime policy. Future activities will be based on the agreed vision and the mission of the Forum. For the

future work of the Forum, areas of common interests were identified which will be the focus of the initial post-project working period. The Forum is open to interested research networks. It will operate in close consultation with any follow-up activities foreseen by its “sister” FP7 funded project “Support Action to initiate cooperation between the Communities of European Marine and Maritime Research and Science – EMAR2RES’.

More and updated information is available at the MARCOM+ web portal (www.MarineMaritimeScienceForum.eu).

Summary Description of the project context, objectives and results.

Key European networks representing marine and maritime science and technology development joined forces to test and establish appropriate cooperation mechanisms on various stakeholder levels. The consortium itself comprised of the following 10 networks:

- Coastal and Marine Union
- Community of European Shipyards' Associations (representing the Waterborne Technology Platform)
- European Council for Maritime Applied Research and Development Association
- European Aquaculture Technology and Innovation Platform
- European Fisheries and Aquaculture Organization
- Hellenic Centre for Marine Research (representing the European Global Ocean Observing System)
- International Council for the Exploration of the Sea
- Marine Board of the European Science Foundation
- Royal Netherlands Academy of Arts and Sciences (representing the European Network of Marine Research Institutes and Stations)
- Mediterranean Science Commission

The overall objective of the MARCOM+ project was to propose a new, integrated governance and consultancy model, which will take form of a 'forum' (The European Marine and Maritime Science and Technology Forum).

In order to achieve this, the Consortium investigated the European research landscape and relevant policy scene, developed areas of (marine and maritime) common interest as well as analyzed successful and failed cooperation models. This was performed by desktop studies and consultations with experts and stakeholders (including conferences, technical meetings, open and e-fora). Numerous regional case marine/maritime cooperation case studies were analysed, tools for regional research governance were investigated and assessed.

The project's logo, web portal, factsheet and poster were compiled:



Marcom

www.marinemaritimescienceforum.eu/Pages/default.aspx

ATM locations > GO... Animal Hospital Danske eBanking EAEREbjs Job NOAA - National Oc... Weather Undergrou... Imported From IE Options - Basics DONG bjty

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SEVENTH FRAMEWORK PROGRAMME

Welcome to the MARCOM+ web portal

Towards an Integrated Marine and Maritime Science Community – The MARCOM+ initiative

The FP7 support action to integrate the marine and maritime research communities.

The concepts:

In its strategic objectives (2005-2009) the Commission recognised that there is a "need for an all-embracing maritime policy aimed at developing a thriving marine environmentally sustainable manner. Such a policy should be supported by excellence in marine scientific research, technology and innovation." Human activities a pressures threatening safety of coastal settlements, ecosystems and biodiversity and preventing sustainable maritime activities. Science and technology provide or promotion of sustainable economic growth in maritime activities with environmental conservation. Consequently, the large number of ongoing research activities ne sectoral integration in order to address system complexity and interactions, and to introduce new forms of governance in research through consensus and continued described in the Communication on the "European Strategy for Marine and Maritime Research, a coherent European Research Area framework in support of a susta released in September 2008, and adopted by the Council.

The European research networks dealing with the marine and maritime research sectors transport and maritime industries, tourism, coastal development, security, aquaculture have decided to join forces and form a consortium in order to take further steps in integrating their science activities.

The Consortium proposed an initial two-year work programme comprising six work packages and five cross-cutting panels in order to develop a long-term and self and Maritime Science and Technology Forum". During the project, the consortium will test and improve modalities in order to achieve long-term sustainability, base leadership. The Forum will continue its core activity of guiding the implementation of the European Strategy for Marine and Maritime Research beyond the support a feedback needs of dialogue between marine science and maritime policy.

MARCOM+ Video

To see the full MARCOM+ video – click here

Share More info

Adi Kellermann
MARCOM+ Coordinator
IGES Head of Science Programme

0:00

EUROPEAN COMMISSION
European Research Area

MARCOM+

AT A GLANCE

Title: Towards an Integrated Marine and Maritime Science Community

Instrument: FP7 Support Action

Total Cost: 1 090 400 €
EC Contribution: 998 455 €

Duration: 24 months
Start Date: 01/01/2010

Consortium: 10 partners from 6 countries

Project Coordinator: International Council for the Exploration of the Sea, Denmark

Project Web Site:
<http://www.ices.int/marine/world/EuropeanMarineAndMaritimePartnership/aboutus.asp>

Key Words: cooperation, fragmentation, integration, ocean governance, policy-advice, forum.

