

## Smart Specialisation in Greece: experience and future opportunities

Research

Session 9: Manufacturing, innovation, and smart specialisation: improving competitiveness

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## S3: a framework for strategic innovation policy

Introduced as part of *ex-ante conditionality* for European Structural and Investment Funds (2014-2020)

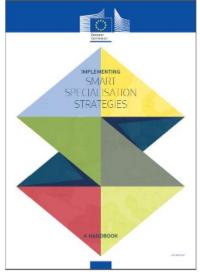
A place-based approach to innovation-led economic development

**Features of S3** 

- Stakeholder participation
- Long-term planning
- Focus on economic strengths

### S3 process (from JRC Handbook\*)

- Good governance
- The Entrepreneurial Discovery Process
- Priorities, calls and projects
- Transnational cooperation
- Monitoring





\* Giannelle et al. (2016) "Implementing Smart Specialisation Strategies: A Handbook". https://s3platform.jrc.ec.europa.eu/s3-implementation-handbook

## what S3 means for Greece

### An opportunity:

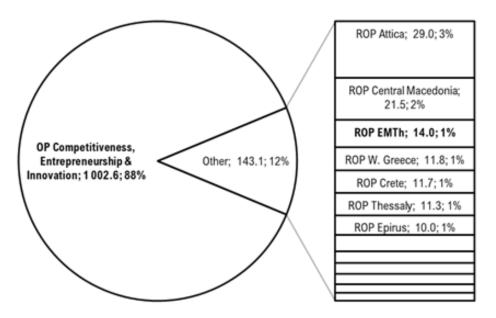
- To channel more funds to research and innovation
- To lengthen planning horizons and facilitate policy coherence
- To work more closely with stakeholders (esp. businesses)
- For Greek regions to develop territorially-appropriate innovation strategies

...and strengthen innovation-driven growth



## the experience with S3 so far in Greece

- Greece adopted a national S3 and 13 regional S3s
- S3 allocation ~1bn EUR (OP CEI)+
   + 143m EUR (RoPs) 2014-2020



### 8 priorities in national S3:

- 1. Agri-Food
- 2. Health & Biosciences
- 3. ICT
- 4. Energy
- 5. Environment & Sustainable Development
- 6. Transport & Logistics
- 7. Materials & Construction
- 8. Tourism, Culture & Creative Industries.



Source: Innovatia Systems for JRC

## JRC support to Greece: The Lagging Regions Project

JRC support under mandate from the European Parliament, in close collaboration with DG REGIO.

- Support to Region of Eastern Macedonia and Thrace (2015-2017)
- Support to RIS3 implementation by way of policy intelligence gathering and interregional learning workshops. In partnership with Ministry of Development (ΕΥΣΣΑ), General Secretariat of Research and Technology (GSRT), National Documentation Centre (EKT) and regions of C. Macedonia and W. Greece.
  - Surveys of RIS3 implementation in Greece; 2018 and 2019 editions
  - Workshops in Chania (2/2018), Thessaloniki (2/2019), Chios (11/2019)
- Support to the preparation of Greek national and regional authorities for the next programming period:
  - *Monitoring pilot study*
  - Governance study
  - *Review of Industrial Transition of Greece*

More information: <u>https://s3platform.jrc.ec.europa.eu/greece</u>



## the experience with S3 so far in Greece

### What went well

+ Innovation policy capabilities and learning in regions (incl. RIS3 network)

+ Positive experience with stakeholder involvement (at least initially)

+ Progress in territorially-appropriate innovation support

+ Progress with governance framework (though important gaps remain)

### What could have gone better

- S3 did not bring coherence between funds; need for horizontal support

- Teething administrative and IT problems delayed flow of funds to beneficiaries

- S3s proved major planning challenge for most Greek regions; multi-level coord.

- Sustaining momentum and internationalisation important challenges

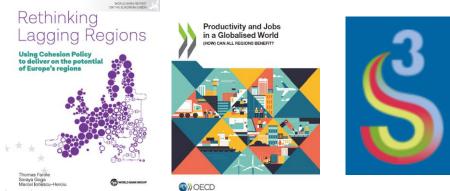
#### **Relevant JRC reports**

Metaxas, M. (2020), "RIS3 Monitoring System in Greece – Pilot Study", <u>https://s3platform.jrc.ec.europa.eu/-/ris3-monitoring-system-in-greece-pilot-study?inheritRedirect=true&redirect=%2Fgreece</u> Metaxas, M. (2019), "Summary Report on RIS3 implementation status in Greece. 2019 Edition", <u>https://s3platform.jrc.ec.europa.eu/en\_GB/-/summary-report-on-ris3-implementation-status-in-greece?inheritRedirect=true</u> Metaxas, M. (2018), "Summary Report on RIS3 implementation status in Greece. 2018 Edition", <u>https://s3platform.jrc.ec.europa.eu/-/summary-report-on-ris3-implementation-status-in-greece-november-2017-?inheritRedirect=true&redirect=%2Fgreece</u>



