

The European Commission's science and knowledge service

Joint Research Centre

Synergies between ESIF and other funds

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H2 and Fuel Cells in maritime applications
15-16 June 2017 Valencia

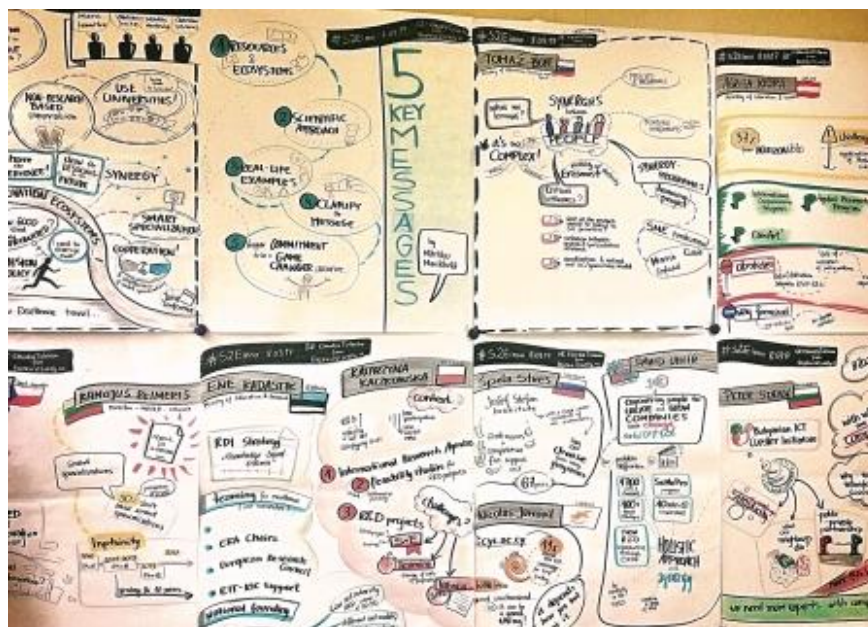


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Stairway to Excellence (S2E)

Boosting regional growth through innovation

at a glance



Who? Why? What?

- the EP pilot project launched in 2014 (DG JRC + DG REGIO)
- support the development and exploitation of synergies between ESIF and other R&I funding programmes and instruments (e.g. H2020 including JU, KICs etc., COSME, EFSI and more)
- support so far EU13 MS and its regions; now concentrates on EU28
- main focus is put on:
 - * implementation aspects of synergies
 - * specific thematic domains

What we have done so far...

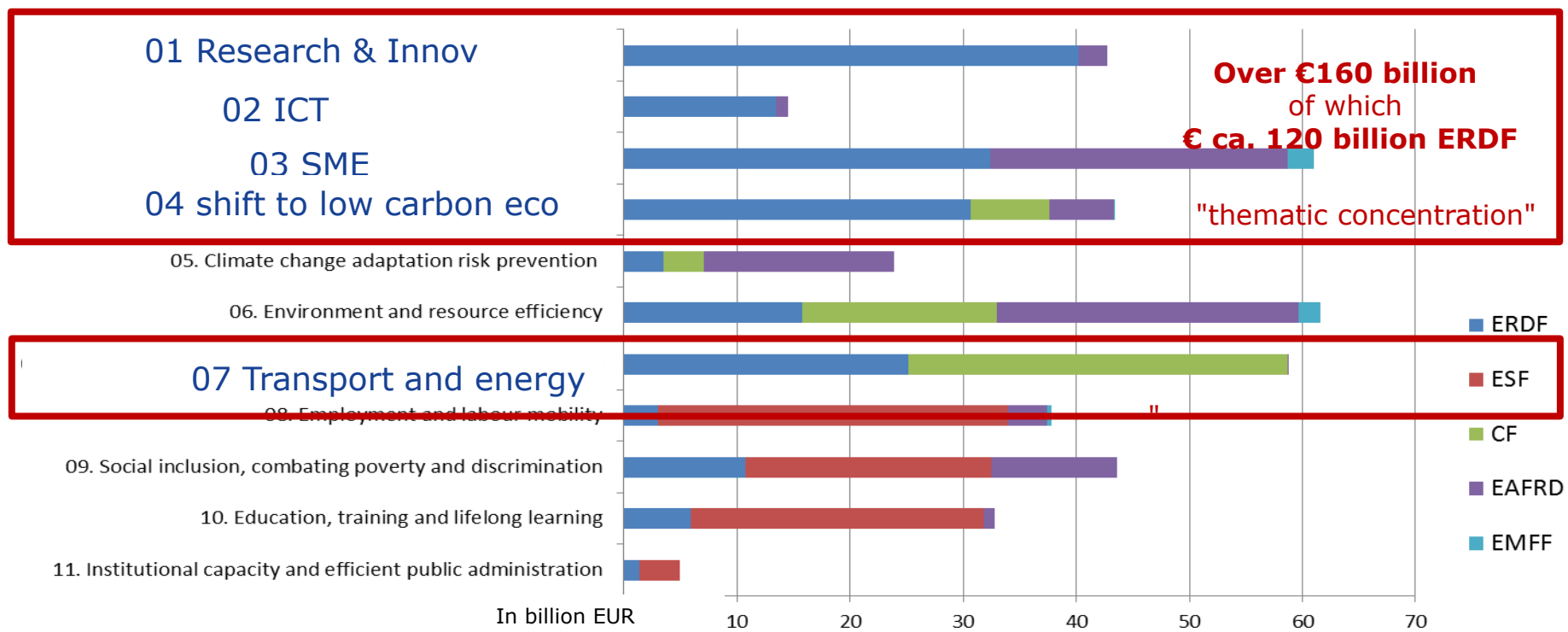
- 13 National Policy Events
- National and Regional Fact & Figures: statistical indicators on the deployment of FP/ H2020 and Structural Fund/ ESIF for each of the EU13
- S2E Country Reports on the national innovation ecosystem & synergy opportunities

