



CAPITANK

Chemical and Pharmaceutical Innovation Tank

June 2016

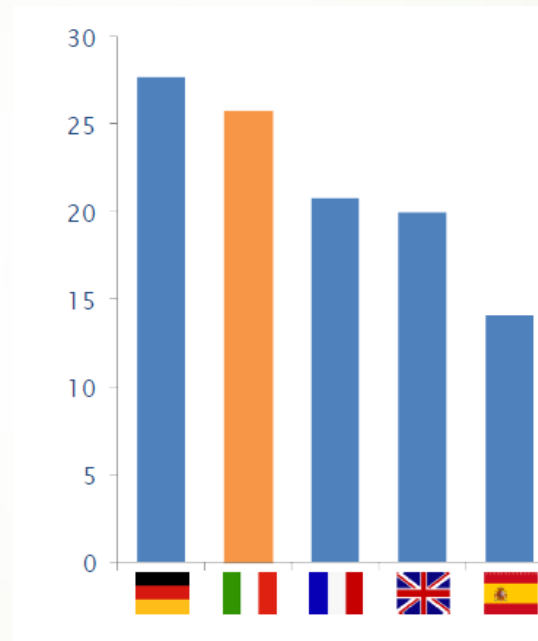
Summary

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2. CapitanK Consortium
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4. Strategic sectors
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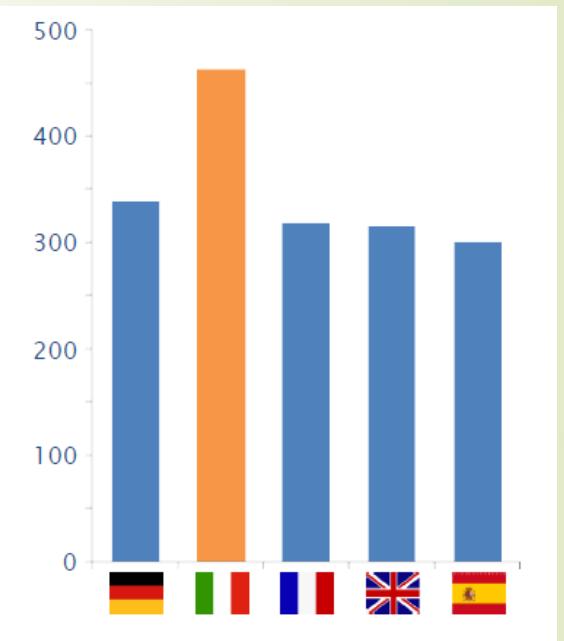


Pharmaceutical sector in Italy

- Pharmaceutical industry in Italy is among the first in Europe for production activities



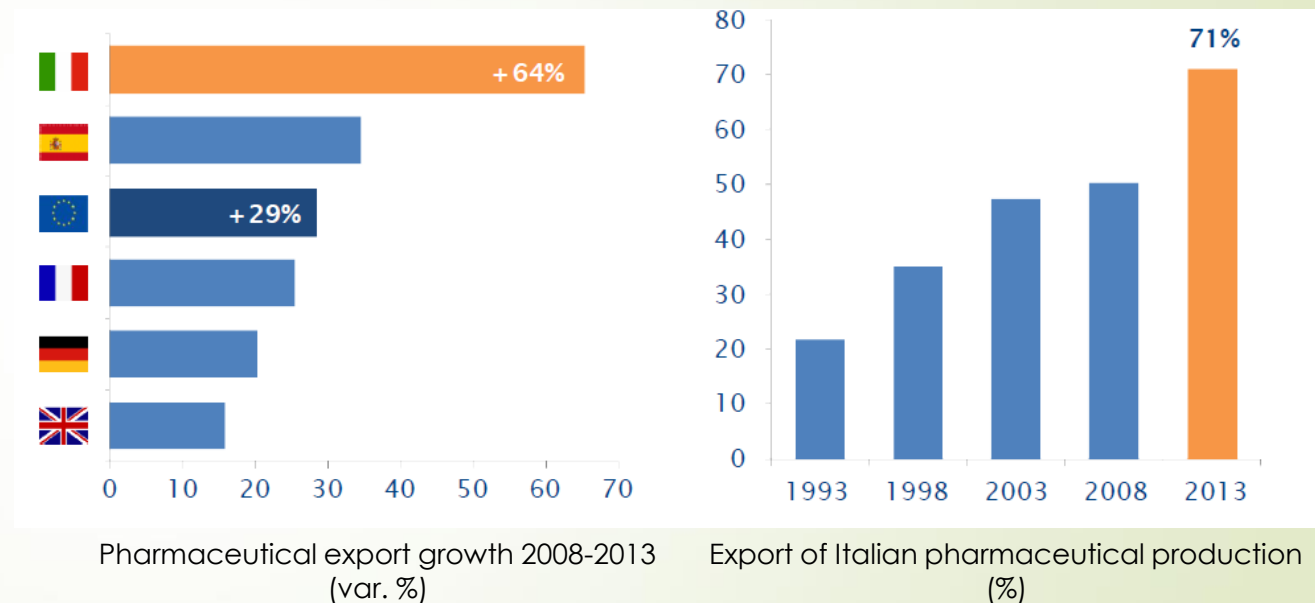
European production (Bln-Euro)