## looking to the future

The 3 Frames of Innovation



### Challenges of lagging regions

- Industrial decline and mass emigration
- Structural change: low-productivity agriculture/tourism
- Weak tradable sectors; Investment barriers
- Lacking scale-efficient production and business
  innovation
- Societal and environmental challenges
- Large infrastructure gaps

### A European Green Deal

Striving to be the first climate-neutral continent

### **Global trends**

- *Deep productive transformations*, esp. in energy and transport systems, and digitalisation
- Resurgence of interest in *industrial policy* no longer a taboo
- Emergence of new framework of thinking: transformative innovation policy
- European Green Deal and EU Recovery Fund (>1 th EUR for Green and Digital Transitions)

Pressing need to develop knowledge-intensive production capabilities → Problem: no framework available for full-blown industrial policy!



&D & Regulatio

# need to re-discover planning capabilities

### Saturn V: world's most powerful rocket

- Dependent on massive network (est. 400,000 people\*)
- Network disbanded since early 1970s
- Humanity has **since lost** heavy-launch capability
- No point using old 'blueprint' world moved on

### Industrial transitions

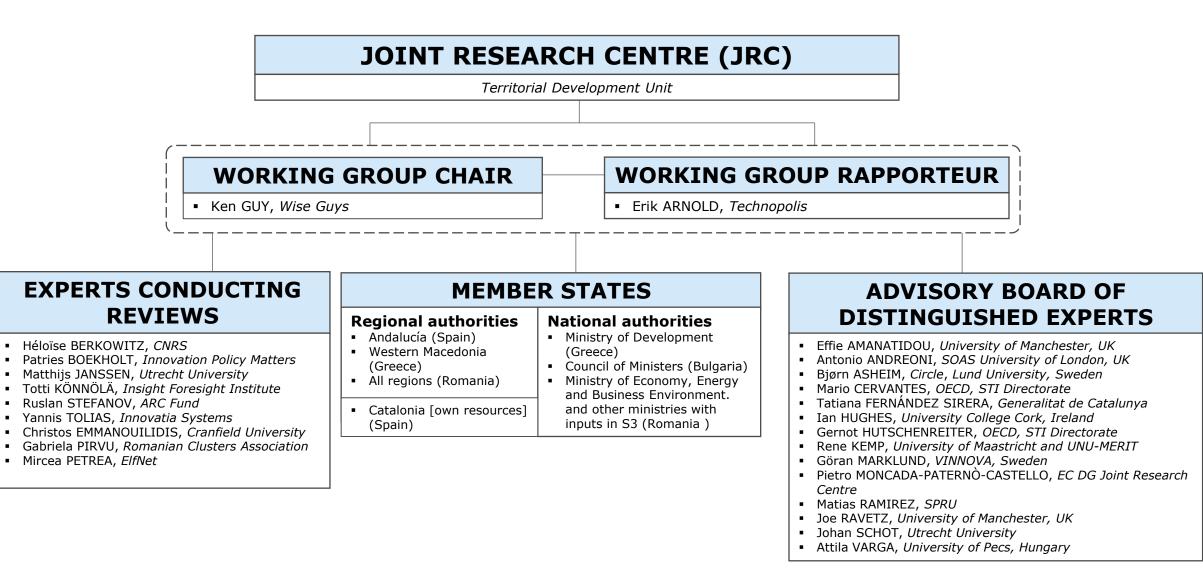
- →Lost capability for long-term, large-scale social action
- →Climate emergency: Non-negotiable deadlines, Massive coordination task
- →No point reviving 20<sup>th</sup> cent. industrial policies world moved on