THE CHALLENGE

Europe has been struggling with fragmentation of the marine and maritime research sectors of the European research Area. This situation has resulted in duplication of existing services and complexity of stakeholder interactions. Reduction of the fragmentation became a priority in the process of structuring the European Research Area and meeting the Lisbon Agenda goals. In the MARCOM+ process major European marine and maritime research networks and international organizations decided to work out the abilities to jointly respond to emerging policy needs when requested to.

PROJECT OBJECTIVES

The overall objective of the project is to propose a new, integrated governance and consultancy model, which will take form of a 'forum' (The European Marine and Maritime Science and Technology Forum). Commencing with delivering a synthesis of the policy scene and a review of existing governance frameworks and partnerships, the group will assess the important collaboration mechanisms and tools for integrated ocean governance. These experiences will allow working out the abilities to address science voice in an integrated and coherent manner. The consortium will furthermore ensure proper communication of proceedings, results and recommendations amongst the stakeholders.

METHODOLOGY

The following five panels will be formed:

- Interdisciplinary dialogue across science panel;
- Technology transfer panel;
- Policy Interface panel;
- Research infrastructure development panel;
- Foresight panel.

These structures, together with the workpackage leaders, will compose the Marine and Maritime Science and Technology Forum.

The key networks representing science and technology development will, by means of conveying interdisciplinary workshops and open foga, join forces to test and establish appropriate cooperation mechanisms on various stakeholder levels. The process will engage a wide scope of stakeholders through the consortium, representation of networks from outside of the consortium, external expertise and the multisectoral project Advisory Board.

EXPECTED RESULTS

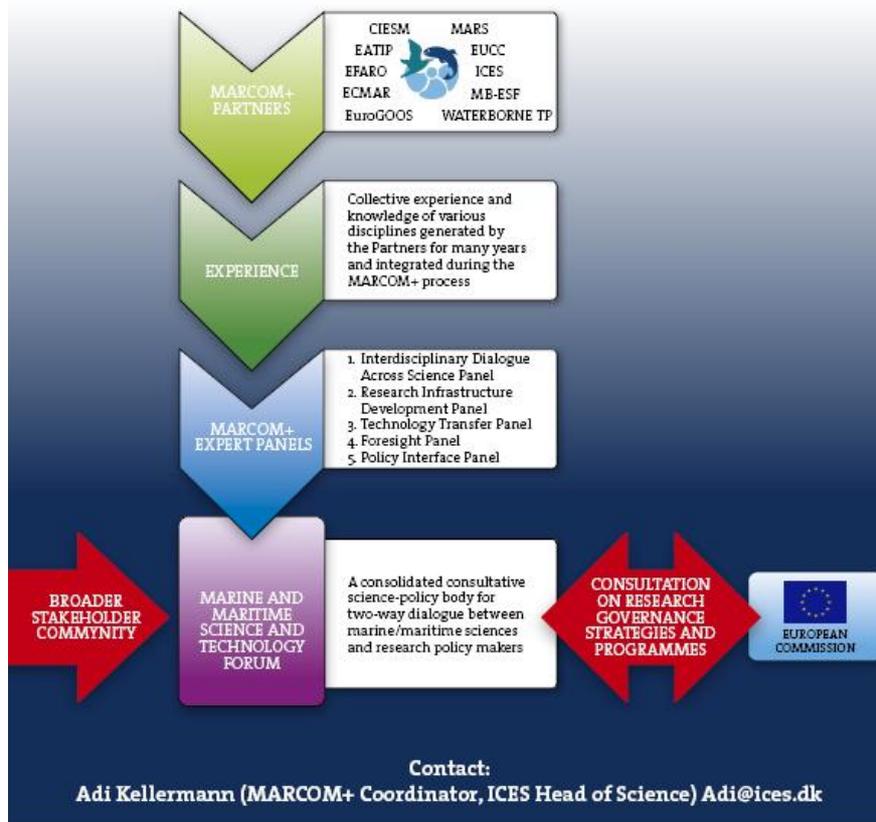
The MARCOM + initiative will constitute a significant step forward in reduction of fragmentation in the marine/maritime sectors of the European Research Area. The processes will contribute to developing interactions between the research community and other partners (industry, regional authorities, civil society and other stakeholders of the sea) starting from regional scales to broader issues shared with EU-neighbouring countries.

