



Slovenian  
Presidency  
20-21

# 6<sup>th</sup> Forum

of the EU Strategy for the Adriatic and Ionian Region  
**Along the coasts of the shared sea**  
Izola, 11-12 May 2021



## OISAIR- Pilot of Macro regional S3

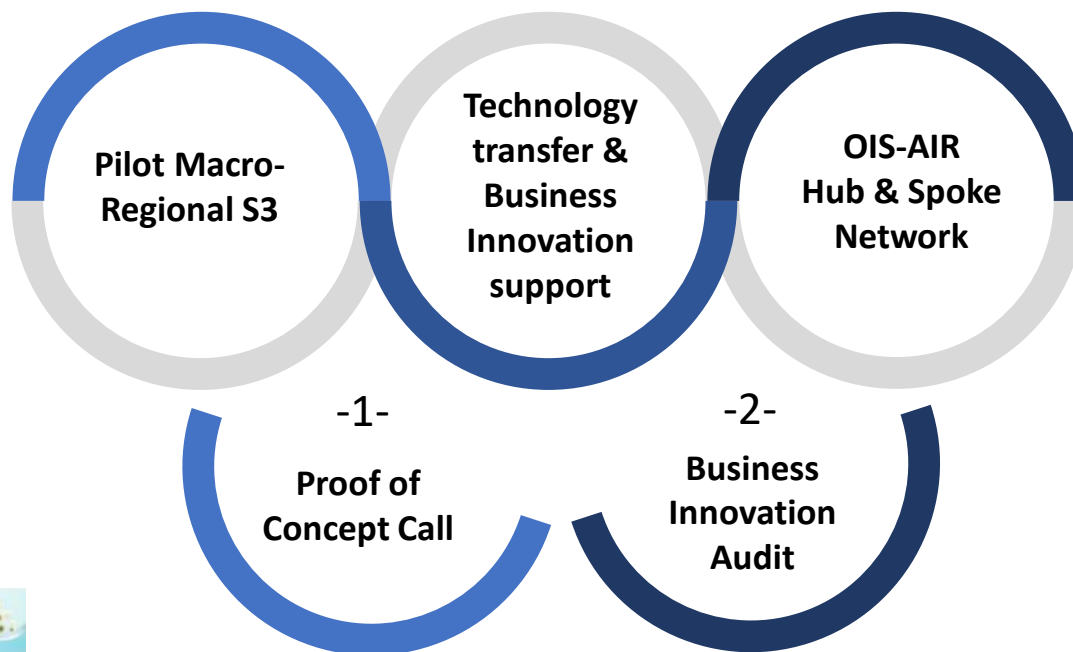
Linking innovation and aligning regional diversity through S3 tools

# OISAIR: main pillars and activities



**MACRO  
REGIONAL  
S3 AIR**

- Action Plan for the Pilot macro-regional S3
- Roundtables & meetings with policy makers



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- OISAIR platform
- OISAIR Network
- Innovation Centers



