

RESTART_4Danube

Boosting cREative induSTries in urbAn Regeneration for a stronger Danube region

Deliverable

D.T3.1.1 Methodology for Service Offer (SO) and Service Request (SR) tool for creative urban regeneration

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List of Abbreviations

AF	Application Form
AN	Activity Number
CCI	Cultural and creative industry
EU	European Union
Exploitation of Results	RTD Results of the research and development activity that can be exploited by the SME / Company in order to increase the competitiveness.
HER	Higher Education Readiness
IA	Innovation Audit
KPI	Key Performance Indicator
PA	Partnership Agreement
PP	Project partner
Restart4Danube	R4D
R&D	Research and Development
RD&I	Research, Development and Innovation
SO	Service Offer
SR	Service Request
SME	Small and Medium size Enterprise
WP	Work Package

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1. Executive Summary

The aim of Restart4Danube is to provide a new set of tools for creative urban regeneration: service offer (SO), service request (SR), mostly technological, and generally concerning innovation maturity level of the offered products/ services/ technologies. The new tools will be used to perform 15 SO, 10 SR of enterprises, especially SMEs.

Target group of the SO, SR are companies, especially SME and HER in the CCI sector (including clusters, business and technology incubators and parks, business support institutions or NGOs). Because of the specificities of CCIs covering i.e. design, animation, digital media, performing arts or fashion, software, traditional arts, the tool will be tailored to these non-traditional industrial types of products, services and technologies, products and services, adapted to the target group of artists and creative entrepreneurs, mainly like start-ups or spin-offs, incubated in refurbished former industrial facilities or grouped in cultural and creative quarters/ incubators/ parks.

Knowledge about market requirements is essential for a correct and efficient value proposition for customers whereas knowledge about characteristics of how innovative technologies are developed by providers is essential for the correct understanding of the customer needs.

This Deliverable relates to Activity T.3.1 and will be used to achieve SO2 *“Develop tools and services to support transnational collaboration and strengthen cross-helix cooperation”*.

Operating in culture and creative industry, the target group have significant potential for eco-innovation but still fail to fully exploit it because of the “missing links” to required services and resources in the field.

The R4D project consequentially provides these links by means of an intensified transfer & cooperation between project partners and culture and creative industry specific target groups base on services.

By paving the way to three viable hubs in eco-innovation, Restart4Danube generates significant changes for all target groups within the quadruple helix throughout the entire region.

This Deliverable D.T3.1.1 aims at:

- Developing a form, a methodology and a tool for “Service Offer (SO) and Service Request (SR)” with the aim to present a new technology developed by an entity with the purpose to realize a technology transfer, to understand the expertise and experience of the potential partners for business, innovation, knowledge.
- Supporting the entities that work in the field of technology transfer and innovation services to promote innovation capability through SO and SR aiming to create competitiveness.
- Being a component of the promotion of innovation capability potential of SMEs and R&D entities together with Readiness Level Audits, in the field of CCI.

This document is addressed mainly at the following categories of stakeholders in the CCI field:

- Innovative companies
- R&D Institutes
- Companies developing new technologies and services
- Inventors and patent holders with marketable capability
- Innovation consultants, technology brokers
- Entities working in the field of innovation, technology transfer

- Policy makers (innovation, technology transfer, regional development, etc.)

A unitary methodology, applicable along the Danube, is a pre-requisite in order to have a common understanding and a common working method.

This way a common and coherent Service Offer (SO) and Service Request (SR) database can be created while, through match-making mechanisms, SO and SR databases can be confronted with the purpose to realize technology transfer.

This methodology, tool and form are applicable in following cases:

- 1) if an entity wishes to present a new technology developed, to make it available to end-users abroad;
- 2) an innovative company wants to improve own process, an existing product, it needs some help for the development of a new product or specific expertise for its manufacture;
- 3) in order to carry out a technology transfer or to present their necessity, or to solve a problem in the field of CCI;
- 4) an innovative company wants to broaden the range of its products or services. In this case, a short description of the client's production facilities and of his marketing department and commercial skills would be useful.

The Restart4Danube partners will generate 15 SO, 10 SR in the framework of the LAPs:

Crt No	Partner	Country	No of SO	No of SR	Deadline
1.	IPA Craiova	Romania	3	2	April 30, 2022
2.	UM	Slovenia	3	2	
3.	PBN	Hungary	3	2	
4.	CCE	Croatia	3	2	
5.	CCI – Vratsa	Bulgaria	3	2	
	Total		15	10	

It is possible for partners to achieve a higher number of SO / SR, based on the Stakeholders connections they have. The realized SO / SR are useful primarily for PP and for future actions.

The SOs and SRs will be generate according and correlated with the LAPs developed in each city.

The company should write a SO if them develops a technology or an innovation and wishes to make it available to end-users abroad in order to carry out a technology transfer.

The company should write a SR if them need a specific technology or an innovation and wishes to apply it on the own company.

Initially, the project partners work with users to create a SO/ SR to support with describing of technology, the application fields, and advantages over alternative solutions.

Then the R4D partners spread this technology offer or request into the Network. Finally, based on match-making mechanism, they put together offers and requests base on specific keywords.

The project's partners promote the SO and the SR, ask people depending on the type of technology you have developed and the expert's application areas.

The R4D partners aim to be the one-stop co-innovation partners, to create mechanism, methodology, tools, and forms to translate inventions, research and intellectual capital into marketable products, processes and services.

Base on the methodology, IPA Craiova will create a tool for Service Offer (SO) and Service Request (SR) for creative urban regeneration. In the large area of cultural and creative industries, beside innovative technologies, there are a lot of services offered / requested revealing the specificities of these industries; the package of these services – well developed and structured by retrieval methods for searching and mach-matching offer – request tandem – will serve as capacity building instruments, in different economic activities, including urban regeneration in smart cities/ communities.

2. Introduction

Technology transfer, is the process of transferring skills, knowledge, technologies, methods of manufacturing, samples of manufacturing and facilities among governments, research institutes or universities and other institutions to ensure that scientific, knowledge, services and technological developments are accessible to a wider range of users who can then further develop and exploit the technology into new products, processes, applications, materials or services. It is closely related to (and may arguably be considered a subset of) knowledge transfer.

Horizontal transfer is the movement of technologies from one area to another. At present, transfer of technology is primarily horizontal. Vertical transfer occurs when technologies are moved from applied research centers to research and development departments.

This Deliverable develops form, tool and a methodology for SO and SR, in a unitary format, sufficiently clear to be understood by a potential user, with the aim to better known partners for technology transfer – to get to know the offer and request, to understand the expertise and experience of the potential partners for business, innovation, knowledge and technology transfer, partnerships for international projects. There is the need for a common methodology along the Danube so that all those, who want to grow and become competitive through new efficient services / technologies on the market, can have a common understanding of terms and methods.

The form and the Methodology contribute to the knowledge transfer between public research and industry, specially cultural and creative industry, in the societal challenge secure, to bridge the gap between research, innovation and business, based on EU experience. R4D approach is individually tailored to the market needs. R4D partners guide entities through the entire process from ideas to market, from the discussion about pros and cons of own services/ technology to the presentation for collaboration with suitable interested parties.

When creating a SO and SR, there are five tabs indicating a section of the SO/ SR to be completed. A few steps later, a handy, comprehensive technology report, tailored to own need is delivered, so to quickly obtain the necessary data and enter into direct negotiations with the interested parties. Restart4Danube tries to improve the conditions for the cooperation by developing open innovation tools which match the needs of companies in the field of culture and creative industry, with the expertise of research organizations.

Using a simple tool, we can practically master the varying offers/ request associated with product innovation. Solutions from around the world make sure that projects are no longer stalled. Innovative materials and services, creative suggestions and proven technology expertise from specialists in every field. This makes it easy, fast and effective to find the right partner for own needs. R4D approach is individually tailored to one's needs. The steps in transferring a research result to the market are:

- Identifying the need for services/ technology, appropriate to the technological level and strategy of the company.

- writing a SO/ SR, simple and straight forward with emphasizing the benefits
- Promoting service offer/ request in networks, including the R4Dnetwork.
- Participation in services/technology promotion events including brokerage events.
- Keeping track of feedback and responding to potential questions.

All these steps are detailed in this document. At same time the document presents the form to be filled in that includes:

- The Form for Service Offer and Service Request.
- The tool for SO and SR and the address to find it.
- The Content of the Form and recommendations for filling in the form.
- The advantages of using the form and the unitary methodology.
- An example of the filled in form correctly for SO and SR.
- Work to be done. Company visit and SO and SR.
- Benefits of the company's visit and the SO and SR.
- Conclusions and Recommendations
- Bibliography

3. Tool and services – Service Offer/ Service Request

3.1. Service Request or Business Request? Service Offer or Business Offer?

The innovative company should write a Service Request if, to solve a problem they have encountered, your client needs to find one or several partner(s) who will transfer the technology or know-how needed.

Otherwise you should write a Service Offer if your client develops a service/technology or an innovation and wishes to make it available to end-users abroad in order to carry out a technology transfer.

If your client needs partners to expand own business abroad for mainstream technologies or existing products, or if the client wants to establish franchises in other countries of the Danube Region or find trade intermediaries or suppliers abroad, or in general make partnerships which do not involve technology transfers, the innovative company shall then write a Business Offer or a Business Request and insert it into the database which is specifically aimed at facilitating business partnerships.

3.2. How to write good SRs (and SOs)

Preparing good Service Requests (SRs) and Service Offers (SOs) requires practice, but following the few simple rules below can help you get your message across.

- Write with the reader in mind: imagine you are talking to a Network colleague or a foreign client who might be interested in your SR or SO.
- Use every-day English whenever possible: keep very technical terms to a minimum. Only use them when you think they are necessary for subject experts to understand the technology. Always remember: your communication target is not the client who asked you to submit the profile but the profile recipient: a colleague or a potential user company that reading the profile.
- Neither target is supposed to be a specialist in the field relevant to the profile; yet they have to understand what use they can make of the technology offered, or how they can address the technological need of the profile emitter, for a Partnership Agreement (PA) to happen.
- Use short sentences. Stick to "one sentence, one idea".
- Cut out unnecessary words e.g. "The running costs of each unit are reduced", instead of "The running costs are reduced in respect of each and every unit."
- Make the title of your SO (or SR) clear and simple: remember that readers often use the title to decide if the SO (or SR) is worth reading.

- Avoid jargon and explain acronyms: e.g. "SRs and SOs" (Service Request and Service Offer).
- Avoid copying and pasting sections of text from other publications: to use information from a Patent, change the style and use simpler words.
- Read your SO (or SR) before submitting it to the data base: make sure it is accurate, clear, concise and readable. If possible, ask a colleague to proofread it.
- Write the Abstract last: it should be a short summary of the SO (or SR). Avoid repeating the first paragraph of the Description box, but do include all the key points.
- Respect the 500-character limit for the Abstract: if you exceed it, the SO (or SR) will be rejected. Writing too little will not do justice to your SO or SR.
- Take your time writing the abstract and title: these are the first – and sometimes the only – thing potential partners or your client will see.
- Many Network Partners only distribute in a first step the titles and abstracts of SOs (and SRs) to their clients, to save them time and avoid an overflow of non-relevant information.
- Only if the clients are interested in the information title and abstract contain will they ask for the full profile. The title and abstract should therefore be as good as possible and reflect the technology offered or requested as well as possible.

The SO and SR should stress what the technology does (i.e. "cheaper brewing process") rather than how it does it.

This will make the business benefits of the service/ technology more obvious and avoid disclosing sensitive information that risk the adequate exploitation of the profile and corresponding partnership agreement. Restart4Danube will try to improve the conditions for the cooperation by developing open innovation tools which will match the needs of companies with the expertise of research organizations.

3.3. The Form for Service Offer/ Service Request

The Form for Service Offer, in the field of CCI, can be found in Annex 1.

The Form for Service Request, in the field of CCI, can be found in Annex 2.

Based on this forms and the Guidelines for filling in the form, the tool was created.