European per-capita production (Bln-Euro)

Pharmaceutical sector in Italy

- Italian pharmaceutical industry is growing in international markets



Pharmaceutical sector in Italy

- Abruzzo is one of the most important regions in Italy for pharmaceutical production
- Pharmaceutical industry has about 2.500 employees in Abruzzo region

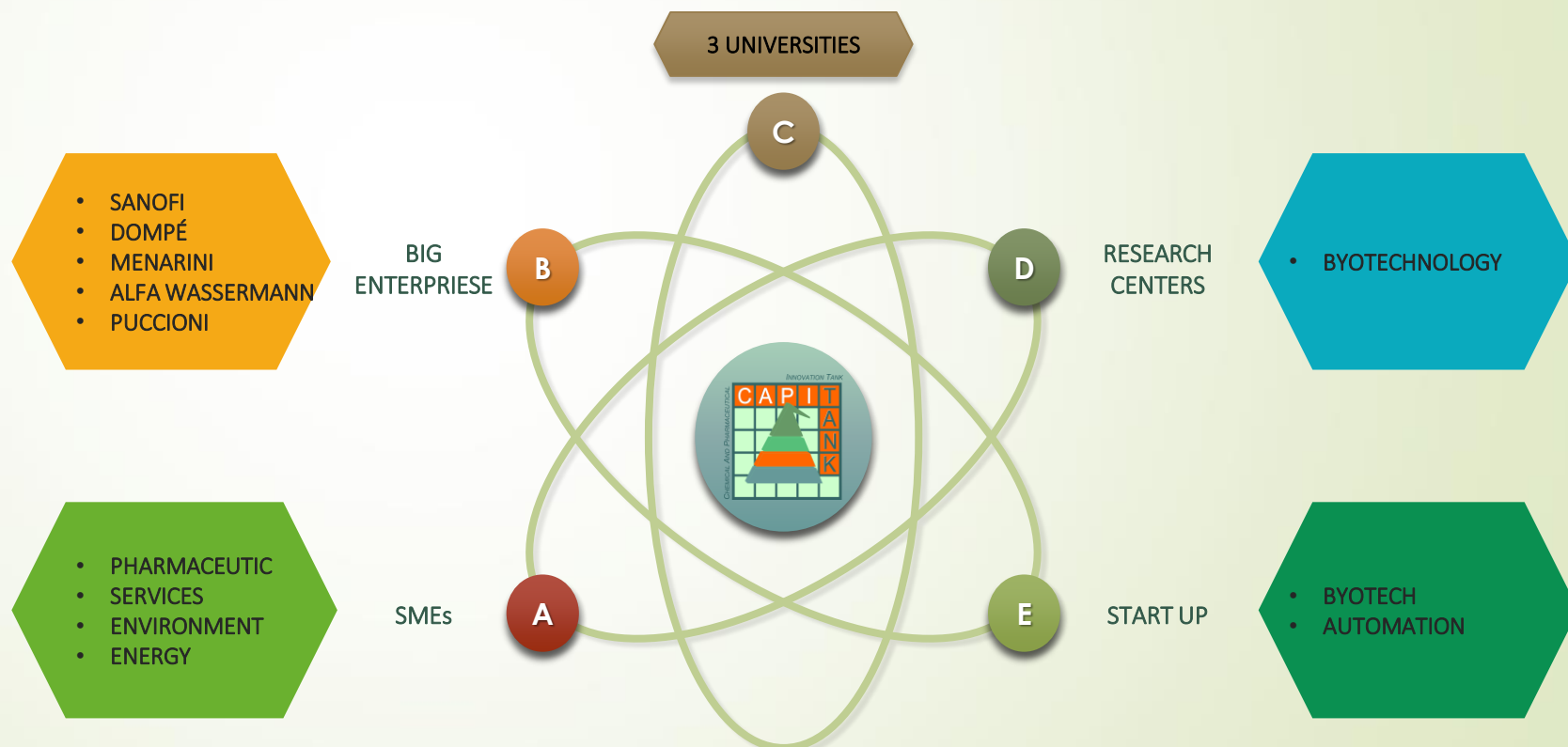


Capitank Consortium

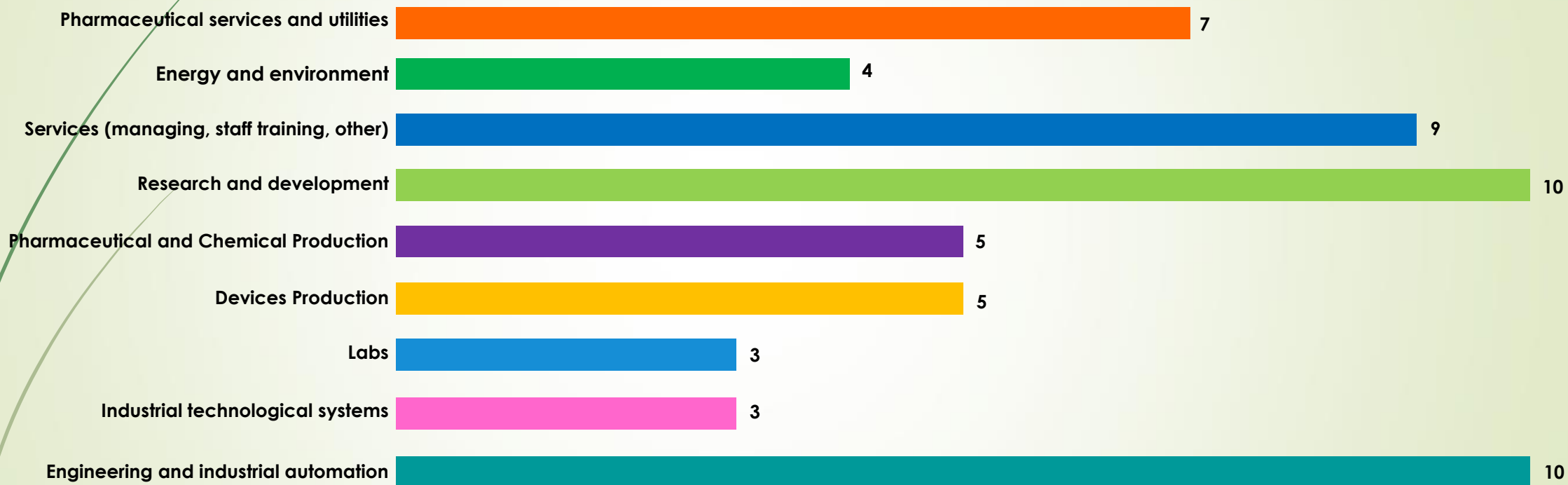
56

ORGANIZATIONS

- Capitank is a consortium created in 2012 and consists of 56 organizations of the pharmaceutical chemical sector



