

3RD FORUM OF THE EU STRATEGY FOR THE ADRIATIC CATANIA 24-25 MAY 2018 AND IONIAN REGION

VALENTINA
PINNA

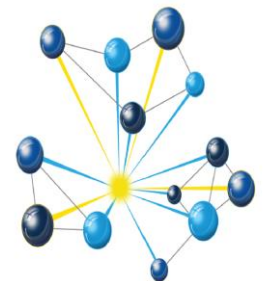
THE ROLE OF NETWORKS AS INNOVATION
SYSTEMS INTEGRATORS

*LESSONS LEARNED FROM
THE VANGUARD INITIATIVE*



OUR REGION OUR FUTURE

VIDEO



VANGUARD INITIATIVE
New growth through smart specialisation



3RD FORUM OF THE EU STRATEGY FOR THE ADRIATIC CATANIA 24-25 MAY 2018 AND IONIAN REGION



OUR REGION OUR FUTURE

What is the Vanguard Initiative? Industry based S3, Smart

- Industrial Innovation Initiative

focusing on **market uptake** of innovative technologies (KETs)

- Interregional cooperation

between **innovation ecosystems** (regional authorities, clusters, businesses, knowledge institutes)

Specialization as coordination

principle

- Exploring and **facilitating public-private investment**

- Active participation** in the **network** structure and at **pilot level**



3RD FORUM OF THE EU STRATEGY FOR THE ADRIATIC CATANIA 24-25 MAY 2018 AND IONIAN REGION



OUR REGION OUR FUTURE

Main features of the Vanguard Initiative

- Bottom-up, Industry involvement, Cluster facilitation
- Competitive EU value chains
- “Pilot initiative” for S3 Platform on Industry Modernization

- Strong political commitment at regional level and ambition to co-shape EU policy agenda (Letter to the Council, Milan Declaration)
- Multilevel governance, multi level funding synergies
- Structured dialogue with European Institutions





3RD FORUM OF THE EU STRATEGY FOR THE ADRIATIC CATANIA 24-25 MAY 2018 AND IONIAN REGION



OUR REGION OUR FUTURE

How Vanguard Works





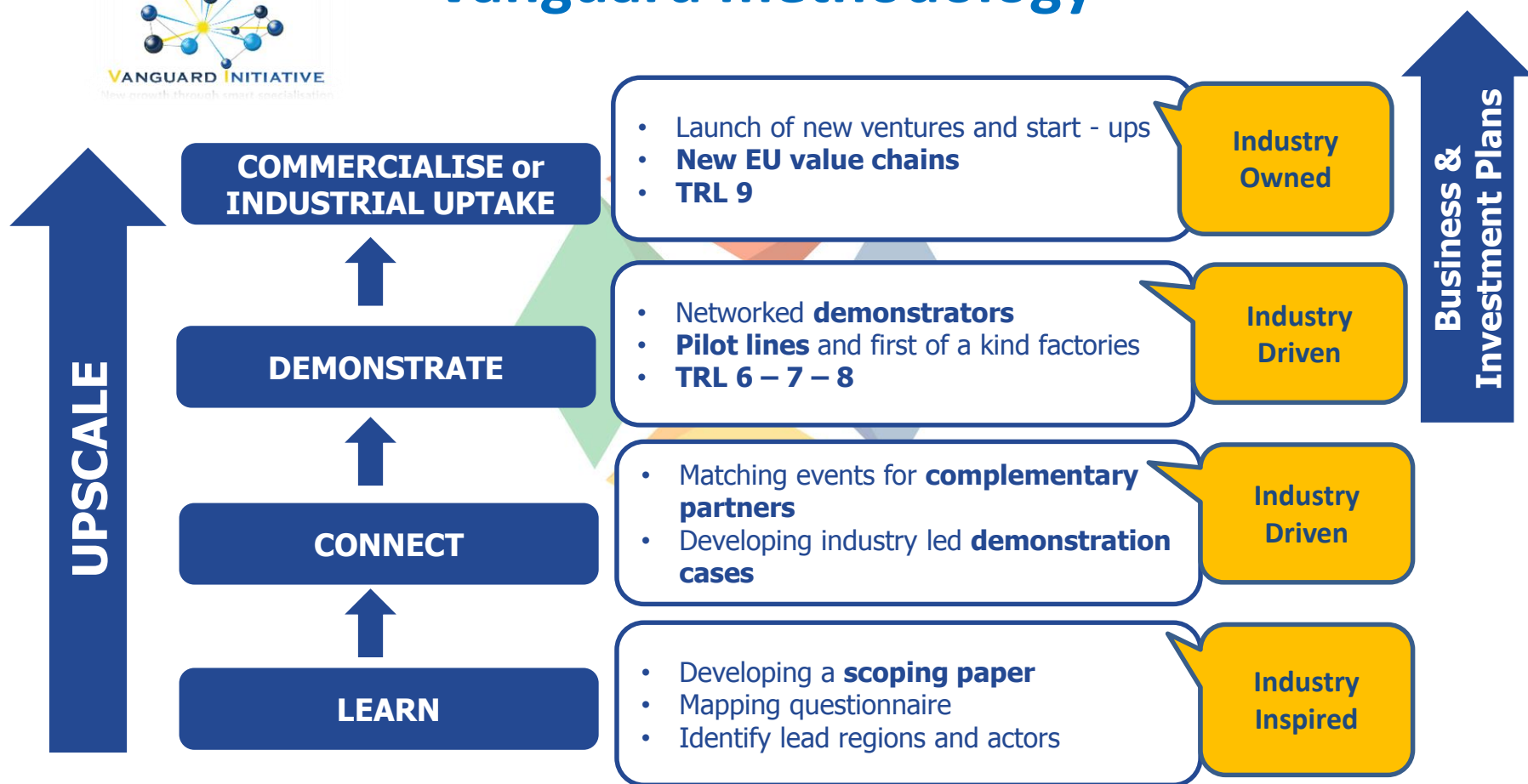
3RD FORUM OF THE EU STRATEGY FOR THE ADRIATIC CATANIA 24-25 MAY 2018 AND IONIAN REGION