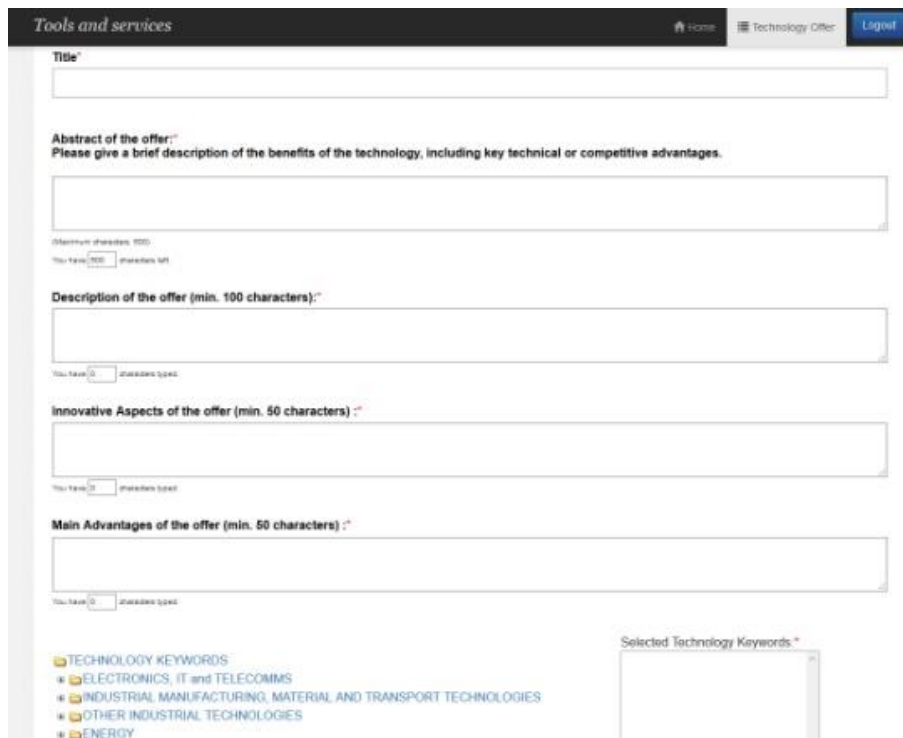
The Tool is available online at following link: <http://ipacv.ro/restart-4danube/>



The screenshot shows the 'Create account' section of the website. At the top, there is a navigation bar with 'Tools and services', 'Home', and 'Register' buttons. Below the navigation bar, the 'Create account' title is centered, followed by a note: 'Fields marked with * are mandatory'. The form is titled 'Initial information on Audit:' and contains the following fields:

- Company name *
- Acronym
- Address *
- Tel/Fax *
- Email *
- Website
- Contact person *
- Date of founding *
- Manager
- Type of organization *
- Size of organization *
- Industry (on bio-economy)*
- Main products (on bio-economy) *

Figure 1: The section “Create the account”



The screenshot shows the 'Fill in the Form' section of the website. At the top, there is a navigation bar with 'Tools and services', 'Home', 'Technology Offer', and 'Logout' buttons. The form contains the following sections:

- Title***: A text input field.
- Abstract of the offer:***: A text input field with a note: 'Please give a brief description of the benefits of the technology, including key technical or competitive advantages.' Below the field, it says 'Minimum characters: 100' and 'You have 1000 characters left'.
- Description of the offer (min. 100 characters):***: A text input field with a note: 'You have 0 characters used'.
- Innovative Aspects of the offer (min. 50 characters) :***: A text input field with a note: 'You have 0 characters used'.
- Main Advantages of the offer (min. 50 characters) :***: A text input field with a note: 'You have 0 characters used'.
- Selected Technology Keywords ***: A dropdown menu with the following options:
 - TECHNOLOGY KEYWORDS
 - ELECTRONICS, IT and TELECOMMS
 - INDUSTRIAL MANUFACTURING, MATERIAL AND TRANSPORT TECHNOLOGIES
 - OTHER INDUSTRIAL TECHNOLOGIES
 - ENERGY

Figure 2: The section “Fill in the Form”

3.4. Guidelines' for filling in the form

The guidelines aim to help write better Service Offers (SOs) and Service Request (SR). They are not strictly mandatory: each SO / SR is, or should be, unique, and it may sometimes be sensible to ignore parts of the Guidelines.

In most cases, however, respecting them eventually results in clearly written SOs/ SRs, easily understood by Restart4Danube Network members and their clients, which will bring more success.

Effectively, you will enter the link where the two tools are found and complete them according to the methodology presented and the recommendations in this chapter (4).

The Restart4Danube partners will generate 15 SO, 10 SR in the framework of the LAPs, according chapter 1.

Title

The title should be clear and meaningful for non-experts in the service/technology, technology transfer, and innovation or application field.

It should enable clients to see if the SO / SR is interesting for them and Network's Restart4Danube partners which companies or researchers in their region might have the appropriate solution.

This is the first section to be read: it should be clear, concise (it is not an ad, and there is room in the abstract and description for further details), and attractive (avoid "marketing speak": remain as matter-of-fact as possible).

Abstract of the offer / request

This section will be read immediately after the title and be the basis on which the reader will decide whether there is any interest in reading the rest of the profile.

Therefore, within the limitation in length and the information specifications listed below (meant to help you target the relevant reader with the appropriate content), it also has to be clear, concise and attractive.

The Abstract should be written last.

Therefore, do not repeat here the first paragraph of the SO / SR description.

The abstract for a SO / SR should answer the following questions:

- What are the opportunity / request? Why do you believe it is needed?
- Where (geographically) is it from?
- What sort of organization is offering / request it?
- What is being offered / request?
- What can it are used for?
- What are the main advantages?
- What sort of deal is sought?

Example of SO abstract:

An Austrian SME has successfully developed and marketed a fastening system (hinges) for wooden exterior cladding.

Reduces moisture damage and substantially increases the life of the wooden cover. It is easy, fast and precisely mounted in half the time and is not visible on the terrace surface.

The SME is looking for companies in the wood industry (wood processing, retailer), horticulture, landscaping, etc. for licensing and/ or trade agreements with technical assistance.

Example of SR abstract:

A Romanian company is looking for a tools and a methodology to promote a city (of about 300.00 inhabitants) from a tourist point of view: history, places that can be visited, organized shows, museums, events that take place daily, organized conferences, etc. . Ideally, the tool should be offered on the mobile phone and in tourist centers, to any tourist approaching the airport, train station, bus stations, etc.

The required technology can be either in the laboratory/ fully developed and tested stage. Good practices in use are advantages.

Description of the offer/ request/ Special features.

Please give a description of the relevant results/ characteristics of the offer/ request.

Whenever possible, provide background information or a short introductory text to the technology offered described or the technological necessities (usually this can be found through an internet search).

Describe the technology, necessities or product, try to indicate clearly the innovation you propose (provide quantitative data, characteristics, if possible). Photos could be integrated.

Clearly establish the potential application of the technology, perhaps considering more than one field. Provide information about the expertise or know-how of the proposer / user.

Do not include sales promotion of your service / technology or product.

It is useful to identify the current activities of the company.

A service offer / request may arise in two situations:

- **Your client wants to improve his process or an existing product** or needs some help for the development of a new product, or specific expertise for its manufacture.

The product and/or processes should be briefly described and the targeted prices and production throughput should be given.

Why does this company want to improve a current process or product?

What is the current technical problem to be solved, what process is to be improved and why?

- **Your client wants to broaden the range of his products or services.** In this case, a short description of the client's production facilities and of his marketing department and commercial skills would be useful.

Include a description of the problem to be solved or technology requested.

Provide information about the current process / product to improve.

Clearly specify the technical requirements.

Describe what is intended to be done with the technology offered / sought after, and where the product manufactured with the offered / requested technology will be used.

Technical specifications / specific technical requirements

The product and/or processes should be briefly described and the targeted prices and production throughput should be given.

What are the technologies the company believes could be suitable? What are the technologies the company is sure are not suitable? Are there some specific requirements to take into consideration (temperature, pressure, size, etc)?

Clearly specify the technical requirements.

Technology keywords

Choose a maximum of five keywords applicable to the technology.

This limit is mandatory.

Try to use level three keywords as these are the most specific.

Be aware that a search may be conducted using keywords alone. Keywords are essential in the process of finding the partner for technology transfer/ business. The more accurately the keywords describe the technology offered/ sought, the more surely the partner can be searched.

Innovative Aspects of the Request

Describe clearly (with indicators) the innovative aspects of the technology or necessities. Avoid generalities such as best or unique, but try to specify innovation by comparison with prevailing technologies.

Main advantages of the Offer / Request

Give the main economic benefits of the technology that you offer/ request (if possible in a quantitative way), regarding such elements as performance, ease of use, need of specific know-how, or expertise to adopt your technological needs.

What are the anticipated benefits of your offer/ request, and who would be positively or negatively impacted by its implementation?

What alternatives to your approach have you considered, and what led you to request this over competing alternatives?

Describe your plans to utilize the technology in your offer/ request, how best practices could be shared, and how equipment should be maintained.

Contact:

Here you have two options:

1. You are provider of services for the entity that present the SO / SR and you will assist the entity in diverse stages – you insert yours contact data
2. You realize short training and recommendation for the entity that present the SO – you insert the company contact data.

From this moment they are on the own route.

Can they manage themselves?


At the final, please put you in the role of the partner that you search for this SO / SR and analyze (if necessary improve the content):

- Why to transfer this SO/ SR?
- They give you more expertise? It is relevant?
- Will add value and benefits to your company?
- Why a company can be interested?
- The technology is real new?
- Can be it apply in a company?
- What additional activities are needed (environmental measures, work safety, personal training for use, maintenance, marketing, etc.)
- The information's enough/ well presented to have a decision and commitment to cooperate?

3.5. Example of SO - Service Offer

Please note:

Mandatory field *

<p>1. Title*: Romanian software developer offers SMART BENCH for designers.</p>	
<p>Abstract of the offer (request): *</p> <p><i>Please give a brief description of the benefits of the technology, including key technical or competitive advantages (max. 500 characters)</i></p> <p>A software company specialized in providing ITC solutions for creative industry developed a smart bench for designers. Self-powered smart urban street furniture can help cities and communities to increase the attractiveness of public spaces by providing public services, information and connectivity, while at the same time enabling the collection of valuable data for optimizing processes and reducing costs. The company is looking for financial agreement.</p>	
<p>Description of the offer *</p> <p><i>(min. 100 characters)</i></p>	<p>Whether we talk about recycle bins, smart benches or even fully integrated smart bus stops – there are a lot of new products available in terms of smart urban street furniture. A growing number of cities and communities throughout the world are adopting these self-powered products to make life easier for citizens and visitors and to optimize the management of public infrastructure or to provide connectivity such as free WiFi.</p> 

<p>Innovative Aspects of the offer (request)* (min. 50 characters):</p>	<p>Free solar-powered phone/electronic device charging points.</p> <ul style="list-style-type: none"> - WiFi connectivity; - Delivery of public services and citizen information on screens that can be updated easily - Saving energy that would otherwise be consumed by electric powered street furniture (energy provided by the city) or in private households/companies (charging of electronic devices) – thus also leading to lower costs; - Collecting big data to improve public services (e.g. pedestrian traffic, status of recycle bins, number of people in bus station, use of public facilities, and comparison of different locations).
<p>Main Advantages of the offer (request) *(min. 50 characters):</p>	<p>Technical specification: Dimension: W 200 cm ; L 40 cm ; H 50 cm; Weight: 95 Kg; Construction: Frame – steel 3 mm thickness; Seat: 10 mm Tempered Glass / 8 mm Polycarbonate / 8 mm Transparent acryl. Internet technology: speed up 150 Mbps, range 4-20 meters Temperature (-45⁰ C - +60⁰ C) Air Quality PM 2.5 Proximity, Humidity, Twilight sensor, Anti-vandal alarm Geolocation (GPS location), Gyroscope (Anti-vandal system) Ambient light WHITE + RGB (30% - 100%), Energy sensor Phones charging counter, Battery status indicator, Noise sensor Grid power kit Future options: Firmware upgrade over the internet Wifi Internet mesh Optional Backrest / armrest Scooter charging slot Bike service kit Bike dock SOLAD, is the heart of the system, the part that generates real time information (temperature, humidity, air quality, etc., traffic) as well as feedback from the system for monitoring the loading of waste containers. Streamlining of waste disposal according to the grade of loading (25% - 50% - 75% - 100%), by generating an optimal collection route, thus increasing the efficiency of human resources and reducing maintenance and fuel costs. It also displays the location of each MOBUR product (smart bench, pavilion, bus station or trash can), that can be used in case of theft. Information received from sensors can be used in statistics to improve quality of life (warm areas that can be enriched with vegetation, areas with low air quality that can require partial traffic redirection, congested areas, noise pollution, etc.) All information's collected by installed sensors, are automatically sent at a predetermined time and saved to the cloud of the SOLAD application, built around Google data security services ((sensor information, databases, communication).</p>

Technology Keywords *			
Please select the domain that includes your technology offer and the appropriate sub-categories <i>Only the selected fields</i>			
1. ELECTRONICS, IT AND TELECOMMS (Level1)			X
1.2. INFORMATION PROCESSING, INFORMATION SYSTEM, WORKFLOW MANAGEMENT			X
14) Internet Technologies/Communication (Wireless, Wi-Fi, Bluetooth)			X
1.3. IT AND TELEMATICS APPLICATIONS			X
2) Applications for Tourism			X
1.4. MULTIMEDIA			X
1) Cultural Heritage			X
1.5. TELECOMMUNICATIONS, NETWORKING			X
10) Wi-Fi			X
Current Stage of Development *		Available for demonstration.	
Intellectual Property Rights *		Private reseach	
Exploitation of RTD Results: *		Results of a project	
Comments:			
Organization/Company			
Name:		SC VISUAL AGENCY SRL	
Type:		Size:	11-50
PLEASE CHOOSE ONE OR MORE MARKET AREAS IN WHICH YOUR TECHNOLOGY MIGHT BE APPLIED. *			
<i>Only the selected fields' rest.</i>			
1. COMMUNICATIONS			
1.1. COMMERCIAL COMMUNICATIONS			X
4) Other commercial communications			X
2.7. COMPUTER SOFTWARE			X
7) Applications software			X
23) Programming services/systems engineering			X
26) Other software services			X
9.3. SERVICES			X
5) Media related services			X
6) Other services (not elsewhere classified)			X
Market Comment (less than 250 characters)	Application		
Type of collaboration: * (tick more than one if necessary)	License agreement		
	Technical Co-operation		
	Joint venture agreement	X	
	Manufacturing agreement (Subcontracting & Co-contracting)		
	Commercial Agreement with Technical Assistance		
	Other : Financial resources	X	

Comments: * - Type of partner sought - Specific area of activity - Task to be performed	Agreements with mayors, local and public authorities, industrial parks, private companies - SME 11-50, SME <10, SME 51-250 etc.
	Stakeholders – local or public authorities; SME etc.
	The company is interested in: 1) Software developers and integrators under license agreement should be able to commercially exploit and distribute the solution to new end users from the CCI sectors. The licensee shall be able to support the company by providing the required input for technological services in relation to client's requirements. 2) An investment partner to deliver financial support for mass production of the bench.
Web link to present innovative product:	
Preferred Countries (for information):	Romania, EU and EaP countries.
Contact	Meleandra Claudiu Manager Romania Craiova city, Dolj county E-mail: printcraiova@gmail.com etc.

