



STAR
AgroEnergy

*Scientific & Technological Advancement
in Research on Agro-Energy*



Università di Foggia



HR EXCELLENCE IN RESEARCH



Unlocking and Developing Research Potentials: The STAR*AgroEnergy Experience

Prof. Massimo Monteleone

STAR*Integrated Research Unit

Department of Agriculture, Food and Environment,
University of Foggia, Italy

STAR
AgroEnergy

*Scientific & Technological Advancement
in Research on Agro-Energy*



Scientific & Technological Advancement in Research on Agro-Energy

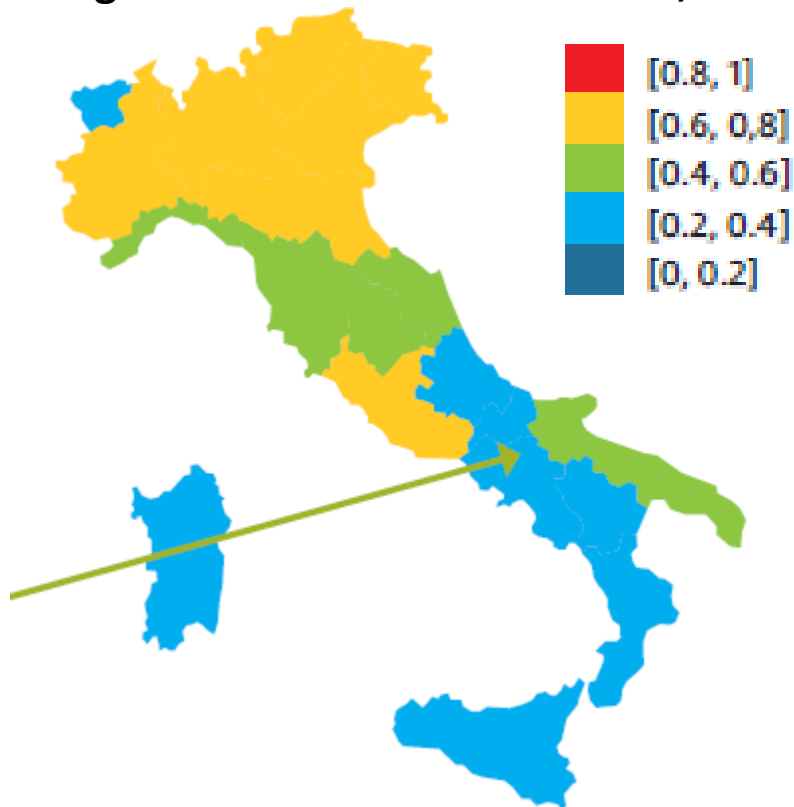
**an Integrated Approach to Renewable Energy Generation
According to Sustainability Criteria**

