

# ECSEL JU

Smart grids in the new programming period: the role of transnational R&I networks to strengthen smart energy

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ECSEL JU



# What is ECSEL?

## ECSEL

**Electronic Components and Systems for European Leadership**

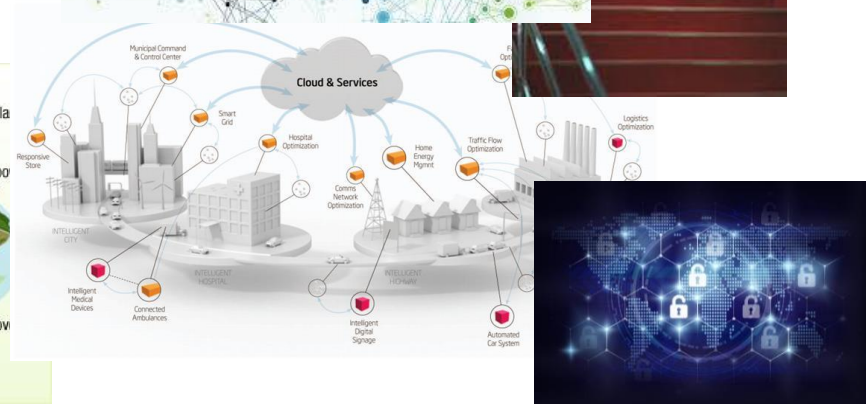
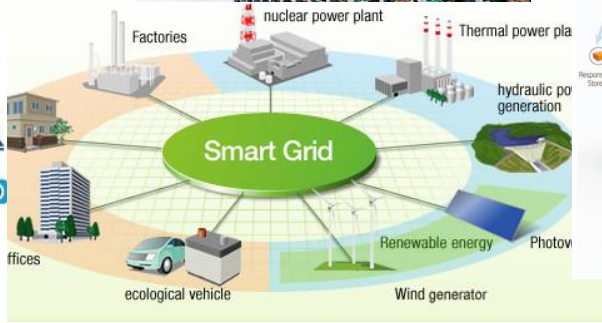
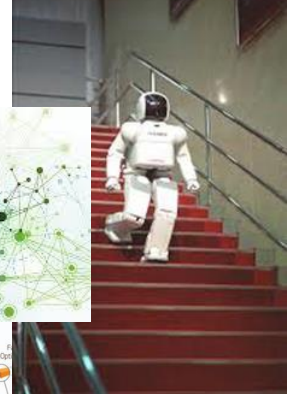
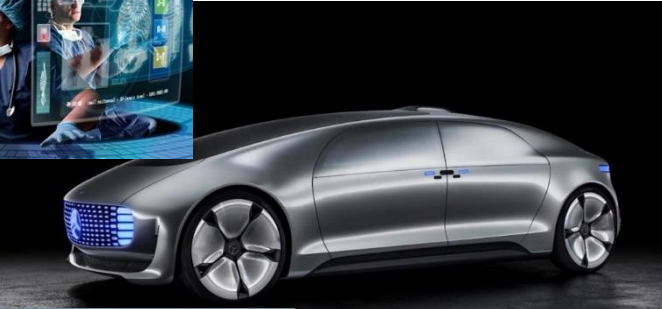
**Joint Undertaking**  
**a Public-Private Partnership**  
**Keeping Europe at the Forefront**  
**of Technology Development**