3.6. Example of SR - Service Request

Please note:

Mandatory field *

Technology Request	
Title*	Innovative HPC hybrid CPU-GPU cluster system.
Abstract of the request: * <i>Please give a brief description of the benefits of the technology, including key technical or competitive advantages (max. 500 characters)</i> A Romanian company offers promptly and professionally certified technical consulting on digital product development and impeccable engineering services in the fields of automotive, aerospace, energy, defense, medicine: 3D modeling, scalable digital simulation and CAE analysis. The solutions it proposes ensure the optimization of the product development process, by improving the product design and reducing the costs regarding the development of the prototype. The company has developed an innovative hybrid CPU-GPU cluster system and is looking for business partners to implement this system as well as business partners who need virtual design and simulation services.	

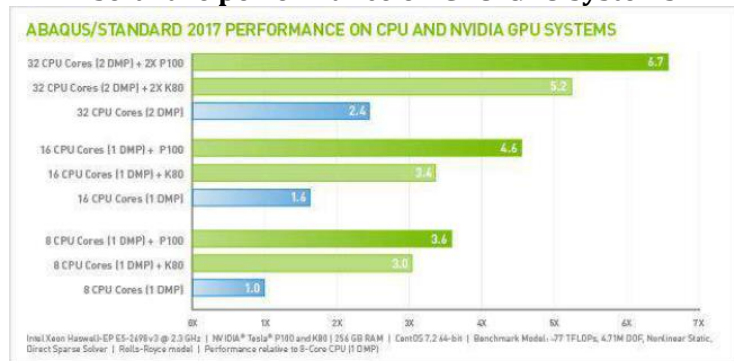
<p>Description of the request* (min. 100 characters)</p>	<p>The Romanian company proposes an innovative hybrid CPU-GPU cluster system, which includes GPU processors and modules with state-of-the-art CUDA capabilities.</p> <p>The interconnection between the computing nodes is done through a specialized interface - Infiniband EDR - which offers a bandwidth of 100Gb / s and an extremely low latency.</p> <p>By using the proposed HPC system, the reduction of the simulation time is obtained, an important element in the design of the systems that involve large models corroborated with the observance of the delivery / delivery terms.</p> <p>In order to increase the simulation capabilities and to be more present on a national and international level, offering more and more complex simulation models in a short time, it was necessary to develop an innovative HPC hybrid CPU-GPU cluster system consisting of:</p> <p>1. Management node: 1pc</p> <ul style="list-style-type: none"> • Chassis: 2U, 8x3.5 "/2.5" SAS or SATA bays, 4 FHHL slots, 2 LP slots, 1 x16 for Add-on-Module, redundant PSU • CPU drive: 2x Intel XeonSilver 4112, 4core, 2.6GHz, 9.6GT • RAM memory: 48GB DDR4 2400MHz ECC REG (12x4GB) • OS Drive: 2x 960TB SSD SATA, 1DWPD • Graphic Card: Onboard • Network port: 2x 1Gbps RJ45 • Infiniband card: EDR card single port QSFP28 • Management: IPMI 2.0, RJ45 port • Operating system: 1x Linux <p>2. CPU node: 7pcs</p> <ul style="list-style-type: none"> • Chassis: 2U chassis for 4 nodes, redundant PSU, 6x2.5 "" hot-swappbays ""and 24 DIMM slots for each node <p>Configuration for a CPU node:</p> <ul style="list-style-type: none"> • CPU unit: 2x Intel XeonGold 6134, 8 cores 3.2GHz, 10.4GT • RAM memory: 192GB DDR4 2666MHz ECC (12x16GB RAM module) • OS Drive: 1xSSD 480GB SATA, 3DWPD • Infiniband Card: EDS card single port QSFP28 • Management: IPMI 2.0, RJ45 port • Operating system: Linux
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<p>Description of the request* (min. 100 characters)</p>	<p>3. Node with CPU-GPU view: 1pc</p> <ul style="list-style-type: none"> • Chassis: 1U, redundant PSU, supports up to 4 nVidia Pascal GPU cards; 2x 2.5 "hot-swappbays; 12x DIMM slots • CPU unit: 2x Intel XeonGold 6134, 8 cores 3.2GHz, 10.4GT / s • RAM memory: 192GB DDR4 2666MHz ECC (12x16GB RAM module) • OS Drive: 480GB SATA SSD, 3DWPD • GPU: NVIDIA Tesla P100 12GB CoWoS HBM2 PCIe 3.0 - Passive Cooling • Infiniband Card: EDS card single port QSFP28 • Management: IPMI 2.0, RJ45 port • Operating system: Windows 2016 Server 16 Core • Graphics card: 8GB GDDR5 256bit, minimum 1650core, 4x DP1.2 outputs • Remote video cards: Video signal acceleration / compression kit for Full HD transmission up to 100m on UTP cable. <p>4. Storage system: 1pc</p> <ul style="list-style-type: none"> • Chassis: 12bays 3.5 "12Gbps, 2U expander, redundant PSU • Platform: Single CPU Xeon E5-26xx • CPU drive: Intel Xeon, 64GB RAM, DOM 64GB • HBA: 12Gbps 1xSFF8643 port • HDD: 4x8TB SAS3 12Gbps enterprise • SSD: 4x 960GB SSD SATA, 3DWPD • Management: IPMI 2.0, RJ45 port • Infiniband Card: EDS card single port QSFP28 • File system: zfs <p>5. Additional equipment</p> <ul style="list-style-type: none"> • Infiniband switches: EDR switch with 36ports QSFP28, reverse airflow, PSU redundant • Infiniband cables: 10x 2m passive, EDR speed • Ethernet switches: 2x Switch with 24x1Gbps RJ45 ports, rack mounted • HPC Software Management: Bright Cluster Manager - Advanced - 10nodes / 1 year • Rack: 600x1060 rack, APC perforated doors • PDU: 6x PDU 10 16A stations • UPS source: 40kVA three-phase / three-phase UPS, tower, PF = 1 • Diesel three-phase generator: 44kVA three-phase generator, soundproofed • Cooling: 22kW cooling system • IPMI / Cluster Management: SFT-DCMS-Single x 10pcs.
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<p>Innovative Aspects of the request* (min. 50 characters):</p>	<p>The implementation of the innovative HPC hybrid CPU-GPU system brings a:</p> <ul style="list-style-type: none"> - increase work efficiency and productivity <ul style="list-style-type: none"> + small models up to 20% + medium and large models up to 100% + very large models, e.g. LES models of turbulence, up to 400% - cost reduction <ul style="list-style-type: none"> + With licensing, the CUDA GPU card does not come with the cost of the license + increased productivity turns into reduced cost - qualitative growth by adopting more detailed models and implicitly closer to reality - creation of new services, ex. SLE models of turbulence, aeroacoustics, coupled models - the possibility of performing an extensive number of services. - increasing the precision of the act of design, simulation and realization of flexible service packages. - increasing the offer of research and development services to partners, including international ones. - increasing research capacity and expertise. - increasing the potential of partnerships in research and development. - increasing the capacity of the Center to offer new information technologies. - compatibility with the working methodologies of some strong international centers - reducing the time to make orders and increasing the quality of services provided - the possibility to establish partnerships with similar international centers - financial benefits: <ul style="list-style-type: none"> + ex. creating an aeroacoustic model costs about 20,000-25,000 Euros and will be ready in about 2 weeks with the new HPC system. Without HPC it would have lasted 2 months and the probability of contracting it would have been minimal + an average structural project costs about 5000 Euro and lasts 2-3 weeks. Using HPC will be ready in a week or a week and a half.
<p>Main Advantages of the request* (min. 50 characters):</p>	<p>The company uses specialized simulation software from the Dassault Simulia portfolio that folds very well on the proposed HPC system and needs its resources for high efficiency.</p> <p>The performance increase for Simulia applications offered by nVidia P100 cards is exemplified in the figure below.</p>

Main Advantages of the request
 *(min. 50 characters):

Figure 1. DassaultSimuliaAbaqus/ Standard 2017 software performance on CPU-GPU systems



The system also reduces software licensing costs by increasing performance 2.5 times, see Figure 2.

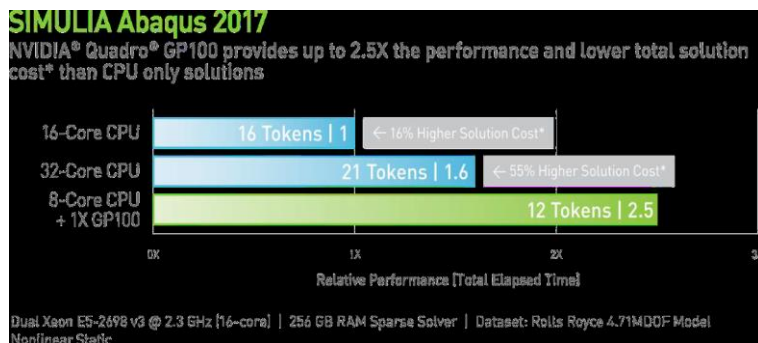


Figure. 2 CPU + GPU performance: GP100

By implementing the HPC system described above in the company the following types of numerical analysis are possible:

- Static structural analysis: >1.5 mill number of degrees of freedom;
- Dynamic structural analysis: >2 mill degrees of freedom;
- Whole vehicle crash analysis:> 5 million degrees of freedom and up to 50-100 mil degrees of freedom
- Vibration analysis: 30 million maximum number of degrees of freedom
- Fluid dynamics analysis-CFD: ex. 100 million volume items
 - Stationary regime; Non-stationary regime; Incompressible environment; Compressible medium; RANS turbulence models; LargeEddySimulation (LES) turbulence models, impossible to run on existing computing equipment. From the point of view of accuracy, the LES model is currently the closest to reality and certain phenomena can only be observed in the presence of this model.
- Thermal analysis (heat transfer): 100 mill max no of degrees of freedom
- Electro-magnetic, magneto-static analysis:> 1.5 mill degrees of freedom
- Acoustic analysis:> 1.5 million degrees of freedom
- Structurally-acoustically coupled analysis
- Structurally coupled analysis of fluid dynamics
- Aeroacoustics that includes only LES turbulence models
- Thermal conjugate analysis in non-stationary regime.

Technology Keywords *			
Please select the domain that includes your technology request and the appropriate sub-categories			
Only the selected fields rest			
1. ELECTRONICS, IT AND TELECOMMS (Level1)			X
5) Embedded Systems and Real Time Systems			X
1.2. INFORMATION PROCESSING, INFORMATION SYSTEM, WORKFLOW MANAGEMENT			X
1) Advanced Systems Architecture			X
3) Artificial Intelligence (AI)			X
2. INDUSTRIAL MANUFACTURING, MATERIAL AND TRANSPORT TECHNOLOGIES			X
2.1. DESIGN AND MODELLING / PROTOTYPES			X
2.8. TRANSPORT INFRASTRUCTURE			X
Current Stage of Development *		Available for demonstration	
Intellectual Property Rights *		Tested	
Exploitation of RTD Results: *		Private research	
Comments:			
Organization/Company			
Name:		SME	
Type:		Size:	12
PLEASE CHOOSE ONE OR MORE MARKET AREAS IN WHICH THE TECHNOLOGY MIGHT BE APPLIED.*			
Only the selected fields rest.			
2. COMPUTER RELATED			X
2.2. COMPUTER GRAPHICS RELATED			X
1) CAD/CAM, CAE systems			X
2.3. SPECIALISED TURNKEY SYSTEMS			X
2.7. COMPUTER SOFTWARE			X
16) Artificial intelligence related software			X
22) Software services			X
23) Programming services/systems engineering			X
9. OTHER			X
9.1. TRANSPORTATION			X
Market Comment (less than 250 characters)	Application		
Type of collaboration: * (tick more than one if necessary)	License agreement		
	Technical Co-operation	X	
	Joint venture agreement	X	
	Manufacturing agreement (Subcontracting & Co-contracting)		
	Commercial Agreement with Technical Assistance		
	Other : Financial resources		
Comments: * - Type of partner sought	Technology transfer center, private companies.		

