

Collaborative Research and Innovation: a New Model for the Future

Training on Innovation

Naples, November 25th, 2015

TRAINING ON INNOVATION

NOVEMBER 25TH- 27TH 2015, NAPLES - ITALY

med
Spring MERID
MIDDLE EAST
RESEARCH AND INNOVATION
INITIATIVE



THE ITALIAN NATIONAL RESEARCH COUNCIL (CNR)

- **MISSION:** carrying out research within its own Institutes, promoting innovation and competitiveness of the industrial system, internationalization of the national research system, providing technologies and solutions to emerging needs in public and private sectors and advising Government and public institutions.
- The **PERSONNEL** consists of more than 8,000 employees.

TRAINING ON INNOVATION

NOVEMBER 25TH- 27TH 2015, NAPLES - ITALY

med
Spring **MERID**
MIDDLE EAST
RESEARCH AND INNOVATION
PROGRAM



SCIENTIFIC NETWORK

- 7 Departments:
 - Earth System Sciences and Technologies for the Environment
 - Agri-food and Biosciences
 - Biomedical Sciences
 - Physical Sciences and Technologies of Matter
 - Engineering, ICT and Technologies for Energy and Transport
 - Humanities, Social Sciences and Cultural Heritage
 - Chemical Sciences and Technologies of Materials
- 108 Research Institutes
- 20 Research Areas



TRAINING ON INNOVATION

NOVEMBER 25TH- 27TH 2015, NAPLES - ITALY

med
Spring MERID



TECHNOLOGY TRANSFER AT THE CNR

In the actions of transfer of research results CNR uses different functions / Facilities :

- At the central level **Industrial Liaison Office**;
- In terms of thematic areas contacts point in the **Departments**;
- At ground level Research Groups in **Research Institutes**.

