REGNET

Cultural Heritage in REGional NETworks
IST-2000-26336

Technology Implementation Plan

Deliverable D12

March 2003

REGNET

Cultural Heritage in REGional NETworks

Deliverable Report D12

Technology Implementation Plan

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Abstract	The deliverable contains the Technical Implementation Plan what covers activities linked with the dissemination and the use of R&D results and essential parts associated with the life cycle of the REGNET project. The process to develop a Technological Implementation Plan provided here has been designed and released to support the documentation and dissemination process as well as to assist the partners in fulfilling our contractual obligations.		
Keywords List	REGNET exploitation		

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Executive Summary

Activities linked with the dissemination and the use of R&D results are essential parts associated with the life cycle of the REGNET project. The process to develop a Technological Implementation Plan provided here has been designed and released to support the documentation and dissemination process as well as to assist the partners in fulfilling our contractual obligations.

The TIP has been set-up as a standard tool for describing and detailing the activities planned for the use of the results achieved during REGNET and ensuring the link with the objectives on which REGNET was selected. In the TIP we tried to cover all the intentions of all partners related to the potential knowledge generated under the project. As mentioned in the EC Model Contract, the Technological Implementation Plan has been submitted at the end of the project. As suggested, WP5 leader issued throughout the project duration and especially at mid-term, a draft version of the TIP, what was regularly used and updated. This practice became particularly useful because results were achieved before the contractual end of the project.

The questions we raised to set-up the TIP draft/final version were ideally suited to assist the drawing up of a co-operation agreement. They include mainly the results (knowledge including information) of REGNET and their potential applications. What stage have we reached in the development of the results and what resources do we need for further (market, environment or policy-related) development? Furthermore it will be discussed whether they are usable-either commercially, socially or scientifically.

Another important part of the implementation is the extent of information on the R&D results using the electronic version of the TIP. All REGNET partners intended to use or disseminate all of the results our-self, but not exclusively, and so, for further dissemination and use, it is in our interest - and of course in the interest of the European Union - to provide third parties with adequate information. This of course excludes information what must not be disclosed to safeguard intellectual or industrial property, confidentiality or legitimate commercial interests.

In addition, the information gathered in the TIP and its electronic version will be used to attract funding for further R&D or market development. This may apply to results where the REGNET consortium requires additional resources and expertise to use or disseminate our results fully; part of the results might be transferred to other applications outside the consortium's main markets.

The TIP we released covers the extent of information to be provided details, where we indicated how the project outputs could lead to applied research. As far as our results offer potential for further economic, environmental or 'quality of life' benefits, this result will be detailed in view of benefiting other social projects. Regarding the developed prototype demonstrators, it is envisaged to give detailed information on the financial and human resources necessary for producing commercial prototypes, and the possible risks involved in further development.

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Situation

	Development of a technological implementation plan (WP5)			
	Task	Leader	Document	MM
Development of an exploitation plan on different levels	5.1	MOT	IR 5.1	10
Refinement of the exploitation plan	5.2	MOT	IR5.2 → **D12**	10

Introduction

1.1 Purpose

The Technological Implementation Plan (TIP) supports the documentation and dissemination process of REGNET Community RTD project for the benefit of European industry and society in general, as well as the intentions of each partner in the Consortium related to the potential knowledge generated under the project. Furthermore, the TIP contains the information aimed at establishing new co-operation agreement for further development of the achieved results, in case any partner does not intend to use or disseminate all of the results himself (or not exclusively), or if he is looking for additional partners for further dissemination and use. To this aim quantitative data about the identified market sectors are provided in order to allow eventual new partners to understand market size, addressed needs, actual vs current competitors, market trends, market potentialities as well as existing barriers and risks.

The activities planned for the use of the results achieved during RTD projects are described, ensuring the link with the objectives on which the project was selected. The results of the project are detailed at the stage of development reached during the life cycle, along with the need they address and the potential applications they leverage.

In addition, the information gathered in the Technological Implementation Plan can be used to attract funding for further R&D or market development – be it from venture capitalists or banks, or under national or community programmes.

1.2 Outline

In Section 0 the REGNET project and its results are described, to document REGNET's outcomes in CORDIS and to inform any appropriate audience. Moreover, the classification of the results will form a basis to reference the contents in the rest of the document.

Section 0 illustrates the intentions for dissemination and use of the achieved results, as well as the timetable of future activities, by each partner of REGNET's Consortium. Dissemination intentions may be presented individually or by a further partnership.

Moreover, section 0 contains optional information aimed to promote search for collaboration through European Commission services. Each partner - individually or as a consortium – shall describe its needs in further collaboration in view of the dissemination and use of its result(s).

Finally, section 0 enables the explanation of the interest for the European Union (the competitiveness of its industries, the usefulness for (part of) its population, etc.) of the achieved results and of their foreseen impacts.

Overview and description of the project and its results

The main original research objective for REGNET is an innovative integration of state of the art technologies and models in a comprehensive technical infrastructure and legal framework to service European cultural workers and enterprises, in particular libraries, museums, archives, galleries, and SMEs, with the purpose to increase their competitiveness in the global marketplace. This infrastructure is accessible via wired and wireless devices, for data entry, search and retrieval, and ebusiness. Moreover, it is the basis for the implementation of a publishing system, which enables small and medium organizations to generate electronic publications.

Three main goals result from this objective:·

- the interoperability of partners' electronic catalogues;

- the definition of a standardised way to create and manage digital contents;

- validation of a model for electronic business and publishing in Cultural Heritage (CH) domain.

- Disponibility of a "critical mass" of content providers.

- Definition of a market place dedicated to CH domain for procurement invocation.

The approach to validate REGNET's concepts and achievements is to complete one-year trial service with valuable contents in four European regions, with a prototype of the infrastructure that is the result of modelling and reengineering core business processes in the field of Cultural Heritage.

The project has the following expected deliverables:

- Content Creation (available content and products) to support the trial service, and Content Management Model.

- The REGNET Platform: System Specifications and implementation.

- Enterprise Engineering and Market Analysis in CH domain.

- The REGNET Legal Framework and Partnership Model.

- Analysis of the trial service, assessment and evaluation of the system.

Project's actual outcome (*in terms of technical achievements or if appropriate task per task*):

- The development of the 'REGNET building blocks' which are necessary to build up an appropriate infrastructure to access catalogues (containing cultural & scientific data, product & service descriptions, etc.) in the Cultural Heritage domain: e.g. CH data management, search and retrieval, shop online, procurement and presentation ontology.

- Access to the 'REGNET System' via wired communication lines as well as via the wireless application protocol (WAP)

The outcome will arise from the following three activities, which operate within a 'support environment for internet markets':

- **Content Engineering** (content management and integration) consists of a cooperative task of experts in the different domains (libraries, museums, archives, etc) and information specialists from the IT and media industry. The outcome and the work done covered by this area of the project follows:

    - Digitisation of 2 and 3 dimensional objects using data capturing systems already on the market.

    - Use of Dublin Core Metadata to enable Cross Domain searches within the 'virtual union' catalogue (generation via an available Metadata Editor or Harvester).

    - Use of documentation standards in the different domains (UNIMARC, CIDOC, ISAD (G)…).

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- Use or modification of existing Document Type Definitions (XML-DTDs) to describe objects and collections (e.g. AMICO, or CIMI-based) as well as products

- Storage of XML (Extensible Markup Language) structured data in databases at the content providers' site.

- Development of Style sheets (XSL) for data presentation in online or printed form (e.g. Dedicated and personalized catalogues).

- **Platform Engineering** (network management, operations & service management) is based on available standards and methods and executed by integrators and IT specialists. The outcome and the work done covered by this area of the project follows:

  - Implementation of a B2B-commerce system based on XML-data transfer, following existing and emerging standards as specified by the ebXML community.

  - Implementation of a B2C-commerce system including an 'Internet auction' system.

  - Integration of a distributed search and retrieval (S&R) component based on Z39.50 standard or similar methodologies based on XML and http protocol, for accessing distributed Cultural Heritage related catalogues as well as product/service catalogues in the eBusiness environment.

  - Integration of a customer management system based on relational data base management supporting customer relationships

  - Use of an appropriate integration environment for all the middleware components (B2B, B2C, S&R, RDBMS. Metadata Management…).

  - Usage of Open Software Standards and Software available preferable in the public domain (e.g. LINUX).

  - Usage of low cost hardware

  - Integration of WAP access to the REGNET System.

- **Enterprise Engineering** (Business Process Engineering, Organisational Changes) is a collaborative work of all addressed stakeholders in the project. The outcome concerning this part of the project is:

  - Definition of Core Processes for REGNET, comprising at least: 1) access and data entry to distributed catalogues, 2) a shopping chart system, 3) creation of a personalized catalogue based on retrieved data from the 'virtual catalogue; (imprinted and electronic form), 4) an auction system (e.g. Duplicates of posters), and 5) a delivery system for physical goods (e.g. Goods for museum stores)

  - Use of XML/EDI (e.g.: Simple-eCo elements like: Order, Invoice, Despatch, Report…) for exchange of business data (based on ebXML recommendations)

  - Definition of the workflow connected with the creation of a electronic publication (e.g. Storyboard development, content management, compilation of data, production, delivery) as reference model for electronic publishing

  - Definition of appropriate 'business profiles' evolved from different functions and processes (e.g. 'content management') for the involved personnel (following the recommendations to the European Parliaments just being worked out).

Several information dissemination activities of REGNET, like publication, attendance and organization of events (conferences, workshops, seminars, symposia, etc.) will let to disseminate the projects concepts and achievements. The prototype is intended to migrate to a regular service:

- Content providers will provide access (via wired and wireless communication) to their digital contents, services and products and offer them to their clients (B2C). They will use the REGNET facilities for multi media productions and data base management, and will cooperate

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with other partners during the creation of databases, generation of multimedia products or creation of a virtual exhibition (B2B). Moreover Content Providers will have the possibility to collaborate with external suppliers in order to buy materials.

- Service Centre operators will generate income by providing the technical infrastructure (software/hardware) to content providers and other partners within the REGNET network. Moreover, they will offer additional IT-services and consultancies.