**Established by the Council Regulation (EU) No 561/2014**

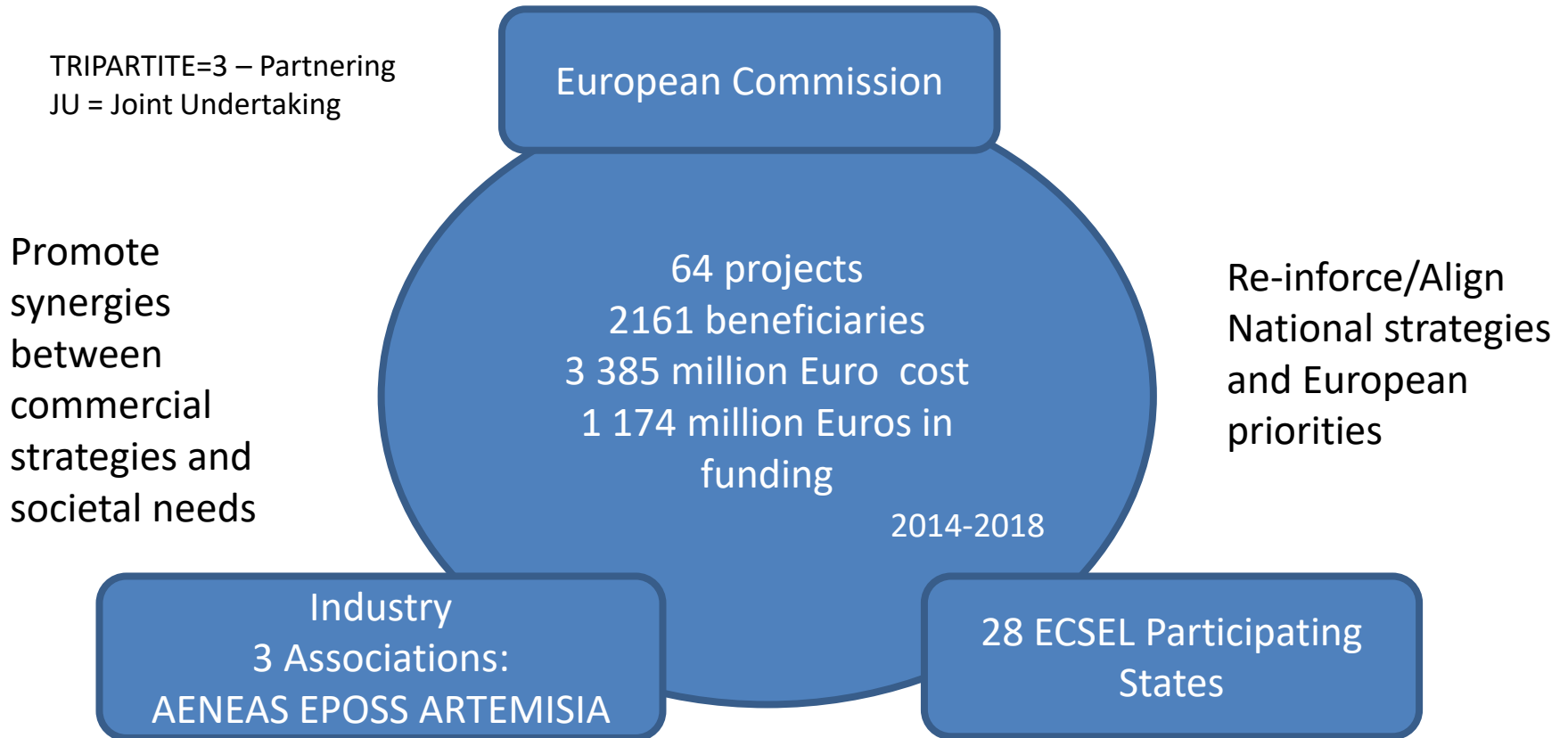
<http://www.ecsel.eu/web/index.php2>



# ECSEL Prepares for the Future



# ECSEL : A Unique Model to Promote European Innovation



# ECSEL JU Governance

## Union Body with Legal Personality

### Governing Board

ECSEL Members  
(Public Authorities, Private Members)

- **Strategic orientation, supervision**

Approves MultiAnnual Strategic Plan (MASP), Work Plan (WP), rules, membership, budget, staff, policies

### Executive Director

Programme Office

- **Chief Executive, legal representation**

Consolidates MultiAnnual Strategic Plan MASP, elaborates budget proposal, Work Plan WP, executes calls; monitors projects

### Public Authorities Board

European Commission,  
ECSEL Participating States

- **Representatives of the Public Authorities**

Approves call launching, call rules, allocates funding

### Private Members Board

AENEAS, ARTEMIS-IA, EPoSS

- **Defines research agenda**

Elaborates the multiannual strategic research and innovation agenda (MASRIA) and the annual research and innovation activities plan (RIAP)



# ECSEL JU Resources

## Under Horizon 2020:

### 1. Total estimated eligible costs: >5 Billion Euro

- EU grants through ECSEL JU: 1.17 Billion Euro
- ECSEL Participating States contributions: 1.17 Billion Euro