# OISAIR: GVC and local trade

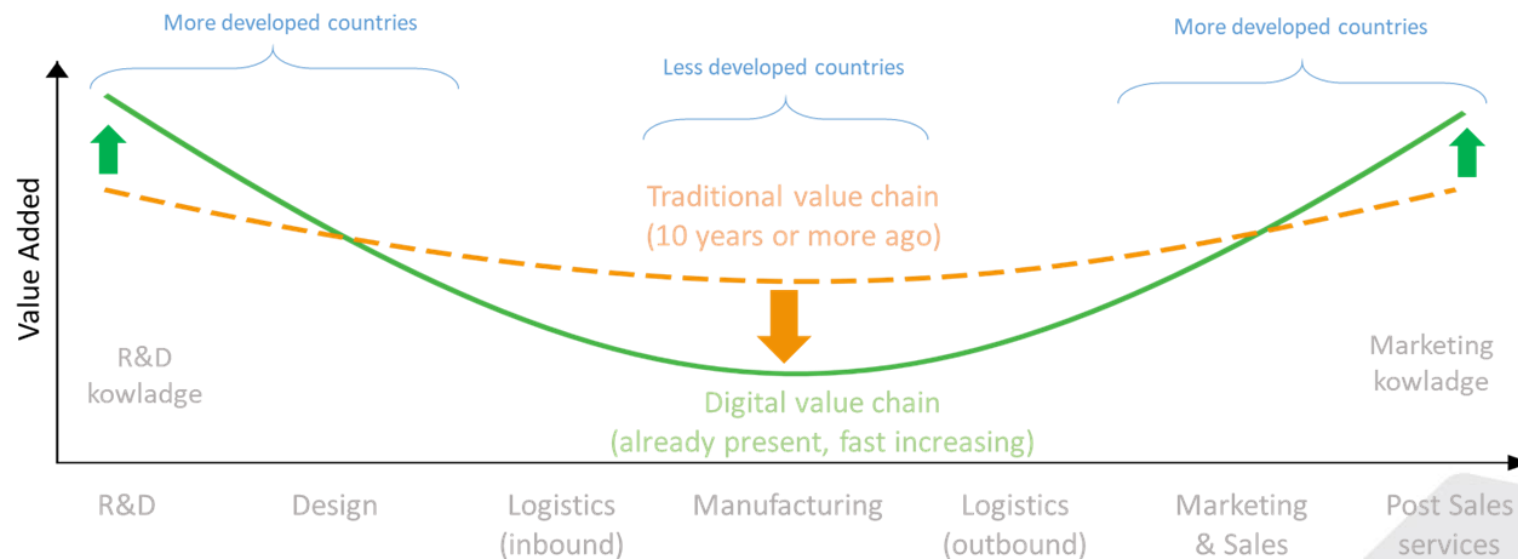
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## GVC Participation