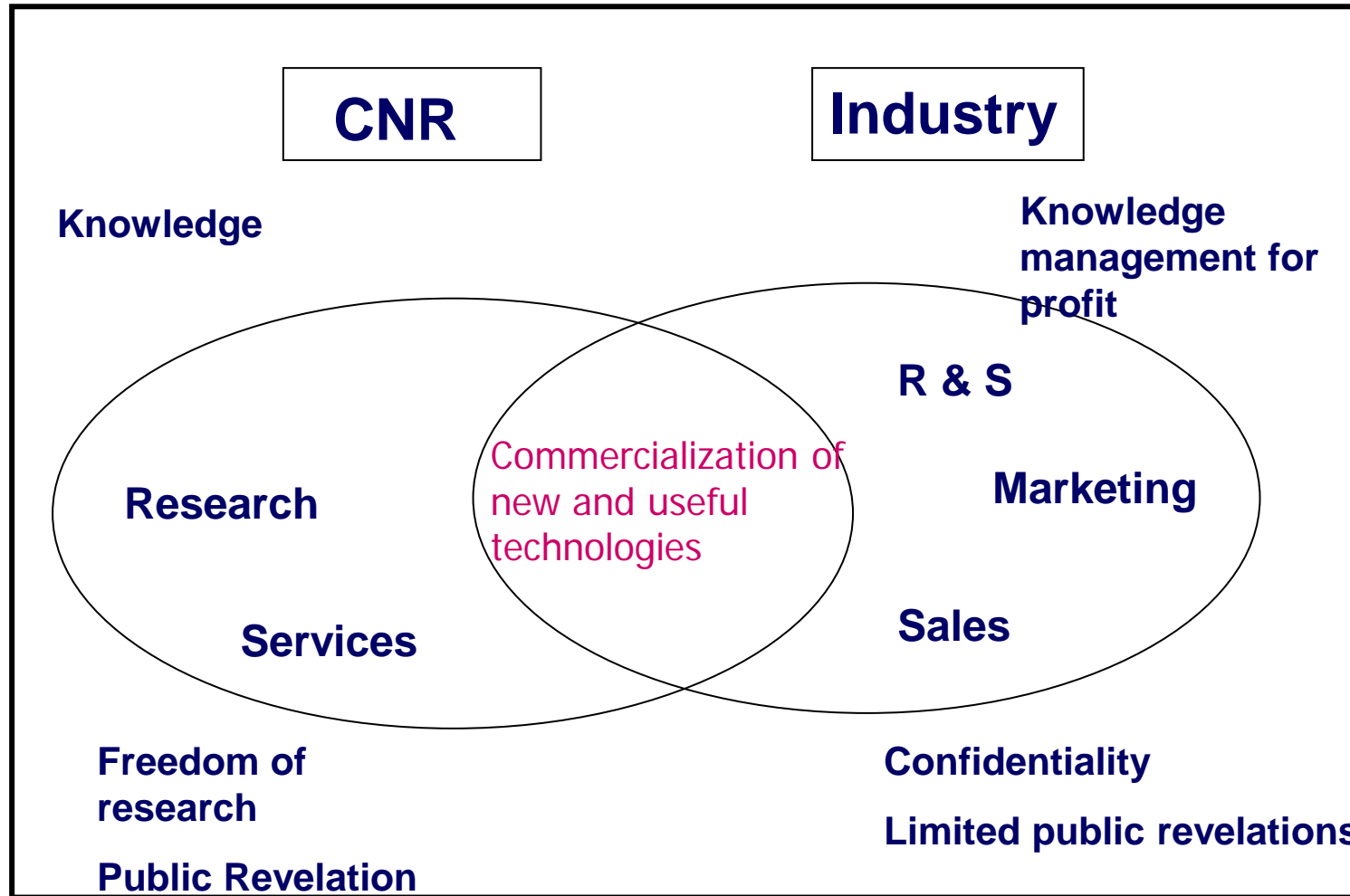
TRAINING ON INNOVATION

NOVEMBER 25TH- 27TH 2015, NAPLES - ITALY

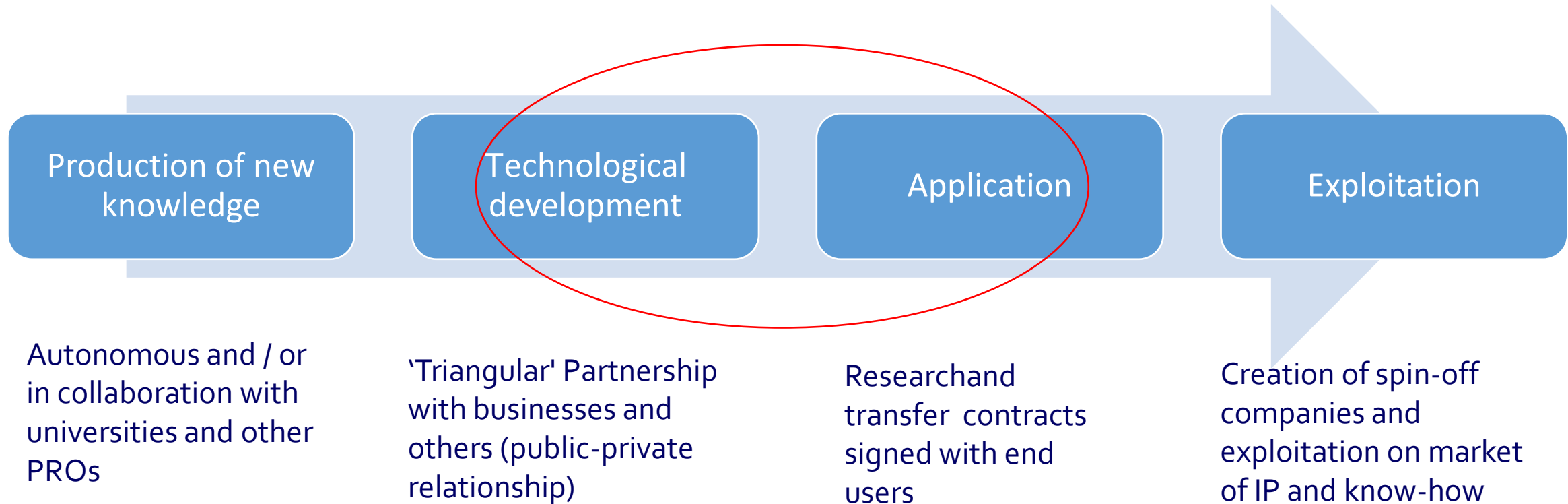
med
Spring **MERID**
MIDDLE SIZE
RESEARCH AND INNOVATION
Initiative