What we are going to do...

- **Analyse of typologies of synergies** - analyse underlining challenges and opportunities offered by existing networks, platforms and initiatives (e.g. KICs, EIPs, JUs, JPIs) to improve R&I ecosystems and enhancing synergies among R&I actors and funding instruments.
- **Analyse of specific cases** - linked to thematic priorities identified under the S3 thematic platforms, but also linked to other areas of importance to the EC
- **Analyse of barriers to synergies as well as of potential solutions**
- **Horizontal working groups focusing on mutual learning across regions and MSs**
- **Targeted R&I thematic events**

ESIF programming 2014-20: State of Play

- EUR 451 billion of ESIF + EUR 183 billion of national co-financing
- 456 national (thematic) and regional and 79 Interreg programmes
- Concentration on 11 Thematic Objectives



Source: Final ESIF partnership agreements as of December 2014
 Soon all open data available at: <https://cohesiondata.ec.europa.eu/>

How does ESIF work for enterprises?

Identify relevant Operational Programme(s) & Managing

Authorities: by territory (OPs can be country-wide or per region) and theme / specific objectives:

- ERDF: http://ec.europa.eu/regional_policy/en/atlas/
- ESF: <http://ec.europa.eu/esf/main.jsp?catId=576&langId=en>
- EAFRD: <https://enrd.ec.europa.eu/en/general-info/whos-who/implementing-authorities/managing-authorities>
- EMFF: http://ec.europa.eu/fisheries/cfp/emff/country-files/index_en.htm