- Developers will be able to sell the REGNET system to Cultural Service Centres and Content Providers. They will have the possibility to implement additional components for the REGNET software system (additional 'nodes' like an 'exhibition creator', etc). Furthermore, developers will have income via licence fees for the REGNET system

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1.3 Overview of all main project results

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No.	Self-descriptive title of the result	Category[1]	Partner(s) owning the result(s) (referring in particular to specific patents, copyrights, etc.) & involved in their further use
1	Topic Map Generator Tool	A	Centre for Research and Technology Hellas
2	Ontology DataBase Management Tool	A	Centre for Research and Technology Hellas
3	Development of an on-line repository of contemporary Bulgarian art objects	A	Institute of Computer and Communications Systems
4	Implementation of e-Business functionalities with Bulgarian art and cultural heritage objects	A	Institute of Computer and Communications Systems
5	Implementation of electronic cataloguing of Art objects according to the Dublin core standard	A	Institute of Computer and Communications Systems
6	Networking of cultural heritage repositories through the European region	A	Institute of Computer and Communications Systems
7	Developing on-line repositories operating as servers for Z39.50 and SOAP communication protocols	B	Institute of Computer and Communications Systems
8	Support of electronic information services for generic Bulgarian customers	A	Institute of Computer and Communications Systems
9	REGNET proceeding has been prepared, gathering the Consortium results. The Proceeding has been published with	A	Institute of Computer and Communications Systems
10	REGNET infrastructure entry point. Network of collaborative web and WAP portals, integrated with a web services platform, and	A	Motorola S.p.a.

[1] A: results usable outside the consortium / B: results usable within the consortium / C: non usable results

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11	Operational exploitation of a regional Cultural Service Centre (CSC) networked with other ones offering ICT solutions and	A	Tarx N.V.
12	Development of interactive multimedia productions and presentations related to Cultural Heritage and based on new	B	Tarx N.V.
13	Use of new information engineering methodologies (contextual and thematic approach)	B	Tarx N.V.
14	Important step forward in the knowledge engineering facets used on top of information resources (topic maps)	B	Tarx N.V.
15	Service Infrastructure for B2B, B2C	B	Zeus Consulting S.A.
16	Legal Framework for B2B and B2C in CH domain	A	Zeus Consulting S.A.
17	Networked Organisation Model	A	Zeus Consulting S.A.
18	Definition of Information Products and Services	A	Zeus Consulting S.A.
19	Integration and test of existing components, standards and methods	B	Zeus Consulting S.A.
20	Trial service (demonstration phase) followed by a regular service	B	Zeus Consulting S.A.
21	E-Auction System	B	Zeus Consulting S.A.
22	Implementation of E-Business functionalities with CSC Greece	A	Zeus Consulting S.A.
23	Developing on-line repositories operating as servers for Z39.50 and SOAP communication protocols.	B	Zeus Consulting S.A.
24	Integration of B2B and B2C infrastructure with Ontology system (Development of a Java ontology client)	B	Zeus Consulting S.A.

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25	Setup of the Greek Regional Pole (CSC Greece)	A	Zeus Consulting S.A.
26	Study 1: "Cultural Heritage and E-Business: a standards framework"	B	Zeus Consulting S.A.
27	Study 2: "Cultural Heritage and eBusiness: Doing Business in the Global Market"	B	Zeus Consulting S.A.
28	Study 3: "Cultural Heritage and eBusiness: The impact of modern access technology"	B	Zeus Consulting S.A.
29	Legal Framework Consultancy	A	Zeus Consulting S.A.
30	Extension of Technical expertise	A	Zeus Consulting S.A.
31	Marketing of REGNET products	A	Zeus Consulting S.A.
32	SMIL Player (binary version): A Java based multimedia application for the presentation of SMIL documents. Several	A	Salzburg Research Forschungsgesellschaft Mbh
33	Webbased Prototype:The web-based multilingual E-Publishing Prototype is a proof of concept based on open source software	B	Salzburg Research Forschungsgesellschaft Mbh
34	REGNET Publishing Process Description:Description of a general publishing workflow and the mapping on the REGNET publishing	B	Salzburg Research Forschungsgesellschaft Mbh
35	Macromedia Director Template:The template consists of a set of Lingo scripts for the import of REGNET XML data into the	A	Salzburg Research Forschungsgesellschaft Mbh
36	Macromedia Director Template Userguide:A user guide for the Macromedia Director template and possible enhancements in the	A	Salzburg Research Forschungsgesellschaft Mbh
37	REGNET Service-Infrastructure – REGNET Tools	A	Information & Management Consulting E.K.
38	REGNET Demonstrator – Trial service, information material, CSC-related entry pages	B	Information & Management Consulting E.K.

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39	Project Know-How: Implicit and explicit know-how "acquired" during the project	B	Information & Management Consulting E.K.
40	Model(s) for cooperation	A	Information & Management Consulting E.K.
41	Methodologies worked out in different WPs	B	Information & Management Consulting E.K.
42	Information Products and Services	A	Information & Management Consulting E.K.
43	Marketing material	A	Information & Management Consulting E.K.
45	The Regnet system: a set of eBusiness software components managed through a portal.	A	Valtech S.A.
46	Increase technical skill in the following domains: XML, ebXML, Web Services	A	Valtech S.A.
47	Increase knowledge of the application of eBusiness to cultural heritage domain	A	Valtech S.A.
48	Technical management of large, multiple countries, consortia	A	Valtech S.A.
49	European partnership with others industries	A	Valtech S.A.
50	State of the art study report about usable technologies	B	Valtech S.A.
51	Development of a first legal structure for the service network (Cultural Service Centre Europe EEIG)	A	AIT Forschungsgesellschaft mbH
52	Development of a data entry tool	A	AIT Forschungsgesellschaft mbH
53	Development of a topic map display tool	A	AIT Forschungsgesellschaft mbH

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54	Execution of a REGNET services testbed with external cultural heritage partners	A	AIT Forschungsgesellschaft mbH
55	Development of a topic map generation tool	B	AIT Forschungsgesellschaft mbH
56	A market study on the envisaged market segment was carried out	B	AIT Forschungsgesellschaft mbH
57	Consultation services and cataloguing system manage-ment for regions based on the know-how gained within the project are	A	AIT Forschungsgesellschaft mbH
58	A baseline system for ebusiness solutions for images was developed	A	AIT Forschungsgesellschaft mbH
59	The data entry tool was developed as a baseline for a cataloguing system	A	AIT Forschungsgesellschaft mbH
60	A baseline datastructure was created in order to simplify distributed search & retrieval and publishing	B	AIT Forschungsgesellschaft mbH
61	An alternative ebusiness system was developend on basis of php Shop	A	AIT Forschungsgesellschaft mbH
62	An alternative eAuction system was developed	A	AIT Forschungsgesellschaft mbH
63	Definition of content to be provided	B	Space S.p.a.
64	Development of the System Specifications	B	Space S.p.a.
65	Architecture validation	B	Space S.p.a.
66	Information dissemination Plan	A	Space S.p.a.
67	Test of existing components, standards and methods	B	Space S.p.a.

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68	Implementation of Index+ gateway component	B	Space S.p.a.
69	Clustering activities	A	Space S.p.a.
70	Services and activities of CSC Spain	A	Instituto Andaluz de Tecnologia
71	REGNET networking model	A	Instituto Andaluz de Tecnologia
72	Study/Analysis model (model potentially useful into other projects)	A	Instituto Andaluz de Tecnologia
73	Implementation of a native XML database adapted to the structure of the Austrian National Library Picture archive	A	Oesterreichische Nationalbibliothek
74	Realization of ONB picture archive's bilingual web presentation based on native XML database	A	Oesterreichische Nationalbibliothek
75	Setting up basic functionalities of an E-Business with ONB picture archive objects (including the administration of users and	A	Oesterreichische Nationalbibliothek
76	Providing core facilities of web-based cataloguing in the native XML database for ONB picture archive objects (according to	B	Oesterreichische Nationalbibliothek
77	Providing core facilities of web-based cataloguing in the native XML database for ONB picture archive objects (according to	B	Oesterreichische Nationalbibliothek
78	Networking of CH repositories through the European region.	A	Oesterreichische Nationalbibliothek
79	Implementation of online repositories operating as servers for Z39.50 and SOAP communication protocols.	A	Oesterreichische Nationalbibliothek
80	Realization of multilingual, user-adaptable REGNET project website	A	Oesterreichische Nationalbibliothek
81	Setting up a basic model for creating Topic Maps by providing an integrated workflow	A	Oesterreichische Nationalbibliothek

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82	Delivery of increased expertise for consultancy through the Cultural Service Centre Low Countries.	A	Stichting Museon
83	Design and development of ICT concepts for the Cultural Heritage domain	A	Stichting Museon

1.4   Quantified Data on the dissemination and use of the project results

Items about the dissemination and use of the project results (consolidated numbers)[2]	Currently achieved quantity	Estimated future* quantity
# of product innovations (commercial)	....	....
# of process innovations (commercial)	....	....
# of new services (commercial)	....	1: Regnet network
# of new services (public)	....	CH eShop CH Market place
# of new methods (academic)	....	....
# of scientific breakthrough	....	....
# of technical standards to which this project has contributed	....	ebXML
# of EU regulations/directives to which this project has contributed	....	....
# of international regulations to which this project has contributed	....	OASIS
# of PhDs generated by the project	....	....
# of grantees/trainees including transnational exchange of personnel	....	....

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[2] # = number of ... / * "Future" means expectations within the next 3 years following the end of the project

1.5 Technological constraints and forecasts

<This section is important to collect state-of-the-art information about Regnet technological areas. All technical partners have to provide quantitative data on the current constraints and market forecasts of their technological fields with special emphasis on the culture, entertainment, education and tourism applications.>

1.6 Description of each single result

<For each result, add a short summary (200 words maximum). The summary should provide a concise overview of the commercial, social or scientific result in terms of result description, dissemination and use potential, key innovative features of the result, current status and use of the result and its expected benefits. The following aspects should be tackled in this section:

▪ *What are the potential applications for this result?*

Depending on the nature and status of your results, there might be only one – clearly defined – application or several applications in different sectors.