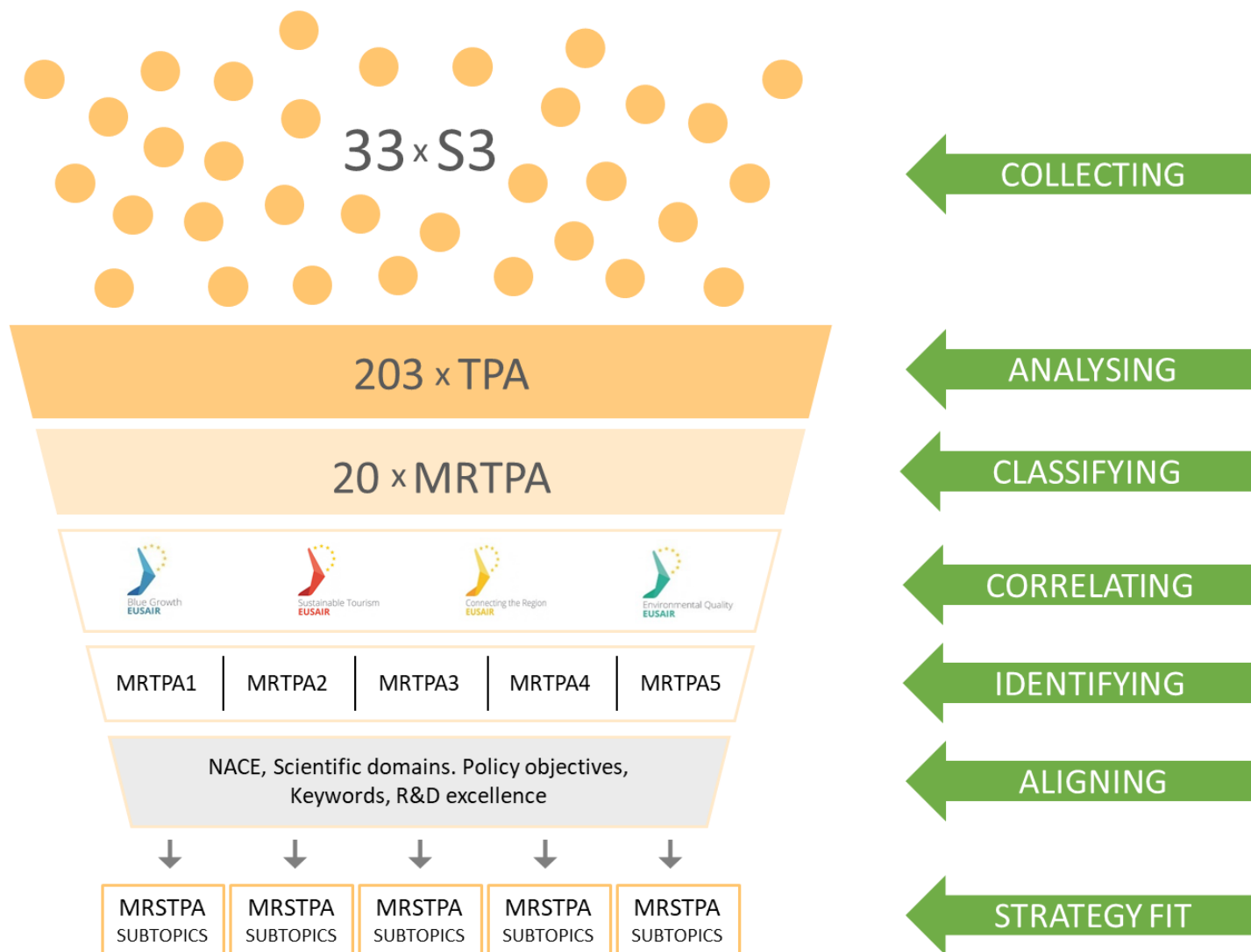


Country	GVC participation (share of gross export)	Share of export to ADRION region in total export	Forward participation (exporting to export)	Backward participation (importing to export)	GDP per capita (current US dollars)
Italy	81%	2%	38%	43%	32,748.61
Slovenia	77%	28%	32%	40%	21,296.41
Greece	33%	15%	14%	19%	18,198.00
Croatia	30%	41%	16%	14%	13,176.53
Bosnia and Herzegovina	24%	45%	16%	8%	5,180.78
Albania	17%	70%	9%	8%	4,450.01
Montenegro	13%	43%	3%	10%	7,702.57
Serbia*	1%	35%	0%	1%	5,912.08

## Traditional Trade flow in ADRION region



# MRS3: methodology based on S3



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## Simplified concept of MRS3 methodology

How we organize more than 200 regional priorities into 5 thematic sub priority thematic areas and 16 subtopics.

**TPA**  
*Thematic Priority Area*

**MRTPA**  
*Macro-Regional Thematic Priority Area*

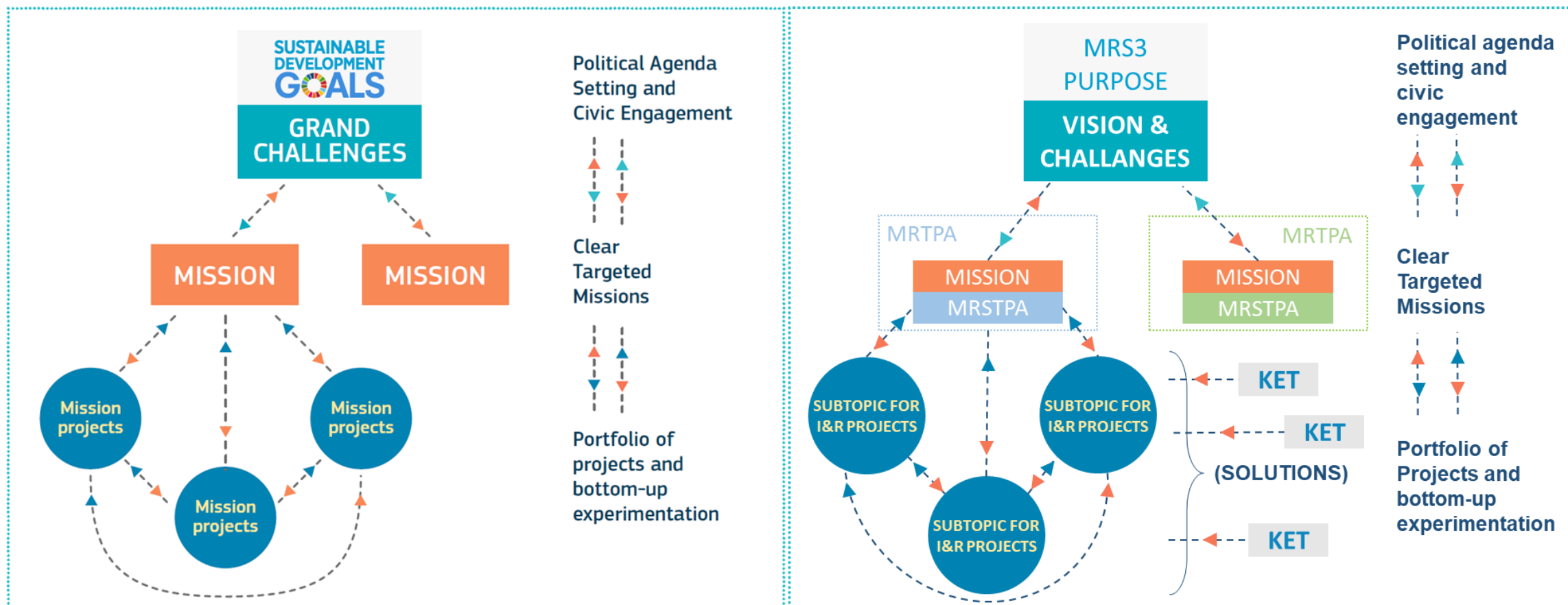
**MRSTPA**  
*Macro-Regional Sub Thematic Priority Area*