CNR-Industry: Values in conflict Common concerns



The Process



TRAINING ON INNOVATION

NOVEMBER 25TH - 27TH 2015, NAPLES - ITALYmed
SpringMERID
MIDDLE EAST
RESEARCH AND INNOVATION
INITIATIVE

METHOD AND TOOLS OF EXPLOITATION

- Relationships and framework agreements, eg. Confindustria, Confartigianato, Federchimica Invitalia, ENI, United Arab Emirates;
- Participation in TT projects with external partners (national and / or international patents Road shows; **BioTTasa**, PoCN, ItaliaCamp Network EEN);
- Patent Database online;
- Creation of new spin-off companies;
- Partnering with Technology Brokers;
- Training and information activities.

TRAINING ON INNOVATION

NOVEMBER 25TH- 27TH 2015, NAPLES - ITALY

med
Spring **MERID**
EUROPEAN UNION
RESEARCH AND INNOVATION



CASE STUDY: BioTasa **PROJECT**



INNOVHUB
STAZIONI SPERIMENTALI
PER L'INDUSTRIA

Innovazione e ricerca



Confindustria
Trieste



Unione Industriali
Napoli



FEDERCHIMICA

ASSOBIOTEC

Associazione nazionale per lo sviluppo delle biotecnologie



**SARDEGNA
RICERCHE**



Aries

AZIENDA SPECIALE
Camera di Commercio Trieste

TRAINING ON INNOVATION

NOVEMBER 25TH-27TH 2015, NAPLES - ITALY



BIOTTASATT ACTIVITIES

- ✓ Exploitation of Intellectual Property Rights and know-how of the CNR in the biotech sector;
- ✓ Strengthening of structures used in joint laboratories;
- ✓ Creation of new spin-off companies;
- ✓ Establishment of a network of cooperation between partners.

TRAINING ON INNOVATION

NOVEMBER 25TH- 27TH 2015, NAPLES - ITALY

med
Spring **MERID**
FOR HEALTH CARE
RESEARCH AND INNOVATION



PROJECT GOAL

1. Diagnostics and development of innovative drugs;
2. Gene therapy;
3. Biosensors in agro-food and environmental;
4. Biodiversity and Bioenergy;
5. Research services

TRAINING ON INNOVATION

NOVEMBER 25TH- 27TH 2015, NAPLES - ITALY

med
Spring

MERID
MERCATO EUROPEO
RESEARCH INNOVATION
DEVELOPMENT



COMMITTEES, WORKING GROUP AND COMMISSION

- ✓ **STRATEGIC COMMITTEE** is in charge of Identification of the Project Manager; Identification of the members of the Analysis and Feasibility Commission; Definition of the methodology of the project for each Objective (jointly with the Project Manager); Implementing the Project through the Executive Committee in direct connection with the Territorial Working Group
- ✓ **PROJECT MANAGER** - is in charge of Managing the project day-by-day and the issues that arise from time to time which may affect the outcome; Promote communication and understanding between the different committees; Managing relationships with partners and all communication relating to the project; Support and supervise the committees during draft of the relative documents
- ✓ **EXECUTIVE COMMITTEE** – is in charge of Implementing the project, on the basis of recommendations of the Strategic Committee; Report to the Strategic Committee the state of progress of the project and the critical points
- ✓ **TERRITORIAL WORKING GROUP** - is in charge of the linking the Research and Industry units present in the regions concerned, in particular for the detection of the Research Groups in the area; Identification of the needs for business innovation; Development and implementation of the regional plan for the dissemination and communication of the activities and results of the project.
- ✓ **ANALYSIS AND FEASIBILITY COMMISSION** - is in charge of Analysis and evaluation of the technology results obtained by the scouting and joint laboratories. The analysis is done through interviews with the Research Group