▪ *Who are the end-users of this result, which expectations does it respond to?*

*For each application, there may be several user groups and market sectors. Try to present as many unique – but realistic – combinations of application/user/market-sector as possible so as to give a **comprehensive view of the possible end users profile of your result.***

· *What are the main innovative features/benefits? (technical/commercial success factors)*

Correlate novel features of your result with expected (commercial) benefits, keeping in mind the critical success factors (user needs, market demands, price, etc.) which apply to your result.

▪ *Which are the current market size of the application sectors (see also 2.5.2.4)*

Give a brief analysis of the sector by describing the needs and market size or application potential

▪ *Potential barriers*

Are there potential barriers to overcome? Especially when your results have not yet reached the prototype phase and you are looking for additional partners, you should examine critically possible obstacles to further dissemination and use that could occur in prototyping, pre-series or production phases. The chances for successful market introduction or transfer of a new technology are raised if the technology supplier is aware of the numerous barriers for dissemination and use, and considers these problems by giving a realistic description of the potential advantages of his technology

Checklist for critical success factors: to find out about critical success factors you should try to see your result from the user (demand) side and ask yourself the following questions:

▪ *Do you have a better solution than the state-of-the-art ?*

▪ *How does your technology affect the price of the product/process ?*

▪ *Does the product/process save on environmental/energy resources ?*

▪ *Is reliability improved / maintenance reduced ?>*

1.6.1 Service Infrastructure for B2B, B2C, and Publishing

Internally usable result

<short summary>

Development of a service infrastructure which enables business to business (B2B) transactions, business to consumer (B2C) transactions, as well as production of electronic publications, via internet and wireless networks, integrating state-of-the-art components, standards, and methods in the field of distributed search, retrieval, e-commerce, and telecommunications.

…

1.6.1.1   Current stage of development[3]

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[3] Please tick one category only

Scientific and/or Technical knowledge (Basic research)	☐	x
Guidelines, methodologies, technical drawings	☐	x
Software code	☐	
Experimental development stage (laboratory prototype)	☐	x
Prototype/demonstrator available for testing	☐	
Results of demonstration trials available	☐	
Other (please specify.):	☐	

1.6.1.2   Documentation and information on the result

The following table lists main information and documentation, stating whether public or confidential.

Documentation type	**Details (Title, ref. number, general description, language)**	**Status: *PU*=Public *CO*=Confidential**
Regnet delivrable: Specification	D2	PU

1.6.1.3   Intellectual property rights

In the following table there are indicated all generated knowledge and possible pre-existing know-how (background or sideground) being exploited

Type of IPR	**Tick a box and give the corresponding details (reference numbers, etc.) if appropriate.**		**Knowledge *(K)*/ Pre-existing know-how *(P)***
	Current	**Foreseen**	
Patent applied for	●	●	
Patent search carried out	●	●	
Patent granted	●	●	
Registered design	●	●	
Trademark applications	●	●	
Copyrights	●	●	
Secret know-how	●	●	
other – please specify :	●	●	

1.6.1.4   Market application sectors[4]

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[4] NACE classification .

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Market application sectors				

<Analysis of the market or application sectors: give an analysis of the sector by describing the needs and market size or application potential. If you are at an early innovation stage and you do not have clear market figures available, then try to think about the needs of the users of your usable result: e.g. Why do some products or processes sell well in this market and others not ? Are there regulatory, legal or social constraints that could affect the dissemination and use of your result ? Describe your strengths and weaknesses compared with other technologies. Describe similar initiatives that could be potential competitors, and their success factors. Give any other information that is relevant to successful dissemination and use of the result.>

1.6.1.5 <u>Quantified data about the result (one form per result)</u>

Items (about the results)	Actual current quantity[5]	Estimated (or future) quantity[6]
Time to application / market (in months from the end of the research project)		
Number of (public or private) entities potentially involved in the implementation of the result :		
of which : number of SMEs :		
of which : number of entities in third countries (outside EU) :		
Targeted user audience: # of reachable people		
# of S&T publications (referenced publications only)		
# of publications addressing general public (e.g. CD-ROMs, WEB sites)		
# of publications addressing decision takers / public authorities / etc.		
Visibility for the general public	Yes / No	

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[5] Actual current quantity = the number of items already achieved to date.

[6] Estimated quantity = estimation of the quantity of the corresponding item or the number of items that you foresee to achieve within the next 3 years.

1.6.2 Integrated OPACS Retrieval System

Internally usable result

<short summary>

Development and use of existing - locally held - electronic catalogues (OPACS: Online Public Access Catalogues) referring to cultural & scientific objects contained in libraries, museums, archives, and galleries, as well as to goods and services. Integration of a distributed search and retrieval system to achieve a 'virtual union' catalogue of all OPACS and product/service catalogues held locally.

…

1.6.2.1   Current stage of development[7]

Scientific and/or Technical knowledge (Basic research)	☐
Guidelines, methodologies, technical drawings	☐
Software code	☐
Experimental development stage (laboratory prototype)	☐
Prototype/demonstrator available for testing	☐
Results of demonstration trials available	☐
Other (please specify.):	☐

1.6.2.2   Documentation and information on the result

The following table lists main information and documentation, stating whether public or confidential.

Documentation type	**Details (Title, ref. number, general description, language)**	**Status: *PU*=Public *CO*=Confidential**

1.6.2.3   Intellectual property rights

In the following table there are indicated all generated knowledge and possible pre-existing know-how (background or sideground) being exploited

Type of IPR	**Tick a box and give the corresponding details (reference numbers, etc.) if appropriate.**		**Knowledge *(K)*/ Pre-existing know-how *(P)***
	Current	**Foreseen**	
Patent applied for	● -------------------------------------	●	
Patent search carried out	● …………………………..	●	

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[7] Please tick one category only

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Patent granted	● ……………………………	●	
Registered design	● ……………………………	●	
Trademark applications	● ……………………………	●	
Copyrights	● ……………………………	●	
Secret know-how	● …………………………………	●	
other – please specify :	● …………………………	●	

1.6.2.4   Market application sectors[8]

Market application sectors				

<Analysis of the market or application sectors: give an analysis of the sector by describing the needs and market size or application potential. If you are at an early innovation stage and you do not have clear market figures available, then try to think about the needs of the users of your usable result: e.g. Why do some products or processes sell well in this market and others not ? Are there regulatory, legal or social constraints that could affect the dissemination and use of your result ? Describe your strengths and weaknesses compared with other technologies. Describe similar initiatives that could be potential competitors, and their success factors. Give any other information that is relevant to successful dissemination and use of the result.>

1.6.2.5   Quantified data about the result (one form per result)

Items (about the results)	Actual current quantity[9]	Estimated (or future) quantity[10]
Time to application / market (in months from the end of the research project)		
Number of (public or private) entities potentially involved in the implementation of the result :		
of which : number of SMEs :		
of which : number of entities in third countries (outside EU) :		
Targeted user audience: # of reachable people		
# of S&T publications (referenced publications only)		
# of publications addressing general public (e.g. CD-ROMs, WEB sites)		
# of publications addressing decision takers / public authorities / etc.		

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[8] NACE classification.

[9] Actual current quantity = the number of items already achieved to date.

[10] Estimated quantity = estimation of the quantity of the corresponding item or the number of items that you foresee to achieve within the next 3 years.

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Visibility for the general public	Yes / No

1.6.3 Legal Framework for B2B and B2C in CH domain

Externally usable results.

<short summary>

Definition of Information Products and Services including necessary 'supply chains' and the connected business processes and functions to deliver digital and physical. Setup of a legal framework necessary for all business transaction on the B2B and B2C level (containing payment features, copyright systems, authentication control, etc).

Business process are represented according to UN/CEFAC standard allowing subpart to be used by eb-XML based mechanisms.

Both physical and human actors are modelised.

…

1.6.3.1 Current stage of development[11]

Scientific and/or Technical knowledge (Basic research)	□ x
Guidelines, methodologies, technical drawings	□ x
Software code	□
Experimental development stage (laboratory prototype)	□
Prototype/demonstrator available for testing	□
Results of demonstration trials available	□
Other (please specify.): UML models	□ x

1.6.3.2 Documentation and information on the result

The following table lists main information and documentation, stating whether public or confidential.

Documentation type	**Details (Title, ref. number, general description, language)**	**Status: *PU*=Public *CO*=Confidential**
Regnet delevrable	D3	PU

1.6.3.3 Intellectual property rights

In the following table there are indicated all generated knowledge and possible pre-existing know-how (background or sideground) being exploited

Type of IPR	**Tick a box and give the corresponding details (reference numbers, etc.) if appropriate.**		**Knowledge *(K)*/** **Pre-existing know-how *(P)***
	Current	**Foreseen**	

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[11] Please tick one category only

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Patent applied for	●	●	
Patent search carried out	●	●	
Patent granted	●	●	
Registered design	●	●	
Trademark applications	●	●	
Copyrights	●	●	
Secret know-how	●	●	
other – please specify :	●	●	

1.6.3.4   Market application sectors[12]

Market application sectors				

<Analysis of the market or application sectors: give an analysis of the sector by describing the needs and market size or application potential. If you are at an early innovation stage and you do not have clear market figures available, then try to think about the needs of the users of your usable result: e.g. Why do some products or processes sell well in this market and others not ? Are there regulatory, legal or social constraints that could affect the dissemination and use of your result ? Describe your strengths and weaknesses compared with other technologies. Describe similar initiatives that could be potential competitors, and their success factors. Give any other information that is relevant to successful dissemination and use of the result.>

1.6.3.5   Quantified data about the result (one form per result)

Items (about the results)	Actual current quantity[13]	Estimated (or future) quantity[14]
Time to application / market (in months from the end of the research project)		
Number of (public or private) entities potentially involved in the implementation of the result :		
of which : number of SMEs :		
of which : number of entities in third countries (outside EU) :		
Targeted user audience: # of reachable people		
# of S&T publications (referenced publications only)		
# of publications addressing general public (e.g. CD-ROMs, WEB sites)		

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[12] NACE classification (see **Fehler! Verweisquelle konnte nicht gefunden werden.**).

[13] Actual current quantity = the number of items already achieved to date.

[14] Estimated quantity = estimation of the quantity of the corresponding item or the number of items that you foresee to achieve within the next 3 years.

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# of publications addressing decision takers / public authorities / etc.		
Visibility for the general public	Yes / No	

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1.6.4 Networked organisation model

Externally usable results.