**Coordination and Support Action (Supporting)
FP7-REGPOT-2011-1**

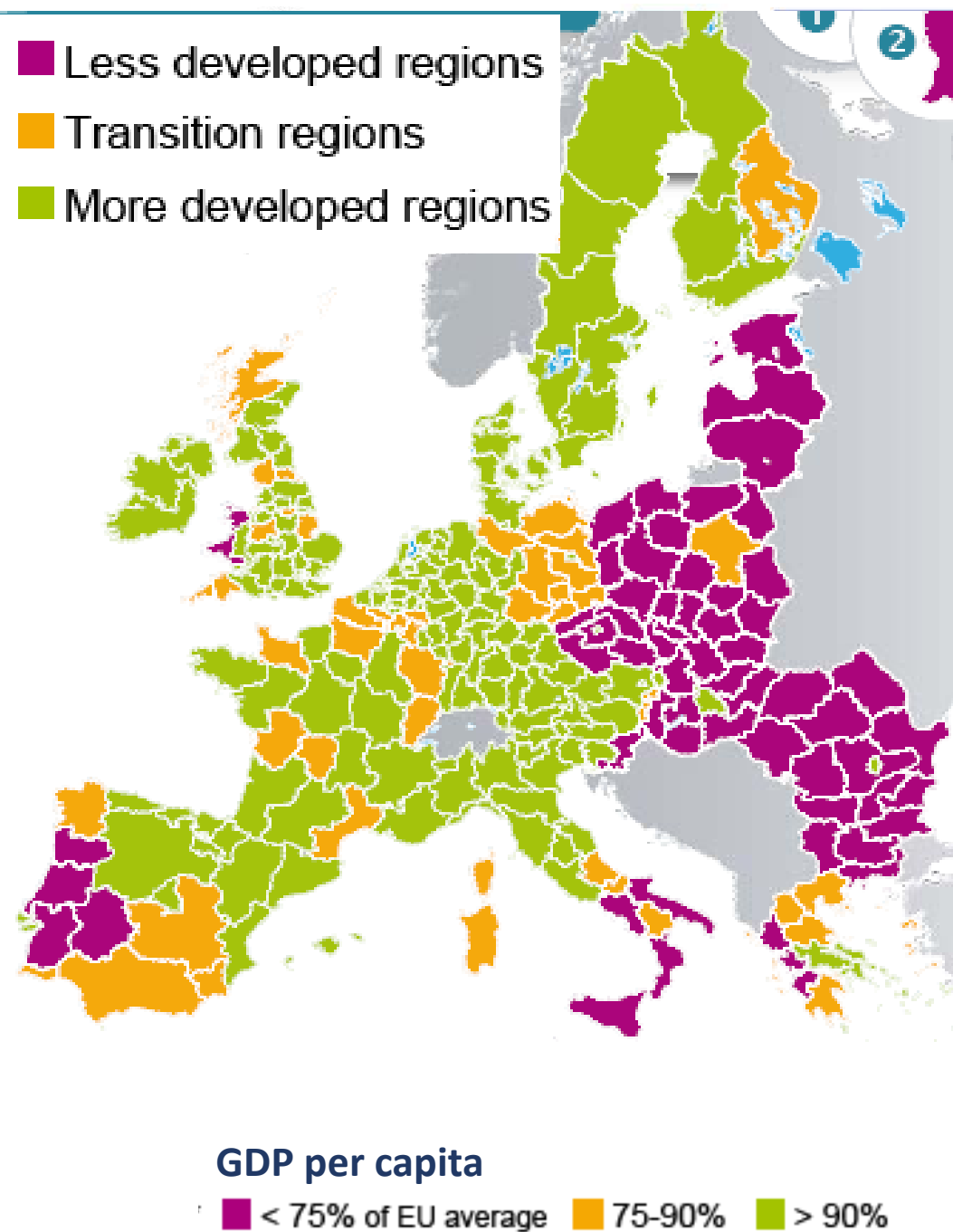
STAR AgroEnergy

Scientific & Technological Advancement
in Research on Agro-Energy

Regional Innovation Scoreboard, 2012



- Less developed regions
- Transition regions
- More developed regions





STAR AgroEnergy

Scientific & Technological Advancement
in Research on Agro-Energy

Targets to Improve Research Potentials

- Unlocking and developing the research capacity of excellent research entities
- Exploiting innovation potential, particularly in less advanced regions that are not in the European core of research and industrial development
- Improving human resources, research management, scientific equipment
- Promoting a strategy of inclusiveness to benefit both research community and industry
- Fostering a better integration into the ERA (partnership with excellent research groups and relevant stakeholders) and a stronger participation to EU research calls
- Increasing the contribution to the regional economic & social development thanks to a well developed innovation dimension



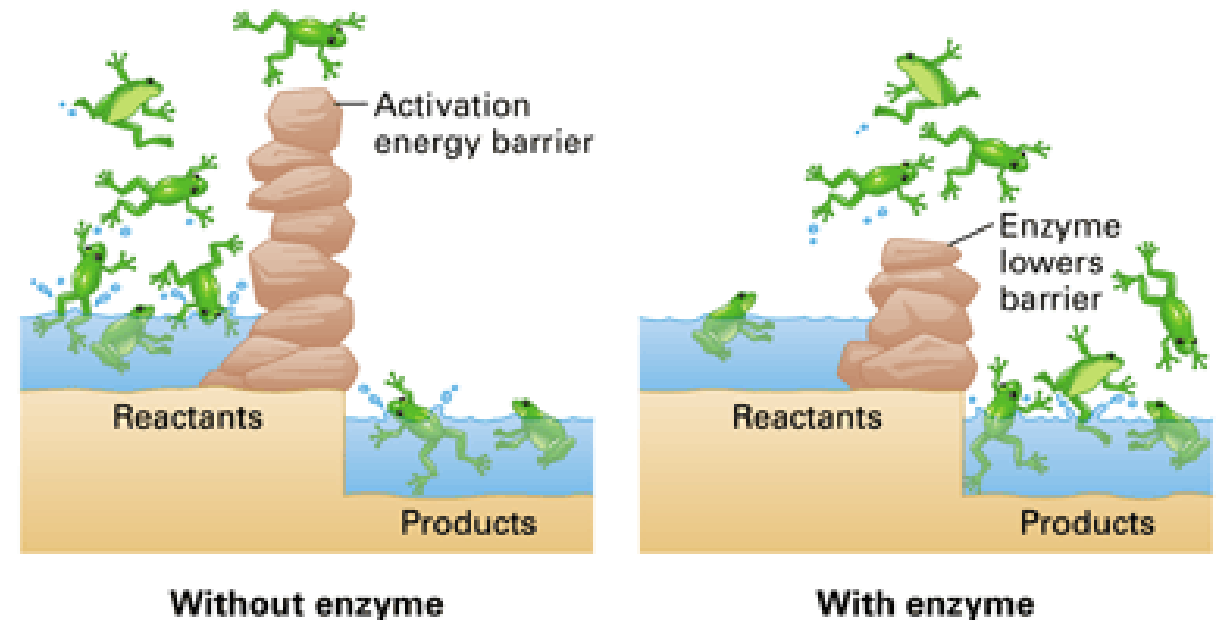
STAR AgroEnergy

Scientific & Technological Advancement
in Research on Agro-Energy

The activation energy barrier is like a wall between two parts of a pond. If the wall is lowered, more frogs have enough energy to reach the other side