SCOUTING OF SCIENCE AND TECHNOLOGY RESULT

Sector
Title
Description
Product innovation
Process Innovation
Product/process innovation integrated with an already existing technology
Know-how/service innovation
Innovative features/competitive advantages
Reference market
Total Innovation > market leadership
Incremental Innovation > Best competitor
Impacts on existing markets
Creation of new markets
Development stage of technology/product
Idea
Feasibility
Prototype
Industrialization
Intellectual Property
Patented technology
Country

Patentable technology	YES		NO
------------------------------	-----	--	----

Licensing out	YES		NO
----------------------	-----	--	----

Publication of technology	
YES	NO

Published

In publication phase

--	--	--	--

Technology validation/demonstration	YES		NO
--	-----	--	----

Internal validation

External validation

Functional features	
YES	NO

Significant information

Significant and verifiable information exist about:

Functional features

Potential industrial application

Identified market opportunities

Market positioning

Italian	European	International
---------	----------	---------------

Technology transferable to market
--

YES	ALMOST	NO
-----	--------	----

Further research development Needed Technical/economical/financial	Agreement on further projects Industrial research and technology innovation	
---	--	--

Type object of Agreement:	Partner:	
---------------------------	----------	--

License	Company	
---------	---------	--

Patent	Research Institution	
--------	----------------------	--

Joint Venture/Equity participation		
------------------------------------	--	--

Academic Spin -off		
--------------------	--	--

TRAINING ON INNOVATION

NOVEMBER 25TH- 27TH 2015, NAPLES - ITALY

 med
Spring


 MERID
MIDDLE EAST
RESEARCH AND INNOVATION


Project Results

- Scouting, analysis and validation of CNR biotech technologies;
- Scouting, analysis and validation (for the promotion) of research facilities CNR to be used as Open Labs;
- Scouting of the technological needs of the industrial world;
- Website Design www.biottasa.it ; database technologies and Open Labs and brochures;
- Organization and execution of Training and InFormation courses;
- Activities of Promotion and Matchmaking