- Specific area of activity	Technology promotion, IT
- Task to be performed	Technplogy transfer
Web link to present innovative product:	www.caelynx.ro
Preferred Countries (for information):	Romania, EU countries.
Contact:	Stefan Cristian Castravete Administrator Tel: 0040 729104330 / 0040 351176969 E-mail: scastravete@caelynx.ro

3.7. The work to be done: Company visit and Service Offer/ Service Request

Restart4Danube tries to improve the conditions for cooperation by developing open innovation tools which match the needs of companies with the expertise of research organizations. The SO – service offer/ SR – service request consists of two parts: the visit at the company and the form:

- Before filling in the form, a visit to the company’s premises is recommended. Generally the meeting lasts some hours and is held with the manager or marketing representative of the company.
- The aim is to understand which the innovative activity work was on and the company’s vision, strategy, products and services and to understand and see the technology developed/ requested by the company, what benefits it can bring.
- The visit is a good opportunity for the consultant (*representative of PP, external stakeholder from Transfer Centres, etc*) to find out if the company will benefit from using the innovative services, the service offer / request.
- It can be create very well SO/ SR if the company’s innovation capacity will be very well understand and promoted.
- The company visit offers the best opportunity to find out about the company’s products, processes, and necessities.
- Following information should be included:
 - Name of contact person for future correspondences;
 - Basic company details such as number of employees, date established, approximate turnover, a description of what the company does in the field of cultural and creative industry, manufactures or the services it provides;
 - An assessment of the innovativeness of the company and specially the service/ technology developed;
 - Is the company interested in the network; would it be committed to the Transfer (knowledge, service and technology) process;
 - If a technology is being offered/ requested is it truly novel or is it an existing service / technology applied in a novel way?;
 - What resources (people, time, money) can the company commit to the project?;
 - What difference will it make to the company if the SO/ SR fails?.
- It is very important to understand the business of the company in the field of cultural and creative industry and to show to the company that you understand the necessities and you have solutions in benefit of this company.

- The technology consultant will explain very well the content and the aim of the SO/ SR process and benefits for the both companies.
- The consultant will collect information base on the SO/ SR form, from each innovative company and each technology.
- The consultant shall ensure that representatives of the companies surveyed have well understood each field of the form and response is based on reality and potential business development.
- In this stage, the SME (its representatives that take part in SO/ SR) is being interviewed on the basis of a standard form.
- The information gathered along the form will help the interested company to understand the benefit of the service / technology and to transfer them.
- The consultant will support the company on the basis of their innovation expertise and ability.

3.7.1. Alternatives

It may happen that the physical visit to the company cannot take place for various objective reasons (COVID 19 pandemic, the need to quickly have the forms to participate in events, the impossibility of allocating the necessary time from the client, etc.).

In addition, more and more companies are working remotely, in incubator's premises or in the co-working spaces, meaning it is not possible to organize the physical visit.

In these cases, we can organize online events to replace the physical visit, but we can obtain the necessary information, accurately and accurately. All aspects will be clarified as at the physical visit, according to the basic procedure, 4.7.

An online meeting should be a regular alternative, even we are fully aware of disadvantages of non-personal contact.

3.8. Benefits of the company visit and the SO/ SR

- The visits pave the way for the consultant to provide services to the company (i.e. business support, company profile, SO/SR, , Readiness Level, partnerships, etc).
- The visit will allow the consultant to identify business or technology offers and needs and produce SO/ SR profiles.
- The information collected during a visit can be used to develop concrete proposals for future actions. In essence the visit is about bringing information together to allow a company to see the big picture, something that it does not have the time or resources to do it.
- Service/ Technology are a broad concept that has come to refer to break through in science that allow for a better or automated solution.
- While the most obvious benefit to service/ technology in small business is increased productivity--which translates into a lower cost structure--there are some other benefits that can help the bottom line as well. Improved speed, the ease of sharing and storing

information and a decrease in human error through automation add up to a reduction in costs and an increase in revenue.

- Small businesses compete with large businesses by being more swift and agile. Additionally, a small business can respond to change faster than a large business. Today, with the advent of information technology, information is shared at an astounding rate. This saves time, offering the ability to make decisions faster.
- Service/ Technology eliminate the need for double or triple entry systems and reduce the need to file large amounts of paperwork. Now, contracts and customer information can be stored in virtual data warehouses and accessed in minutes, which cuts down on the need to purchase or rent storage space.
- Service/ Technology allow information, whether written or broadcast, to be shared more quickly and with fewer resources.
- Marketing can be accomplished by placing ads that reach millions of ready buyers on the Internet or through social networking sites. E-learning and other forms of online training have reshaped the readiness of the average small business workforce as employees can listen to classroom lectures and share ideas with classmates from the comfort of their home or office. This eliminates the need for small business to hire training staff.
- Technology allows small businesses to automate certain functions that historically have required the need to hire an employee. For instance, bookkeeping functions now can be handled by software applications such as Quicken and QuickBooks. The sales function is automated through contact management sites such as Sales Force. This gives the small business owner the ability to focus on strategy and cut down on labor expenses.
- The benefits for the SME correspond to points just listed. Thus, a SO/ SR will produce an action plan that, after being applied, shall generally lead to improved performance of the company.
- The SO/ SR must to be promoted, explain to be well understand. Additional methodologies can be utilized: movies, photos, technological articles (but be very carefully at the IP protection). The brokerage events could be very good opportunities to promote the SO / SR, to discuss about it, to find potential partners.
- Small-business owners can find keeping up with changes in technology difficult. But proactive business owners understand that investments in technology can benefit a company financially and give a company a tactical advantage over the competition. Investigate advances in technology to determine if they offer a positive return on investment for your company.
- Outside sales representatives, workers at a construction site and traveling insurance adjusters are just a few of the many occupations that require extensive work in the field. Investing in advances in communication technology can help you to get information to your field personnel faster and help you gain an advantage on the competition. Transmitting documents over the Internet as opposed to sending packets of information via an overnight courier can save you money on printing and shipping costs as well as getting important information to clients fast.
- Advances in technology can make running your company easier and less expensive. Interactive software programs can eliminate the need to train your employees on their benefits package.

- A step-by-step online training program can be used to not only help employees understand their benefits at their own pace, but it can also help employees fill out the paperwork. All of this is done without the need to hire additional human resources personnel to administer the training and process the paperwork.
- This can apply to all new-hire paperwork and ongoing administrative forms and information that your company needs. When service/ technology collects and processes the information for you, your human resources group has more time to focus on developing a better workforce.

4. Conclusions

Entrepreneurship is the art of to be able to turn ideas into action. This implies creativity, innovation, risk taking, and the competence to plan and manage projects in order to achieve proposed objectives.

The entrepreneurship competence is relevant not only for those who would like to start/carry up a business but for all who would like to support changes in individual, collective, economic and social environments.

In such a context, the services offered are essential in business development. At the same time, the working methodologies must be understood at international level so that the concepts are unitary, and internationalization can be achieved and implicitly the transfer of knowledge and technology.

This Deliverable provides a form, a tool and a methodology for “Service Offer and Service Request” that helps show the firm's expertise and experience for further service/ technology transfer and allow-to understand the potential for business, innovation, knowledge and technology transfer, as well as for partnerships in international projects. The main area of activity is in the field of cultural and creative industry.

The SO can help companies that work in the field of culture and creative industry, that wish to offer a service/ technology that could be apply by other companies, in different field of activity, to improve their efficiency, or diversify their production.

The SR can help companies that work in the field of culture and creative industry, that wish to improve their knowledge, solutions, production, technological lines, equipment, and delivery new knowledge and technologies on the market.

To implement the SO/ SR, it can be created partnerships and projects ideas. Trough SO/ SR we generate proactively search for ways of transferring it to different industrial sectors.

In order to have a common understanding and a common working method, a unitary methodology, applicable along the Danube, is required. This way it is possible to create a Service Offer / Service Request database that is common, coherent and unitary. Trough match-making mechanisms you can put together SO and SR database with the purpose to realize knowledge/ technology transfer.

An entity should write a Service Offer if they develops a service/technology or an innovation and wishes to make it available to end-users abroad in order to carry out a technology transfer.

An entity should write a service request if it wants to transfer an animated technology in order to develop, be more efficient or diversify the range of products / services for the market.

The project's partners promote the SO/ SR, ask people depending on the type of service / technology the entity have developed and the expert's application areas, participle at brokerage events, B2B, business mission and others events to promote the SO/ SR. They will support the entity to realize a good service/technology transfer.

The entities applying are asked to read carefully the recommendations presented in this document and the guidelines to fill in the Form and to apply exactly the tool.

The Restart4Danube partners aim to be the one-stop co-innovation partners, to create mechanism, methodology, tools, forms to translate services/ inventions, research and intellectual capital into marketable products, processes and services.

5. Bibliography

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2. Innovation Union, http://ec.europa.eu/research/innovation-union/index_en.cfm
3. Commercializing Public Research, new trends and strategies, http://www.oecd-ilibrary.org/science-and-technology/commercialising-public-research-new-trends-and-strategies_9789264193321-en
4. How the European Patent Office supports knowledge and technology transfer, http://knowledge-transfer-study.eu/fileadmin/KTS/workshop/Poland/4-2_P-Biani.pdf
5. Enterprise Europe Network - Partnering Opportunities, <http://een.ec.europa.eu/tools/services/SearchCenter/Search/ProfileSimpleSearch?shid=32db25cb-726f-43b0-8b5f-7742d0935799>
6. Technology Offer and Technology Request, matching <http://een.ec.europa.eu/tools/services/SearchCenter/Search/ProfileSimpleSearch?shid=32db25cb-726f-43b0-8b5f-7742d0935799>
7. Technology Offer - database <http://een.ec.europa.eu/tools/services/SearchCenter/Search/ProfileSimpleSearch?shid=32db25cb-726f-43b0-8b5f-7742d0935799>
8. Technology Request – database <http://een.ec.europa.eu/tools/services/SearchCenter/Search/ProfileSimpleSearch?shid=32db25cb-726f-43b0-8b5f-7742d0935799>

Annex 1 – The Form for Service Offer

Please note:

Mandatory field *

Title*	
Abstract of the offer (request): * <i>Please give a brief description of the benefits of the technology, including key technical or competitive advantages (max. 500 characters)</i>	
Description of the offer * <i>(min. 100 characters)</i>	
Innovative Aspects of the offer (request) * <i>(min. 50 characters):</i>	
Main Advantages of the offer (request) * <i>(min. 50 characters):</i>	
Technology Keywords *	
Please select the domain that includes your technology offer and the appropriate sub-categories <i>Only the selected fields rest</i>	
1. ELECTRONICS, IT AND TELECOMMS (Level1)	
1.1. ELECTRONICS, MICROELECTRONICS (LEVEL2)	
1) Automation, Robotics Control Systems (Level3)	
2) Digital Systems, Digital Representation	
3) Electronic circuits, components and equipment	
4) Electronic engineering	
5) Embedded Systems and Real Time Systems	
6) High Frequency Technology, Microwaves	
7) Magnetic and superconductor materials/devices	
8) Microengineering	
9) Micromachining	
10) Nanotechnologies related to electronics and microelectronics	
11) Optical Networks and Systems	
12) Peripherals Technologies (Mass Data Storage, Display Technologies) related to electronics & microelectronics	
13) Printed circuits and integrated circuits	
14) Quantum Informatics	
15) Semiconductors	
16) Smart cards and access systems	
17) Environmental and Biometrics Sensors, Actuators	
1.2. INFORMATION PROCESSING, INFORMATION SYSTEM, WORKFLOW MANAGEMENT	
1) Advanced Systems Architecture	
2) Archivistis/Documentation/Technical Documentation	
3) Artificial Intelligence (AI)	
4) Computer Games	
5) Computer Hardware	
6) Computer Software	
7) Computer Technology/Graphics, Meta Computing	
8) Data Processing / Data Interchange, Middleware	

9) Data Protection, Storage Technology, Cryptography, Data Security	
10) Databases, Database Management, Data Mining	
11) Electronic Commerce, Electronic Payment	
12) Imaging, Image Processing, Pattern Recognition	
13) Information Technology/Informatics	
14) Internet Technologies/Communication (Wireless, Wi-Fi, Bluetooth)	
15) Knowledge Management, Process Management	
16) Simulation	
17) Speech Processing/Technology	
18) User Interfaces, Usability	
19) Electronic Signature	
20) Building Automation Software	
21) Remote Control	
22) Smart Appliances	
1.3. IT AND TELEMATICS APPLICATIONS	
1) Applications for Health	
2) Applications for Tourism	
3) Applications for Transport and Logistics	
4) ASP Application Service Providing	
5) e-Government	
6) Environment Management Systems & Documental Management Systems	
7) GIS Geographical Information Systems	
8) CRM - Customer relationship Management	
9) Quality Management System	
10) Maintenance Management System	
11) Operation Planning and Scheduler System	
12) Didactic System	
13) ICM - Internet Content Management	
14) Analysis Risk Management	
15) Work Hygiene and Safety Management	
1.4. MULTIMEDIA	
1) Cultural Heritage	
2) E-Learning	
3) E-Publishing, Digital Content	
4) Human Language Technologies	
5) Information Filtering, Semantics, Statistics	
6) Visualisation, Virtual Reality	
1.5. TELECOMMUNICATIONS, NETWORKING	
1) Audiovisual Equipment and Communication	
2) Broadband Technologies	
3) Mobile Communications	
4) Narrow Band Technologies	
5) Network Technology, Network Security	
6) Radar	
7) Research Networking, GRID	
8) Satellite Technology/Systems/Positioning/Communication in GPS - Global Positioning System	