REGPOT programme is acting like a catalyst:

- It reduces the barrier of the activation process
- It speeds up the process





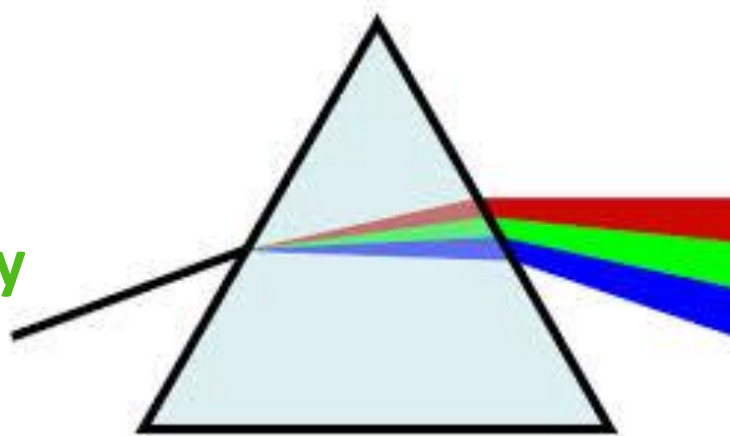
STAR AgroEnergy

Scientific & Technological Advancement
in Research on Agro-Energy

REGPOT programme is acting
like a light diffractor

From one single light beam ... a wide “spectrum” of objectives

STAR* AgroEnergy
EU FP7 Project



- ✓ Research Capacity
- ✓ Technology Transfer & Innovation
- ✓ Entrepreneurship and Job Creation
- ✓ Social & Economic Development



STAR AgroEnergy

Scientific & Technological Advancement
in Research on Agro-Energy

REGPOT programme is acting
like a chain reaction

- A positive “domino effect”
- An amplification effect





STAR AgroEnergy

Scientific & Technological Advancement
in Research on Agro-Energy

Research & Innovation System





STAR AgroEnergy

Scientific & Technological Advancement
in Research on Agro-Energy

Strategic approach to unlock research capacity

1

Bonding *“research integration”*

Gain stronger ties in multi-disciplinary collaborations within the team in order to exchange ideas and get an innovative approach.

Improve and qualify management activities to reach a better organization

2

Bridging *“consolidate a critical mass of researchers”*

New relations among researchers from different EU countries through mobility, recruitment, international collaborations to establish a solid and skilled research network

3

Linking *“institutional partnerships”*

Activate formal agreement with public and private entities, organizations and enterprises, in order to generate an impact on research, enhance quantity and quality of dissemination