# Mission: understanding the challenge

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Connecting challenges, missions and projects...

...or MRS3, MRSTPA, their goals and associated subtopics



Source: Mazzucato, M. (2018), MISSIONS: Mission-Oriented Research & Innovation in the European Union: A problem-solving approach to fuel innovation-led growth

Source: Author (based on Mazzucato, M)



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## Agro Bio Economy



## Energy and Environment



## Transport and Mobility



## Tourism and Culture



## Health and Medicine



## Example: Healthy and functional food

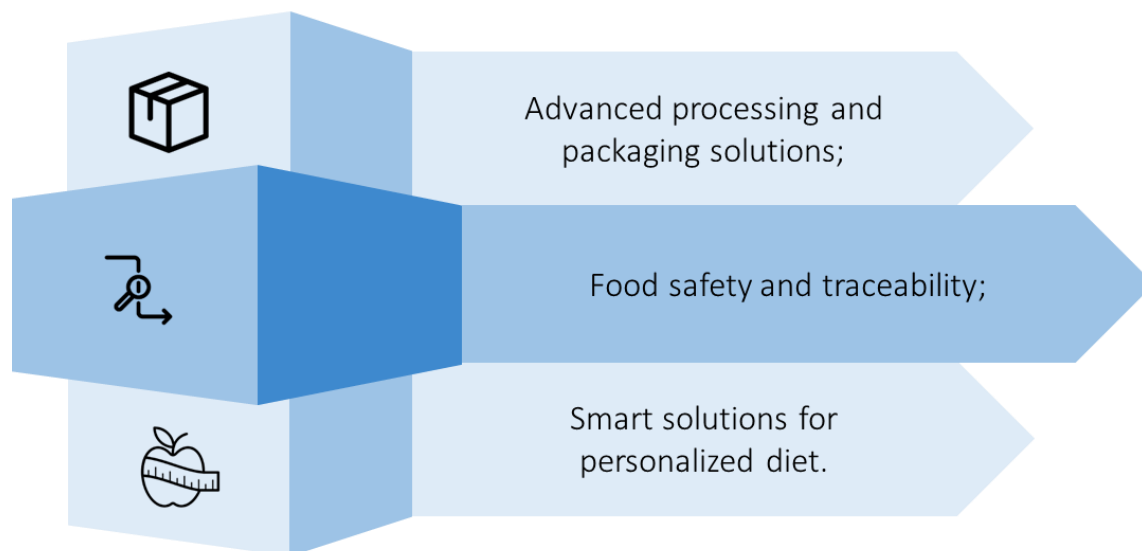
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### Mission

Fresh and safe Mediterranean diet delivered from its source

### Goal

Creating and securing sustainable value chain based on regional fresh seafood marketed for healthier lifestyle.