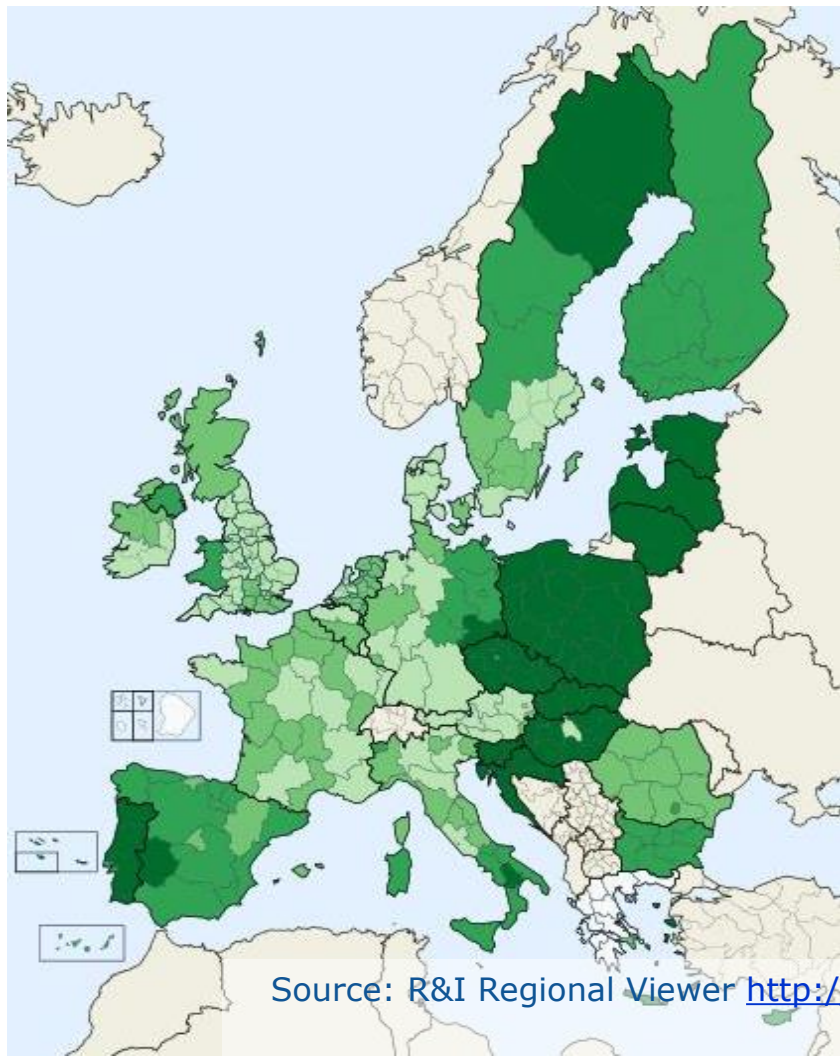
Identify open calls / funding opportunities: the co-financing rates (up to state aid ceilings), payment conditions, budget volumes, application forms, selection mechanisms, delivery forms (grants, loans, VC, vouchers, advisory services, etc.), timelines, themes & objectives etc. **differ between the OPs!**

Develop project proposal: Funds mostly spent **within OP's territory** (can be sub-regional, regional, national, cross-borders, inter-regional, trans-national); limited exceptions possible if agreed by Monitoring Committee of OP

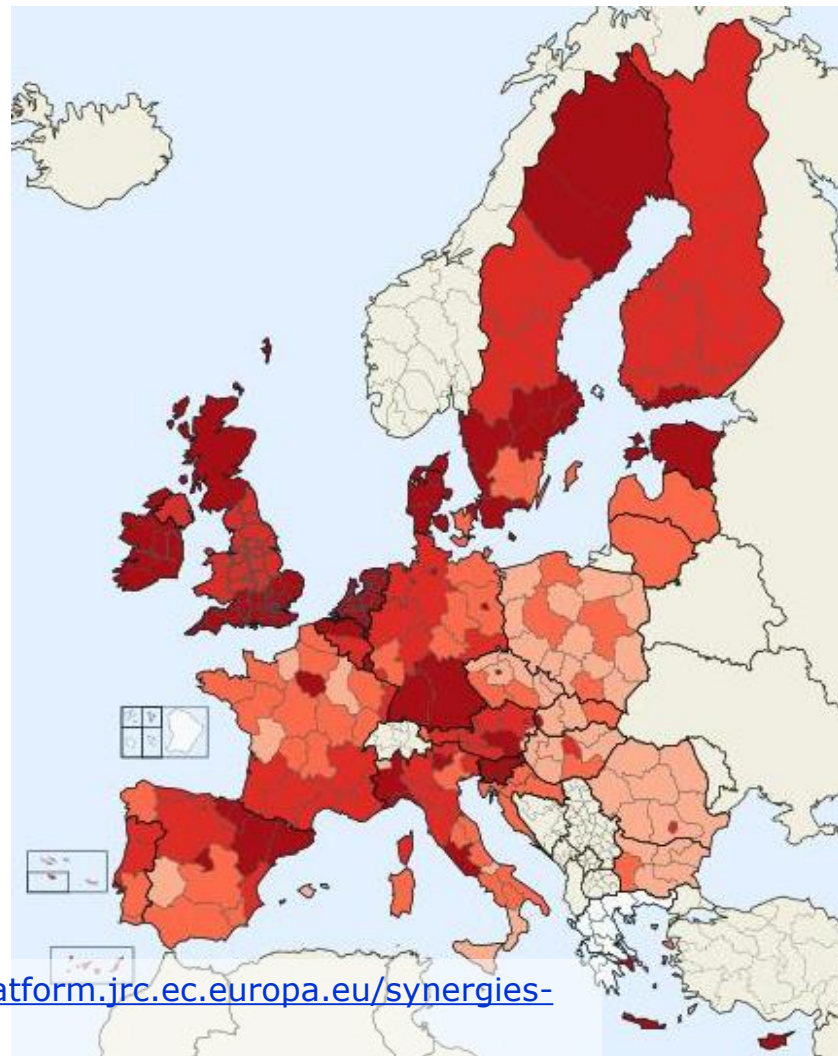
- **Contact Managing Authorities**
- **Commission is not involved in project selection** (only consulted on "major projects" above €50 million)