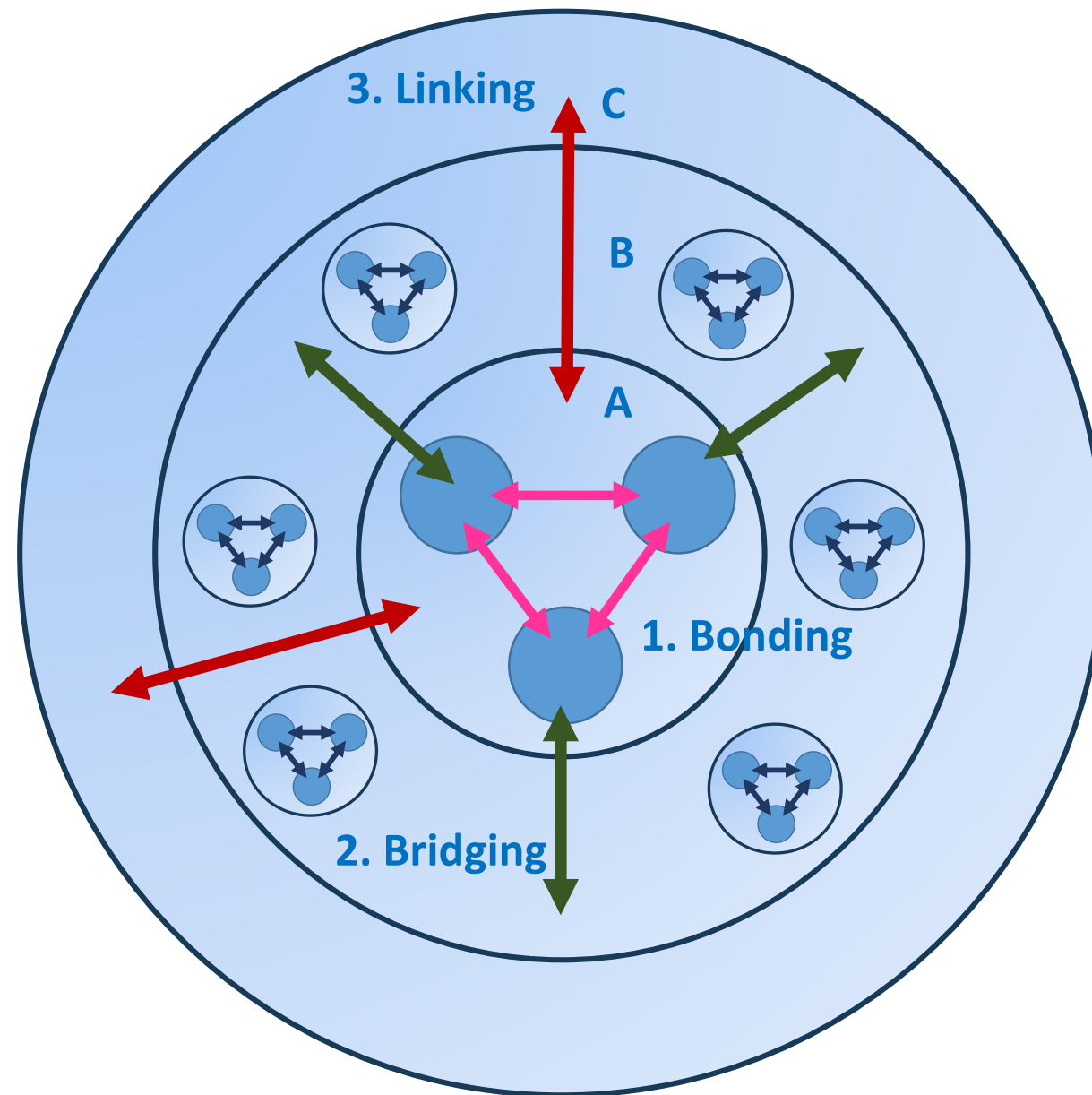
STAR AgroEnergy

Scientific & Technological Advancement
in Research on Agro-Energy

Strategic approach to unlock research capacity



- A = Integrated Research Unit
- B = Allied Research Institutions
- C = Society and Economy





STAR AgroEnergy

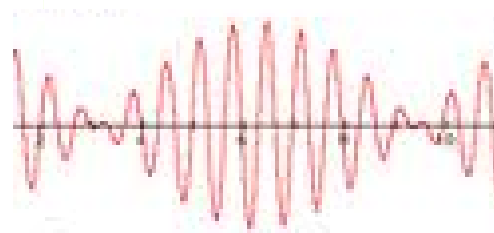
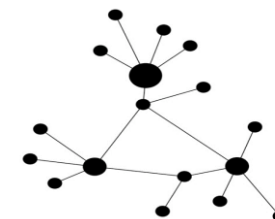
Scientific & Technological Advancement
in Research on Agro-Energy

A new mindset to unlock research capacity



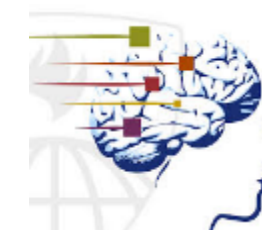
“Be connected” - establish a dense and effective collaboration network

“Work as a hub” - boost the research capacity by intensifying knowledge exchanges in both directions (from science to society and vice versa)



“Be tuned” - address your research considering the most urgent, needed and felt topics in your research field

“Approach systemically” - think globally, recognize the general pattern of every question, go beyond specialization, understand the general context