Once the project's implementation phase is over, and the group of key science and technology networks will have developed the most effective dialogue mechanisms, the Forum will be able to jointly respond to emerging issues such as prioritization of EU Framework Programmes. Experiences from exercises carried out under the MARCOM+ workplan, will make the group ready to address science needs to research funding and programming organizations in a cohesive and coordinated way, and to support two-way feedback between marine/maritime science and other key stakeholders. The Forum will continue being operationally active as a consolidated consultative body. It will be available to guide the implementation of the European Strategy for Marine and Maritime Research and to assist in development and implementation of the integrated EU Maritime Policy.

PROJECT PARTNERS

International Council for the Exploration of the Sea, DK
Coastal and Marine Union, NL
European Council for Maritime Applied R&D Association (representing the Waterborne Technology Platform), BE
Marine Board – European Science Foundation, FR
Mediterranean Science Commission, MO
European Aquaculture Technology and Innovation Platform, BE
European Fisheries and Aquaculture Organization, FR
Hellenic Centre for Marine Research (representing the European Global Ocean Observing System EuroGOOS), GR
Royal Netherlands Academy of Arts and Sciences (representing the European Network of Marine Research Institutes and Stations MARS), NL
Community of European Shipyards Associations, BE

Marine environment



In order to engage experts and organizations to participate in the MARCOM work an informative article and video have been produced and populated amongst stakeholder communities:

The screenshot shows a Parliament website article. The main heading is "The voice of marine and maritime science communities in European policy-making". The article discusses the implementation of numerous successful projects in Europe and the role of the MARCOM initiative. It mentions the European Commission's launch of the European Marine and Maritime Research Training as an integral part of the EU Maritime Policy. The article also features a sidebar with logos for ICES, CIEM, and MARCOM+, and a list of contacts including Ad Kallemaun and Wacław Kwasnyński. The article is dated 20 October 2011.

The screenshot shows a news article titled "Oceans apart" by Carmen Fraga Estévez. The article discusses the challenges of sustainable fisheries policy in the EU. It mentions that the EU has spent more than 15 years discussing the common fisheries policy (CFP) and is now in a chair of the G20. The article also features a sidebar with a quote: "It seems that there is only one thing on which we all agree: the undeniable failure of the current system". The article is dated 20 October 2011.

The screenshot shows a YouTube video player. The video title is "MARCOM 1920x1080". The video is uploaded by ICESHQ on Jan 12, 2011. The video content shows a map of the Baltic Sea with a ship sailing on it. The video has 170 views and 0 likes. The video player interface includes a play button, a progress bar, and a share button.

The MARCOM+ initiative was presented during numerous events (including interdisciplinary online fora) in which stakeholders from science, policy, NGOs and industry took part.

This consortium's work was supported by five expert panels (with participation of experts from various stakeholder organizations):

- The InterDisciplinary Dialogue Across Science Panel
- The Technology Transfer Panel
- The Policy Interface Panel
- The Research Infrastructure Development Panel
- The Foresight Panel

The work resulted in establishment of the European Marine and Maritime Science and Technology Forum. The network group has been enlarged by the following two organizations (which participated in the work of MARCOM Panels and expressed willingness to officially join the MARCOM initiative):

- The European Fisheries Technology Platform;
- The European Ocean Energy Association.

The following vision and mission of the Forum have been constructed:

VISION

A marine and maritime science community which provides a forum for dialogue between Europe's marine and maritime science organizations, and enhanced research capability

as:

The MARCOM Forum is based on the premise that no matter how effective and efficient individual science networks may be, their value is enhanced through the synergy that comes with strategic concentration of work.