### Subtopic

Key to maintain food security, quality and perishability;

Important factor for public health;

Enabling personalized solutions , higher quality and affordable monitoring.

### Outcome

# 10 awarded projects (6 from Agrobio)

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**Beneficiary:** SISSA, ITALY  
**Industrial partner:** LBABio, SLOVENIA  
**Sector:** Agro Bioeconomy  
**Project:** IN SILICO DESIGN OF PEPTIDE-BASED BIOSENSORS



**Beneficiary:** Faculty of Biology University of Belgrade, SERBIA  
**Industrial partner:** Gibob S.R.L., Milano, ITALY  
**Sector:** Agro Bioeconomy  
**Project:** DEVELOPMENT OF NEW GENERATION OF BIOLOGICAL CONTROL AGENTS AND BIOFERTILIZERS FOR SUSTAINABLE AGRICULTURE



**Beneficiary:** University of Padua, Department of Industrial Engineering, ITALY  
**Industrial partner:** RPG Katica Rajkovic, SERBIA  
**Sector:** Agro Bioeconomy  
**Project:** IMPROVING THE FOOD SAFETY AND SHELF LIFE BY THE HIGH PRESSURE CO<sub>2</sub>



**Beneficiary:** University of Padova, Department of Comparative Biomedicine and Food Science (BCA), ITALY  
**Industrial partner:** Blupesca SRL, Venezia ITALY & ITPhotonics srl, Vicenza ITALY  
**Sector:** Agro Bioeconomy  
**Project:** DEVICE FOR THE ONLINE EVALUATION OF SHELF LIFE, AUTHENTICITY AND QUALITY OF SEAFOOD PRODUCTS - SeaQual



**Beneficiary:** University of Maribor, Faculty of Electrical Engineering and Computer Science, SLOVENIA  
**Industrial partner:** NEONART d.o.o, Maribor, SLOVENIA  
**Sector:** Energy and Environment  
**Project:** DEVELOPMENT OF A UNIVERSAL PV POWER SYSTEM AS A POWER SUPPLY FOR ILLUMINATED ADVERTISING PYLON



**Beneficiary:** TECOS Slovenian Tool and Die Development Centre, SLOVENIA  
**Industrial partner:** FLEXIDO, fleksibilne robotske celice, d.o.o, SLOVENIA  
**Sector:** Energy and environment  
**Project:** INCREASING THE ENERGY EFFICIENCY OF INJECTION MOLDING PROCESS



**Beneficiary:** University of Parma, ITALY  
**Industrial partner:** 4e consulting s.r.l, ITALY  
**Sector:** Transport and mobility  
**Project:** HEATER-IN-CONVERTER (HIC): BRINGING HEATING CAPABILITY TO POWER CONVERTERS WITHOUT DENSITY PENALTIES - PSEUDO-COGENERATION FOR BATTERY HEATING ON ELECTRIC AND HYBRID BOATS (PSECOB2)



**Beneficiary:** University of Maribor, Faculty of Agriculture and Life Sciences, Chair of Biosystems Engineering SLOVENIA  
**Industrial partner:** Az. Agricola Giorgio Pantano ITALY  
**Sector:** Agro Bioeconomy  
**Project:** SMART CANOPY MEASURING SYSTEM FOR THE REDUCTION OF PLANT PROTECTION AGENTS USE



**Beneficiary:** University of Ljubljana, SLOVENIA  
**Industrial partner:** ComSensus, komunikacije in senzorika, d.o.o, SLOVENIA  
**Sector:** Energy and Environment  
**Project:** NOVEL UNDER-FREQUENCY RELAY SETTING FOR SECURING THE OPERATION OF ELECTRICAL GRIDS



**Beneficiary:** University of Udine, Polytechnic Department of Engineering and Architecture, ITALY  
**Industrial partner:** Bio-based Energy Technologies P.C. Thessaloniki, GREECE  
**Sector:** Agro Bioeconomy  
**Project:** SUPERCRITICAL FLUID EXTRACTION AND FRACTIONATION OF BIOACTIVE COMPOUNDS FROM WINEMAKING BY-PRODUCTS FOR HEALTHY AND FUNCTIONAL FOOD