ESIF Support for R&I (2)

ESIF R&I allocations 2014-2020 by region per capita



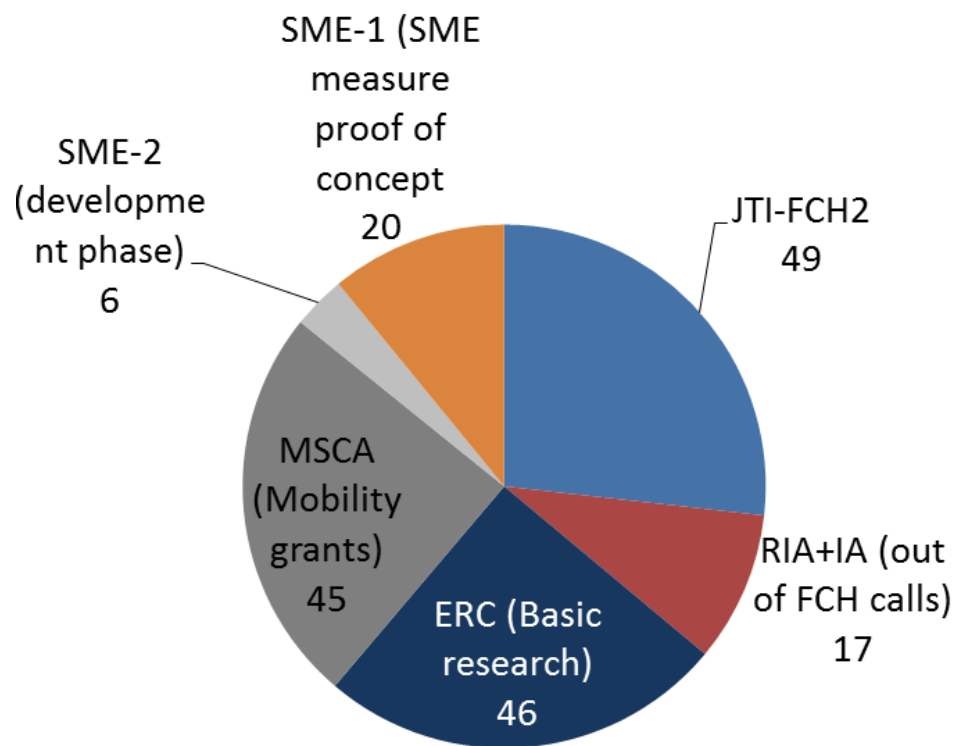
H2020 funding 2014 - 10/2016 by region per capita