9) Signal Processing	
10) Hi-Fi	
11) Description to Sound and Music Computing	
12) Description Image/Video Computing	
13) Communications Protocols, Interoperability	
14) Residential Gateway	
2. INDUSTRIAL MANUFACTURING, MATERIAL AND TRANSPORT TECHNOLOGIES	
2.1. DESIGN AND MODELLING / PROTOTYPES	
2.2. INDUSTRIAL MANUFACTURE	
1) Cleaning (sandblasting, brushing)	
2) Coatings	
3) Drying	
4) Erosion, Removal (spark erosion, flame cutting, laser/plasma cutting, electrochemical erosion, water jet cutting)	
5) Forming (rolling, forging, pressing, drawing)	
6) Hardening, heat treatment	
7) Joining techniques (riveting, screw driving, gluing)	
8) Jointing (soldering, welding, sticking)	
9) Machine Tools	
10) Machining (turning, drilling, molding, milling, planning, cutting)	
11) Machining, fine (grinding, lapping)	
12) Mixing (powder, etc.), separation (sorting, filtering)	
13) Molding, injection molding, extrusion, sintering	
14) Surface treatment (painting, galvanic, polishing, CVD, PVD)	
2.3. PROCESS CONTROL AND LOGISTICS	
2.4. PLANT DESIGN AND MAINTENANCE	
2.5. PACKAGING / HANDLING	
1) Foil, films	
2) Laminate	
3) Packaging for machines	
4) Packaging for materials	
5) Plastic bags	
2.6. CONSTRUCTION TECHNOLOGY	
1) Building Materials, Components and Methods	
2) Civil engineering	
3) Construction Equipment	
4) Fire Resistance/Safety	
5) Mechanical Engineering, Hydraulics, Vibration & Acoustic Engineering related to construction technology	
6) Pipeline Technology	
7) Pulp Technology related to construction technology	
8) Sensory/Multisensory Technology, Instrumentation related to construction technology	
9) Simulation, Simulation Engineering	
10) Sound Insulation	
11) Vacuum / High Vacuum Technology	

12) Gas Safety	
13) Security	
2.7. MATERIALS TECHNOLOGY	
1) Adhesives	
2) Building materials	
3) Ceramic Materials and Powders	
4) Colours and varnish	
5) Composite materials	
6) Fine Chemicals, Dyes and Inks	
7) Glass	
8) Iron and Steel, Steelworks	
9) Materials Handling Technology (solids, fluids, gases)	
10) Metals and Alloys	
11) Non-ferrous Metals	
12) Optical Materials	
13) Paper technology	
14) Plastics, Polymers	
15) Properties of Materials, Corrosion/Degradation	
16) Rubber	
17) Stone	
18) Advanced Textile Materials	
3. OTHER INDUSTRIAL TECHNOLOGIES	
3.1. OTHER INDUSTRIAL TECHNOLOGIES	
1) Cleaning Technology	
3.2. PROCESS PLANT ENGINEERING	
3.3. APPARATUS ENGINEERING	
3.4. CHEMICAL TECHNOLOGY AND ENGINEERING	
1) Agro chemicals	
2) Anorganic Substances	
3) Colors, dyes related to Chemical Technology and engineering	
4) Electrical Engineering and Technology / Electrical Equipment	
5) Man made fibres	
6) Organic Substances	
7) Pharmaceuticals	
8) Plastics and Rubber related to Chemical Technology and engineering	
9) Soaps, detergents	
10) Special chemicals, intermediates	
11) Care, Hygiene, Beauty	
3.5. FOOTWEAR / LEATHER TECHNOLOGY	
1) Dry filling related to Footwear / Leather Technology	
2) Dyes related to Footwear / Leather Technology	
3) Tanned leather process related to Footwear / Leather Technology	
3.6. SOUND ENGINEERING/TECHNOLOGY	
3.7. MINING TECHNOLOGIES	
3.8. PRINTING	
1) Flexography	
2) Printed Reel Material	

3.9. HOUSEHOLD GOODS & APPLIANCES	
4. ENERGY	
4.1. ENERGY STORAGE AND TRANSPORT	
1) Heat storage	
2) Heat transport and supply, district heating	
3) Storage of electricity, batteries	
4) Transmission of electricity	
5) Transport and storage of gas and liquid fuels	
6) Transport and storage of hydrogen	
4.2. ENERGY PRODUCTION, TRANSMISSION AND CONVERSION	
1) Fuel cell, hydrogen production	
2) Fuel liquefaction, gasification	
3) Furnace technology, construction of heating boilers	
4) Generators, electric engines and power converters	
5) Heat exchangers	
6) Heat pump, cooling technologies	
7) Heating, ventilation	
8) Turbines, fluid machinery, reciprocating engines, combined heat and power	
4.3. FOSSIL ENERGY SOURCES	
1) Coal and Hydrocarbons	
2) Gaseous fossil fuel	
3) Solid fossil fuel	
4) Liquid fossil fuel	
4.4. NUCLEAR FISSION / NUCLEAR FUSION	
4.5. RENEWABLE SOURCES OF ENERGY	
1) Gaseous biomass	
2) Geothermal Energy	
3) Hydropower	
4) Liquid biomass	
5) Photovoltaics	
6) Solar/Thermal energy	
7) Solid biomass	
8) Unconventional and Alternative Energies	
9) Waste incineration	
10) Wind energy	
4.6. RATIONAL USE OF ENERGY	
1) Energy management	
2) Lighting, illumination	
3) Process optimisation, waste heat utilization	
4) Thermal insulation, energy efficiency in buildings	
4.7. OTHER ENERGY TOPICS	
1) Combustion, Flames	
2) Fuel Technology	
5. PHYSICAL AND EXACT SCIENCES	
5.1. ASTRONOMY	
5.2. CHEMISTRY	
1) Analytical Chemistry	

2) Computational Chemistry and Modelling	
3) Inorganic Chemistry	
4) Organic Chemistry	
5) Petrochemistry, Petroleum Engineering	
5.3. EARTH SCIENCES	
1) Geology, Geological Engineering, Geotechnics	
2) Oceanography	
3) Tectonics, Seismology	
5.4. MATHEMATICS, STATISTICS	
1) Algorithms and Complexity	
2) Mathematical modelling	
3) Statistical Analysis	
5.5. METEOROLOGY / CLIMATOLOGY	
1) Biosensor	
2) Moisture sensors	
3) Temperature monitoring	
5.6. PHYSICS	
1) Acoustics	
2) Astrophysics / Cosmology	
3) Laser Technology	
4) Nuclear Physics	
5) Physics of Fluids	
6) Sensors/Multisensor Technology, Instrumentation	
7) Solid state physics	
8) Thermodynamics	
9) Vibration and Acoustic engineering	
10) Optics	
5.7. MECHANICAL ENGINEERING	
5.8. SEPARATION TECHNOLOGIES	
1) Filtration and Membrane Processes	
2) Extraction	
3) Adsorption	
4) Distillation	
5) Sublimation	
6) Other Processes	
5.9. MICRO- AND NANOTECHNOLOGY RELATED TO PHYSICAL AND EXACT SCIENCES	
6. BIOLOGICAL SCIENCES	
6.1. MEDICINE, HUMAN HEALTH	
1) Biostatistics, Epidemiology	
2) Care and Health Services	
3) Clinical Research, Trials	
4) Cytology, Cancerology, Oncology	
5) Dentistry / Odontology, Stomatology	
6) Diagnostics, Diagnosis	
7) Diseases	
8) Environmental Medicine, Social Medicine, Sports Medicine	
9) Gene - DNA Therapy	

10) Gerontology and Geriatrics	
11) Heart and blood circulation illnesses	
12) Electromedical and Medical Equipment	
13) Medical Research	
14) Medical Technology / Biomedical Engineering	
15) Neurology, Brain Research	
16) Pharmaceutical Products / Drugs	
17) Physiology	
18) Surgery	
19) Virus, Virology / Antibiotics / Bacteriology	
20) Laboratory Equipment	
21) Rescue and Emergency Equipment	
22) Physiotherapy, Orthopaedic Technology	
23) Single Use Products and Consumer Goods	
24) Medical Textiles	
25) Medical Furniture	
26) Medical Biomaterials	
6.2. BIOLOGY/ BIOTECHNOLOGY	
1) Biochemistry / Biophysics	
2) Cellular and Molecular Biology	
3) Enzymology / Protein Engineering / Fermentation	
4) Genetic Engineering	
5) In vitro Testing, Trials	
6) Microbiology	
7) Molecular design	
8) Toxicology	
6.3. GENOME RESEARCH	
1) Bioinformatics	
2) Gene Expression, Proteom Research	
3) Population genetics	
6.4. MICRO- AND NANOTECHNOLOGY RELATED TO BIOLOGICAL SCIENCES	
7. AGRICULTURE AND MARINE RESOURCES	
7.1. AGRICULTURE	
1) Agriculture Machinery / Technology	
2) Animal Production / Husbandry	
3) Biocontrol	
4) Crop Production	
5) Horticulture	
6) Pesticides	
7) Precision agriculture	
8) Seed coating	
9) Veterinary Medicine	
7.2. SYLVICULTURE, FORESTRY, FOREST TECHNOLOGY	
1) Forest technology	
2) Paper Technology	
3) Pulp Technology	
4) Sylviculture, Forestry	

5) Wood Products	
7.3. RESOURCES OF THE SEA, FISHERIES	
1) Aquaculture	
2) Fish / Fisheries / Fishing Technology	
3) Marine Science	
8. AGROFOOD INDUSTRY	
8.1. TECHNOLOGIES FOR THE FOOD INDUSTRY	
1) Drink Technology	
2) Food Additives/Ingredients/Functional Food	
3) Food Packaging / Handling	
4) Food Processing	
5) Food Technology	
8.2. FOOD QUALITY AND SAFETY	
1) Detection and Analysis methods	
2) Food Microbiology / Toxicology / Quality Control	
3) Safe production methods	
4) Tracability of food	
8.3. NUTRITION AND HEALTH	
9. MEASUREMENTS AND STANDARDS	
9.1. MEASUREMENT TOOLS	
1) Acoustic Technology related to measurements	
2) Analyses / Test Facilities and Methods	
3) Chemical material testing	
4) Electrical Technology related to measurements	
5) Mechanical Technology related to measurements	
6) Optical material testing	
7) Optical Technology related to measurements	
8) Other Non Destructive Testing	
9) Sensor Technology related to measurements	
10) Thermal material testing	
9.2. AMPLIFIER, A/D TRANSDUCER	
9.3. ELECTRONIC MEASUREMENT SYSTEMS	
9.4. RECORDING DEVICES	
9.5. REFERENCE MATERIALS	
9.6. STANDARDS	
1) Quality Standards	
2) Technical Standards	
10. PROTECTING MAN AND ENVIRONMENT	
10.1. SAFETY	
1) Acoustic safety	
2) Assessment of Risk	
3) Fire Safety Technology	
4) Hazardous Materials	
5) Radiation Protection	
10.2. ENVIRONMENT	
1) Air Pollution / treatment	
2) Biodiversity	

3) Ecology	
4) Environmental Engineering / Technology	
5) Measurement and Detection of Pollution	
6) Natural Disasters	
7) Remote sensing technology	
8) Soil Pollution	
9) Water Pollution / Treatment	
10.3. WASTE MANAGEMENT	
1) Biotreatment / Compost / Bioconversion	
2) Incineration and Pyrolysis	
3) Land and Sea Disposal	
4) Recycling, Recovery	
5) Radioactive Waste	
11. SOCIAL AND ECONOMICS CONCERNS	
11.1. SOCIO-ECONOMIC DEVELOPMENT MODELS, ECONOMIC ASPECTS	
11.2. EDUCATION AND TRAINING	
11.3. INFORMATION AND MEDIA, SOCIETY	
11.4. TECHNOLOGY, SOCIETY AND EMPLOYMENT	
11.5. INFRASTRUCTURES FOR SOCIAL SCIENCES AND HUMANITIES	
11.6. CITIZENS PARTICIPATION	
11.7. FORESIGHT TOOLS	
11.8. SPORTS AND LEISURE	
Current Stage of Development *	
Intellectual Property Rights *	
Exploitation of RTD Results: *	
Comments:	
Organization/Company	
Name:	
Type:	Size:
PLEASE CHOOSE ONE OR MORE MARKET AREAS IN WHICH YOUR TECHNOLOGY MIGHT BE APPLIED. *	
Only the selected fields' rest	
1. COMMUNICATIONS	
1.1. COMMERCIAL COMMUNICATIONS	
1) Radio and TV broadcasting stations	
2) CATV and pay TV systems	
3) Radio and TV broadcasting and other related equipment	
4) Other commercial communications	
1.2. TELEPHONE RELATED	
1) Long distance telephone services	
2) Telephone interconnect and other equipment	
3) Message forwarding, queuing & answering systems, telephone management systems & PBXs	

4) Other telephone related (including telephone cost accounting systems, telephone related telephone test systems and telephone answering service equipment)	
1.3. FACSIMILE TRANSMISSION	
1.4. DATA COMMUNICATIONS	
1) Local area networks (including voice/data PBX systems)	
2) Data communication components	
3) Communications processors/network management	
4) Protocol converters and emulators	
5) Modems and multiplexers	
6) Other data communication components	
7) Network test, monitoring and support equipment	
8) Other data communications	
1.5. SATELLITE MICROWAVE COMMUNICATIONS	
1) Satellite services/carriers/operators	
2) Satellite ground (and others) equipment	
3) Microwave service facilities	
4) Microwave and satellite components (including antennae and amplifiers)	
5) Other satellite/microwave	
1.6. OTHER COMMUNICATIONS RELATED	
1) Defence communications	
2) Mobile communications, pagers and cellular radio	
3) Other communications (not elsewhere classified)	
4) Communications services	
2. COMPUTER RELATED	
2.1. COMPUTERS	
1) Mainframe and scientific computers	
2) Mainframes	
3) Scientific computers	
4) Mini and micro computers	
5) Fail safe computers	
6) Mini computers (small business)	
7) Micro computers (personal and very small)	
8) Other mini and micro computers	
2.2. COMPUTER GRAPHICS RELATED	
1) CAD/CAM, CAE systems	
2) Graphics systems	
3) Graphics software	
4) Graphics terminals	
5) Graphics printers/plotters	
6) Other graphics peripherals	
7) Other computer graphics	
2.3. SPECIALISED TURNKEY SYSTEMS	
2.4. SCANNING RELATED	
1) OCR (optical character recognition)	
2) OBR (optical bar recognition)	
3) MICR (magnetic ink character recognition)	
4) Other scanning related (including optical mark sensing and image processing)	