MISSION

- *facilitate identification, definition of cross-cutting topics across the entire marine / maritime science and technology community; through, e.g.:*
 - *undertaking foresight analysis,*
 - *assessing societal, governmental, and industrial needs;*
- *assist in mobilising actors and resources to support identified cross-cutting topics;*

- *communicate the outcome and benefits of the Forum's work among the partners and to stakeholders and governments .*

The Forum's following objectives were agreed upon:

- Bring added value to funded research at the European level by facilitating improved collaboration between marine and maritime science communities;
- Operate a long-term and sustainable platform (The Forum), based on shared interests and shared ownership and leadership, supporting the identification of priorities and facilitating the implementation of cross-cutting, inter-disciplinary challenge based research;
- Provide a forum for effective interactions between the marine and maritime science communities and broader stakeholders group (Member States, regional authorities, industry and civil society).

Establishment of the Forum was officially announced during the 'Fish and Ships – Marine and Maritime Science Partnership in Europe – Achievements and Future Roadmap' conference in March 2012.

The first 2 year (2012-2013) 'testing phase' the partners will resource the Forum with in-kind contributions, such as sending representation to the steering group and relevant working groups meetings as well as affiliated conferences used as platform, and thereby kick-start activities, adding time and effort into it. The Forum's membership fee has been considered. Until the Steering Committee decides otherwise any given financial contributions will be on voluntary basis.

The Forum is open to interested parties. Networks outside the current group will be welcomed to join the Forum (decisions will be taken by the Forum's Steering Committee on individual basis).

The MARCOM+ Project Coordinator (Dr Adi Kellermann) became the Forum's Chair for the initial two year period. He will, together with the Project Manager, continue providing the secretariat function and serve as coordinator to collate and disseminate Forum findings and provide for website functionality during the first phase. The project's webportal will be transformed into the Forum's webportal in Summer 2012. All the project deliverables and documents will remain available online.

Use and dissemination of foreground

TEMPLATE A1: LIST OF SCIENTIFIC (PEER REVIEWED) PUBLICATIONS, STARTING WITH THE MOST IMPORTANT ONES

NO.	Title	Main author	Title of the periodical or the series	Number, date or frequency	Publisher	Place of publication	Year of publication	Relevant pages	Permanent identifiers ¹³ (if available)	Is/Will open access ¹⁴ provided to this publication?
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none

Dissemination activities:

NO.	Type of activities	Main leader	Title	Date	Place
1	Article	ICES	The voice of European marine and maritime science communities in European policy-making	October 2010	The Parliament Magazine
2	Video	ICES	Towards an integrated marine and maritime science community	January 2011	Online
3	Open Forum 1	ESF-MB	MARCOM Open Forum	November 2010	Brussels, BE
4	Open Forum 2	ESF-MB	MARCOM Open Forum	October 2011	Brussels, BE
5	Online Fora	CIESM	CIESM online forum on blue biotechnology and fisheries	From March 2012	Online
6	Conference	ICES	10 th International Conference on Coastal Conservation and Management	April 2010	Estoril, PT
7	Conference	ICES	Seas the Future	June 2011	Torshavn, FO
8	Conference	ICES	SEAS-ERA Open Forum	September 2011	Brussels, BE
9	Conference	ICES	Aquaculture Europe	October 2011	Rhodes, GR
10	Conference	ICES	The European Marine Institute and Stations (MARS) Directors meeting	December 2011	Olhao, PT
11	Conference	ICES	Arctic Frontiers – Energies of the High North	January 2012	Tromso, NO
12	Conference	ICES	North Atlantic Seafood Forum	March 2012	Oslo, NO
13	Conference	ICES	Oceans of Change Early Career Scientist Conference	April 2012	Palma, ES

Section B (Confidential¹⁷ or public: confidential information to be marked clearly)

Part B1

TEMPLATE B1: LIST OF APPLICATIONS FOR PATENTS, TRADEMARKS, REGISTERED DESIGNS, ETC.