Source: R&I Regional Viewer <http://s3platform.jrc.ec.europa.eu/synergies-tool>

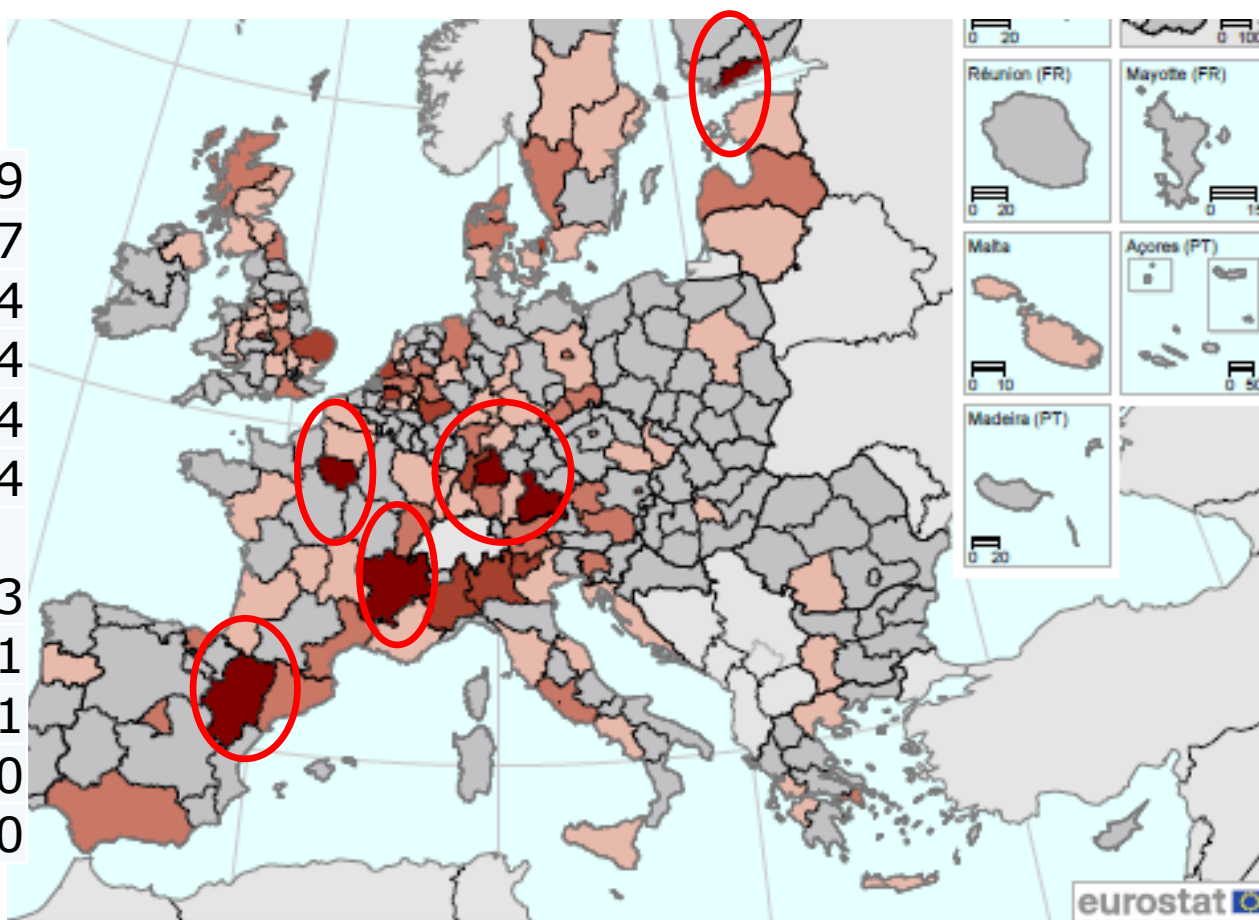
Fuel cell and hydrogen related activities in Horizon 2020 by funding instruments

	Nb of Contracts	In Meuros (EC contrib)
JTI-FCH2	49	286
RIA+IA (out of FCH calls: Space, Low carb economy ...)	17	92,4
ERC (Basic research)	46	74,4
MSCA (Mobility grants)	45	27,6
SME-2 (development phase)	6	10,4
SME-1 (SME measure proof of concept)	20	1
Total	183	491,9



