





Transfer of technology in practice

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Interdisciplinary PhD Studies in Materials Engineering with English as the language of instruction Institute of Metallurgy and Materials Science

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Agenda

- 1. Types of R & D cooperation
- 2. Overview of design and technology database Foreign and domestic
- 3. Search rules
- 4. Research Profiles / technology offers
- 5. Practical exercises







Types of cooperation (I)

- 1. Subject of cooperation:
- design and development of new technological solutions
- joint research and development
- funds for the implementation of technology
- technology transfer sale of licenses, signing a contract or commercial production, joint venture







Types of cooperation (II)

- 2. Body cooperation
- type and size of institution
- trade
- 2. Size cooperate
- local
- international









CORDIS database

CORDIS – website includes information on research and development within the European Research Area: http://cordis.europa.eu

Available modules:

- Partners
- Research Results
- Technologies
- Experts
- Scholarships
- Competitions
- Projects
- Programs
- Conferences







CORDIS PARTNERS



CORDIS-PARTNERS – search partners for an international research and technological cooperation

URL: http://cordis.europa.eu/partners-service

The service enables:

- publication of tenders seeking partners for your own project
- publication offers to join the project consortium
- search listings posted cooperation

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CORDIS SEARCH

Tool for finding the following information:

Cordis Projects

- Cordis Funding
- ■Cordis Exploitable Results

Available search methods:

Simple Search

- ■Advanced Search
- Professional Search
- ■Map-based Search

http://cordis.europa.eu/search/index.cfm

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CORDIS - EXPERTS



Database of (both individual experts reported and by fields related institutions) competitions 7th to in proposals evaluating submitted for funding projects. 31.07.2013 Competition continued to: open Register by Expert Management Module (EMM) at:

http://cordis.europa.eu/emmfp7

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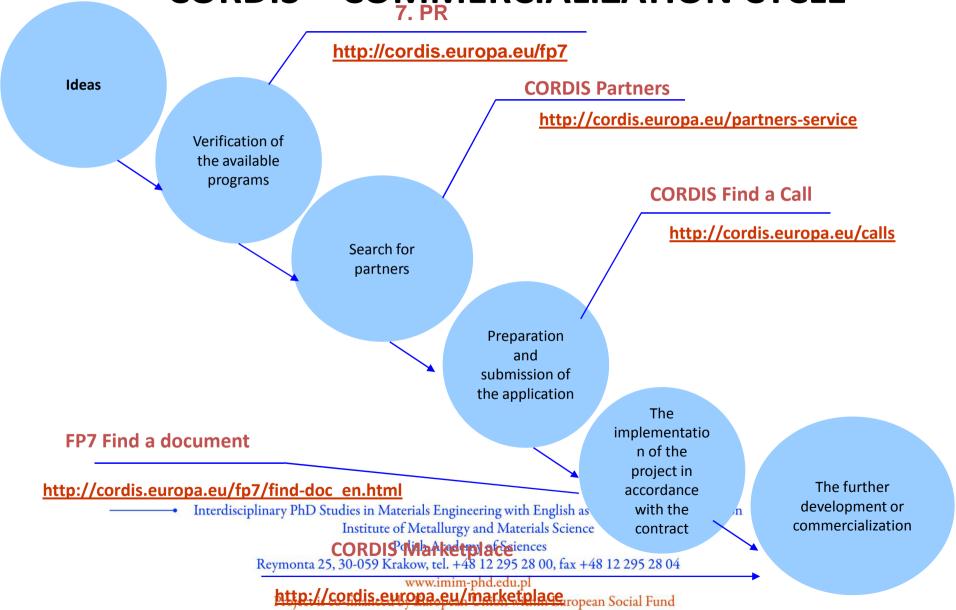
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CORDIS – COMMERCIALIZATION CYCLE









What is a Technology Offer?

 Technology Offer is part of the market process, in which the technology is bought and/or sold.

 Technology Offer is the essential element of the innovative processes and the technology transfer process.