Type of IP Rights	Confidential Click on YES/N O	Foreseen embargo date dd/mm/yy yy	Applicati on reference (s) (e.g.	Subject or title of application	Applicant (s) (as on the application)
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none

Report on societal implications

Replies to the following questions will assist the Commission to obtain statistics and indicators on societal and socio-economic issues addressed by projects. The questions are arranged in a number of key themes. As well as producing certain statistics, the replies will also help identify those projects that have shown a real engagement with wider societal issues, and thereby identify interesting approaches to these issues and best practices. The replies for individual projects will not be made public.

A General Information *(completed automatically when Grant Agreement number is entered.*

Grant Agreement Number: 244060

Title of Project: Towards an Integrated Marine and Maritime Science Community

Name and Title of Coordinator: Dr Adi Kellermann

B Ethics

1. Did your project undergo an Ethics Review (and/or Screening)?

- If Yes: have you described the progress of compliance with the relevant Ethics Review/Screening Requirements in the frame of the periodic/final project reports?

No

Special Reminder: the progress of compliance with the Ethics Review/Screening Requirements should be described in the Period/Final Project Reports under the Section 3.2.2 'Work Progress and Achievements'

2. Please indicate whether your project involved any of the following issues (tick box) :

No

RESEARCH ON HUMANS

- Did the project involve children?
- Did the project involve patients?
- Did the project involve persons not able to give consent?
- Did the project involve adult healthy volunteers?
- Did the project involve Human genetic material?
- Did the project involve Human biological samples?
- Did the project involve Human data collection?

RESEARCH ON HUMAN EMBRYO/FOETUS

- Did the project involve Human Embryos?
- Did the project involve Human Foetal Tissue / Cells?
- Did the project involve Human Embryonic Stem Cells (hESCs)?
- Did the project on human Embryonic Stem Cells involve cells in culture?
- Did the project on human Embryonic Stem Cells involve the derivation of cells from Embryos?

PRIVACY

- Did the project involve processing of genetic information or personal data (eg. health, sexual lifestyle, ethnicity, political opinion, religious or philosophical conviction)?
- Did the project involve tracking the location or observation of people?

RESEARCH ON ANIMALS

- Did the project involve research on animals?
- Were those animals transgenic small laboratory animals?
- Were those animals transgenic farm animals?

• Were those animals cloned farm animals?	
• Were those animals non-human primates?	
RESEARCH INVOLVING DEVELOPING COUNTRIES	
• Did the project involve the use of local resources (genetic, animal, plant etc)?	
• Was the project of benefit to local community (capacity building, access to healthcare, education etc)?	
DUAL USE	
• Research having direct military use	
• Research having the potential for terrorist abuse	

C Workforce Statistics

3. Workforce statistics for the project: Please indicate in the table below the number of people who worked on the project (on a headcount basis).

Type of Position	Number of Women	Number of Men
Scientific Coordinator		1
Work package leaders	2	8
Experienced researchers (i.e. PhD holders)	Around 10	More than 50
PhD Students		
Other		

4. How many additional researchers (in companies and universities) were recruited specifically for this project?

Of which, indicate the number of men:

1

1

D Gender Aspects

5. Did you carry out specific Gender Equality Actions under the project? No

6. Which of the following actions did you carry out and how effective were they?

		Not at all effective			Very effective		
%	Design and implement an equal opportunity policy	{	{	{	{	{	
%	Set targets to achieve a gender balance in the workforce	{	{	{	{	{	
%	Organise conferences and workshops on gender	{	{	{	{	{	
%	Actions to improve work-life balance	{	{	{	{	{	
{	Other:						

7. Was there a gender dimension associated with the research content – i.e. wherever people were the focus of the research as, for example, consumers, users, patients or in trials, was the issue of gender considered and addressed?

No

E Synergies with Science Education

8. Did your project involve working with students and/or school pupils (e.g. open days, participation in science festivals and events, prizes/competitions or joint projects)?

No

9. Did the project generate any science education material (e.g. kits, websites, explanatory booklets, DVDs)?

Yes. The MARCOM+ initiative video.
Distributed online and on DVDs.