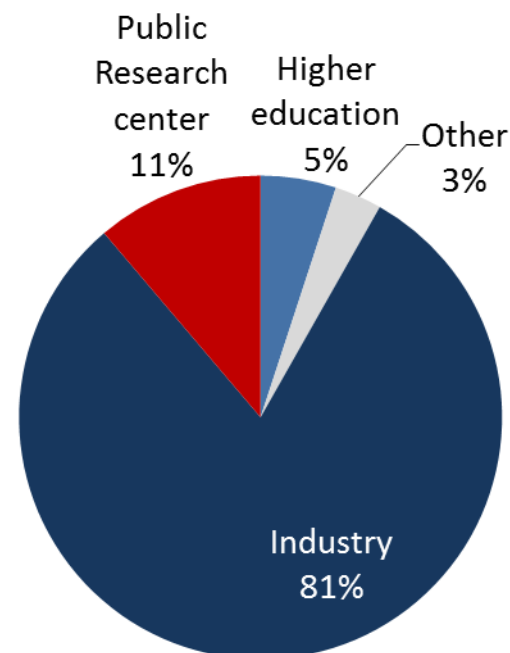
Origin of beneficiaries of calls launched by the FCHJU (feb 2017)

FR71	Rhones-Alpes	19
DE21	Munich	17
FI1B	Helsinki	14
ES24	Aragon	14
FR10	Ile de France	14
DE11	Stuttgart	14
	Région	
CH01	Lémanique	13
DK01	Hovedstaden	11
DEA2	Koln	11
DE12	Karlsruhe	10
ITC1	Piemonte	10



First beneficiaries of FCH JU calls for projects Key Stakeholders

	In MEuros
SOLIDPOWER SPA	12.7
ITM POWER (TRADING) LIMITED	12.2
VAILLANT GMBH	8.4
AIR LIQUIDE ADVANCED TECHNOLOGIES SA	8.3
BOSCH THERMOTECHNIK GMBH	7.4
VISSMANN WERKE GMBH & CO KG	7.3
SYMBIOFCELL SA	6.3
DAIMLER AG	6.2
REGIONALVERKEHR KOLN GMBH	5.9
LONDON BUS SERVICES LIMITED	5.8
LINDE AG	5.4
SIEMENS AKTIENGESELLSCHAFT	5.3
H2 MOBILITY DEUTSCHLAND GMBH & CO KG	5.3
WEST MIDLANDS TRAVEL LIMITED	5.0



Concept of Synergies

- **Improve the quality of national & regional innovation policies**
- **Enhance the impact of investments**, incl. "durability", links btw. projects, building on previous projects of other instruments
- **Amplify projects / initiatives by joining forces under different funds to generate critical mass**: cumulating / alternative funding
- **Strengthen cooperation and complementarity across Europe** by teaming up different capacities in leading and lagging regions thanks to smart specialisation
- **Strengthen cooperation between innovation actors and policies relevant for innovation** (skilled & creative people, research, enterprises, investors, market access, different Ministries and departments and on different levels, legal and administrative framework conditions...)

The 4 scenarios to Synergies

- **ALTERNATIVE** : providing funding from alternative sources for positively evaluated Framework Programme/Horizon 2020 proposals but not funded due to insufficient Call budgets (**Seal of Excellence**)
- **SEQUENTIAL**: use funds in separate projects building on each other (**Teaming for Excellence**)
- **PARALLEL**: use funds in separate projects complementing each other
- **CUMULATIVE**: bringing together ESIF money and e.g. H2020 in the same project (**Clean Sky 2 JU**)

How to create Synergies

- Think strategic (not project oriented)
- Act in collaboration (not isolation)
- Identify / generate opportunities (in all programmes)
- Set up suitable implementation mechanisms



THE EU FUNDING LANDSCAPE (DRAFT)

CENTRALIZED

Connecting Europe Facility
Energy, transport, digital infrastructure (PCI)

LIFE
Environment and Climate Action

European Institute Technology: KICs
climate, InnoEnergy

European Energy Efficiency Fund

Horizon 2020

Fuel Cells and H2 JU

Clean Sky 2 JTI

SESAR JU

Shift 2 Rail JU

EGVI

European Fund for Strategic Investments
(EIB, EC)

BANKS

EBRD

EIB

Marguerite Fund
2020 Fund for Energy, Climate Change, Infrastruct.

SPECIFIC BUDGET STREAMS

NER300 (NER400)

EURATOM Loan Facility

EURATOM research & training

ITER

S3 strategies

SHARED MANAGEMENT

European Structural and Investment Funds

TO1: research and innovation

TO4: low-carbon economy

TO7: sustainable transport & infrastructure

ERDF
share
low-carb
economy

Cohesion
Fund

European
Social
Fund

EAFR
D

EMFF

European
funding
sources for
energy and
transport

(non-official, non-exhaustive illustration)

TECHNICAL ASSISTANCE AND PROJECT DEVELOPMENT ASSIST.