OUR REGION OUR FUTURE



Vanguard methodology





3RD FORUM OF THE EU STRATEGY FOR THE ADRIATIC CATANIA 24-25 MAY 2018 AND IONIAN REGION



OUR REGION OUR FUTURE

Vanguard methodology tested in 5 thematic pilots



**Advanced
Manufacturing
for Energy
applications**



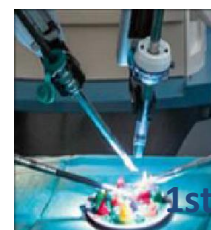
**3D
Printing**



Bioeconomy



**Efficient
&
Sustainable
Manufacturing**



1st generation

2nd generation

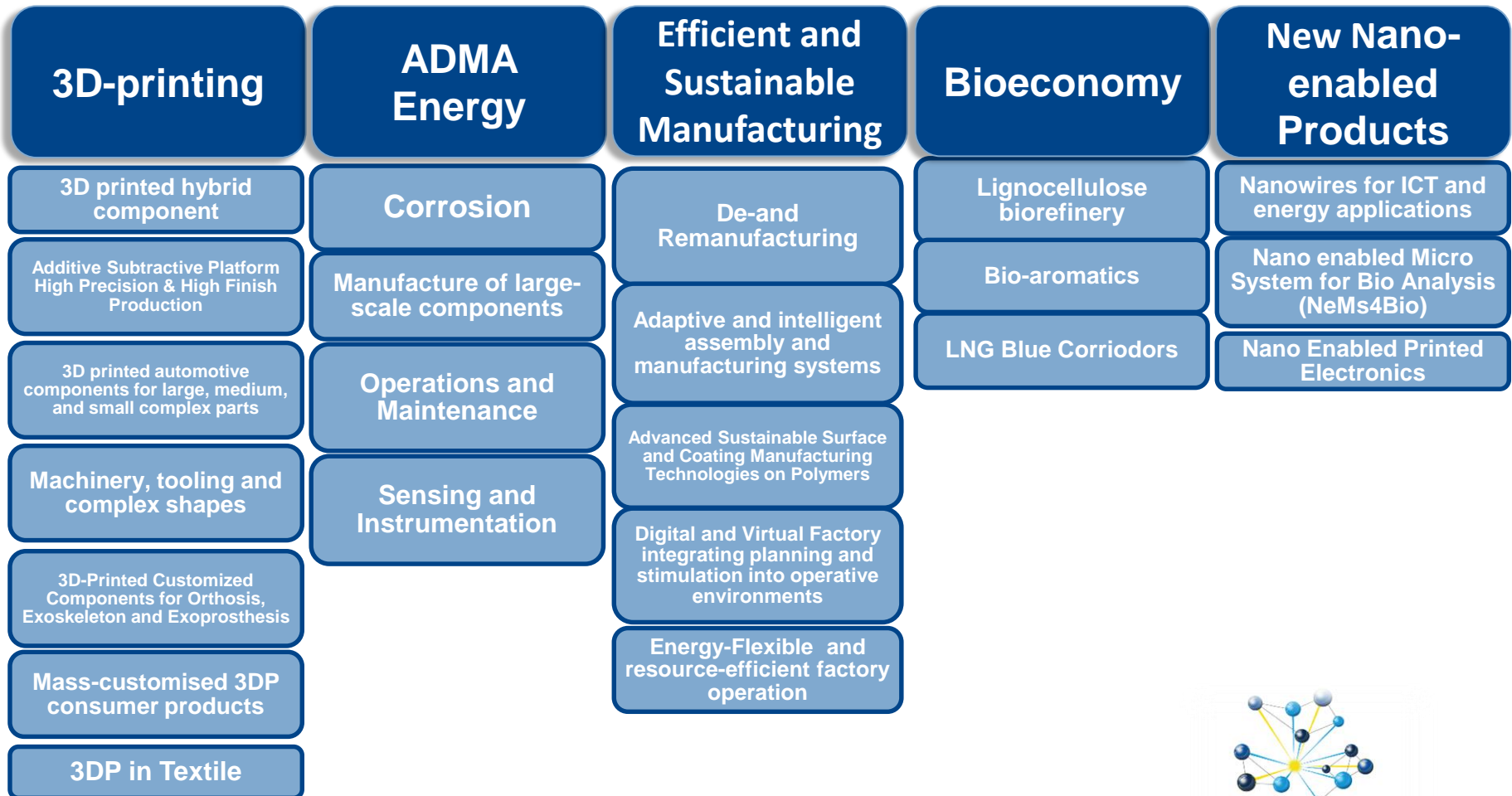
**Nano Enabled
Products**



VANGUARD INITIATIVE
New growth through smart specialisation

Challenge driven or Technology Driven pilots

5 Pilots & 30 demo cases: test bed for Thematic S3 Platform





3RD FORUM OF THE EU STRATEGY FOR THE ADRIATIC CATANIA 24-25 MAY 2018 AND IONIAN REGION



OUR REGION OUR FUTURE

Test bed: Pilots and Demo cases

Criteria for demo cases

- **Demonstration projects**, no research (>TRL 5 - post prototyping)
- **Industrial Commitment** (to lead/participate/co-invest)
- **European dimension** – need to provide an added value compared to what exists at regional level
- Added-value of **joint demonstration**





3RD FORUM OF THE EU STRATEGY FOR THE ADRIATIC CATANIA 24-25 MAY 2018 AND IONIAN REGION



OUR REGION OUR FUTURE

Each Demo Case =

- Combination of complementary demonstration facilities
- Group(s) of companies accessing infrastructure (TRL6-8)
- Industrial replication & upscale (if the above is successful) (TRL8-9)

3 types of Demo Cases

- Challenge driven or technology driven
- Connecting existing or building new demonstration infrastructure
- Connect & upgrade existing infrastructure (hybrid format)





3RD FORUM OF THE EU STRATEGY FOR THE ADRIATIC CATANIA 24-25 MAY 2018 AND IONIAN REGION



OUR REGION OUR FUTURE

Test bed: Pilots and Demo cases

- **Cooperation** between clusters, companies and knowledge institutes in specific technology field or application domain
- **Interregional joint-demonstration projects / European Network of Demonstrators**
- Building of new **industrial value chains** through a **pipeline of investments projects**
- **Accelerate market development** for high-value added **products** or uptake of innovative **processes**
- **EU global competitiveness, looking at economic and social impact and sustainability**





3RD FORUM OF THE EU STRATEGY FOR THE ADRIATIC CATANIA 24-25 MAY 2018 AND IONIAN REGION



OUR REGION OUR FUTURE

Vanguard Initiative Where are we?