### 2. Project co-financing using more than one European mechanism should become possible

- Particularly important: **synergistically using regional and R&I funds**

### 3. European Structural and Investment Funds ESIF/ERDF.

- Several options to include activities with ESIF. **No Overlap**

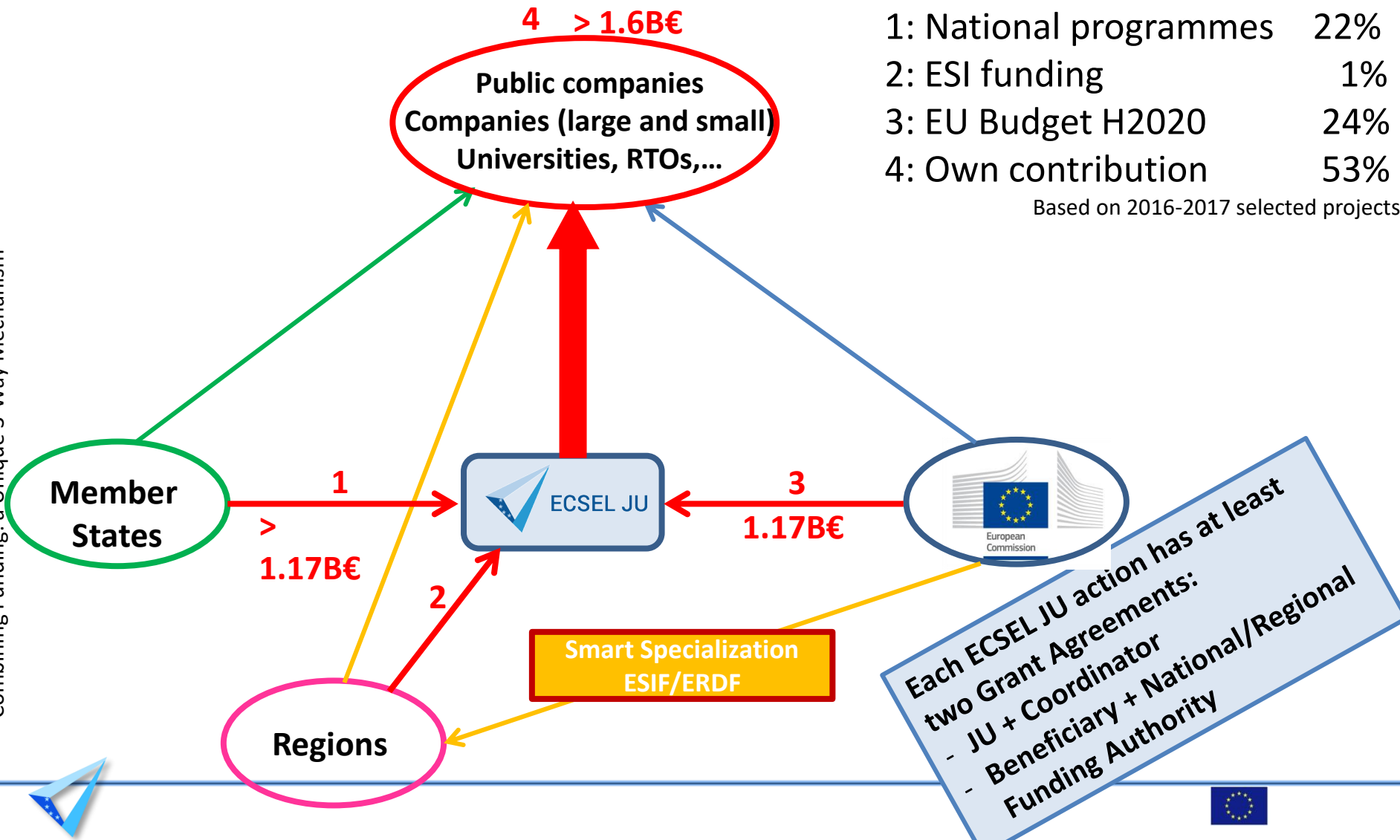


# ECSEL JU Mechanism

## Averages

1: National programmes	22%
2: ESI funding	1%
3: EU Budget H2020	24%
4: Own contribution	53%