<short summary>

Networked organisation model providing a general framework in order to integrate CH stakeholders which want to benefit from the Regnet services and publish collections or materials. The model standardises guidelines and software interfaces for Regnet integration.

…

1.6.4.1 Current stage of development[15]

Scientific and/or Technical knowledge (Basic research)	☐ x
Guidelines, methodologies, technical drawings	☐
Software code	☐
Experimental development stage (laboratory prototype)	☐
Prototype/demonstrator available for testing	☐
Results of demonstration trials available	☐
Other (please specify.):	☐

1.6.4.2 Documentation and information on the result

The following table lists main information and documentation, stating whether public or confidential.

Documentation type	**Details (Title, ref. number, general description, language)**	**Status:** *PU*=Public *CO*=Confidential
Regnet deliverable: specification	D2	PU

1.6.4.3 Intellectual property rights

In the following table there are indicated all generated knowledge and possible pre-existing know-how (background or sideground) being exploited

Type of IPR	**Tick a box and give the corresponding details (reference numbers, etc.) if appropriate.**		**Knowledge** *(K)*/ **Pre-existing know-how** *(P)*
	Current	**Foreseen**	
Patent applied for	● --------------------------------	●	
Patent search carried out	● ……………………………..	●	
Patent granted	● ……………………………..	●	

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[15] Please tick one category only

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Registered design	● ……………………………..	●	
Trademark applications	● ……………………………..	●	
Copyrights	● ……………………………..	●	
Secret know-how	● …………………………….	●	
other – please specify :	● ……………………….…..	●	

1.6.4.4 Market application sectors[16]

Market application sectors				

<Analysis of the market or application sectors: give an analysis of the sector by describing the needs and market size or application potential. If you are at an early innovation stage and you do not have clear market figures available, then try to think about the needs of the users of your usable result: e.g. Why do some products or processes sell well in this market and others not ? Are there regulatory, legal or social constraints that could affect the dissemination and use of your result ? Describe your strengths and weaknesses compared with other technologies. Describe similar initiatives that could be potential competitors, and their success factors. Give any other information that is relevant to successful dissemination and use of the result.>

1.6.4.5 Quantified data about the result (one form per result)

Items (about the results)	Actual current quantity[17]	Estimated (or future) quantity[18]
Time to application / market (in months from the end of the research project)		
Number of (public or private) entities potentially involved in the implementation of the result :		
of which : number of SMEs :		
of which : number of entities in third countries (outside EU) :		
Targeted user audience: # of reachable people		
# of S&T publications (referenced publications only)		
# of publications addressing general public (e.g. CD-ROMs, WEB sites)		
# of publications addressing decision takers / public authorities / etc.		
Visibility for the general public	Yes / No	

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[16] NACE classification .

[17] Actual current quantity = the number of items already achieved to date.

[18] Estimated quantity = estimation of the quantity of the corresponding item or the number of items that you foresee to achieve within the next 3 years.

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Description of the intentions by each partner

Dissemination plays a very important role to spread the REGNET results.

REGNET promotes the project's position and results to conferences and workshops related to the field of cultural heritage, museum information technologies and cultural heritage regional models. Particular attention has been paid at cultivating contacts and relations with other EU projects (in particular with the OpenHeritage project which REGNET is clustered).

The REGNET project is intended to develop a common platform to apply metadata schemas ensuring interoperability between all information resources in order to enhance the attractiveness of regional networks of memory institutions to improve their socio-economic role getting consensus among all related initiatives and involving advanced interactive multimedia solutions.

The Information dissemination of REGNET project has been done using different types of dissemination channels: Project WEB-Site, conferences, seminars, printed paper and electronic publications. Special attention has been drawn to the participation of project members in relevant standardisation committees and workshops. Due the multidisciplinary (cultural institutions: museums, libraries, archives etc, cultural industries: new media enterprises, ASPs, etc) REGNET addresses different target groups: individuals, organizations, enterprises, and associations

1.7   AIT

REGNET is one of the largest projects of the European Commission within the culture and information technology area. Nowadays cultural organizations increasingly have to deal with the topics digitisation, search in distributed on-line catalogues, conversion by data standards, eBusiness and the establishment of modern service infrastructures in a global market place. This means to engage in new co-operations within the technical implementation field (e.g. museum on-line Shop), or being involved in Business re-engineering processes and the definition of legal frameworks in the development of Internet markets. REGNET aims at all of these topics, and puts particular importance on finding easy and affordable ways to use these new media facilities for regional cultural organisations (museums, files, libraries...). "CDROM on demand, individual virtual exhibitions, museum homepages, distributed search in a virtual union catalogue" are some keywords in this field. With the development of the REGNET demonstration system a wide-range portfolio of technologies and solutions for the cultural heritage area based on international standards will be available. As a result highly-qualified consultancy and simple, economical realisation will be possible.

AIT will implement the REGNET system and offer services eventually in cooperation with the Cultural Service Centre Austria. Joining the CSC Europe EEIG was a further step in this direction.

Due to the flexibility of the REGNET tools, eg. Data entry, search and portal, AIT already has looked into the implementation of the REGNET system into other applications. In the course of this AIT has demonstrated the data entry and search system to the social department of the local community government of Graz and got a very positive reaction on it.

In the cultural heritage field AIT is preparing in collaboration with CSC Austria a national project, called Digipark. This project has already been offered to the regional authorities of the Austrian member state Styria and to the national ministry of education, science and culture. Both proposals are in the process of evaluation right now.

1.7.1   Description of the use and the dissemination of result(s)

Table 1 - No, title (as in section 1.3) and brief description of main result(s)

1	Development of a first legal structure for the service network (Cultural Service Centre Europe EEIG)
2	Development of a data entry tool

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3	Development of a topic map display tool
4	Execution of a REGNET services testbed with external cultural heritage partners
5	Development of a topic map generation tool
6	A market study on the envisaged market segment was carried out
7	Consultation services and cataloguing system manage-ment for regions based on the know-how gained within the project are being carried out
8	A baseline system for ebusiness solutions for images was developed
9	The data entry tool was developed as a baseline for a cataloguing system
10	A baseline datastructure was created in order to simplify distributed search & retrieval and publishing
11	An alternative ebusiness system was developend on basis of php Shop
12	An alternative eAuction system was developed

1.7.2 Quantified data for AIT's main results

Items[19]	Currently achieved quantity[20]	Estimated future quantity[21]
Economic impacts (in EURO)	……………	200.000
# of licenses issued (within EU)	……………	3
# of licenses issued (outside EU)	……………	3
Total value of licenses (in EURO)	……………	90.000
# of entrepreneurial actions (start-up company, joint	……………1	
# of direct jobs created[22]	……………	2
# of direct jobs safeguarded[23]	……………1	3
# of direct jobs lost	……………	

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[19] # = number of ...

[20] The added value or the number of items already achieved to date.

[21] Estimated quantity = estimation of the quantity of the corresponding item or the number of items that you foresee to achieve in the future (i.e. expectations within the next 3 years following the end of the project).

[22] "Direct jobs" means jobs within the partner involved. Research posts are to be excluded from the jobs calculation

[23] Same as for note 40

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1.8 ALI

Alinari, the world's oldest photographic archive has decided to take part of this important EC project mainly for the following reasons:

1. Alinari has already taken part of a project considering similar goals, Aquarelle, and therefore we see great opportunities for the Consortium and for Alinari to use the know how already developed to add important feedback to the project

2. Alinari is a private, commercial photographic content archive and we think that the B2B and B2C project infrastructures are very challenging and important to test and evaluate for the real world

3. Alinari believes that the development of a service infrastructure for the B2B and B2C as well as the integration of distributed search and retrieval systems will indeed exploit the results of the project into a working virtual union business model!

1.9 ICCS

REGNET will especially for Bulgaria mean:

- to give possibility to Bulgarian institutions: schools, galleries, customers to contact the international communities of culture representatives and achievement;
- to establish a virtual network between culture/art institutions, lacking the geographical borders.

Our sentence for REGNET is:

- no space borders
- no time limitations and history constraints to touch and to be aware with European culture achievements.

1.9.1 Description of the use and the dissemination of result(s)

Table 2 - No, title (as in section 1.3) and brief description of main result(s)

1	Development of an on-line repository of contemporary Bulgarian art objects
2	Implementation of eBusiness functionalities with Bulgarian art and cultural heritage objects
3	Implementation of electronic cataloguing of Art objects according to the Dublin core standard
4	Networking of cultural heritage repositories through the European region
5	Developing on-line repositories operating as servers for Z39.50 and SOAP communication protocols
6	Support of electronic information services for generic Bulgarian customers
7	REGNET proceeding has been prepared, gathering the Consortium results. The Proceeding has been published with additional funds, attracted by Bulgarian Governmental Institution – Information and Communication Technologies Development Agency

Table 3 - <u>for each main result</u>, timetable of the use and dissemination activities within the next 3 years after the end of the project

> ***Mention the use and dissemination related activities, the main associated partners, the related milestones and give an indicative timescale***

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Activity	Brief description of the activity, including main milestones and deliverables (and how it relates to data in sections 1.6.x.5 and 1.12.2).	Timescale (months)
Commercial offering of REGNET Tools	Integrate them in the existing portfolio (products and services) Licensing of REGNET tools available for the market Related: provision of information, organisation of events, training, service and appropriate marketing effort according to the project results (Marketing Engineering)	Imminent Ongoing examination of results (licences) Milestone: Month 12

Table 4 - Foreseen collaborations with other entities[24]

R&D	Further research or development	☑	**FIN**	Financial support		☐
LIC	Licence agreement	☑	**VC**	Venture capital/spin-off funding		☑
MAN	Manufacturing agreement	☐	**PPP**	Private-public partnership		☑
MKT	Marketing agreement/Franchising	☐	**INFO**	Information exchange, training		☑
JV	Joint venture	☐	**CONS**	Available for consultancy		☑
			Other	(please specify)		☐

1.9.2 Quantified data for ICCS's main result

Items[25]	Currently achieved quantity[26]	Estimated future quantity[27]
Economic impacts (in EURO)	....	100.000...........
# of licenses issued (within EU)	....	15
# of licenses issued (outside EU)	....	10
Total value of licenses (in EURO)	....	75000
# of entrepreneurial actions (start-up company, joint	....	1
# of direct jobs created[28]	....	0,5
# of direct jobs safeguarded[29]	....	1
# of direct jobs lost	....	....