Learning by
doing

LEARN

CONNECT

DEMONSTRATE

COMMERCIALISE

Monitored
by JRC and
other EC
services



ADMA Energy



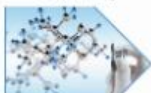
Bioeconomy



ESM



3D-printing



Nano

30 demo
cases at
different
maturity
level

Upscale

2 Demo
cases
developed
a business
plan and
started the
dialogue
with the
EIB

Signature
of MoU by
regions
involved
(on going)

Pilot and demo cases:
different level of maturity





3RD FORUM OF THE EU STRATEGY FOR THE ADRIATIC CATANIA 24-25 MAY 2018 AND IONIAN REGION



OUR REGION OUR FUTURE

Mainstreaming of Vanguard experirnce

VI methodology adopted for the launch of S3 thematic platforms

(ao DG REGIO, GROW, RTD, JRC, AGRI, CONNECT, ENER)

Migration under the umbrella of the S3 Platform on Industrial Modernisation

Structured dialogue with European Institutions



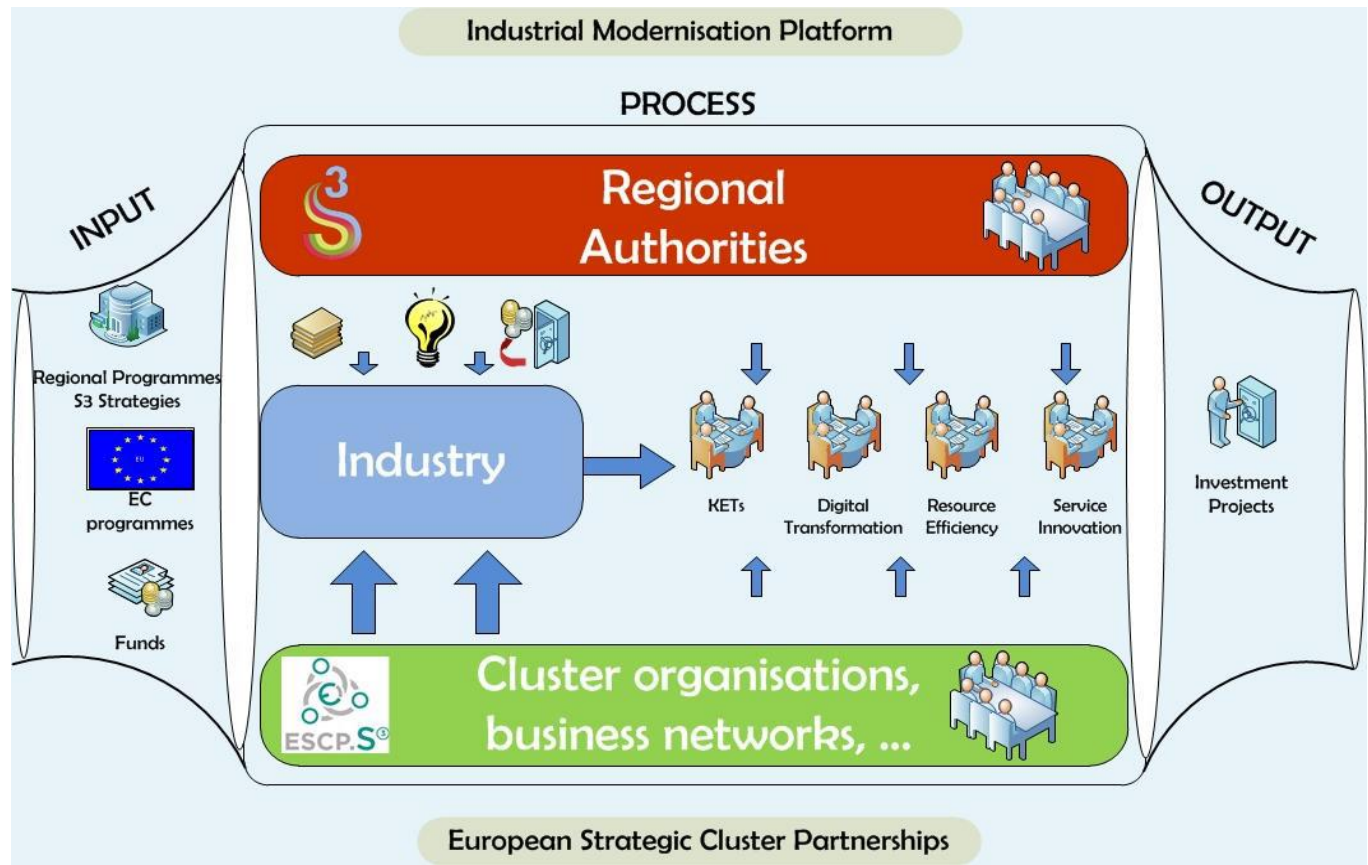


3RD FORUM OF THE EU STRATEGY FOR THE ADRIATIC CATANIA 24-25 MAY 2018 AND IONIAN REGION



OUR REGION OUR FUTURE

Mainstreaming of Vanguard experience





3RD FORUM OF THE EU STRATEGY FOR THE ADRIATIC AND IONIAN REGION

CATANIA 24-25 MAY 2018



OUR REGION OUR FUTURE

Lessons learned: Importance of place based Innovation Ecosystems

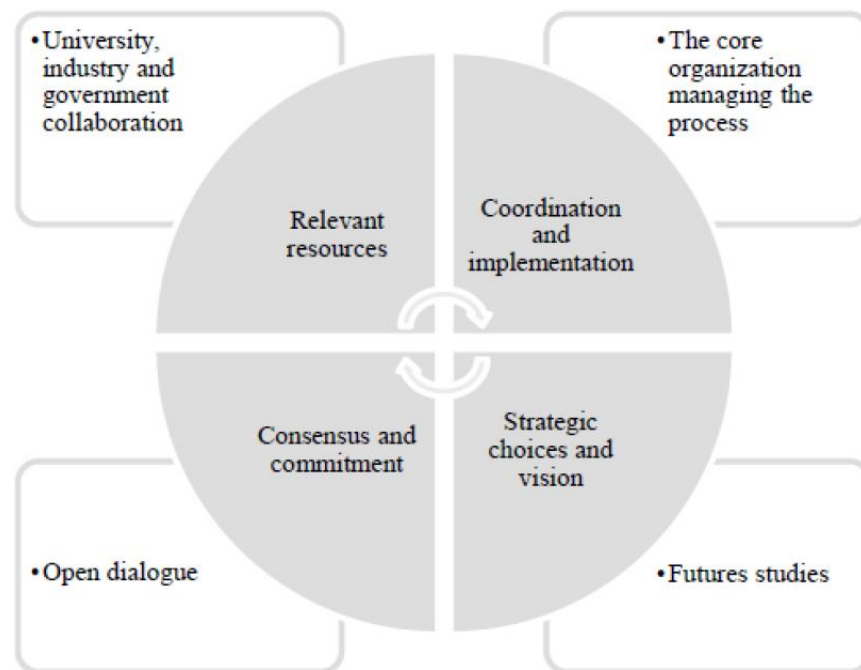


Fig. 1 – Model for building innovation ecosystems. (Credits: Oksanen and Hautamäki, 2014)