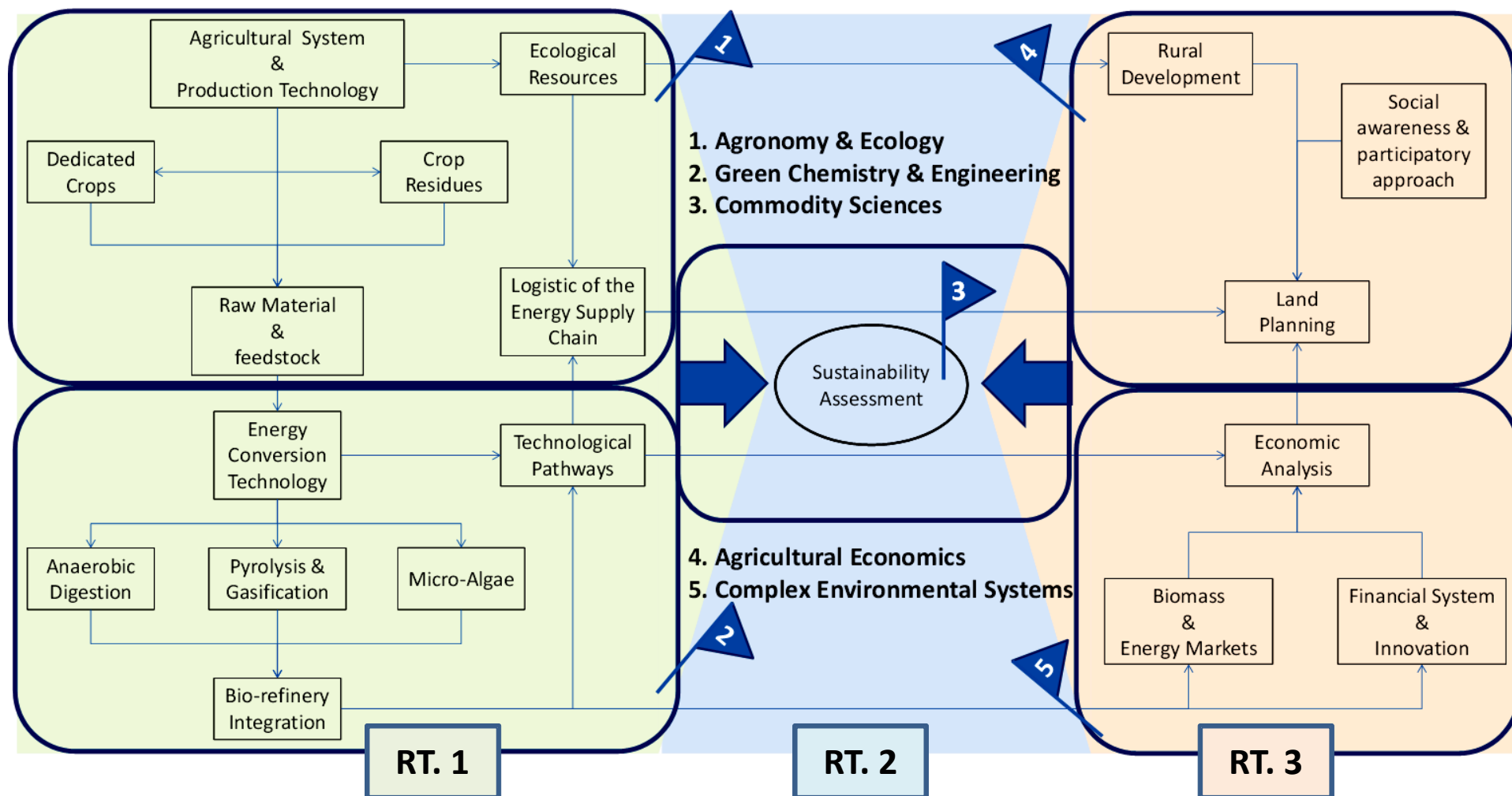
“Be adaptive” - be responsive, be able to dynamically reorient the development strategy according to external inputs and a changing context