TRAINING ON INNOVATION

NOVEMBER 25TH - 27TH 2015, NAPLES - ITALY

med
Spring

MERID
EUROPEAN RESEARCH AND INNOVATION



CNR TECHNOLOGY SCOUTING

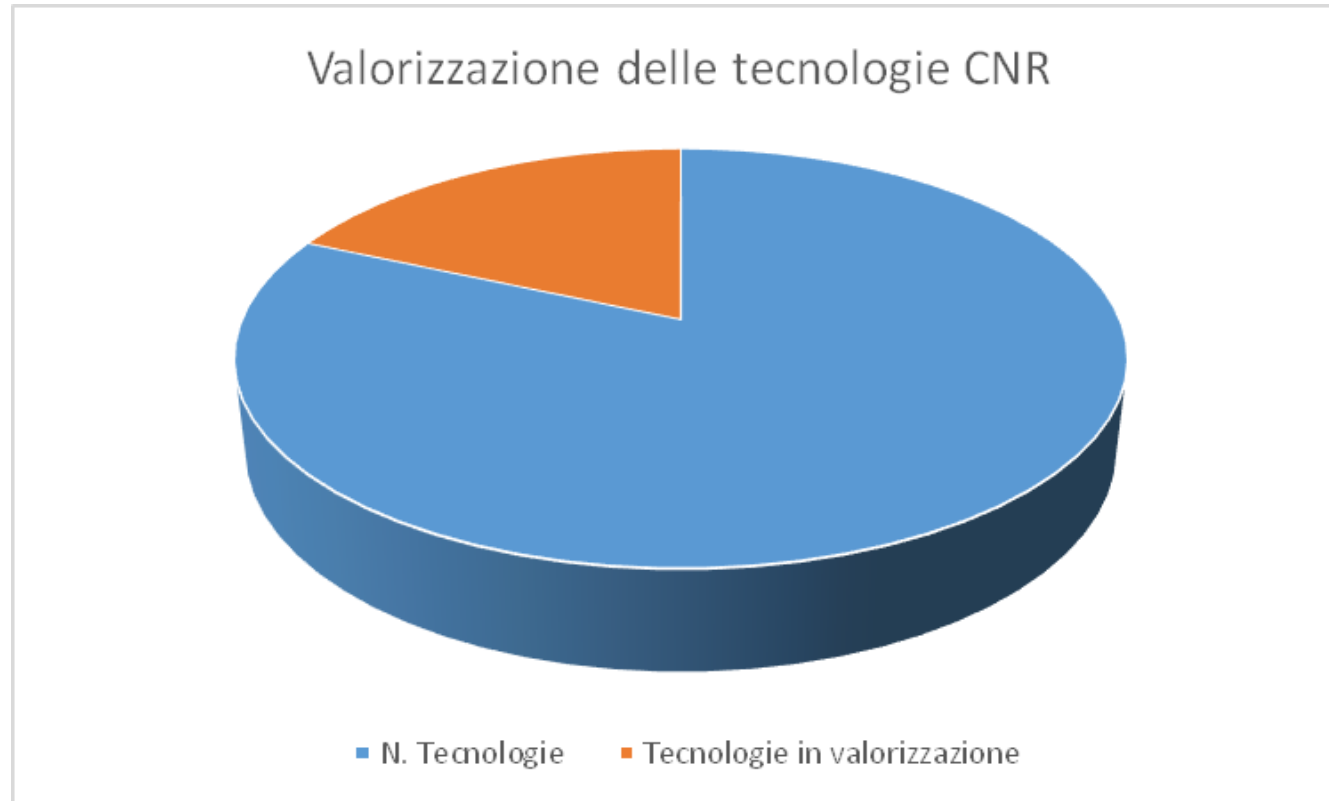
80 Technology Profiles

THEME AREA	N. TECHNOLOGY PROFILES
PHARMA	34
DIAGNOSTIC	22
BIOSENS – AGRI - ENVIRONMENT	14
BIODIVERSITY - RES-SUPPL - MEDICAL DEVICE	10

TRAINING ON INNOVATION
NOVEMBER 25TH- 27TH 2015, NAPLES - ITALY



PROMOTION RESULTS



TRAINING ON INNOVATION
NOVEMBER 25TH- 27TH 2015, NAPLES - ITALY



CNR OPEN LABS SCOUTING

**57 Open Lab
Profiles**

15 Respondents

9 Published on DB

4 Financed

TRAINING ON INNOVATION

NOVEMBER 25TH- 27TH 2015, NAPLES - ITALY

med
Spring

MERID
MIDDLE EAST
RESEARCH AND INNOVATION
INITIATIVE



AND NOW.....?

TRAINING ON INNOVATION

NOVEMBER 25TH- 27TH 2015, NAPLES - ITALY

med
Spring **MERID**

EUROPEAN UNION
RESEARCH AND INNOVATION
ACTION PROGRAM





BioTAsa+

- Will monitor the actions of technology promotion;
- Will open a new call for new technologies and Open Labs;
- Will go international in terms of technology promotion;
- Will organize new training and information courses

TRAINING ON INNOVATION

NOVEMBER 25TH- 27TH 2015, NAPLES - ITALY

med Spring **MERID**
EUROPEAN UNION
RESEARCH AND INNOVATION
PROGRAMME





Barbara Angelini
CNR- Valorizzazione della Ricerca



+39.06.49932415



barbara.angelini@cnr.it