2.5. PERIPHERALS	
1) Terminals	
2) Intelligent terminals	
3) Portable terminals	
4) Other terminals	
5) Printers	
6) Data I/O devices	
7) Disk related memory devices	
8) Floppy disks and drivers	
9) Winchester disks and drives	
10) Optical disks and drives	
11) Other disk related	
12) Tape related devices	
13) Magnetic tapes	
14) Tape heads and drives	
15) Continuous tape backup systems	
16) Other tape related devices	
17) Other memory devices (excluding semiconductors)	
18) Other peripherals (not elsewhere classified)	
2.6. COMPUTER SERVICES	
1) Time sharing films	
2) Computer leasing and rentals	
3) Computer training services	
4) Data processing, analysis and input services	
5) Computerised billing and accounting services	
6) Databases and on-line information services	
7) Other computer services	
2.7. COMPUTER SOFTWARE	
1) Systems software	
2) Database and file management	
3) Operating systems and utilities	
4) Program development tools/languages	
5) Communications/networking	
6) Other system software	
7) Applications software	
8) Business and office	
9) Home	
10) Education	
11) Manufacturing/industrial	
12) Medical/health	
13) Banks/financial institutions	
14) Other industry specific	
15) Integrated software	
16) Artificial intelligence related software	
17) Expert systems	
18) Natural language	
19) Computer-aided instructions	

20) AI programming aids	
21) Other AI related	
22) Software services	
23) Programming services/systems engineering	
24) Consulting services	
25) Distribution, clearing house	
26) Other software services	
27) Other software related	
2.8. OTHER COMPUTER RELATED	
1) Voice synthesis	
2) Voice recognition	
3. OTHER ELECTRONICS RELATED	
3.1. ELECTRONIC COMPONENTS	
1) Semiconductors	
2) Customised semiconductors	
3) Standart semiconductors	
4) Other semiconductors	
5) Microprocessors	
6) Controllers	
7) Circuit boards	
8) Display panels	
9) Other electronics related (including keyboards)	
3.2. BATTERIES	
3.3. POWER SUPPLIES	
3.4. ELECTRONICS RELATED EQUIPMENT	
1) Semiconductor fabrication equipment and wafer products	
2) Components testing equipment	
3) Other electronics related equipment	
4. GENETIC ENGINEERING/MOLECULAR BIOLOGY	
4.1. RECOMBINANT DNA	
1) Agricultural genetic engineering applications	
2) Industrial genetic engineering applications	
3) Medical genetic engineering applications	
4) Other recombinant DNA	
4.2. MONOCLONAL ANTIBODIES AND HYBRIDOMAS	
4.3. GENE SPLICING AND MANUFACTURING EQUIPMENT	
4.4. OTHER GENETIC ENGINEERING	
5. MEDICAL/HEALTH RELATED	
1) Diagnostic services	
2) Medical imaging	
3) X-rays	
4) CAT scanning	
5) Ultrasound imaging	
6) Nuclear imaging	
7) Other	
8) Diagnostic test products and equipment	
9) Other diagnostic	

5.2. THERAPEUTIC	
1) Therapeutic services	
2) Surgical instrumentation and equipment	
3) Pacemakers and artificial organs	
4) Drug delivery and other equipment (including kidney dialysis machines)	
5) Other therapeutic (including defibrillators)	
5.3. OTHER MEDICAL/HEALTH RELATED	
1) Disposable products	
2) Pharmaceuticals/fine chemicals	
3) Handicap aids	
4) Monitoring equipment	
5) Hospital and other institutional management (including management services and leasing)	
6) Other medical/health related (not elsewhere classified)	
6. ENERGY	
6.1. OIL AND GAS EXPLORATION AND PRODUCTION	
6.2. EXPLORATION SERVICES	
6.3. DRILLING AND SUPPORT SERVICES	
6.4. OIL AND GAS DRILLING, EXPLORATION AND EXTRACTION EQUIPMENT	
1) Drilling and extraction equipment	
2) Drilling instrumentation	
3) Exploration equipment instrumentation	
4) Other oil and gas	
6.5. ALTERNATIVE ENERGY	
1) Solar energy	
2) Photovoltaic solar	
3) Other solar	
4) Wind energy	
5) Geothermal energy	
6) Co-generation	
7) Other alternative energy (including nuclear energy and uranium mining)	
6.6. ENHANCED OIL RECOVERY/HEAVY OIL/SHALE	
6.7. COAL RELATED	
1) Coal mining	
2) Coal related equipment	
3) Other coal related	
6.8. ENERGY CONSERVATION RELATED	
6.9. OTHER ENERGY	
7. CONSUMER RELATED	
7.1. LEISURE AND RECREATIONAL PRODUCTS AND SERVICES	
1) Movies, movie products and theatre operations	
2) Amusement and recreational facilities	
3) Toys and electronic games	
4) Sporting goods, hobby equipment and athletics clothes	
5) Sport facilities (gyms and clubs)	
6) TVs, radio, stereo equipment and consumer electronics	
7) Music, records, production and instruments	

8) Other leisure and recreational products and services	
7.2. RETAILING	
1) Drug stores	
2) Clothing and shoe stores	
3) Discount stores	
4) Computer stores	
5) Other retailing	
7.3. FOOD AND BEVERAGES	
1) Wine and liquors	
2) Health food	
3) Soft drinks and bottling plants	
7.4. CONSUMER PRODUCTS	
1) Clothing, shoes and accessories (including jeweler)	
2) Health and beauty aids	
3) Home furnishing and housewares	
4) Housewares	
5) Furnishing and Furniture	
6) Garden and horticultural products	
7) Other	
8) Automobile parts	
9) Mobile homes	
10) Other consumer products	
7.5. CONSUMER SERVICES	
1) Fast food restaurants	
2) Other restaurants	
3) Hotels and resorts	
4) Auto repair shops	
5) Education and educational products and materials	
6) Travel agencies and services	
7) Other consumer services (including photo processing)	
7.6. OTHER CONSUMER RELATED (NOT ELSEWHERE CLASSIFIED)	
8. INDUSTRIAL PRODUCTS	
8.1. CHEMICALS AND MATERIALS	
1) Plastic fabricators	
2) Homogeneous injections/extrusions	
3) Non-homogeneous injections/extrusions	
4) Fibre-reinforced (plastic) composites	
5) Other fabricated plastics	
6) Processes for working with plastics	
7) Coatings and adhesives manufactures	
8) Membranes and membrane-based products	
9) Specialist/performance materials: producers and fabricators	
10) Semiconductor materials (e.g. silicon wafers)	
11) III/V semiconductor materials (eg gallium arsenide)	
12) Speciality metals (including processes for working with metals)	
13) Ceramics	
14) Lubricants and functional fluids	

15) Other speciality materials	
16) Commodity chemicals and polymers	
17) Industrial chemicals	
18) Polymer (plastics) materials	
19) Speciality/performance chemicals	
20) Electronic chemicals	
21) Other speciality chemicals	
22) Agricultural chemicals	
23) Other chemicals and materials (not elsewhere classified)	
8.2. INDUSTRIAL AUTOMATION	
1) Energy management	
2) Industrial measurement and sensing equipment	
3) Process control equipment and systems	
4) Robotics	
5) Machine vision software and systems	
6) Numeric and computerised control of machine tools	
7) Other industrial automation	
8.3. INDUSTRIAL EQUIPMENT AND MACHINERY	
1) Machine tools, other metal working equipment (excluding numeric control)	
2) Hoists, cranes and conveyors	
3) Mining machinery	
4) Industrial trucks and tractors	
5) Other industrial process machinery for textile, paper and other industries	
6) Power transmission equipment (including generators and motors)	
7) Other industrial equipment and machinery	
8.4. POLLUTION AND RECYCLING RELATED	
1) Air filters and air purification and monitoring equipment	
2) Chemical and solid material recycling	
3) Water treatment equipment and waste disposal systems	
4) Other pollution and recycling related	
8.5. OTHER INDUSTRIAL PRODUCTS (NOT ELSEWHERE CLASSIFIED)	
8.6. INDUSTRIAL SERVICES	
9. OTHER	
9.1. TRANSPORTATION	
1) Airlines	
2) Trucking	
3) Leasing of railcars, buses, cars, etc.	
4) Mail and package shipment	
5) Motor vehicles, transportation equipment and parts	
6) Airfield and other transportation services	
7) Other transportation	
9.2. FINANCE, INSURANCE AND REAL ESTATE	
9.3. SERVICES	
1) Engineering services	
2) Advertising and public relations	
3) Distributors, importers and wholesalers	
4) Consulting services	

5) Media related services		
6) Other services (not elsewhere classified)		
9.4. MANUFACTURING		
1) Business products and supplies		
2) Office furniture and other professional furnishings		
3) Textiles (synthetic and natural)		
4) Books, cards and other publishing		
5) Packing products and systems		
6) Printing and binding		
7) Other manufacturing (not elsewhere classified)		
9.5. AGRICULTURE, FORESTRY, FISHING, ANIMAL HUSBANDRY AND RELATED PRODUCTS		
9.6. MINING (NON-ENERGY RELATED)		
9.7. CONSTRUCTION AND BUILDING PRODUCTS		
1) Construction		
2) Manufacture of building materials		
3) Manufacture of pre-fabricated buildings and systems		
4) Distribution of building products and systems		
5) Construction services		
6) Other construction and building products related		
9.8. UTILITIES AND RELATED FIRMS		
1) Electric companies		
2) Water, sewerage, chemical and solid waste treatment plants		
3) Gas transmission and distribution		
4) Other utilities and related firms		
9.9. OTHER (UNCATEGORISED)		
1) Conglomerates and holding companies		
Market	Application	
Comment (less than 250 characters)		
Type of collaboration: * (tick more than one if necessary)	License agreement	
	Technical Co-operation	
	Joint venture agreement	
	Manufacturing agreement (Subcontracting & Co-contracting)	
	Commercial Agreement with Technical Assistance	
	Other : Financial resources	
Comments: * - Type of partner sought - Specific area of activity - Task to be performed		
Web link to present innovative product:		
Preferred Countries (for information):		
Contact		

Annex 2 – The Form for Service Request

Please note:

Mandatory field *

Technology Request	
Title*	
Abstract of the request: * <i>Please give a brief description of the benefits of the technology, including key technical or competitive advantages (max. 500 characters)</i>	
Description of the request* <i>(min. 100 characters)</i>	
Innovative Aspects of the request* <i>(min. 50 characters):</i>	
Main Advantages of the request * <i>(min. 50 characters):</i>	
Technology Keywords * Please select the domain that includes your technology request and the appropriate sub-categories <i>Only the selected fields rest</i>	
1. ELECTRONICS, IT AND TELECOMMS (Level1)	
1.1. ELECTRONICS, MICROELECTRONICS (LEVEL2)	
1) Automation, Robotics Control Systems (Level3)	
2) Digital Systems, Digital Representation	
3) Electronic circuits, components and equipment	
4) Electronic engineering	
5) Embedded Systems and Real Time Systems	
6) High Frequency Technology, Microwaves	
7) Magnetic and superconductor materials/devices	
8) Micro engineering	
9) Micromachining	
10) Nanotechnologies related to electronics and microelectronics	
11) Optical Networks and Systems	
12) Peripherals Technologies (Mass Data Storage, Display Technologies) related to electronics & microelectronics	
13) Printed circuits and integrated circuits	
14) Quantum Informatics	
15) Semiconductors	
16) Smart cards and access systems	
17) Environmental and Biometrics Sensors, Actuators	
1.2. INFORMATION PROCESSING, INFORMATION SYSTEM, WORKFLOW MANAGEMENT	
1) Advanced Systems Architecture	
2) Archivistics/Documentation/Technical Documentation	
3) Artificial Intelligence (AI)	
4) Computer Games	
5) Computer Hardware	
6) Computer Software	

7) Computer Technology/Graphics, Meta Computing	
8) Data Processing / Data Interchange, Middleware	
9) Data Protection, Storage Technology, Cryptography, Data Security	
10) Databases, Database Management, Data Mining	
11) Electronic Commerce, Electronic Payment	
12) Imaging, Image Processing, Pattern Recognition	
13) Information Technology/Informatics	
14) Internet Technologies/Communication (Wireless, Wi-Fi, Bluetooth)	
15) Knowledge Management, Process Management	
16) Simulation	
17) Speech Processing/Technology	
18) User Interfaces, Usability	
19) Electronic Signature	
20) Building Automation Software	
21) Remote Control	
22) Smart Appliances	
1.3. IT AND TELEMATICS APPLICATIONS	
1) Applications for Health	
2) Applications for Tourism	
3) Applications for Transport and Logistics	
4) ASP Application Service Providing	
5) e-Government	
6) Environment Management Systems & Documental Management Systems	
7) GIS Geographical Information Systems	
8) CRM - Customer relationship Management	
9) Quality Management System	
10) Maintenance Management System	
11) Operation Planning and Scheduler System	
12) Didactic System	
13) ICM - Internet Content Management	
14) Analysis Risk Management	
15) Work Hygiene and Safety Management	
1.4. MULTIMEDIA	
1) Cultural Heritage	
2) E-Learning	
3) E-Publishing, Digital Content	
4) Human Language Technologies	
5) Information Filtering, Semantics, Statistics	
6) Visualisation, Virtual Reality	
1.5. TELECOMMUNICATIONS, NETWORKING	
1) Audiovisual Equipment and Communication	
2) Broadband Technologies	
3) Mobile Communications	
4) Narrow Band Technologies	
5) Network Technology, Network Security	
6) Radar	
7) Research Networking, GRID	