STAR AgroEnergy

Scientific & Technological Advancement
in Research on Agro-Energy

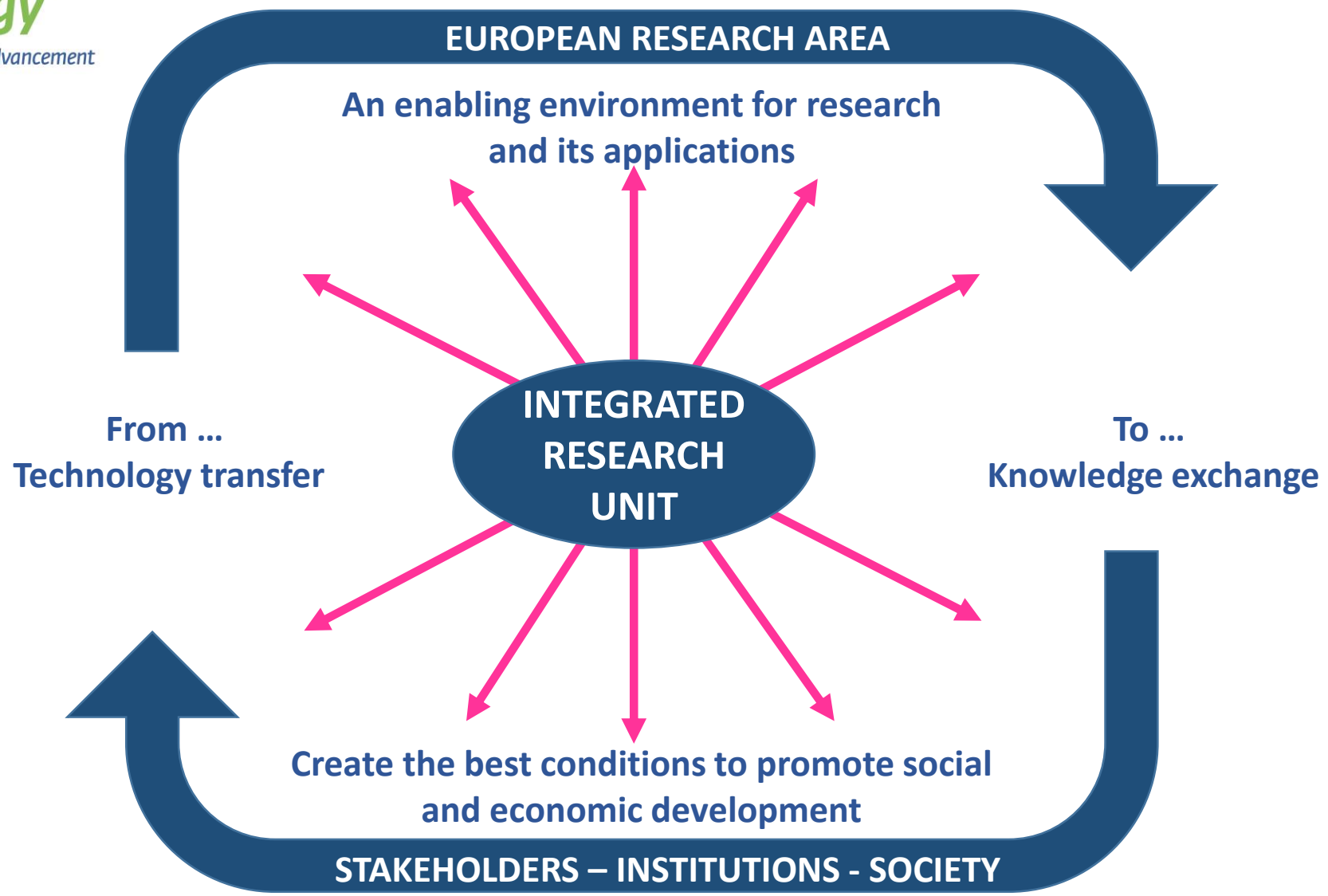
Conceptual map of the research topics and research teams