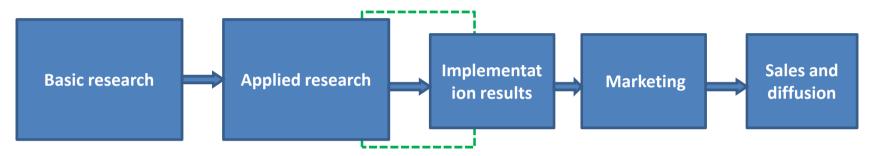




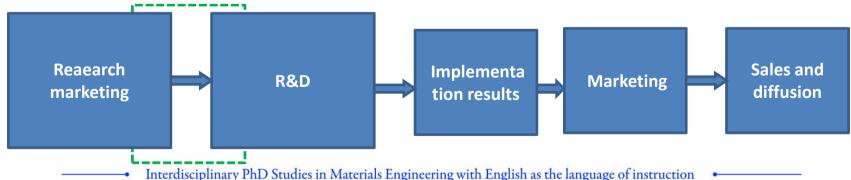


Technology Offer as part of the innovation process

MODEL OF INNOVATION "PUSHED" BY SCIENCE



MODEL OF INNOVATION "PULLED" THE MARKET



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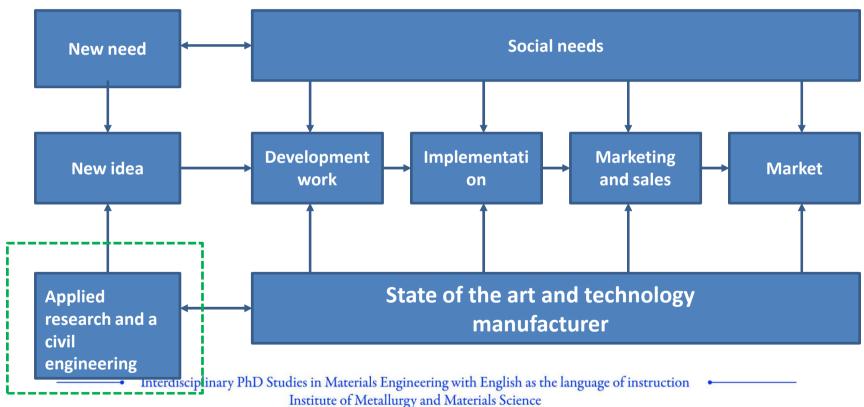






Technology Offer as part of the innovation process

MODEL COUPLED



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Innovation as part of the Technology Offers

- Innovation only in exceptional cases depends solely on the technological know-how
- Innovation is interactive and multidisciplinary
- Innovation is located
- Innovation is the process of integration
- Innovation is the process of learning
- Innovation is a phenomenon of the social dimensions
- Innovation is a process of creative destruction
- Innovation in cultural roots in the historical process

Innovation is expensive and risky
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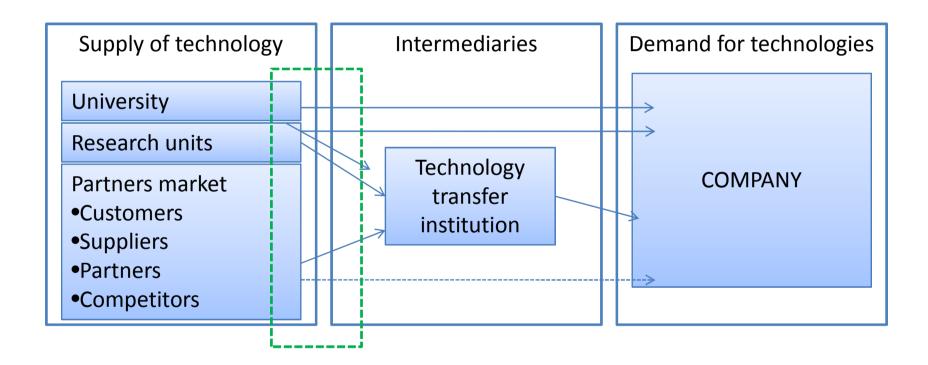
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Technology Offer as part of the technology transfer process



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The objectives of the technological development

Internal functions

External functions

Decision-making
Information
Economy
Directing
Creative
Organizational
Tool
Regulatory

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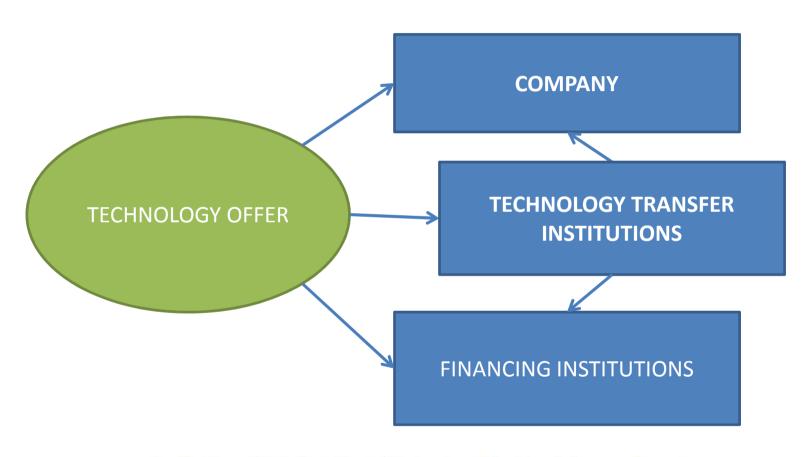
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Presentation of the technological offer