8) Satellite Technology/Systems/Positioning/Communication in GPS – Global Positioning System	
9) Signal Processing	
10) Hi-Fi	
11) Description to Sound and Music Computing	
12) Description Image/Video Computing	
13) Communications Protocols, Interoperability	
14) Residential Gateway	
2. INDUSTRIAL MANUFACTURING, MATERIAL AND TRANSPORT TECHNOLOGIES	
2.1. DESIGN AND MODELLING / PROTOTYPES	
2.2. INDUSTRIAL MANUFACTURE	
1) Cleaning (sandblasting, brushing)	
2) Coatings	
3) Drying	
4) Erosion, Removal (spark erosion, flame cutting, laser/plasma cutting, electrochemical erosion, water jet cutting)	
5) Forming (rolling, forging, pressing, drawing)	
6) Hardening, heat treatment	
7) Joining techniques (riveting, screw driving, gluing)	
8) Jointing (soldering, welding, sticking)	
9) Machine Tools	
10) Machining (turning, drilling, molding, milling, planning, cutting)	
11) Machining, fine (grinding, lapping)	
12) Mixing (powder, etc.), separation (sorting, filtering)	
13) Molding, injection molding, extrusion, sintering	
14) Surface treatment (painting, galvanic, polishing, CVD, PVD)	
2.3. PROCESS CONTROL AND LOGISTICS	
2.4. PLANT DESIGN AND MAINTENANCE	
2.5. PACKAGING / HANDLING	
1) Foil, films	
2) Laminate	
3) Packaging for machines	
4) Packaging for materials	
5) Plastic bags	
2.6. CONSTRUCTION TECHNOLOGY	
1) Building Materials, Components and Methods	
2) Civil engineering	
3) Construction Equipment	
4) Fire Resistance/Safety	
5) Mechanical Engineering, Hydraulics, Vibration & Acoustic Engineering related to construction technology	
6) Pipeline Technology	
7) Pulp Technology related to construction technology	
8) Sensory/Multisensory Technology, Instrumentation related to construction technology	
9) Simulation, Simulation Engineering	
10) Sound Insulation	

11) Vacuum / High Vacuum Technology	
12) Gas Safety	
13) Security	
2.7. MATERIALS TECHNOLOGY	
1) Adhesives	
2) Building materials	
3) Ceramic Materials and Powders	
4) Colours and varnish	
5) Composite materials	
6) Fine Chemicals, Dyes and Inks	
7) Glass	
8) Iron and Steel, Steelworks	
9) Materials Handling Technology (solids, fluids, gases)	
10) Metals and Alloys	
11) Non-ferrous Metals	
12) Optical Materials	
13) Paper technology	
14) Plastics, Polymers	
15) Properties of Materials, Corrosion/Degradation	
16) Rubber	
17) Stone	
18) Advanced Textile Materials	
2.8. TRANSPORT INFRASTRUCTURE	
1) Air Transport	
2) Intermodal Transport	
3) Logistics	
4) Railway Transport	
5) Road Transport	
6) Traffic Engineering / Control Systems	
7) Transshipment Systems	
8) Water Transport	
2.9. TRANSPORT AND SHIPPING TECHNOLOGIES	
1) Design of Vehicles	
2) Hybrid and Electric Vehicles	
3) Railway Vehicles	
4) Road Vehicles	
5) Shipbuilding	
6) Traction/Propulsion Systems	
2.10. AEROSPACE TECHNOLOGY	
1) Aeronautical technology / Avionics	
2) Aircraft	
3) Helicopter	
4) Satellite Navigation Systems	
5) Space Exploration and Technology	
3. OTHER INDUSTRIAL TECHNOLOGIES	
3.1. OTHER INDUSTRIAL TECHNOLOGIES	
1) Cleaning Technology	

3.2. PROCESS PLANT ENGINEERING	
3.3. APPARATUS ENGINEERING	
3.4. CHEMICAL TECHNOLOGY AND ENGINEERING	
1) Agro chemicals	
2) Anorganic Substances	
3) Colors, dyes related to Chemical Technology and engineering	
4) Electrical Engineering and Technology / Electrical Equipment	
5) Man made fibres	
6) Organic Substances	
7) Pharmaceuticals	
8) Plastics and Rubber related to Chemical Technology and engineering	
9) Soaps, detergents	
10) Special chemicals, intermediates	
11) Care, Hygiene, Beauty	
3.5. TEXTILES TECHNOLOGY	
1) Component adhesives for strengthening of seam	
2) Dry filling related to Textiles Technology	
3) Dyeing related to Textiles Technology	
4) Finisher related to Textiles Technology	
5) Non weaving related to Textiles Technology	
6) Solvent based glues for strengthening of edges and seam	
7) Thermoplastic textile fibres	
8) Weaving related to Textiles Technology	
9) Woven technical textiles for industrial applications	
3.6. FOOTWEAR / LEATHER TECHNOLOGY	
1) Dry filling related to Footwear / Leather Technology	
2) Dyes related to Footwear / Leather Technology	
3) Tanned leather process related to Footwear / Leather Technology	
3.7. SOUND ENGINEERING/TECHNOLOGY	
3.8. MINING TECHNOLOGIES	
3.9. PRINTING	
1) Flexography	
2) Printed Reel Material	
3.10. HOUSEHOLD GOODS & APPLIANCES	
4. ENERGY	
4.1. ENERGY STORAGE AND TRANSPORT	
1) Heat storage	
2) Heat transport and supply, district heating	
3) Storage of electricity, batteries	
4) Transmission of electricity	
5) Transport and storage of gas and liquid fuels	
6) Transport and storage of hydrogen	
4.2. ENERGY PRODUCTION, TRANSMISSION AND CONVERSION	
1) Fuel cell, hydrogen production	
2) Fuel liquefaction, gasification	
3) Furnace technology, construction of heating boilers	
4) Generators, electric engines and power converters	

5) Heat exchangers	
6) Heat pump, cooling technologies	
7) Heating, ventilation	
8) Turbines, fluid machinery, reciprocating engines, combined heat and power	
4.3. FOSSIL ENERGY SOURCES	
1) Coal and Hydrocarbons	
2) Gaseous fossil fuel	
3) Solid fossil fuel	
4) Liquid fossil fuel	
4.4. NUCLEAR FISSION / NUCLEAR FUSION	
4.5. RENEWABLE SOURCES OF ENERGY	
1) Gaseous biomass	
2) Geothermal Energy	
3) Hydropower	
4) Liquid biomass	
5) Photovoltaics	
6) Solar/Thermal energy	
7) Solid biomass	
8) Unconventional and Alternative Energies	
9) Waste incineration	
10) Wind energy	
4.6. RATIONAL USE OF ENERGY	
1) Energy management	
2) Lighting, illumination	
3) Process optimization, waste heat utilization	
4) Thermal insulation, energy efficiency in buildings	
4.7. OTHER ENERGY TOPICS	
1) Combustion, Flames	
2) Fuel Technology	
5. PHYSICAL AND EXACT SCIENCES	
5.1. ASTRONOMY	
5.2. CHEMISTRY	
1) Analytical Chemistry	
2) Computational Chemistry and Modelling	
3) Inorganic Chemistry	
4) Organic Chemistry	
5) Petrochemistry, Petroleum Engineering	
5.3. EARTH SCIENCES	
1) Geology, Geological Engineering, Geotechnics	
2) Oceanography	
3) Tectonics, Seismology	
5.4. MATHEMATICS, STATISTICS	
1) Algorithms and Complexity	
2) Mathematical modelling	
3) Statistical Analysis	
5.5. METEOROLOGY/ CLIMATOLOGY	
1) Biosensor	

2) Moisture sensors	
3) Temperature monitoring	
5.6. PHYSICS	
1) Acoustics	
2) Astrophysics / Cosmology	
3) Laser Technology	
4) Nuclear Physics	
5) Physics of Fluids	
6) Sensors/Multisensor Technology, Instrumentation	
7) Solid state physics	
8) Thermodynamics	
9) Vibration and Acoustic engineering	
10) Optics	
5.7. MECHANICAL ENGINEERING	
1) Micro-Mechanics	
5.8. HYDRAULICS	
5.9. SEPARATION TECHNOLOGIES	
1) Filtration and Membrane Processes	
2) Extraction	
3) Adsorption	
4) Distillation	
5) Sublimation	
6) Other Processes	
5.10. MICRO- AND NANOTECHNOLOGY RELATED TO PHYSICAL AND EXACT SCIENCES	
6. BIOLOGICAL SCIENCES	
6.1. MEDICINE, HUMAN HEALTH	
1) Biostatistics, Epidemiology	
2) Care and Health Services	
3) Clinical Research, Trials	
4) Cytology, Cancerology, Oncology	
5) Dentistry / Odontology, Stomatology	
6) Diagnostics, Diagnosis	
7) Diseases	
8) Environmental Medicine, Social Medicine, Sports Medicine	
9) Gene - DNA Therapy	
10) Gerontology and Geriatrics	
11) Heart and blood circulation illnesses	
12) Electromedical and Medical Equipment	
13) Medical Research	
14) Medical Technology / Biomedical Engineering	
15) Neurology, Brain Research	
16) Pharmaceutical Products / Drugs	
17) Physiology	
18) Surgery	
19) Virus, Virology / Antibiotics / Bacteriology	
20) Laboratory Equipment	
21) Rescue and Emergency Equipment	

22) Physiotherapy, Orthopaedic Technology	
23) Single Use Products and Consumer Goods	
24) Medical Textiles	
25) Medical Furniture	
26) Medical Biomaterials	
6.2. BIOLOGY / BIOTECHNOLOGY	
1) Biochemistry / Biophysics	
2) Cellular and Molecular Biology	
3) Enzymology / Protein Engineering / Fermentation	
4) Genetic Engineering	
5) In vitro Testing, Trials	
6) Microbiology	
7) Molecular design	
8) Toxicology	
6.3. GENOME RESEARCH	
1) Bioinformatics	
2) Gene Expression, Proteom Research	
3) Population genetics	
6.4. MICRO- AND NANOTECHNOLOGY RELATED TO BIOLOGICAL SCIENCES	
7. AGRICULTURE AND MARINE RESOURCES	
7.1. AGRICULTURE	
1) Agriculture Machinery / Technology	
2) Animal Production / Husbandry	
3) Biocontrol	
4) Crop Production	
5) Horticulture	
6) Pesticides	
7) Precision agriculture	
8) Seed coating	
9) Veterinary Medicine	
7.2. SYLVICULTURE, FORESTRY, FOREST TECHNOLOGY	
1) Forest technology	
2) Paper Technology	
3) Pulp Technology	
4) Sylviculture, Forestry	
5) Wood Products	
7.3. RESOURCES OF THE SEA, FISHERIES	
1) Aquaculture	
2) Fish / Fisheries / Fishing Technology	
3) Marine Science	
8. AGROFOOD INDUSTRY	
8.1. TECHNOLOGIES FOR THE FOOD INDUSTRY	
1) Drink Technology	
2) Food Additives/Ingredients/Functional Food	
3) Food Packaging / Handling	
4) Food Processing	
5) Food Technology	

8.2. FOOD QUALITY AND SAFETY	
1) Detection and Analysis methods	
2) Food Microbiology / Toxicology / Quality Control	
3) Safe production methods	
4) Tracability of food	
8.3. NUTRITION AND HEALTH	
9. MEASUREMENTS AND STANDARDS	
9.1. MEASUREMENT TOOLS	
1) Acoustic Technology related to measurements	
2) Analyses / Test Facilities and Methods	
3) Chemical material testing	
4) Electrical Technology related to measurements	
5) Mechanical Technology related to measurements	
6) Optical material testing	
7) Optical Technology related to measurements	
8) Other Non Destructive Testing	
9) Sensor Technology related to measurements	
10) Thermal material testing	
9.2. AMPLIFIER, A/D TRANSDUCER	
9.3. ELECTRONIC MEASUREMENT SYSTEMS	
9.4. RECORDING DEVICES	
9.5. REFERENCE MATERIALS	
9.6. STANDARDS	
1) Quality Standards	
2) Technical Standards	
10. PROTECTING MAN AND ENVIRONMENT	
10.1. SAFETY	
1) Acoustic safety	
2) Assessment of Risk	
3) Fire Safety Technology	
4) Hazardous Materials	
5) Radiation Protection	
10.2. ENVIRONMENT	
1) Air Pollution / treatment	
2) Biodiversity	
3) Ecology	
4) Environmental Engineering / Technology	
5) Measurement and Detection of Pollution	
6) Natural Disasters	
7) Remote sensing technology	
8) Soil Pollution	
9) Water Pollution / Treatment	
10.3. WASTE MANAGEMENT	
1) Biotreatment / Compost / Bioconversion	
2) Incineration and Pyrolysis	
3) Land and Sea Disposal	
4) Recycling, Recovery	