STAR AgroEnergy

Scientific & Technological Advancement
in Research on Agro-Energy





STAR AgroEnergy

Scientific & Technological Advancement
in Research on Agro-Energy

Strategic approach to unlock research capacity

Establish a high level of
integration between the two
main drivers of scientific and
technological innovations:

- Research community
- Local stakeholders

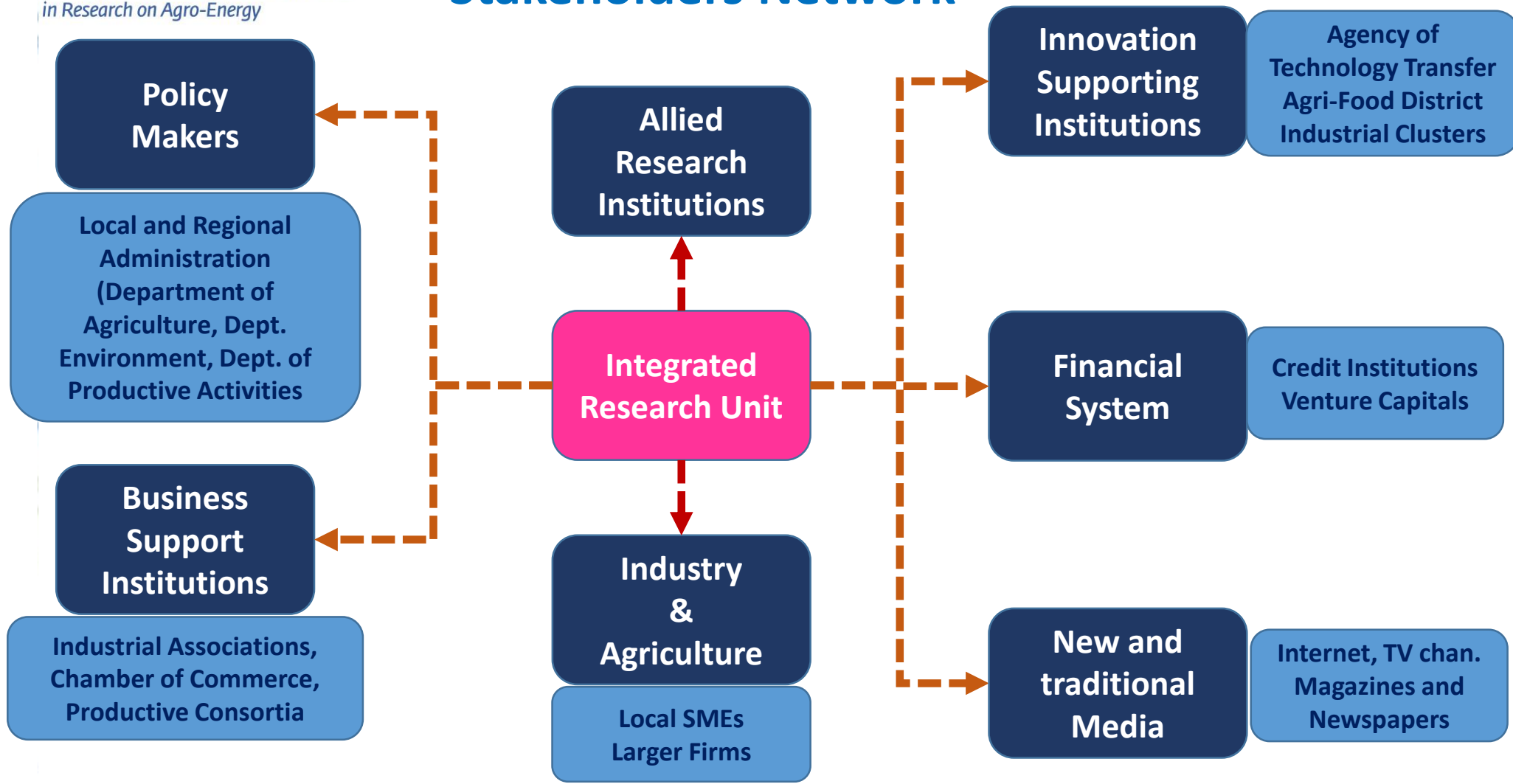




STAR AgroEnergy

Scientific & Technological Advancement
in Research on Agro-Energy

Stakeholders Network

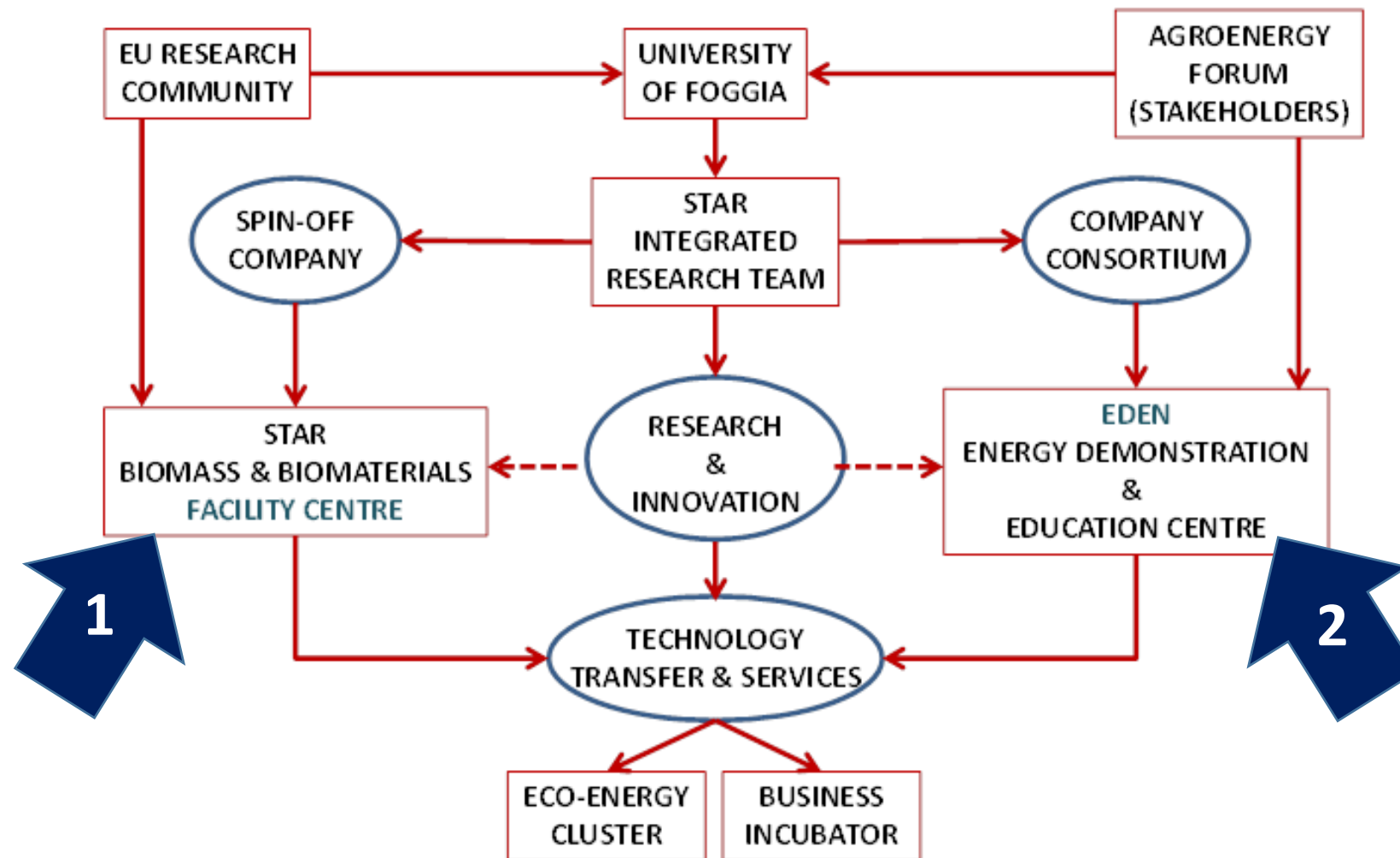




STAR AgroEnergy

Scientific & Technological Advancement
in Research on Agro-Energy

Implementation of know-how into business



STAR Facility Centre

For a brighter green
Learn from nature, create innovation

STAR*Facility Centre – It comprehends a cutting-edge lab-equipment, integrated pilot plants and a multidisciplinary research staff. The Centre is able to extend its services from research to technology innovation and industrial development according to concepts close to “biorefinery”



The STAR*Lab



STAR Facility Centre

For a brighter green

Learn from nature, create innovation

STAR*Facility Centre – It comprehends a cutting-edge lab-equipment, integrated pilot plants and a multidisciplinary research staff. The Centre is able to extend its services from research to technology innovation and industrial development according to concepts close to “biorefinery”