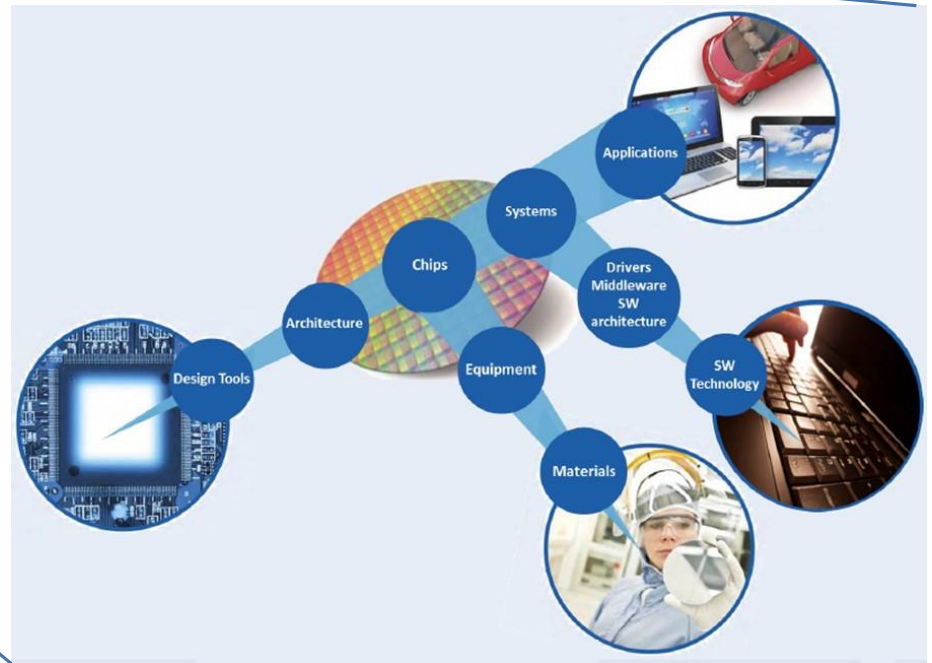
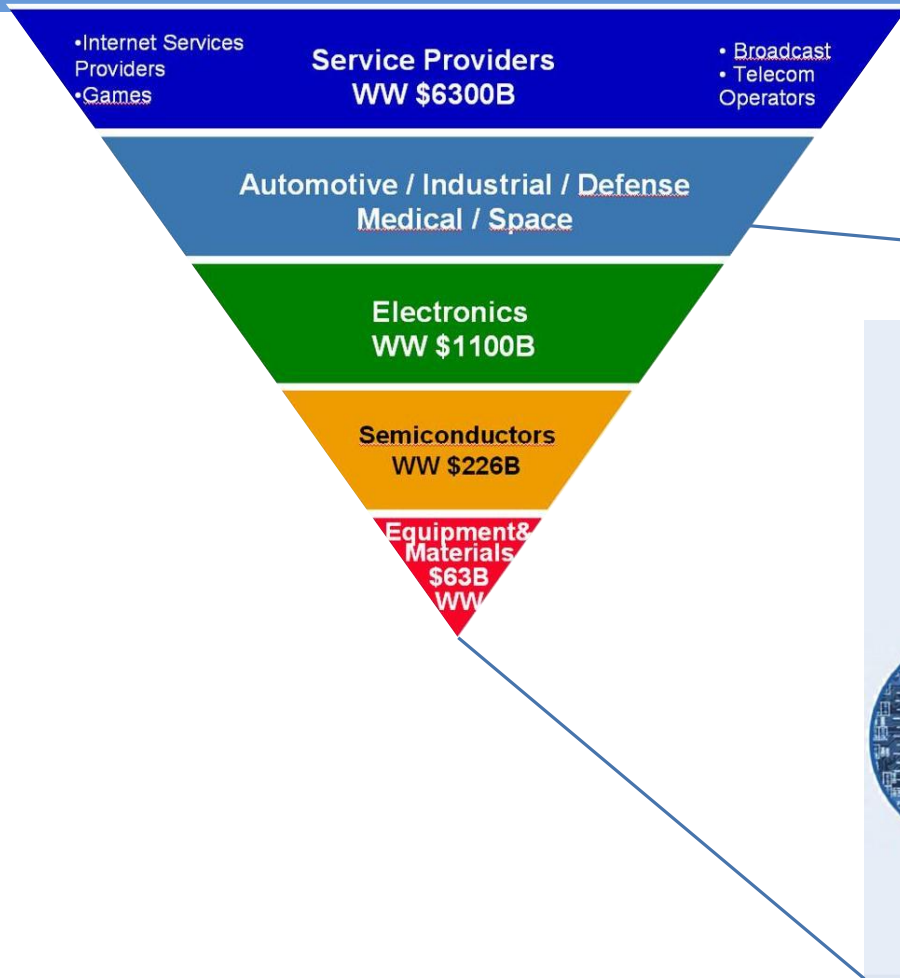
Based on 2016-2017 selected projects