1.10 CERT

The research and development objectives of REGNET fit perfectly into the general orientation of the research group of CERTH/ITI and will help to further deepen its scientific excellence. CERTH/ITI has recently attracted grants from the Greek Secretariat for Research and Technology (within its

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[24] Please tick appropriate boxes corresponding to your most probable follow-up.

[25] # = number of ...

[26] The added value or the number of items already achieved to date.

[27] Estimated quantity = estimation of the quantity of the corresponding item or the number of items that you foresee to achieve in the future (i.e. expectations within the next 3 years following the end of the project).

[28] "Direct jobs" means jobs within the partner involved. Research posts are to be excluded from the jobs calculation

[29] Same as for note 40

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Programme PRAXE) for producing in six months a spin-off commercial company, which will be capable of exploiting its research. The objective of the spin-off company will be to produce and distribute innovative high technology products based on research results and results from R&D projects in the area of information processing. The Centre for Research and Technology Hellas (CERTH) was in fact built so as to accomplish Technology Transfer, encouragement of entrepreneur ship and innovation in Northern Greece. ITI as a member of CERTH has all necessary support including legal support and helping, business management, marketing, distribution sales channels and accounting in order to create innovative enterprises. In general CERTH/ITI believes that REGNET can work as a factor for the preservation and further exploitation of the European cultural heritage. We also believe that Greece can be an important link to the whole project, due not only to the country's strong cultural background but also to the high level of IT researchers and Institutes.

Items	Currently achieved quantity [a]	Estimated future quantity [b]
Economic impacts (in EURO)	0	200,000
# of licenses issued (within EU)	0	0
# of licenses issued (outside EU)	0	0
Total value of licenses (in EURO)	0	0
# of entrepreneurial actions (start-up company, joint	0	0
# of direct jobs created [c]	2	2
# of direct jobs safeguarded [c]	2	2
# of direct jobs lost	0	0

Actually outcome from the project for CERT are:

Study 1: "Cultural Heritage and E-Business: a standards framework"

The scope of this study is to give all related standards of publishing, content formats, metadata and e-business in details and afterwards to describe which of them are used for the purpose of the REGNET system. The purpose is to provide a complete and detail description of the current standards in the areas of Cultural Heritage and EBusiness and to explicitly provide the analysis for the standards framework that is proposed by the REGNET project

Study 2: "Cultural Heritage and eBusiness: Doing Business in the Global Market"

The main scope of this study is to give the global state of business in the field of cultural heritage as well as the specific status of e-business in the same field. It also contains the specific guidelines being used for the purposes of REGNET project.

Study 3: "Cultural Heritage and eBusiness: The impact of modern access technology"

The main scope of this study is to show the impact of modern access technology on cultural heritage institutions and especially to focus on the wireless access technologies and the transitions that their use delivers on the business sector of these institutions.

1.11 MECH

In participating in the REGNET project, the Stedelijke Musea Mechelen Belgium expect as direct results the full digitalisation of the collections together with the entrance into the culture economy. A substantial higher number of both physical and digital visitors, partly fee-based information services and boosting the existing merchandising channels will generate additional means. This will enable the creation of more digital cultural content and the opening to the public of additional historical buildings within the city.

Items	Currently achieved quantity [a]	Estimated future quantity [b]
Economic impacts (in EURO)		125.000/year

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# of licenses issued (within EU)		
# of licenses issued (outside EU)		
Total value of licenses (in EURO)		
# of entrepreneurial actions (start-up company, joint	1 (partly)	1
# of direct jobs created ^c		2
# of direct jobs safeguarded ^c		
# of direct jobs lost		

1.12 MOT

1.12.1 Description of the use and the dissemination of result(s)

Table 5 - No, title (as in section 1.3) and brief description of main result(s)

Motorola is reinforcing its presence in the EMEA region (Europe, Middle East and Africa) through a series of technical sites located in the most important Countries. Motorola Technology Center Italy (MTCI), as part of Motorola S.p.A., is chartered to design, develop and integrate end-to-end software solutions on top of the Motorola products.

One of the major focus of MTCI refers to third generation mobile systems and applications. The forthcoming deployment of GPRS and UMTS will provide customers with an enhanced bandwidth and the capability of exploiting a packet switched access. The latter characteristic will increase the attractiveness of a variety of different services since it allows a billing policy based on the amount of data really transferred between the customer and the network rather than on the whole connection time as it happen in a common circuit switched system. WAP services and in general services based on data transfer will explode on mobile networks as they did on fixed systems (Internet). MTCI is already committed to develop advanced WAP services for Motorola customers and project REGNET offers the possibility to explore a new field of application such as the dissemination of cultural contents through mobile systems.

MTCI is extremely interested in investigating how the WAP technology (and in general data communication on future mobile networks) can match the need of accessing cultural contents distributed by service providers. MTCI also plans to exploit the project results in the telematics field, i.e., the distribution of data contents to customers moving on board of cars or public transportation means. The correlation between data downloaded through WAP services and information derived from satellite navigation systems (GPS) may offer to travelers a way to be informed quickly and timely about the cultural opportunities offered by the sites included in the REGNET consortium.

1	REGNET infrastructure entry point. Network of collaborative web and WAP portals, integrated with a web services platform, and internationalised in 11 European languages easily extensible.

Table 6 - for each main result, timetable of the use and dissemination activities within the next 3 years after the end of the project

Mention the use and dissemination related activities, the main associated partners, the related milestones and give an indicative timescale		
Activity	**Brief description of the activity, including main milestones and deliverables (and how it relates to data in sections 1.6.x.5 and 1.12.2).**	**Timescale (months)**

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REGNET infrastructure entry point	Integrate them in the existing portfolio (products and services)	Imminent
	Licensing of REGNET tools available for the market	Ongoing examination of results (licences)
	Related: provision of information, organisation of events, training, service and appropriate marketing effort according to the project results (Marketing Engineering)	
		Milestone: Month 12

Table 7 - for each main result, timetable of the use and dissemination activities within the next 3 years after the end of the project

Table 8 - Foreseen collaborations with other entities[30]

R&D	Further research or development	☑	**FIN**	Financial support	☑
LIC	Licence agreement	☐	**VC**	Venture capital/spin-off funding	☐
MAN	Manufacturing agreement	☐	**PPP**	Private-public partnership	☐
MKT	Marketing agreement/Franchising	☐	**INFO**	Information exchange, training	☑
JV	Joint venture	☐	**CONS**	Available for consultancy	☐
			Other	(please specify)	☐

1.12.2 Quantified data for MOT's main result

Items[31]	Currently achieved quantity[32]	Estimated future quantity[33]
Economic impacts (in EURO)	....	125.000
# of licenses issued (within EU)	....	5
# of licenses issued (outside EU)	....	....
Total value of licenses (in EURO)	....	....
# of entrepreneurial actions (start-up company,	....	....
# of direct jobs created[34]	....	....
# of direct jobs safeguarded[35]	....	....
# of direct jobs lost	....	....

1.13 Museon

Museon is targeting to deliver ICT-services to museums and other cultural institutes. The potential market is of a reasonable scale. The Netherlands has a large number (900) of museums and also

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[30] Please tick appropriate boxes corresponding to your most probable follow-up.

[31] # = number of ...

[32] The added value or the number of items already achieved to date.

[33] Estimated quantity = estimation of the quantity of the corresponding item or the number of items that you foresee to achieve in the future (i.e. expectations within the next 3 years following the end of the project).

[34] "Direct jobs" means jobs within the partner involved. Research posts are to be excluded from the jobs calculation

[35] Same as for note 40

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other cultural and educational institutes like Visitors Centres. Of the museums 395 have websites, these form one of the major groups for our bussiness. This presumption is based on the familiarity of these institutes with ICT.

Major projects have been carried out by the Museon for "Stichting Nationale Park de Hoge Veluwe" (project management and exhibition design and content). Also in Germany, Bremen a large project was delivered: concept development for a large exhibition on Rhododendrons. Also several smaller projects have been carried out e.g. designing, producing a Firebrigade museum. In these project Museon has sofar outsourced the ICT-productions.

In doing this Museon has established a wide range of contacts and thereby potential clients. In the Dutch museum arena Museon in a wellknown player. By using these already existing contact and networks in combination with experiences gained from the Regnet and Open Heritage project the Museon will extend its working area more than before to ICT-applications and consultancy.

Museon has for example in 2002 gained a net profit on the "Hoge Veluwe project" of 30.000 Euro's.

Museon estimates the profit levels for ICT-products to be significantly higher than just for content delivery. The possibility to offer a more complete pallet of product will boost Museon's attractiveness for potential customers.

Museon foresees a rise in commissions resulting in the following

	2003	2004	2005
Profits	200.000	300.000	375.000
Costs	155.000	210.000	250.000
Net profit	*45.000*	*90.000*	*125.000*

1.14 TARX

As an R&D partner Tarx nv Belgium expects from REGNET the realisation of a technological and business framework to support the digital and culture economy activities of art and culture related institutions. Through the results of REGNET, cross-cultural realisations between European regions can be carried out. The main focus lies on scalable, multilingual and configurable on demand information structures for regional museums and archives on one hand and cultural tourism initiatives based on specific themes on the other hand.

TARX took care about WP4 what covered the demonstration, assessment and evaluation phase of the REGNET project. After the validation phase of WP 3, refinements and additions to the individual technical modules were carried out together with an integration of all the modules. The Cultural Service Centre approach was worked out and some of the CSCs exist already or are in the process of being established. All CSCs reside under the umbrella of a European Economic Interest Group (EEIG): CSC Europe. Formerly informal working groups evolved into a more formal collaboration, namely the respective regional CSCs. Via general and specific demonstrations sessions, mainly but not exclusively with internal personnel of the content partners, feedback was gathered through different methodologies, all of this resulting in a SWOT analysis. The main outcome of this analysis can be summarized as follows: excellent score on benefit/cost ratio, innovative technologies, internationalization and technical functionalities; still some work to do on user support, reliability and user friendliness. Opportunities are: strengthen cultural organizations, investments in art, cultural tourism, wireless technology, increased Internet use and spending money in cultural related leisure. As threats were categorized: acceptance of Internet payment mechanisms, new (niche) competitors, the follow up and detection of new opportunities and the risk to support the dual society tendency. Several methodologies, activities and technical modules found already their way to real life applications.