**JRC Report on Place-based
Innovation Ecosystems 2017**



VANGUARD INITIATIVE
New growth through smart specialisation



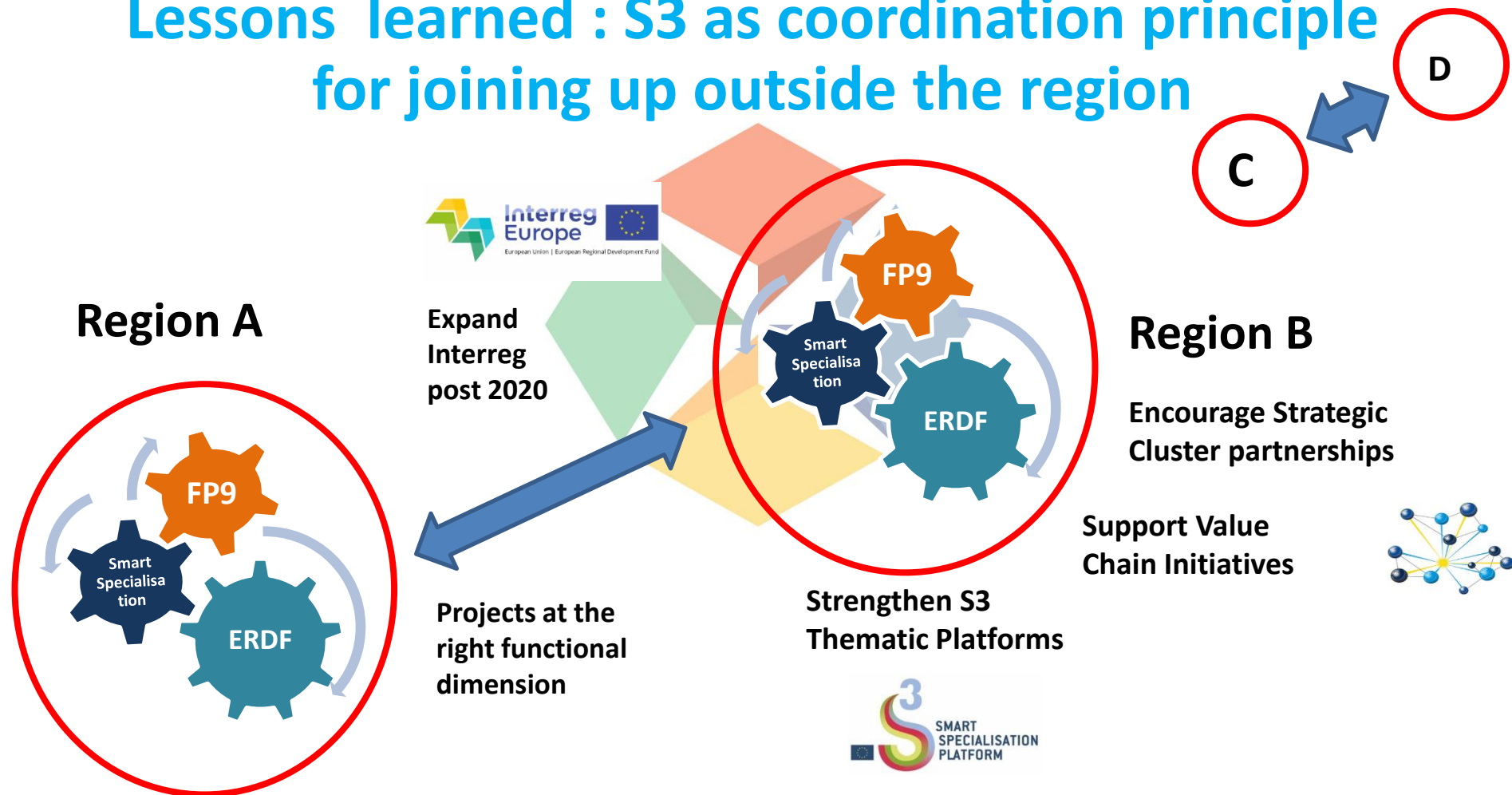
3RD FORUM OF THE EU STRATEGY FOR THE ADRIATIC AND IONIAN REGION

CATANIA 24-25 MAY 2018



OUR REGION OUR FUTURE

Lessons learned : S3 as coordination principle for joining up outside the region





3RD FORUM OF THE EU STRATEGY FOR THE ADRIATIC AND IONIAN REGION

CATANIA 24-25 MAY 2018



OUR REGION OUR FUTURE

Lessons learned: Territorial impact needs synergies

Awareness of the territorial dimension:

- Research infrastructure
- Innovation Capacities
- Skills

Combining funding

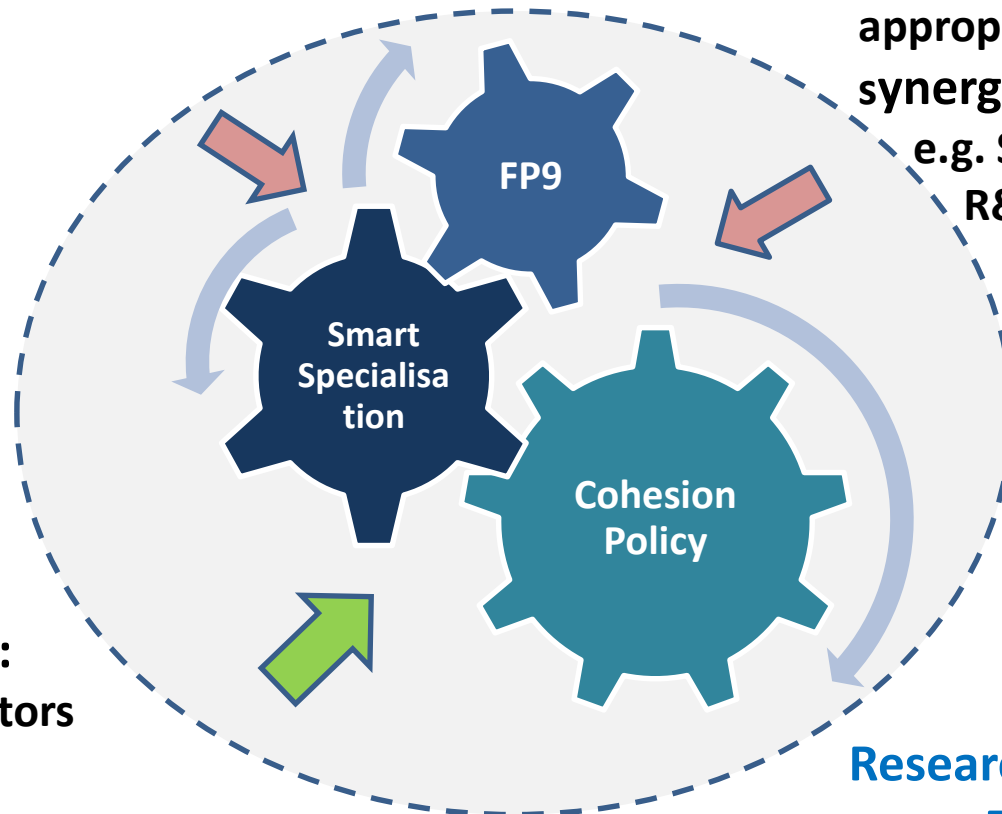


Building critical mass:

- Mobilising the key actors
- Quadruple helix
- Concentration

Ensuring appropriate resources & synergies:

e.g. Seal of excellence
R&I FP- ESIF-EFSI



Regional
Research & Innovation
Ecosystem



3RD FORUM OF THE EU STRATEGY FOR THE ADRIATIC CATANIA 24-25 MAY 2018 AND IONIAN REGION

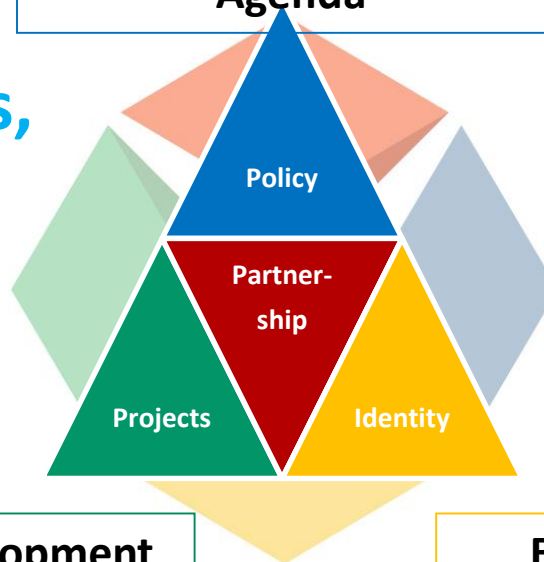


OUR REGION OUR FUTURE

Lessons learned: Policy, Partnerships, Projects, Identity



**Influencing EU Research
& Innovation Policy
Agenda**



**Building Partnerships and
capacities to work
together valorising the
existing networks and
platforms**

**Supporting project development
& investments engaging EUSAIR
partners in EU opportunities**

**Building the identity of
EUSAIR, mutual knowledge,
building trust**

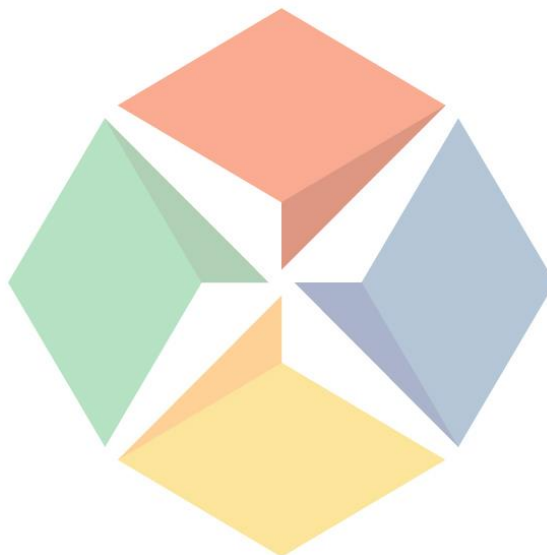


3RD FORUM OF THE EU STRATEGY FOR THE ADRIATIC CATANIA 24-25 MAY 2018 AND IONIAN REGION



OUR REGION OUR FUTURE

THANK YOU



Valentina Pinna
Head of sector Research &
Innovation
Lombardy Region

Chair of the Vanguard Initiative

@VI_Brussels #Vanguardinitiative

www.s3vanguardinitiative.eu