## To be considered in design of future MRS3

### Place based – assets and resources

- *Benchmark analysis (structure of economy, relative sizes of sectors, key sectors, employment, etc.)*
- *Value chains & Trade analysis*

### Broad view of innovation – social and technological aspects

- *Patents and Intellectual property*
- *R&D topics & networks*
- *Technology foresight*
- *Mission oriented R&I policy (new)*

(done as a pilot version)

### Inclusive of stakeholders

- *Entrepreneurial Discovery process*

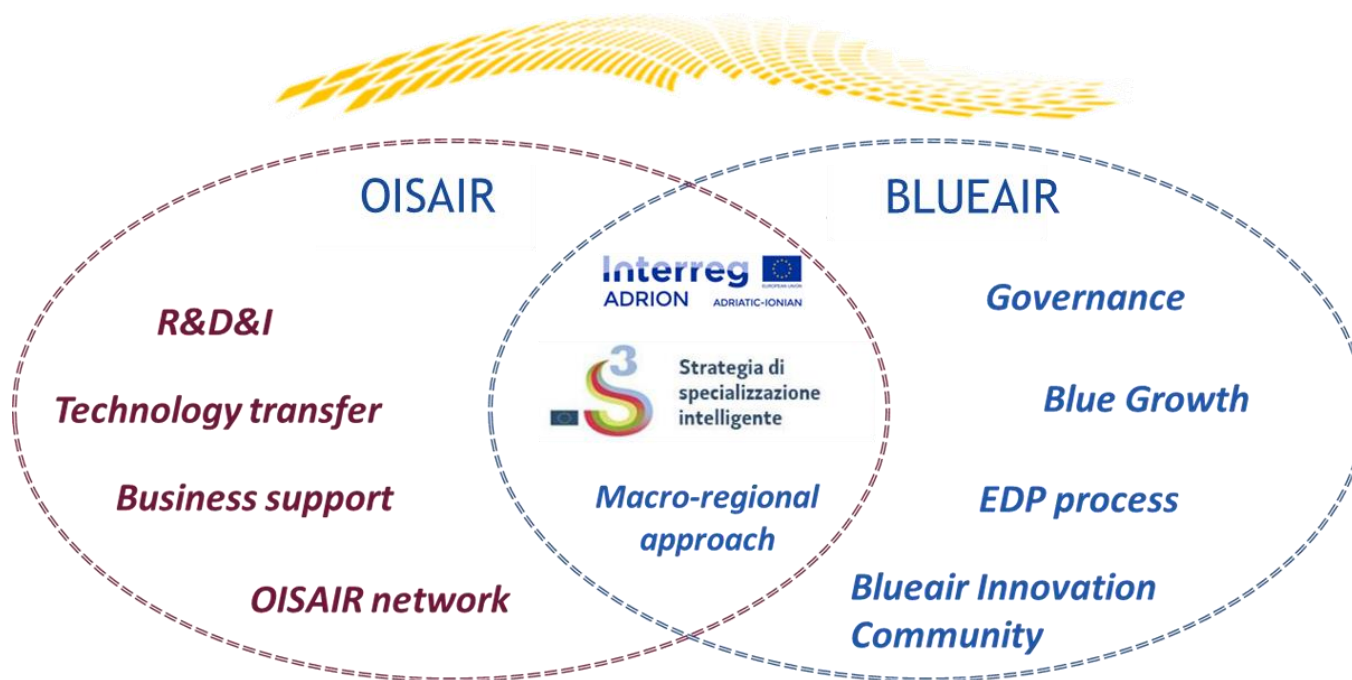
### Monitoring and Evaluation

- *Monitoring and evaluation*
- *Revision and Fine-tuning*

(to do)

## From OISAIR to BLUEAIR...

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Continuing the macro-regional approach to **foster the innovation ecosystem** by using help from S3 capacities and **mapping value chains** to find common ones that would “glue” stakeholders from the Adriatic Ionian region **on missions for transforming traditional blue sectors and build new ones.**



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