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Items	Currently achieved quantity [a]	Estimated future quantity [b]
Economic impacts (in EURO)		622500
# of licenses issued (within EU)		65
# of licenses issued (outside EU)		
Total value of licenses (in EURO)		325000
# of entrepreneurial actions (start-up company,	1	1
# of direct jobs created [c]		3
# of direct jobs safeguarded [c]		
# of direct jobs lost		

The table below reflects the expected costs, revenues, profit/loss and breakeven figures for the specific activities of TARX as an individual company or as part of CSC Low Countries. These figures represent the primary needs of the target market of Belgium and The Netherlands. Four main activities, for which TARX owns the copyrights and possesses the skills, can be distinguished:

1. Interactive multimedia productions through licences (e-Publishing)

2. Consultancy on information and knowledge engineering (themes and topic maps)

3. Hosting of applications of Cultural Heritage Institutions

4. Member fees (usable as consultancy in a CSC environment).

Business scenario/3y	membership	hosting	licences	consultancy
number/fee	80/small	35/small	65/5000 €	85/3500 €
	year 1	year 2	year 3	
Costs	155125,00	235946,50	361453,50	
Income	147500,00	270000,00	396250,00	
Profit/loss	-7625,00	34053,50	34796,50	
Breakeven	14 months			

The table above forms the basis or bottom line for businesses coming out from the REGNET results for TARX and reflects a prudent, no much risk approach.

Additional activities can be expected from demands by other countries served by other CSCs. A 50% increase of the licences-activity can be expected taking into account the competition in the other countries.

Another kind of activities will be the implementation of modules "owned" by other companies and CSCs. This can also be estimated at 50% of the licences numbers. But in this case the own earnings will be based on a royalty-scheme.

It is evident that in the latter cases the breakeven will be reached much earlier.

1.15 VALT

Valtech is proud to participate in the REGNET project, which will allow us to enter the cultural heritage e-market. Along with our expertise in the field of ebusiness, REGNET will allow us to develop new knowledge about processes and technologies in the cultural area. Valtech's aim is to be a major player in the growing B2B market.

About Valtech: Valtech is an international consulting firm specialized in e-business.

Valtech assists its customers create a sustainable competitive advantage (e-advantage) through the development of new Internet applications integrated with existing systems. As a result of its international network and significant Knowledge Management investments, Valtech has a unique expertise in the definition and implementation of e-business projects in Europe and the U.S.

REGNET illustrate the use of advanced new technologies in the world of Cultural Heritage. It provides useful material that can be use by many organisations from cultural sector. Mix of knowledge coming from both worlds (new economy and cultural heritage) in order to produce software is a strong advantage we are able to exploit now. New form of business call ASP (Application Service Provider) and work is allowed.

During the REGNET project we have been able to set-up a market place based on the very new B2B standard ebXML. Main advantage of this approach is interoperability. In this way, REGNET is on the cutting age of new technologies and shows the way for further development. EbXML has been identified by the EC has major B2B challenge for next generation in order to integrate the supply chain. This is demonstrate by the SEEM (Single European Electronic Market) initiative (http://europa.eu.int/information_society/topics/ebusiness/ecommerce/seem/index_en.htm);   REGNET is one of the project from the SEEM cluster.

1.15.1 Description of the use and the dissemination of result(s)

Table 9 - No, title (as in section 1.3) and brief description of main result(s)

1	The Regnet system asset: a set of eBusiness software components dedicated to cultural heritage, managed through a portal. This software will be use, as it, if we have clients or may be re-used as basis for further developments.
2	Increase technical skill in the following domains: XML, ebXML, Web Services. We are going to use this knowledge into our many businesses: training, consulting and project development. EbXML will be a crucial technology, at the core of our business, we want to develop through many channels; it is a way for us to address the EDI market.
3	Increase knowledge of the application of eBusiness to cultural heritage domain. We are going to use this knowledge in order to gain new business from new clients coming from the cultural sector.
4	Technical management of large, multiple countries, consortia. This international knowledge will be very helpful in order to obtain business from large European industries such as Airbus which is a very important client for Valtech Toulouse.
5	European partnership with others industries. This will allows us to go on working on innovative sector and technologies.
6	State of the art study report about usable technologies. These studies allow to develop new application on sound basis.

Table 10 - for each main result, timetable of the use and dissemination activities within the next 3 years after the end of the project

Mention the use and dissemination related activities, the main associated partners, the related milestones and give an indicative timescale		
Activity	**Brief description of the activity, including main milestones and deliverables (and how it relates to data in sections 1.6.x.5 and 1.15.2).**	**Timescale (months)**
B2B training	A new training module will be elaborated as well as technical seminar. Valtech customers will be notified.	18
Investigation of the cultural sector	The French cultural sector will be investigated and REGNET result will be demonstrated in order to get new businesses	24

Development of new applications	Based on the REGNET framework new applications will be develop in order to address such sector as indoor Wireless application for museum..	18
B2B, EDI sector	Based on training and seminar new customer will be approached. Valtech offer will be presented.	12

Table 11 - Foreseen collaborations with other entities[36]

R&D	Further research or development	☑	FIN	Financial support	☑
LIC	Licence agreement	☐	VC	Venture capital/spin-off funding	☐
MAN	Manufacturing agreement	☐	PPP	Private-public partnership	☐
MKT	Marketing agreement/Franchising	☐	INFO	Information exchange, training	☑
JV	Joint venture	☐	CONS	Available for consultancy	☑
			Other	(please specify)	☐

1.15.2 Quantified data for VALT's main result

Items[37]	Currently achieved quantity[38]	Estimated future quantity[39]
Economic impacts (in EURO)	....	....
# of licenses issued (within EU)	....	....
# of licenses issued (outside EU)	....	....
Total value of licenses (in EURO)	....	....
# of entrepreneurial actions (start-up company, joint ventures…)	....	....
# of direct jobs created[40]	....	....
# of direct jobs safeguarded[41]	....	....
# of direct jobs lost	....	....

1.16 ZEUS Consulting S.A.

1.16.1 Description of the use and the dissemination of result(s)

Table 12 - No, title (as in section 1.3) and brief description of main result(s)

1	Service Infrastructure for B2B, B2C
	Integration of the service infrastructure within the premises of ZEUS that will enhance the quality of

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[36] Please tick appropriate boxes corresponding to your most probable follow-up.

[37] # = number of ...

[38] The added value or the number of items already achieved to date.

[39] Estimated quantity = estimation of the quantity of the corresponding item or the number of items that you foresee to achieve in the future (i.e. expectations within the next 3 years following the end of the project).

[40] "Direct jobs" means jobs within the partner involved. Research posts are to be excluded from the jobs calculation

[41] Same as for note 40

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	the services that ZEUS is offering to end users (content providers)
2	Legal Framework for B2B and B2C in CH domain
	A new company named CSC Hellas has been set up and is operating in the CH domain
6	Trial service (demonstration phase) followed by a regular service
	The regular service will be supported by CSC Hellas
7	E-Auction System
	ZEUS will be able to support on line auctions
8	Implementation of E-Business functionalities with CSC Hellas
9	Developing on-line repositories operating as servers for Z39.50 and SOAP communication protocols.
	Integration of state of the art servers and communication protocols to the existing services that ZEUS is providing to the content providers
11	Setup of the Greek Regional Pole (CSC Hellas
	New company operated by ZEUS
15	Legal Framework Consultancy
	One of the main objectives of ZEUS future activities in Greece of the new established company CSC Hellas.

Table 13 - <u>for each main result</u>, timetable of the use and dissemination activities within the next 3 years after the end of the project
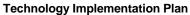
Mention the use and dissemination related activities, the main associated partners, the related milestones and give an indicative timescale		
Activity	**Brief description of the activity, including main milestones and deliverables (and how it relates to data in sections 1.6.x.5 and 1.16.2).**	**Timescale (months)**
Legal Framework Consultancy	Provide consultancy to Greek and European users based on the experience gained from the legal framework. This activity will be marketed through the consulting department of the company. Dissemination actions will include special brochures in the Greek language and face to face presentation by specialised consultants.	**Start" End of project** **End: month 36**
Extension of Technical expertise	R&D activities for the extension of available technology in order to support future services and needs, basically in the Greek market.	**Start" End of project** **End: month 12**
Marketing of REGNET products	Marketing, exploitation and dissemination activities of the REGNET final products. The exact strategy will be decided in an at least 3 year business plan before the end of the project.	**Start" End of project** **End: month 36**

Table 14 - Foreseen collaborations with other entities[42]

R&D	Further research or development	☑	**FIN**	Financial support	☐
LIC	Licence agreement	☐	**VC**	Venture capital/spin-off funding	☑
MAN	Manufacturing agreement	☐	**PPP**	Private-public partnership	☐

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[42] Please tick appropriate boxes corresponding to your most probable follow-up.

MKT	Marketing agreement/Franchising	☐	**INFO**	Information exchange, training	☐
JV	Joint venture	☑	**CONS**	Available for consultancy	☑
			Other	(please specify)	☐

1.16.2 Quantified data for ZEUS Consulting S.A. main result

Items[43]	Currently achieved quantity[44]	Estimated future quantity[45]
Economic impacts (in EURO)	0	250,000
# of licenses issued (within EU)	0	20
# of licenses issued (outside EU)	0	10
Total value of licenses (in EURO)	0	20
# of entrepreneurial actions (start-up company, joint ventures…)	0	2
# of direct jobs created[46]	2	17
# of direct jobs safeguarded[47]	2	9
# of direct jobs lost	0	2

3.10. All partners dissemination activities

Table 14 - for each main result, timetable of the use and dissemination activities within the next 3 years after the end of the project

Mention the use and dissemination related activities, the main associated partners, the related milestones and give an indicative timescale		
Activity	**Brief description of the activity, including main milestones and deliverables (and how it relates to data in sections 1.6.x.5 and 1.12.2).**	**Time scale (months)**

---

[43] # = number of ...