F Interdisciplinarity

10. Which disciplines (see list below) are involved in your project?

Main discipline²¹: earth and environmental
Associated disciplines: fisheries and maritime
affairs, environment, energy, food safety

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G Engaging with Civil society and policy makers

11a Did your project engage with societal actors beyond the research community? (if 'No', go to Question 14) Yes

11b If yes, did you engage with citizens (citizens' panels / juries) or organised civil society (NGOs, patients' groups etc.)?

One of the MARCOM Partners (The Coastal and Marine Union – EUCC) is an association of NGOs. Several representatives of other NGOs (e.g. the Surfrider Foundation) participated in MARCOM expert panel meetings.

²¹ Insert number from list below (Frascati Manual).

11c In doing so, did your project involve actors whose role is mainly to organise the dialogue with citizens and organised civil society (e.g. professional mediator; communication company, science museums)?	{ {	No
12. Did you engage with government / public bodies or policy makers (including international organisations)		
Yes. The consortium consists of international organizations (inc. two intergovernmental ones – ICES and CIESM). Furthermore representatives of the European Commission participated in numerous MARCOM events.		
13a Will the project generate outputs (expertise or scientific advice) which could be used by policy makers?		
The main output of the project is establishment of the European Marine and Maritime Science and Technology Forum. This body has been established in order to provide (upon request) the end users with expertise / recommendations / advice.		
13b If Yes, in which fields?		
	Energy Environment Fisheries and Maritime Affairs Food Safety Research and Innovation	

13c If Yes, at which level? Local, regional and pan-European		
H Use and dissemination		
14. How many Articles were published/accepted for publication in peer-reviewed journals?	0	
To how many of these is open access²² provided?		
<u>How many of these are published in open access journals?</u>		
How many of these are published in open repositories?		
To how many of these is open access not provided?		
Please check all applicable reasons for not providing open access:		
<input type="checkbox"/> publisher's licensing agreement would not permit publishing in a repository <input type="checkbox"/> no suitable repository available <input type="checkbox"/> no suitable open access journal available <input type="checkbox"/> no funds available to publish in an open access journal <input type="checkbox"/> lack of time and resources <input type="checkbox"/> lack of information on open access <input type="checkbox"/> other ²³ :		
15. How many new patent applications ('priority filings') have been made? <i>("Technologically unique": multiple applications for the same invention in different jurisdictions should be counted as just one application of grant).</i>	0	
16. Indicate how many of the following Intellectual Property Rights were applied for (give number in each box).	Trademark	0
	Registered design	0
	Other	0
17. How many spin-off companies were created / are planned as a direct result of the project?	0	
<i>Indicate the approximate number of additional jobs in these companies:</i>		
18. Please indicate whether your project has a potential impact on employment, in comparison with the situation before your project:		
<input type="checkbox"/> Increase in employment, or	<input type="checkbox"/>	In small & medium-sized enterprises
<input type="checkbox"/> Safeguard employment, or	<input type="checkbox"/>	In large companies
<input type="checkbox"/> Decrease in employment,	<input type="checkbox"/>	<u>None of the above / not relevant to the project</u>
<input type="checkbox"/> Difficult to estimate / not possible to quantify		

²² Open Access is defined as free of charge access for anyone via Internet.

²³ For instance: classification for security project.

<p>19. For your project partnership please estimate the employment effect resulting directly from your participation in Full Time Equivalent (FTE = one person working fulltime for a year) jobs:</p> <p>Difficult to estimate / not possible to quantify</p>	<p><i>Indicate figure:</i></p> <p>‰</p>
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I Media and Communication to the general public

<p>20. As part of the project, were any of the beneficiaries professionals in communication or media relations?</p> <p>No</p>
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<p>21. As part of the project, have any beneficiaries received professional media / communication training / advice to improve communication with the general public?</p> <p>No</p>
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<p>22 Which of the following have been used to communicate information about your project to the general public, or have resulted from your project?</p>		
<p>1 Brochures /posters / flyers</p>	<p>1</p>	<p>Website for the general public / internet</p>
<p>1 DVD /Film /Multimedia</p>	<p>seve ral</p>	<p>Event targeting general public (festival, conference, exhibition, science café)</p>

<p>23 In which languages are the information products for the general public produced?</p>		
		<p>English</p>