Combining Funding: a Unique 3-Way Mechanism



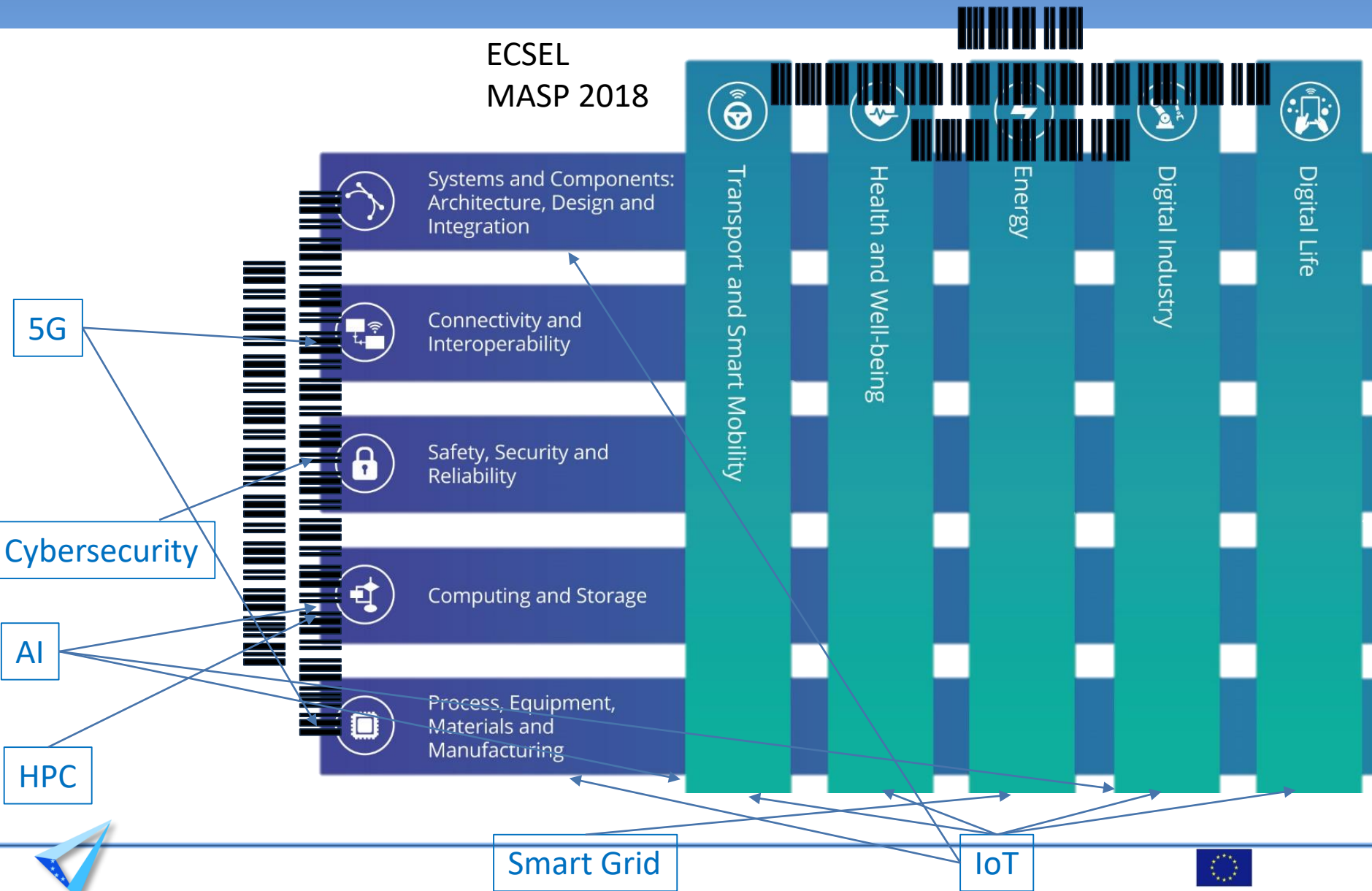
# Roadmap





# Roadmap

ECSEL  
MASP 2018

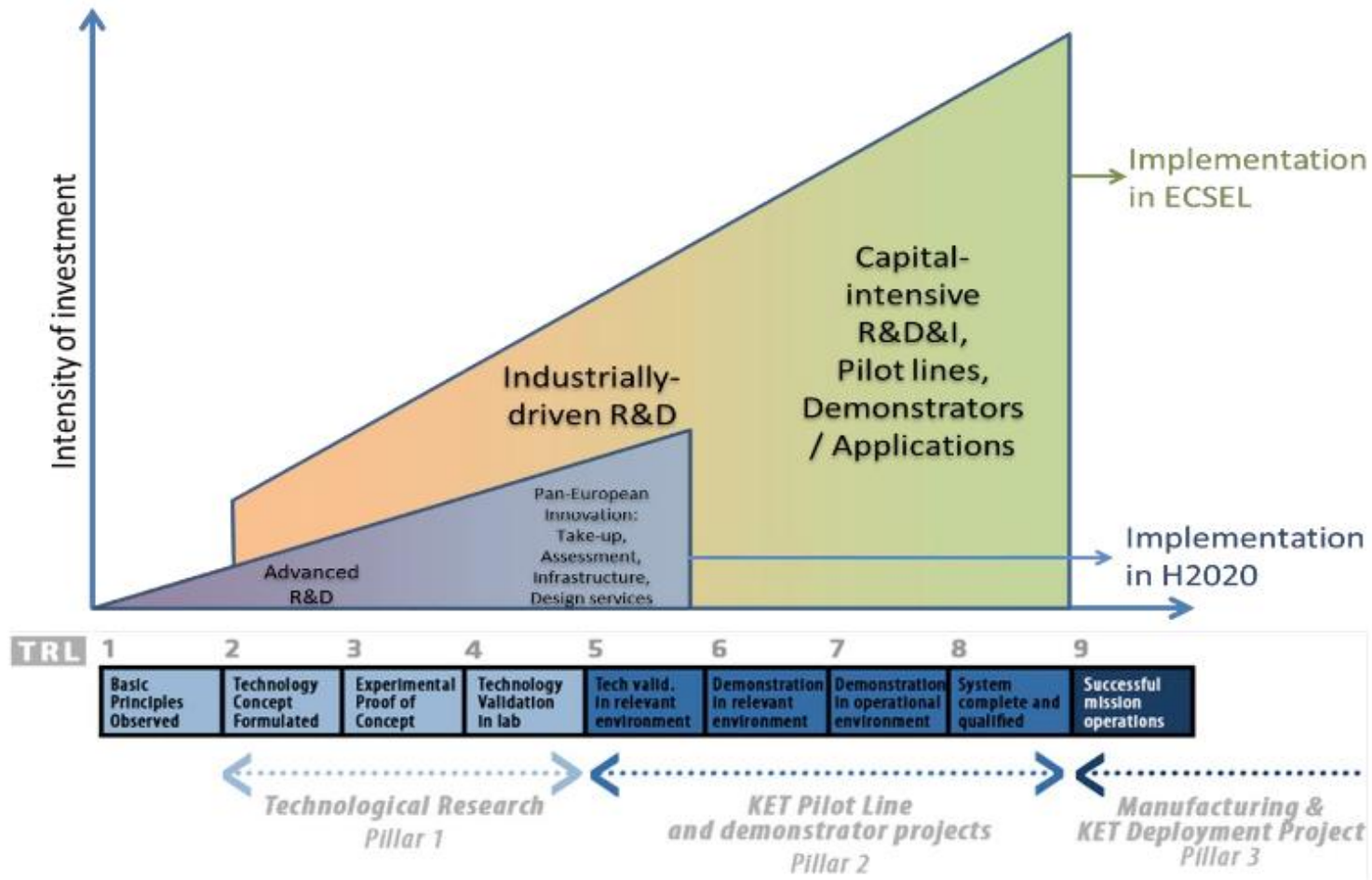


Smart Grid

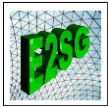
IoT



# H2020 vs ECSEL JU



# Energy projects



## E2SG - Energy to Smart Grid

Overall budget 34M€  
JU Funding: 5.7M€

Coordinator: ST, IT

2012 - 2015

Devise and design mechanisms and policies to assemble, monitor and control smart grids



## CONNECT - Innovative smart components, modules and appliances for a truly connected, efficient and secure smart grid

Overall budget 17.3M€  
JU Funding: 5.1M€

Coordinator:  
Infineon, DE

2017 - 2020

Provide concepts, technologies and components that support enhanced integration of renewables and storage combined with intelligent management of the energy flow to reduce carbon dioxide emissions and facilitates a decentralized energy infrastructure.



## R3-PowerUP - 300mm Pilot Line for Smart Power and Power Discretes

Overall budget 180M€  
JU Funding: 28M€

Coordinator: ST, IT

2017 - 2022

The overall concept of R3-POWERUP is the setup of the 300mm Pilot Line for Smart Power devices that will allow the development of more advanced Smart Power technology generations



## Power2Power

Overall budget 74.2 M€  
JU Funding: 16.9 M€

Coordinator: Infineon, DE

2019 - 2022

The next-generation of silicon-based power solutions in mobility, industry and grid for sustainable decarbonization in the next decade