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Technology transfer institutions

- Technology transfer centers
- technology incubators
- Academic incubators
- Technology parks (including science and technology, and industrial-technological)
- National and international support networks (KSI, EEN)

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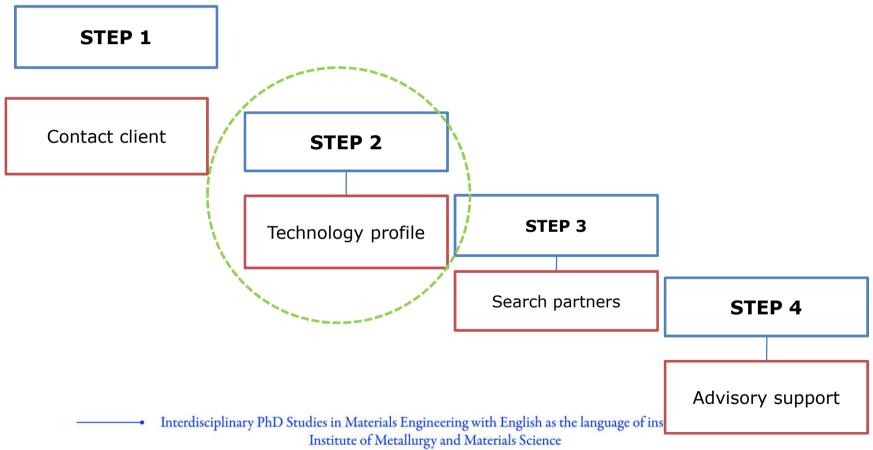
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Functional diagram of intermediaries



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The most common mistakes in technological

- lack of clarity of the offer the structure can be confusing offers for external reader;
- excessive breadth of the document;
- excessive fragmentation;
- internal contradictions;
- missing or imperfect representation of the concept of co-operation;
- lack of differentiation between "wishful thinking" and reality;
- focusing on descriptions of action and no benefits;
- No / minimize financial information;







Proposed model structure

- 1. Title
- Summary
- 3. Technology Overview
- 4. Financial aspects
- 5. Potential benefits
- 6. Market / target markets
- 7. Phase of development
- 8. Protection Status
- 9. Type of cooperation







Title and Summary

- The title should be bright and clear for a person who is not an expert in your field.
- Summary short and clear summary of key information. This should include answers to the following questions:
- Business profile ot technological solution owner
- What is offered?
- What can be used?
- What are the main benefits?
- What kind of cooperation is sought?







Technology Overview

- General information / introduction to the technology offered;
- Identify the need / problem to solve;
- Clearly state the proposed innovation (Specify the type of the proposed innovation - product, process, organization);
- To provide some quantifiable data (performance, materiel, or energy intensity, etc.);
- Inform about results of works;
- Avoid highly technical language, use language understandable to the layman;
- If possible, provide some diagrams, photos or drawing.







Financial aspects

- If possible, determine the necessary capital expenditures;
- Show measurable financial benefits: reduce operating costs, increase production capacity, aspects;
- Identify possible sources of funding (programs available instruments to support partners);







The potential benefits

- Repeat the fundamental problems that solves technology;
- Emphasize the importance of these issues for the enterprise;
- Describe the extent to which they are addressed;
- If any, mention the indirect benefits, added value (eg, environmental, applicable standards, etc.)
- Use language of benefits!

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Target markets

- Market research, sectors in which technology can be used;
- Identify potential users, customers;
- If it possible to identify other potential markets / applications;
- If possible, provide information on the size and value of the market, the planned development, etc.







Phase of development and conservation status

Conception

Phase of development

Constructionnof a prototype

Commercialization

Determine the stage of development of the technology;

Explain any major issues (eg approximate "time to market", stages of development)

- Determine who is the owner of rights;
- Form of protection (current or planned);

The patent application

Patent

Utility model

Copyright Reserved

The exclusive rights

Know-how

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Collaboration type of R & D

Clearly state the preferred model of cooperation, and technology transfer subject;

Eliminate unwanted models of cooperation (eg joint venture, the sale of a patent, etc.)

Specify the type of partner sought, the nature of their activities, roles and tasks of a potential partner

License Agreement	Further research, product development
Funding	The joint venture agreement
Technical cooperation	Commercial Agreement with Technical Assistance
The exchange of information, know-how	Manufacturing Agreement

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Working in groups

- 1. Preparation of technology offers
- 2. Presentations technology offers







Best wishes of successful commercialization

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