[44] The added value or the number of items already achieved to date.

[45] Estimated quantity = estimation of the quantity of the corresponding item or the number of items that you foresee to achieve in the future (i.e. expectations within the next 3 years following the end of the project).

[46] "Direct jobs" means jobs within the partner involved. Research posts are to be excluded from the jobs calculation

[47] Same as for note 40

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Commercial offering of REGNET Tools	Integrate them in the existing portfolio (products and services) Licensing of REGNET tools available for the market Related: provision of information, organisation of events, training, service and appropriate marketing effort according to the project results (Marketing Engineering)	Imminent Ongoing examination of results (licences) Milestone: Month 12
Push REGNET Demonstrator	Enhance Web Site for the demonstration of tools (marketing instrument): integrate new versions, improve interface and information basis, establishing an access-restricted area for members and customers. Enhance web site (CSC portal site)	In progress Published: Month 2 Updated & enhanced permanently
Exploit Project Know-How	Derive new consultance services, e. g. IMAC will use and adopt the Topic Map conectp to ists portfolio as a new tool for knowledge management and promote it to new audiences	Month 1 – Month 36
Exploitation of the Cultural Service Center Model	Establised/promote the CSC for Germany and Switzerland	Imminent
Methodologies	Integrate methodologies developed and used for related activities. Integrate them to the knowledge base for CSC members and customers	Month 6
Information Products and Services	Adopt and integrate further products and services based on the REGNET developments	Imminent
Marketing Material	Generate new (german) marketing material (web site, flyer, presentations)	Imminent
Promoting CSC Spain	- Difussion during the activities of IAT. - Brochures in Spanish. - Web banners. - Contacting regional administration for CSC funding (operative costs) and possibilities of co-operation and integration of contents. Other contacts in order to provide contents.	1 - 36
Promoting REGNET CSC model	Difussion through other activities of IAT at international level. Brpchures in English. Contacts with institutions suitable for new CSCs.	1-36
Study/Analysis model	Using the know-how IAT has received/developed during the project in other studies and projects (when possible).	1-36
Clustring activities	The clustering activities will be presented at EVA2003 Conference at the end of March 2003	March 2003

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Market analysis	Market analysis study will be performed in order to position the tools developed within REGNET in the market and to identify the opportunities for further exploitation.	Start: End of projec t End: month 6
Extension of knowledge	The gained knowledge will be used to future projects and will help to enrich the projects that are currently under development.	Start: End of projec t End: month 24
Web site development	A web site will be developed for the dissemination and promotion of the tools. The site will offer online demos and will be continuously updated in order to present the features to be supported by the new versions of the tools.	Start: End of projec t End: month 24
CSC Low Countries (CSC LC) and new business opportunity	Together with TARX and MECH Museon found the CSC-LC . Together with TARX Museon will build the CSC-LC to a well known player in the CH field for delivering services to Cultural Heritage organisations Setting up a separate company in order to overtake the business activities mentioned higher	immin ent 12 36
Information engineering	Projects within the museum sector Extension to cross border initiatives (virtual expositions) Research on new methodologies	immin ent 6 12
CSC Low Countries operational service centre	Conclude the founding process of CSC Low Countries. Associated partners: MECH and MUS Prospect regional cultural heritage institutions in Belgium and The Netherlands via regular workshops as main marketing channel. Established image in the cultural world	immin ent 3-month ly 12
Legal Framework Consultancy	Provide consultancy to Greek and European users based on the experience gained from the legal framework. This activity will be marketed through the consulting department of the company. Dissemination actions will include special brochures in the Greek language and face to face presentation by specialised consultants.	Start" End of projec t End: month 36
Extension of Technical expertise		

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Multimedia productions and presentations	Development of guidelines and templates for internal use	2-6
	Frequent contacts with Flanders Multimedia Valley for integration in multimedia projects and initiatives.	imminent
	Web site as a forum, containing several Cultural Heritage multimedia productions	12
Editorial, translation and information engineering	For the museum sector	imminent
	For the archive sector via umbrella organisations	18
	For the art gallery and art dealers sector case by case	24
Knowledge engineering	Start up an R&D project with partners of the considered field and with partners of a (set of) content domain(s)	6
	Usable structures for implementation in real life cases	30

3.11. Pricing list for REGNET services and products

Category	Products	Price /Pricing schemes
Database Services[48]		
	Database development (XML-database) (Building up a new database: analysis of data, setting-up of database & web interface, with search facilities (standard)	Once-only payment – calculation according to effort 2 PT (per database)* Example € 1500,--
	Conversion & Import of data (Processing of data, batch import)	Once-only payment – calculation according to effort 1,5 PT (per database)* Example € 1200,--
	Database Hosting (hosting and maintaining databases, including usage of web-based tools, help hotline)	Annual fee € 600,- (up to 2 databases)
	Training	Once-only payment* 1-day-workshop (1 PT) Example € 900,--
	Thesaurus Management Module	Once-only payment € 600,--
	Costs (Sum) for a Standard Project: € 4500,-- - 5000,- (first year) + € 600, -- per year.	
Topic Maps		
	Topic Map Authoring Environment (Could cover: Set-up of an own workspace, limited amount of topic maps, hosting)	Annual fee
	Server-Licence/Software Package	Once-only payment +annual fee (support, ...)
	Generation of a „personalized" topic map	Once-only payment – calculation

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[48] Calculations were made on the basis of a bid of offers – for a very individual project. A lot of other „services" are possible (e. g. adapation of search interface) but were not added here in order to avoid intransparency. The given issues could serve as a model for a „standard" project/customer.

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			according to effort ????
	Topic Map Templates (generic topic maps)		Per Topic Map ??
	Training, Seminars		Individual 1-day-workshop (per person) Example € 400,--
E-Publishing			
	New production with as reference for the order of magnitude: FAYDHERBE (number of templates, texts, images, animations, etc.) Texts, images, translations, etc. : delivered by client		5000 €
	Smaller and bigger productions will be calculated on the basis of the ratio of the templates, texts and images vis-à-vis the FAYDHERBE production Texts, images, translations, etc. : delivered by client		Min 3500 € - ....
	New production based on an existing production (FAYDHERBE reference) for the same client but with other content (e.g. other artist or theme embedded in an already existing city guide without major modifications of the kernel structure) Texts, images, translations, etc. : delivered by client		2000 €
	Typical consultancy/study of a concept for e-Publishing		3500 €
E-Business			
Portal			
	Stand alone multi-purpose portal system		3 months
	Transfer of technological Know-how and knowledge to set-up and maintain professional web-portals		Rate 8000 €/month
	Enhancement of portal functionality based on future costumer requirements		Rate 8000 €/month

Search for Collaboration through Commission services

The following information must be consolidated at the consortium level and transmitted to the Commission by the co-ordinator. These data will be disseminated by the commission.

A separate documentation might be completed by each partner willing to set up new collaborations, and seeking dissemination support from the CORDIS services.

1.17 Collaborations sought[49]

R&D	Further research or development	☐	**FIN**	Financial support	☐
LIC	Licence agreement	☐	**VC**	Venture capital/spin-off funding	☐
MAN	Manufacturing agreement	☐	**PPP**	Private-public partnership	☐
MKT	Marketing agreement/Franchising	☐	**INFO**	Information exchange	☐
JV	Joint venture	☐	**CONS**	Available for consultancy	☐
			Other	(please specify)	☐

1.18 Potential offered for further dissemination and use

Dissemination plays a very important role to spread the RegNet results.

RegNet promotes the project's position and results to conferences and workshops related to the field of cultural heritage, museum information technologies and cultural heritage regional models. Particular attention has been paid at cultivating contacts and relations with other EU projects (in particular with the OpenHeritage project which RegNet is clustered).

The RegNet project is intended to develop a common platform to apply metadata schemas ensuring interoperability between all information resources in order to enhance the attractiveness of regional networks of less-famous memory institutions to improve their socio-economic role getting consensus among all related initiatives and involving advanced interactive multimedia solutions.

The Information dissemination of RegNet project has been done using different types of dissemination channels: Project WEB-Site, conferences, seminars, printed paper and electronic publications. Special attention has been drawn to the participation of project members in relevant standardisation committees and workshops. Due the multidisciplinary (cultural institutions: museums, libraries, archives etc, cultural industries: new media enterprises, ASPs, etc) RegNet addresses different target groups: individuals, organizations, enterprises, and associations

1.19 Profile of additional partner(s) for further dissemination and use

<Describe the skills necessary for the dissemination and use of the result. If you are searching for additional partners, describe in detail the "ideal profile" of the partner.

Estimate the investments and costs involved: what are the skills required and the amount of labour? List the equipment, facilities and materials required to develop further the result or to use or disseminate it. This may be equipment that has to be purchased by the consortium, use of external testing services or access to equipment provided by potential collaborators. If the dissemination and use of the result will involve large investments (either in production, marketing or further development) please give a short indication how this is going to be financed (internally from one of the project partners or from a third party).

Return on investment: if the use of results includes commercialisation, compare the investments necessary for further market development, marketing and other costs with the projected total turnover summed over the project lifetime (usually 5-8 years). Compare the cost side with the revenue side.

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[49] Please tick appropriate boxes corresponding to your needs.

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When does the return on investment begin and how high is it going to be at the end? For any other use, give a cost/benefit analysis of the exploitation activity.

What are the potential risks involved? Describe any technological risks involved in further R&D development or prototyping, or any market risks (e.g. minimum market share required for producing at a competitive price). Depending on the stage in development, focus more on technological risks, risks involved in market introduction or others.>

Comment on European Interest

All projects are expected to meet European interests. This section should provide an appraisal of your project in terms of European added value and support to the implementation of European Union policies.

1.20 Community added value and contribution to EU policies

1.20.1 European dimension of the problem

(The extent to which the project has contributed to solve problems at European level)

In view of the large degree of dispersion of pieces of art within Europe and the highly fragmented knowledge and management of collections, REGNET offers the services, which will create a global view based on a contextual and thematic approach. The high level of accessibility combined with various levels of consultation of information will suit the requirements of occasional visitor, educational institutes and scientists/researchers. Different views of the same information will range from a quick referential search towards educational purposes.