Capitank Consortium

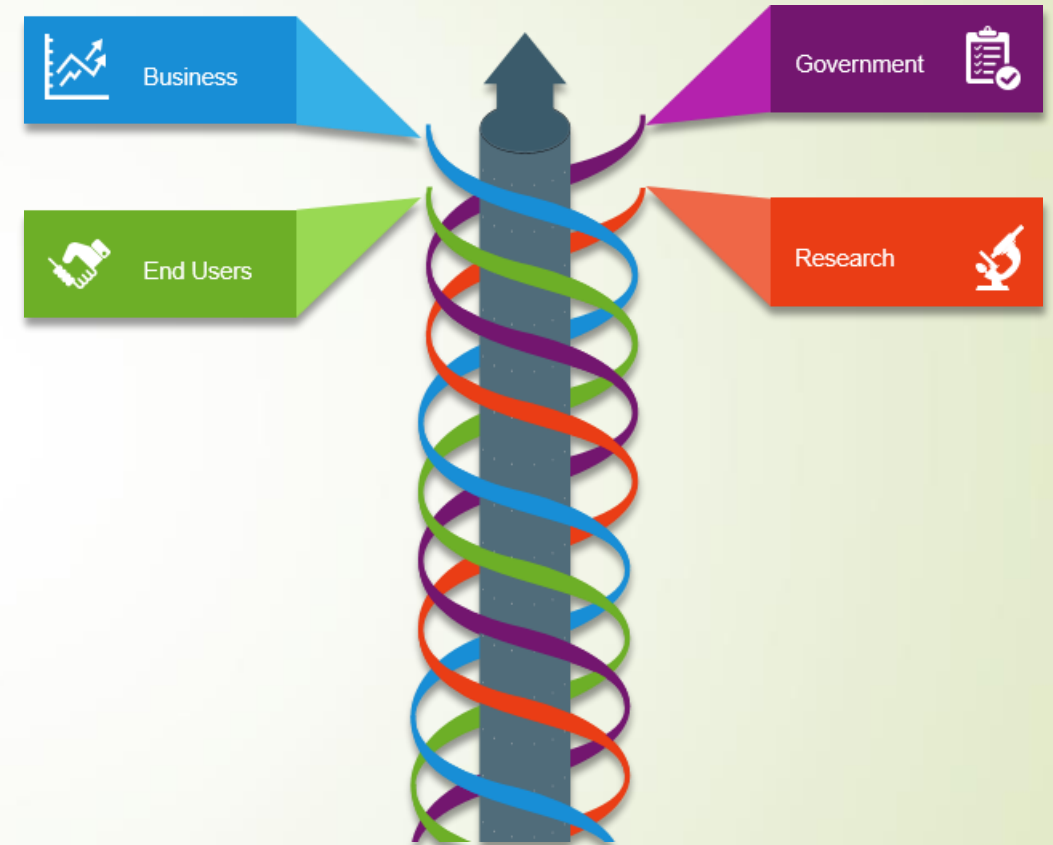


Capitank Innovation Pole

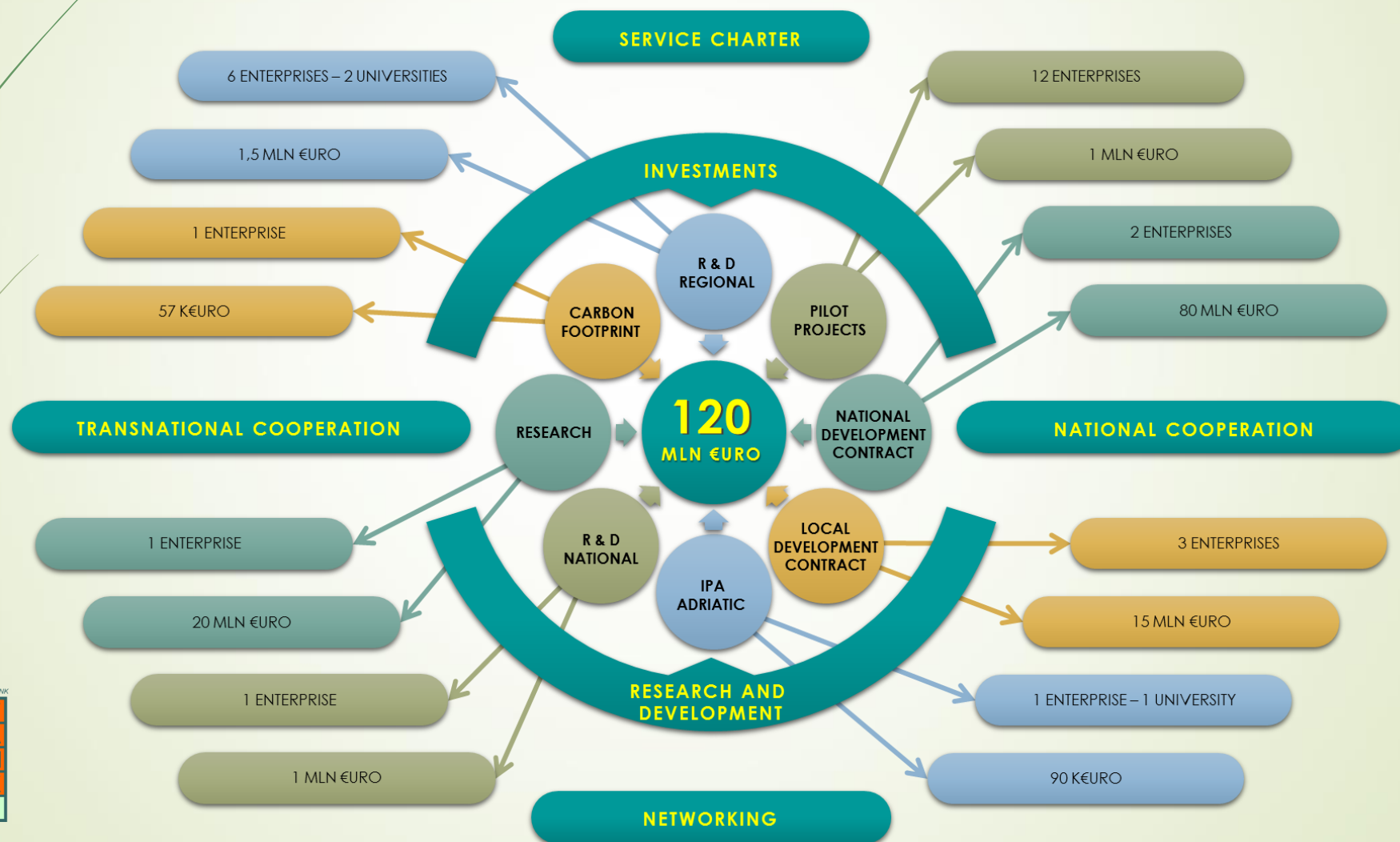
Capitank promotes:

- ▶ Technology transfer between universities, research centers and SMEs
- ▶ Innovative industrial investments
- ▶ Research and development projects
- ▶ Transnational cooperation

with the “**quadruple helix**” methodology



Investments and research projects 2012 - 2015



Strategic sectors

Personalized medicine

- ▶ Development of innovative devices, platforms, procedures and infrastructures in the diagnostic, therapeutic and of post treatment monitoring fields
- ▶ Identification of relevant biomarkers for important pathologies in terms of incidence or pathogenic mechanism on individual basis

Processes with high efficiency

- ▶ Improvement of environmental sustainability through
 - ▶ reduction of greenhouse gases (Carbon Footprint)
 - ▶ reduction of wastes produced, production of re-used wastes and with low environmental impact
- ▶ Increase the level of automation of production plants in order to ameliorate security standards for workers



Organizations and activities

Universities and Research Centers



University of L'Aquila

Industrial engineering, chemical engineering, medical sciences, biotechnology sciences



University of Pescara

Pharmacological sciences, ophthalmology, aging medicine



University of Teramo

Biotechnology sciences



Istituto Zooprofilattico Sperimentale

Animal wellness and health, food safety, environment protection

Products and services

- Degree courses
- Master and professional doctorates
- Scientific research
- Applied research