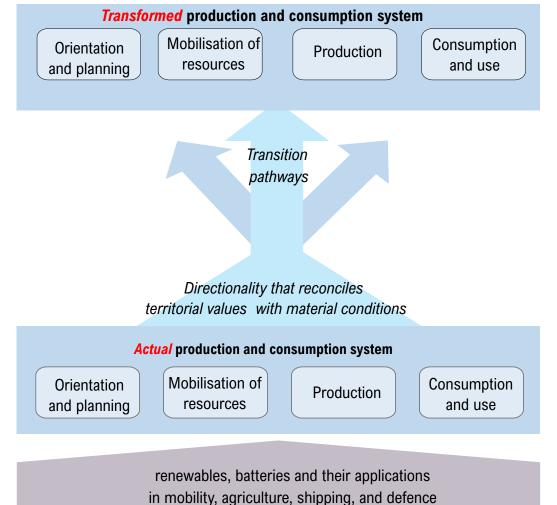




### JRC Working Group on Understanding and Managing Industrial Transitions



## a unique window of opportunity: the sustainability transition



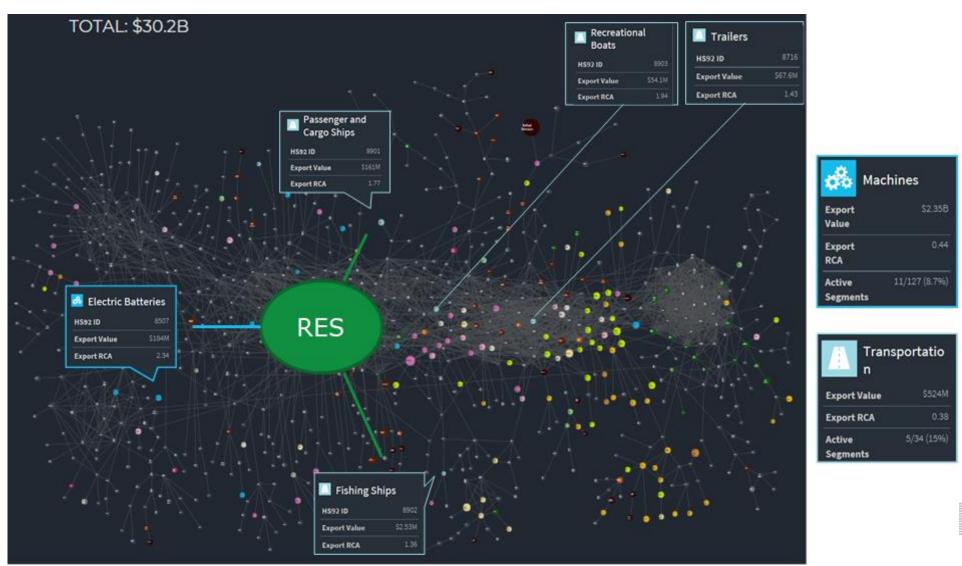
JRC Review of Industrial Transition of Greece

- Review partner: Ministry of Development (GR)
- **Experts**: Matthijs Janssen (Utrecht University, NL) and Yannis Tolias (Innovatia Systems, GR)
- **Opportunities**: industrial development (tradables) and employment creation
- Agreed theme: renewables, batteries and their applications in mobility, agriculture, shipping, & defence
- **Based on**: wide stakeholder consultation, expert analysis following JRC methodology\*

\* Methodology report forthcoming here in July: https://s3platform.jrc.ec.europa.eu/industrial-transition



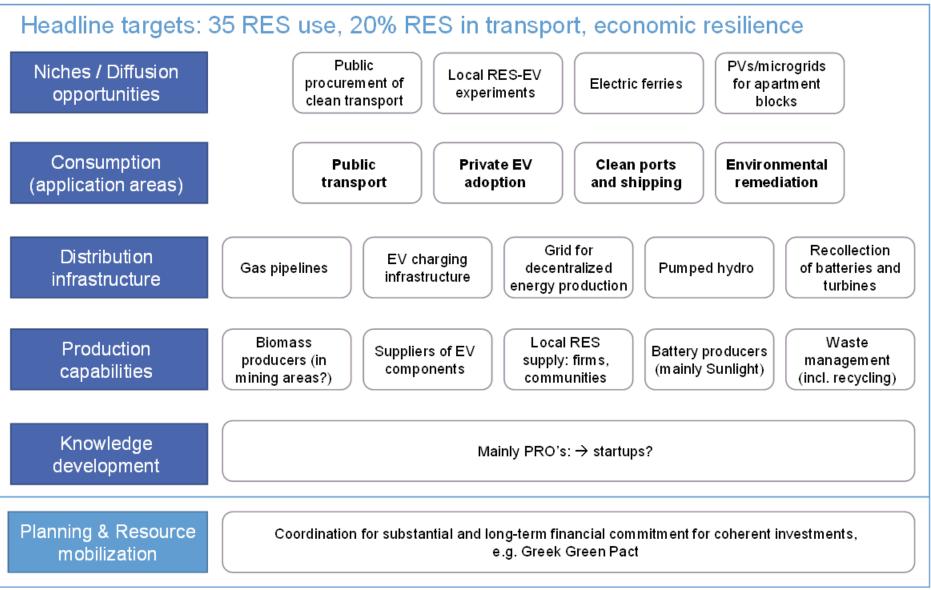
# Greek export space: renewables, batteries and their applications in mobility, agriculture, shipping, and/or defence