5) Radioactive Waste		
11. SOCIAL AND ECONOMICS CONCERNS		
11.1. SOCIO-ECONOMIC DEVELOPMENT MODELS, ECONOMIC ASPECTS		
11.2. EDUCATION AND TRAINING		
11.3. INFORMATION AND MEDIA, SOCIETY		
11.4. TECHNOLOGY, SOCIETY AND EMPLOYMENT		
11.5. INFRASTRUCTURES FOR SOCIAL SCIENCES AND HUMANITIES		
11.6. CITIZENS PARTICIPATION		
11.7. FORESIGHT TOOLS		
11.8. SPORTS AND LEISURE		
Current Stage of Development *		
Intellectual Property Rights *		
Exploitation of RTD Results: *		
Comments:		
Organization/Company		
Name:		
Type:		Size:
PLEASE CHOOSE ONE OR MORE MARKET AREAS IN WHICH THE TECHNOLOGY MIGHT BE APPLIED.*		
<i>Only the selected fields rest.</i>		
1. COMMUNICATIONS		
1.1. COMMERCIAL COMMUNICATIONS		
1) Radio and TV broadcasting stations		
2) CATV and pay TV systems		
3) Radio and TV broadcasting and other related equipment		
4) Other commercial communications		
1.2. TELEPHONE RELATED		
1) Long distance telephone services		
2) Telephone interconnect and other equipment		
3) Message forwarding, queuing & answering systems, telephone management systems & PBXs		
4) Other telephone related (including telephone cost accounting systems, telephone related telephone test systems and telephone answering service equipment)		
1.3. FACSIMILE TRANSMISSION		
1.4. DATA COMMUNICATIONS		
1) Local area networks (including voice/data PBX systems)		
2) Data communication components		
3) Communications processors/network management		
4) Protocol converters and emulators		
5) Modems and multiplexers		
6) Other data communication components		
7) Network test, monitoring and support equipment		
8) Other data communications		
1.5. SATELLITE MICROWAVE COMMUNICATIONS		
1) Satellite services/carriers/operators		
2) Satellite ground (and others) equipment		

3) Microwave service facilities	
4) Microwave and satellite components (including antennae and amplifiers)	
5) Other satellite/microwave	
1.6. OTHER COMMUNICATIONS RELATED	
1) Defence communications	
2) Mobile communications, pagers and cellular radio	
3) Other communications (not elsewhere classified)	
4) Communications services	
2. COMPUTER RELATED	
2.1. COMPUTERS	
1) Mainframe and scientific computers	
2) Mainframes	
3) Scientific computers	
4) Mini and micro computers	
5) Fail safe computers	
6) Mini computers (small business)	
7) Microcomputers (personal and very small)	
8) Other mini and micro computers	
2.2. COMPUTER GRAPHICS RELATED	
1) CAD/CAM, CAE systems	
2) Graphics systems	
3) Graphics software	
4) Graphics terminals	
5) Graphics printers/plotters	
6) Other graphics peripherals	
7) Other computer graphics	
2.3. SPECIALISED TURNKEY SYSTEMS	
2.4. SCANNING RELATED	
1) OCR (optical character recognition)	
2) OBR (optical bar recognition)	
3) MICR (magnetic ink character recognition)	
4) Other scanning related (including optical mark sensing and image processing)	
2.5. PERIPHERALS	
1) Terminals	
2) Intelligent terminals	
3) Portable terminals	
4) Other terminals	
5) Printers	
6) Data I/O devices	
7) Disk related memory devices	
8) Floppy disks and drivers	
9) Winchester disks and drives	
10) Optical disks and drives	
11) Other disk related	
12) Tape related devices	
13) Magnetic tapes	
14) Tape heads and drives	

15) Continuous tape backup systems	
16) Other tape related devices	
17) Other memory devices (excluding semiconductors)	
18) Other peripherals (not elsewhere classified)	
2.6. COMPUTER SERVICES	
1) Time sharing films	
2) Computer leasing and rentals	
3) Computer training services	
4) Data processing, analysis and input services	
5) Computerized billing and accounting services	
6) Databases and on-line information services	
7) Other computer services	
2.7. COMPUTER SOFTWARE	
1) Systems software	
2) Database and file management	
3) Operating systems and utilities	
4) Program development tools/languages	
5) Communications/networking	
6) Other system software	
7) Applications software	
8) Business and office	
9) Home	
10) Education	
11) Manufacturing/industrial	
12) Medical/health	
13) Banks/financial institutions	
14) Other industry specific	
15) Integrated software	
16) Artificial intelligence related software	
17) Expert systems	
18) Natural language	
19) Computer-aided instructions	
20) AI programming aids	
21) Other AI related	
22) Software services	
23) Programming services/systems engineering	
24) Consulting services	
25) Distribution, clearing house	
26) Other software services	
27) Other software related	
2.8. OTHER COMPUTER RELATED	
1) Voice synthesis	
2) Voice recognition	
3. OTHER ELECTRONICS RELATED	
3.1. ELECTRONIC COMPONENTS	
1) Semiconductors	
2) Customised semiconductors	

3) Standart semiconductors	
4) Other semiconductors	
5) Microprocessors	
6) Controllers	
7) Circuit boards	
8) Display panels	
9) Other electronics related (including keyboards)	
3.2. BATTERIES	
3.3. POWER SUPPLIES	
3.4. ELECTRONICS RELATED EQUIPMENT	
1) Semiconductor fabrication equipment and wafer products	
2) Components testing equipment	
3) Other electronics related equipment	
4. GENETIC ENGINEERING/MOLECULAR BIOLOGY	
4.1. RECOMBINANT DNA	
1) Agricultural genetic engineering applications	
2) Industrial genetic engineering applications	
3) Medical genetic engineering applications	
4) Other recombinant DNA	
4.2. MONOCLONAL ANTIBODIES AND HYBRIDOMAS	
4.3. GENE SPLICING AND MANUFACTURING EQUIPMENT	
4.4. OTHER GENETIC ENGINEERING	
5. MEDICAL/HEALTH RELATED	
1) Diagnostic services	
2) Medical imaging	
3) X-rays	
4) CAT scanning	
5) Ultrasound imaging	
6) Nuclear imaging	
7) Other	
8) Diagnostic test products and equipment	
9) Other diagnostic	
5.2. THERAPEUTIC	
1) Therapeutic services	
2) Surgical instrumentation and equipment	
3) Pacemakers and artificial organs	
4) Drug delivery and other equipment (including kidney dialysis machines)	
5) Other therapeutic (including defibrillators)	
5.3. OTHER MEDICAL/HEALTH RELATED	
1) Disposable products	
2) Pharmaceuticals/fine chemicals	
3) Handicap aids	
4) Monitoring equipment	
5) Hospital and other institutional management (including management services and leasing)	
6) Other medical/health related (not elsewhere classified)	
6. ENERGY	

6.1. OIL AND GAS EXPLORATION AND PRODUCTION	
6.2. EXPLORATION SERVICES	
6.3. DRILLING AND SUPPORT SERVICES	
6.4. OIL AND GAS DRILLING, EXPLORATION AND EXTRACTION EQUIPMENT	
1) Drilling and extraction equipment	
2) Drilling instrumentation	
3) Exploration equipment instrumentation	
4) Other oil and gas	
6.5. ALTERNATIVE ENERGY	
1) Solar energy	
2) Photovoltaic solar	
3) Other solar	
4) Wind energy	
5) Geothermal energy	
6) Co-generation	
7) Other alternative energy (including nuclear energy and uranium mining)	
6.6. ENHANCED OIL RECOVERY/HEAVY OIL/SHALE	
6.7. COAL RELATED	
1) Coal mining	
2) Coal related equipment	
3) Other coal related	
6.8. ENERGY CONSERVATION RELATED	
6.9. OTHER ENERGY	
7. CONSUMER RELATED	
7.1. LEISURE AND RECREATIONAL PRODUCTS AND SERVICES	
1) Movies, movie products and theatre operations	
2) Amusement and recreational facilities	
3) Toys and electronic games	
4) Sporting goods, hobby equipment and athletics clothes	
5) Sport facilities (gyms and clubs)	
6) TVs, radio, stereo equipment and consumer electronics	
7) Music, records, production and instruments	
8) Other leisure and recreational products and services	
7.2. RETAILING	
1) Drug stores	
2) Clothing and shoe stores	
3) Discount stores	
4) Computer stores	
5) Other retailing	
7.3. FOOD AND BEVERAGES	
1) Wine and liquors	
2) Health food	
3) Soft drinks and bottling plants	
4) Food supplements/vitamins	
5) General food products	
6) Other food and beverages	
7.4. CONSUMER PRODUCTS	

1) Clothing, shoes and accessories (including jewelers)	
2) Health and beauty aids	
3) Home furnishing and housewares	
4) Housewares	
5) Furnishing and Furniture	
6) Garden and horticultural products	
7) Other	
8) Automobile parts	
9) Mobile homes	
10) Other consumer products	
7.5. CONSUMER SERVICES	
1) Fast food restaurants	
2) Other restaurants	
3) Hotels and resorts	
4) Auto repair shops	
5) Education and educational products and materials	
6) Travel agencies and services	
7) Other consumer services (including photo processing)	
7.6. OTHER CONSUMER RELATED (NOT ELSEWHERE CLASSIFIED)	
8. INDUSTRIAL PRODUCTS	
8.1. CHEMICALS AND MATERIALS	
1) Plastic fabricators	
2) Homogeneous injections/extrusions	
3) Non-homogeneous injections/extrusions	
4) Fibre-reinforced (plastic) composites	
5) Other fabricated plastics	
6) Processes for working with plastics	
7) Coatings and adhesives manufactures	
8) Membranes and membrane-based products	
9) Specialty/performance materials: producers and fabricators	
10) Semiconductor materials (e.g. silicon wafers)	
11) III/V semiconductor materials (eg gallium arsenide)	
12) Specialty metals (including processes for working with metals)	
13) Ceramics	
14) Lubricants and functional fluids	
15) Other speciality materials	
16) Commodity chemicals and polymers	
17) Industrial chemicals	
18) Polymer (plastics) materials	
19) Speciality/performance chemicals	
20) Electronic chemicals	
21) Other speciality chemicals	
22) Agricultural chemicals	
23) Other chemicals and materials (not elsewhere classified)	
8.2. INDUSTRIAL AUTOMATION	
1) Energy management	
2) Industrial measurement and sensing equipment	

3) Process control equipment and systems	
4) Robotics	
5) Machine vision software and systems	
6) Numeric and computerized control of machine tools	
7) Other industrial automation	
8.3. INDUSTRIAL EQUIPMENT AND MACHINERY	
1) Machine tools, other metal working equipment (excluding numeric control)	
2) Hoists, cranes and conveyors	
3) Mining machinery	
4) Industrial trucks and tractors	
5) Other industrial process machinery for textile, paper and other industries	
6) Power transmission equipment (including generators and motors)	
7) Other industrial equipment and machinery	
8.4. POLLUTION AND RECYCLING RELATED	
1) Air filters and air purification and monitoring equipment	
2) Chemical and solid material recycling	
3) Water treatment equipment and waste disposal systems	
4) Other pollution and recycling related	
8.5. OTHER INDUSTRIAL PRODUCTS (NOT ELSEWHERE CLASSIFIED)	
8.6. INDUSTRIAL SERVICES	
9. OTHER	
9.1. TRANSPORTATION	
1) Airlines	
2) Trucking	
3) Leasing of railcars, buses, cars, etc.	
4) Mail and package shipment	
5) Motor vehicles, transportation equipment and parts	
6) Airfield and other transportation services	
7) Other transportation	
9.2. FINANCE, INSURANCE AND REAL ESTATE	
9.3. SERVICES	
1) Engineering services	
2) Advertising and public relations	
3) Distributors, importers and wholesalers	
4) Consulting services	
5) Media related services	
6) Other services (not elsewhere classified)	
9.4. MANUFACTURING	
1) Business products and supplies	
2) Office furniture and other professional furnishings	
3) Textiles (synthetic and natural)	
4) Books, cards and other publishing	
5) Packing products and systems	
6) Printing and binding	
7) Other manufacturing (not elsewhere classified)	
9.5. AGRICULTURE, FORESTRY, FISHING, ANIMAL HUSBANDRY AND RELATED PRODUCTS	
9.6. MINING (NON-ENERGY RELATED)	

9.7. CONSTRUCTION AND BUILDING PRODUCTS		
1) Construction		
2) Manufacture of building materials		
3) Manufacture of pre-fabricated buildings and systems		
4) Distribution of building products and systems		
5) Construction services		
6) Other construction and building products related		
9.8. UTILITIES AND RELATED FIRMS		
1) Electric companies		
2) Water, sewerage, chemical and solid waste treatment plants		
3) Gas transmission and distribution		
4) Other utilities and related firms		
9.9. OTHER (UNCATEGORISED)		
1) Conglomerates and holding companies		
Market Comment (less than 250 characters)	Application	
Type of collaboration: * (tick more than one if necessary)	License agreement	
	Technical Co-operation	
	Joint venture agreement	
	Manufacturing agreement (Subcontracting & Co-contracting)	
	Commercial Agreement with Technical Assistance	
	Other : Financial resources	
Comments: * - Type of partner sought - Specific area of activity - Task to be performed		
Web link to present innovative product:		
Preferred Countries (for information):		
Contact:		