Organizations and activities

Pharmaceutical big enterprises



Dompé farmaceutici

Pharmaceutical production, pharmaceutical and biotechnology research



Sanofi

Pharmaceutical production, pharmaceutical and biotechnology research



Menarini

Pharmaceutical production, pharmaceutical and biotechnology research



Alfa Wassermann

Pharmaceutical production

Products and services

- Design, engineering, building and managing pharmaceutical plants and facilities
- Research and development
- Pharmaceutical production with the highest quality standards
- Staff training

Organizations and activities

SMEs on engineering and ICT



TAIPRORA

Software development and systems integration, industrial automation and computing



Novatec

Advanced mechanical and mechatronics design service concerning products, production machinery, industrial plants



NRGSYS

Pharmaceutical system integration, component development for enterprises and hardware-software commercial systems



CTP System

GMP review, value engineering, manufacturing equipment and critical system supplier selection production

Products and services

- Design and engineering for pharmaceutical plants, facilities and systems
- Industrial automation
- Smart factories
- System integration and component development
- GMP



Organizations and activities

SMEs on systems and machinery for pharmaceutical industry

TAIM



Machinery for solid, liquid and sterile dose processing for pharmaceutical and nutritional industry

Comecer



Nuclear Medicine and Isolation Technologies products and solutions

SPH Group



Engineering, design, manufacturing of technological machinery and support

De Paolis



LAVORAZIONE ACCIAIO INOX
COSTRUZIONI MECCANICHE
SERBAMENTI IN ALLUMINIO

Design, implementation and modification of automatic and manual machinery for industries

Products and services

- Engineering for facilities and systems for pharmaceutical industries
- Mechanical engineering
- Machinery revamping and support
- Nuclear medicine solutions



Organizations and activities

SMEs on medical devices and diagnostics

Assut Europe



Surgical sutures, medical devices and biomedical systems

Liofilchem



In-Vitro diagnostics, items for clinical and industrial microbiology

Products and services

- Medical devices and diagnostics
- Microbiology
- Research and development



Organizations and activities

SMEs on chemicals, biomaterials and environment

BME



Development of processes and products in the field of biomaterials and environmental technologies

Greenlab Group



Physic-chemical and microbiological analysis for environmental protection, health protection and food hygiene protection

Galeno



Analysis chemical, physical and microbiological relevant for industry and the applied research

CSA



Environment and safety

Products and services

- Biomaterials
- Physic-chemical-microbiological analysis
- Health and environment protection



Organizations and activities

SMEs on services for competitiveness and innovation



Metron

Management of innovation processes, actions for sustainable growth, life cycle assessment, management of transnational cooperation and internationalization



Sinergie Education

Staff educational training and business organization



Ideeprogetti

Staff and business organization



Si&T

Quality systems, software solutions and business innovation

Products and services

- Management of innovation processes
- Quality systems
- Research and development
- Staff training
- International cooperation
- Life cycle assessment



Proposal of collaboration Capitank - TECOM

a. Industria 4,0

- Consulting on "**quadruple helix**" methodology: **Business, Government, Research, End-user in pharma sector**

b. Consulting: production with low CO₂ emission in pharma sector

c. High executive training with Universities and Research Centers

- Biotech
- Health care & Safety for uman
- Veterinary biotech

d. Export to Dubai of Capitank Model

e. Services & Products on pharma sector

f. Pharma industries in Dubai



Proposal of collaboration Capitank - TECOM

1. The proposal collaboration that Capitank consortium would like to propose to TECOM :
Introduce to Tecom the existing cooperation model and exporting to Dubai the same Capitank structure model .
Moreover provide individual services that Capitank can offer such as high university education , pharma products , supply chain services .
2. The contribution offered by Capitank is generally inherent in its own activities and is both operational (pharmaceutical industries , higher education , counseling etc etc) and strategic : to propose a supply chain cooperation model .
3. The contribution that we are expecting from Tecom is to create a high level network between Dubai authotiries and the local market
4. The advantages that Capitank can offer to Tecom are setting up in Dubai our pharmaceutical companies or our supply chain.





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