European

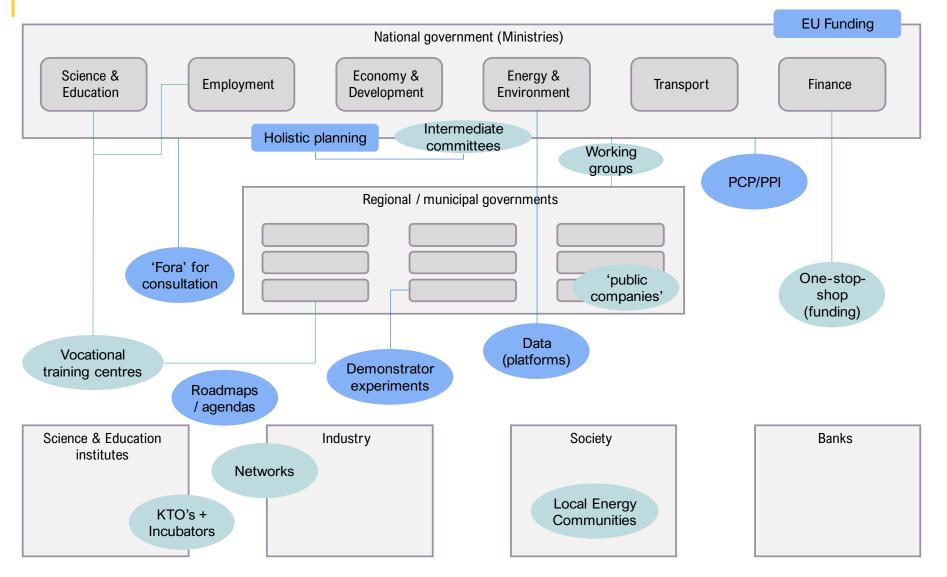
Commission

### transition pathways





## what's missing: gaps in the system (green) and areas to intensify effort (blue)





## catalysing the transition

### Coordination process:

**Key dates:** Review findings and recommendations 15 July

Final report due September

→ Greek "Green Pact"; +Inspiration from Dutch "Top Sectors"; +Catalan "Shared Agendas"

#### • Public policy interventions:

Legislation (e.g. microgrids, sandboxes); policy stability; enforcement of environmental regulation;

### • Enabling actions:

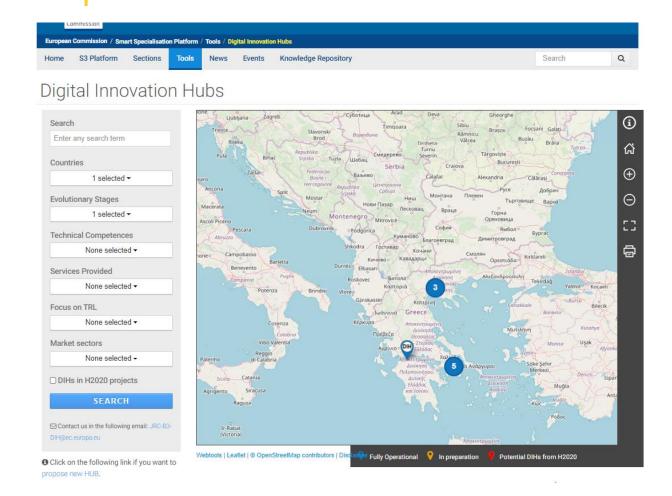
→Infrastructure (network and charging points; Skills (think ahead, (re)train, with/in businesses); demand management (smart meters, city-level standards, EV facilities, etc.); acceptance of RES (energy communities match with territorial values)

### R&D and innovation actions:

Knowledge transfer, PPPs, Public Procurement for Innovation (requires mostly capabilities, not money)



## Digitalisation of SMEs - a key enabler of innovation



#### **Digital Innovation Hubs (DIHs):**

Provide technological expertise and experimentation facilities to enable the digital transformation of the industry and the public sector

The new **Digital Europe Programme** (**DEP**) will co-invest in a network of pan European DIHs specialised in AI, HPC, Cybersecurity and digital skills in all EU countries and with close proximity to every region

### conclusions

### **1. Panoply of actions under a coherent industrial development logic**

Skills and R&I important: But only part of the story

### 2. Coordination process essential

Multi-level; multi-portfolio; multi-stakeholder. Inspiration from Dutch "Top Sectors" and Catalan "Shared Agendas".

### 3. Evidence-based support: JRC reviews as a tool to help.

JRC reviews only a beginning. Necessary to create much more extensive national evidence-base and systematic policy intelligence



## "No wind is favourable to the one who does not know to which port to sail."

### Lucius Annaeus Seneca (c. 4 BC – AD 65)





### **Thank you!**

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https://s3platform.jrc.ec.europa.eu/industrial-transition https://s3platform.jrc.ec.europa.eu/greece