The STAR*TechnoPlatform





EDEN Consortium - It is an exhibition open space to learn how small energy plants really work. The aim is to demonstrate that a distributed energy generation system is really possible. This Center is functioning as a front office for companies, local communities and families, to meet technical experts that can provide advices and appropriate consulting



EDEN Energy Demonstration and Education Network

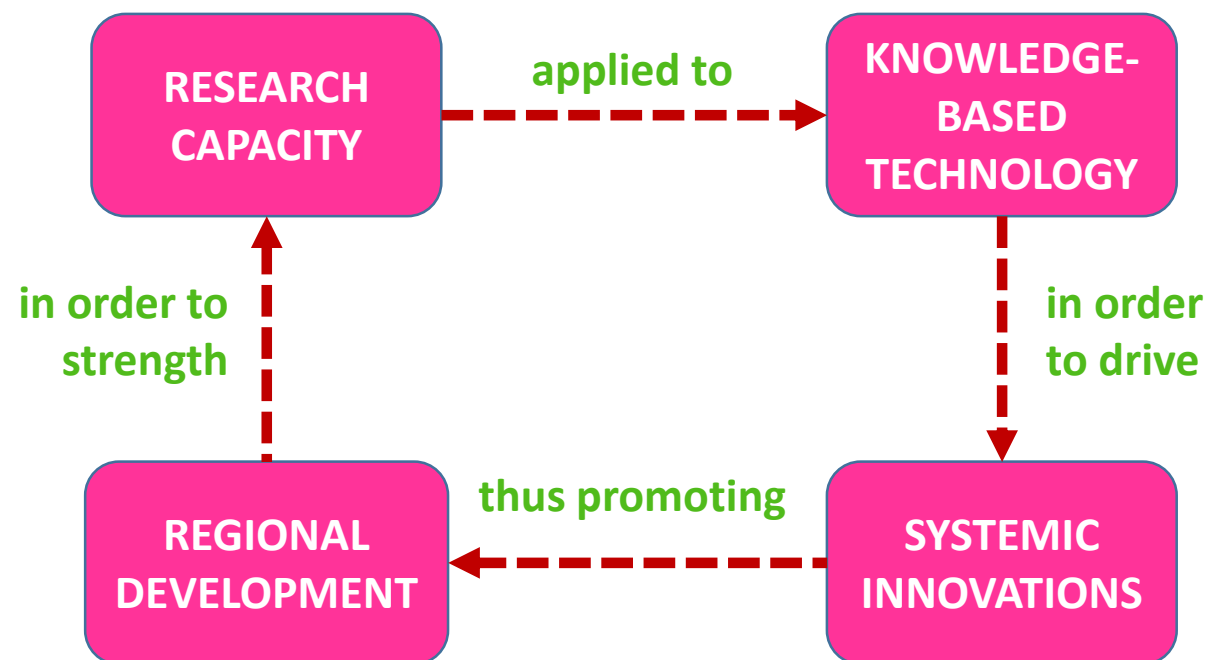




STAR AgroEnergy

Scientific & Technological Advancement
in Research on Agro-Energy

Implementation of know-how into business



A positive loop promoting social development at regional level can be triggered by strengthening the research capacity applied to the several productive sectors that are related to the bio-based economy



STAR AgroEnergy

Scientific & Technological Advancement
in Research on Agro-Energy

**STAR* Integrated Research
Unit**

University of Foggia

www.star-agroenergy.eu

star.7fp@gmail.com

tel. +39.0881.338422 - 423

STAR* Facility Centre

S.S. 16 (Foggia-Bari) km 684,3

Zona Industriale Foggia

tel. +39.0881.680195

Coordinator:

Prof. Massimo Monteleone



HR EXCELLENCE IN RESEARCH