The easy access and availability of this global information, will boost cross-cultural knowledge within European regions and stimulate Europeans to visit the objects in site they discovered via the REGNET-service. This will substantially increase the culture stimuli of the citizen and at the same time contribute to a multicultural and more European awareness and feeling.

REGNET intends to reach some basic aims:

- The dissemination of the European Culture Heritage facilitating to European citizens, the access to catalogues of intellectual, cultural and scientific heritage stored in archives, libraries, museums and galleries

- Integration of e-business into the information systems used in Cultural Institutions

- The development of new and the exploitation of existing cultural infrastructures

- The use of standards in the field of information structure, retrieval and e-business

- The interoperability between systems (interoperable access to distributed resources/catalogues: cultural & scientific content and products & services) based on the complementarity capabilities of each partner

- The establishment of a service infrastructure which allows to develop a network of (culture) service centres throughout Europe.

1.20.2 Contribution to developing S&T co-operation at international level. European added value

(Development of critical mass in human and financial terms; combination of complementary expertise and resources available Europe-wide)

One of the main reasons to run a project like REGNET is on the concept of new e-economy, which can be applied to all the operations of cultural heritage institutions. Since there are different types of organisations, there are also different possibilities to exploit the potentials of the REGNET project. The different types of organisations relevant to REGNET are:

- Content providers (cultural institutions like libraries, museums, archives, etc.): are able to sell digital or physical goods as well as services (experts, exhibition planning, etc.) and products (museum shop, copies of real objects, etc.) using the REGNET e-business sub-system

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- Service suppliers (cultural industries like IT-enterprises, new media company, internet service providers etc.): are able to sell their services (e.g. running a REGNET System) and products to broader community in the field of cultural heritage (the exploitation of the REGNET System itself is dependent on a consortium agreement).

- Business access points (organisations which provide access to REGNET system, e.g. cultural institutions, local administrations, tourist offices, information brokers etc.): are able to sell consultancy work or can even offer services (e.g. distributed searches) using the REGNET System.

The market of RENGET Systems and Services can be estimated roughly by the number of museums , libraries and archives in Europe. Based on studies like MAGNETS and various publications, a rough estimated number reaches up to 3.000 museum shops throughtout Europe being candidates to be partners of the REGNET networks. The adventure of joint ventures like Antenna, MuseumShop.com in the United States (approximately 50 museum shops connected), underpins the potential for eBusiness in the Cultural Heritage domain.

Since REGNET provides wireless access to network for service centers the Mobile phone penetration is also very important

1.20.3 Contribution to policy design or implementation

(Contribution to one or more EU policies; RTD connected with standardisation and regulation at Community and/or national levels)

Besides the relevance to EC policies in the area of science and research, some initiatives are mentioned bellow:

1.20.3.1   "eEurope – An Information Society For All":

In this initiative (progress report; Lisbon, 23 and 24 March 2000) is stated: "…There is increasing evidence that a new economy' or e-economy is emerging, mainly driven by the Internet. The European response to these opportunities and challenges has been rather slow, partly because the logic of the traditional industrial economy remains strong in Europe". This is also valid for culture industries and institutions. REGNET will support the service infrastructure of cultural industries and institutions that need a restructuring of their business organisation, normally a long-run process. It is essential to identify the possibilities to incorporate the Internet throughout the production and distribution chain. This will be addressed by several 'building blocks' of the REGNET system: the (distributed) search system, the electronic publishing sub-system are both connected to the e-business component. Another aspect relates to the access to 'service centres' constituting the REGNET (European wide) network: the mobile phone penetration in the EU has passed in 1999 already the number of 150Mio subscribers. REGNET has recognised a potential for broad access to cultural heritage related data and services and will integrate WAP access into the system.

1.20.3.2   "Draft Recommendation No. R (98) … on cultural work within the information society – New professional profiles and competencies for information professionals and knowledge workers operating in cultural industries and institutions"

Within the context 'cultural institutions' are identified as 'public, semi-public or private institutions, which perform a mission beyond the commercial interests, consisting in providing cultural products and services and making them accessible to the public. In the new electronic environment, cultural institutions are in the process of a fully digitising their services, both at the stage of production and distribution to users'. The above mentioned issues cannot be valid for most of these institutions, since very frequently those organisations are not aware that a WEB-site could also be a portal to business. REGNET will change this attitude and enable those institutions to sell products and services over the Internet as well as enabling cooperative work amongst themselves and other industries and partners.

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On the technical side, REGNET will build upon distributed databases for a global search and retrieval and e-business components supporting business to business (B2B) and business to customer (B2C) relationships. The effect of a common search and retrieval throughout different types of cultural & scientific and business oriented information will result in an increasing access to the resources of archives, libraries and museums.

To achieve a critical mass of products (digital as well as physical) and services, it is necessary to bundle the capacities of different stakeholders coming from the cultural institutions and industries. Regnet will achieve this target by setting up a European wide demonstration initiative including three types of organisations:

- Content providers
- Service providers
- And organisations providing 'access points' to the REGNET network.

To get realistic results from a trial service (included in the REGNET demonstration phase), a remarkable number of organisations spread all over Europe have to work together. REGNET has an extensive number of partners coming from 12 European states and grouped into 4 regions (each region has at least one technical centre, running the REGNET system and a 'regional pole' which is responsible for the organisation of the network)). The REGNET service centres can be considered as the kernel of a future network which should be able to grow fast by integrating additional institutions at all partner levels. This network will be open and accessible to different users like experts, students, home users, tourists, and etc. via different means, one of them the emerging wireless communication facility enabled by the still fast growing mobile telephone market. Setting up such network cannot be done on a national level, thus the project has to be carried out on a European level.

In order to be in line with these objectives, REGNET has set up a large European Consortium based on different types of organisations (mainly cultural industries and institutions), both users (content & service) and suppliers, with different approaches to the problem of distributing information, products, and services through Internet. The consortium represents a wide range of expertise (libraries, archives, universities, new media, data bases, etc.) in processing documentary and electronic information (meta data and digital surrogates), and in developing and implementing software applications and solutions.

1.20.3.3 Structural Funds (EFRE)

The Commission has (14 July 2000) adopted new Guidelines for schemes supported by the Union in order to promote innovation in the regions. EUR 400 million funding will be made available to the regions from the Structural Funds to develop innovative schemes in the 2000-06 programming period.

Proposals aim at three key areas of opportunity in the modern economy:

1. developing regional economies based on knowledge and technological innovation;
2. supporting the Commission's "e-Europe" initiative on the information society and, in particular, extending those benefits to the regions;
3. promoting regional identity and sustainable development

REGNET is one of those programmes, which addresses exactly an innovative scheme in the domain of modern economy

1.20.3.4 Culture 2000

Culture 2000 is a Community programme established for a period of 5 years (2000-2004), with a total budget of 167 million EUR. This financial instrument will grant support for cultural co-operation projects in all artistic and cultural sectors (performing arts, visual and plastic arts, literature, heritage, cultural history, etc.). The objectives of the programme are the promotion of a common cultural area characterised by both cultural diversity and a common cultural heritage. Culture 2000 trys to encourage creativity and mobility, public access to culture, the dissemination of art and culture, inter-cultural dialogue and knowledge of the history for the people of Europe. The programme also views culture as playing a role in social integration and socio-economic development.

1.21 Contribution to Community social objectives

"The great strength of the cultural heritage industry is its ability to provide content for educational purposes, for leisure and entertainment, enhancing the quality of life. In Europe, the diversity of its cultural heritage content makes it an enormously rich content provider. A strong European content industry improves competitiveness in this field, creating jobs" (outlined within the framework of the IST-Accompanying Measure "Cultivate-EU"; http://www.ciltivate-eu.org/about/about_activities.html).

Regnet addresses several of the major social issues included in the IST programme and other initiatives (like the recommendation of the European Parliament, outlined in the previous section):

1.21.1 Improving the quality of life in the Community :

Quality of life is the major theme in the 5th FP of the EU, to create 'a user-friendly information society', to improve the accessibility, relevance and quality of services, to build a true multilingual and multicultural information society. In the IST Programme, some of the key actions defined are especially relevant for Regnet like, *Systems and services for the citizen and Multimedia content and tools.*

Regnet aims to meet the needs and expectations of European citizens, enabled by Internet, to access the catalogues, (cultural, intellectual and scientific, business oriented) contained in cultural institutions like archives, libraries and museums. Regnet focuses in the field of access to digital and cultural content. This will have a strong influence in further applications in the field of education and training and, above all, in self-education or long-life education, apart from the arising effects on democratisation of the access to culture and information.

1.21.2 Provision of appropriate incentives for monitoring and creating jobs in the Community (including use and development of skills) :

Information society is the place where employment will come from in the future. Therefore, any contribution to advance the Information society will contribute to employment. In addition, there are specific factors that contribute to employment as far as Regnet is concerned:

- European Information Competitiveness: improving information society technologies to compete in the global information market, supplying information not easily accessed and using standards and technologies that are considered of great impact in the immediate future. Regnet will provide access to cultural heritage related repositories by offering a search engine, which will enable different searches across different domains and different distributed databases.

- European Cultural Competitiveness: Contributing to make visible the potential of European culture and creativity as well as diversity. Regnet provides access to cultural information assets which can be reused and contribute to the development of new products, eventually related to a broader context or personal needs.

- Implementation and extension of information processing standards: Regnet is committed to standards as far as possible. This enables for example, different users to connect their systems to the Regnet network as well as to integrate their information objects into the Regnet repositories due to the usage of standardized metadata.

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1.21.3 Supporting sustainable development, preserving and/or enhancing the environment (including use/conservation of resources) :

"Public powers, cultural industries and cultural institutions need to react to the tendency towards a conversion of traditional cultural agents beyond established sector-specific boundaries. The future professional model for the digital sector will be the 'interface manager' who has responsibility for the co-ordination of different steps in the production Chain from the idea to the (digital or physical) product. So far, cultural industries and institutions subcontracted many of the tasks fulfilled by such profiles to external parties". If they want to take up the challenge offered by the information society, they should now look for new models for cooperation or perform internally different business processes. The technical infrastructure provided by Regnet supports both possibilities and enables, especially the cultural institutions, to take over an active part within the supply chain by delivering digital (or physical) products and services.

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