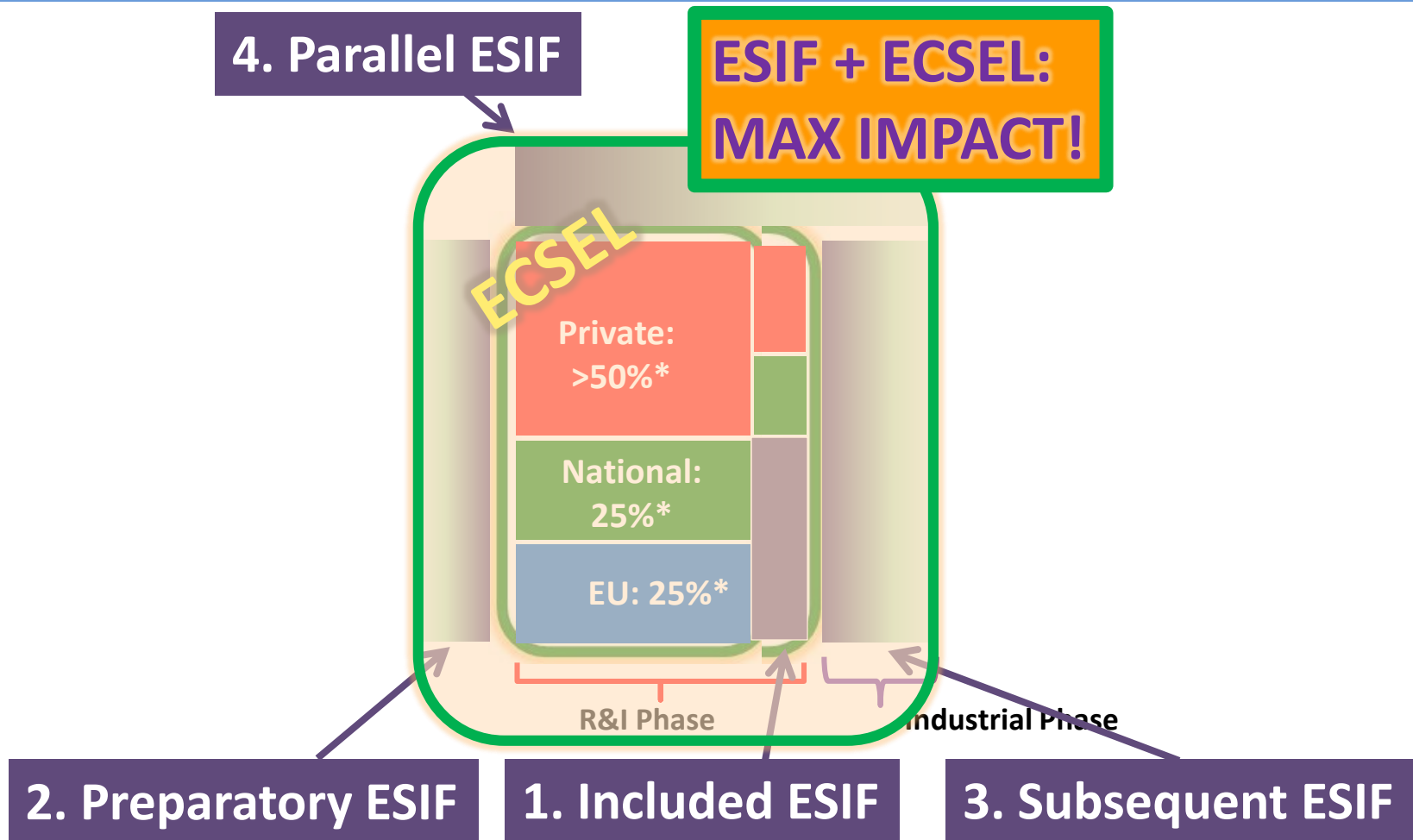


# European Structural and Investment Funds ESIF/ERDF

- Activities which are funded with ESI funds **cannot receive ECSEL-EU funding** (double funding from two EU sources!).
- There are several options to include activities funded with ESI funds – check the Guide for Applicants
- Main issue: **no overlap**



# Why Co-Funding: Larger, Stronger Actions



\*: percentages for illustration only, actual value will vary according to different criteria



# Current status

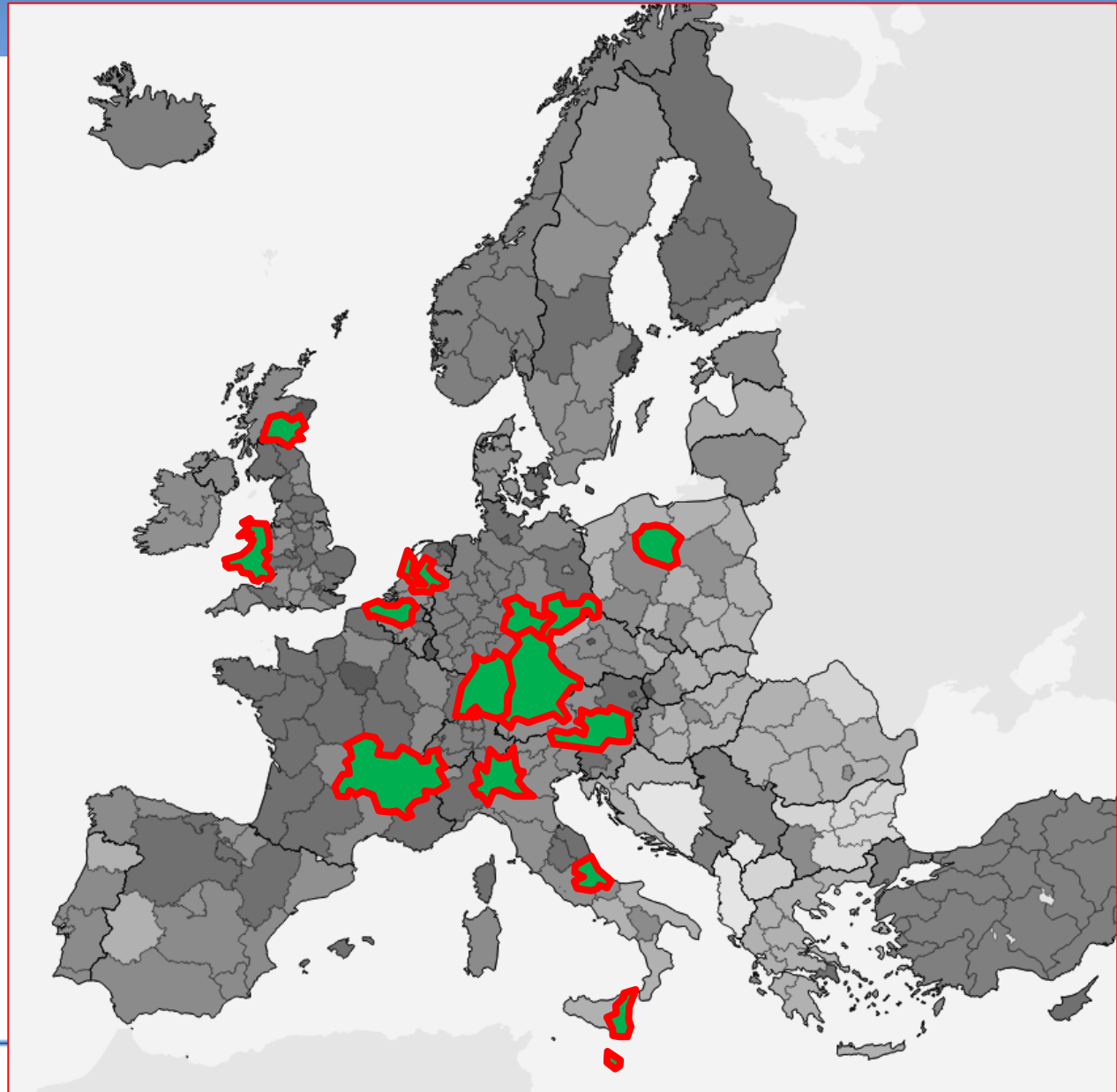
- First time participation of ESIF partners in selected projects for funding (ECSEL call 2016). We have communication with public authorities of several MS to develop further the payment procedure
- Consortia comprised by a mix of Partners/Coordinator funded only with ESIF and « regular » partner with EU contribution. Also possible that a partner in the same action may have segregated co-funding (EU+ESIF).
- Challenges:
  - How to report the total costs for ESIF and H2020 separately in case of cofunding, and how to submit via Participant Portal/SYGMA
  - ECSEL performs the technical evaluation of the progress of the work. Still to see how it is accepted at national level in the ESIF programme.
  - Coordination of the payments



# ECSEL Regional Mapping

ECSEL JU identified the regions active in the field:

- 16 regions with primary industrial interest in Electronic Components and Systems (on the map)
- 17 regions also involved
- 4 regions with concrete plans to get involved



# ECSEL JU “Lighthouse Initiatives”

- Build on well identified market-pull related to societal needs, with a strong pan-European dimension
- Create ecosystems along the relevant value and supply chains, where appropriate:
  - Working towards clustering of projects
  - Having a strategic IP management policy
  - Establishing a standardization strategy
  - Addressing the relevant non-technical aspects (legislative, regulatory, social, ...)

MOBILITY.E

INDUSTRY4.E

HEALTH.E





**Thank you for your attention!**



**ECSEL JU**