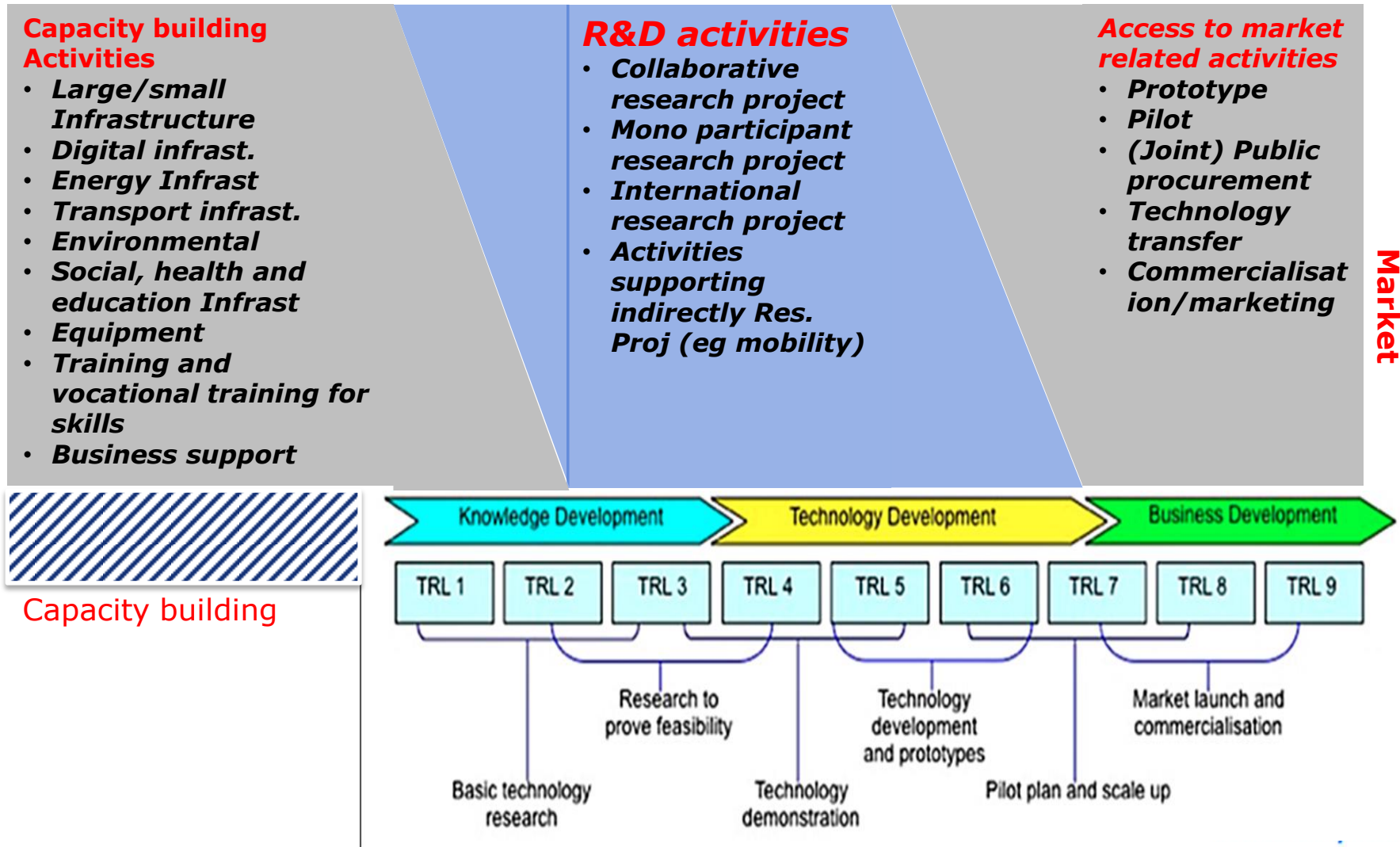
JASPERS (Joint Assistance to Support Projects in European Regions)

ELENA (Europ. Local Energy Assistance Facility)

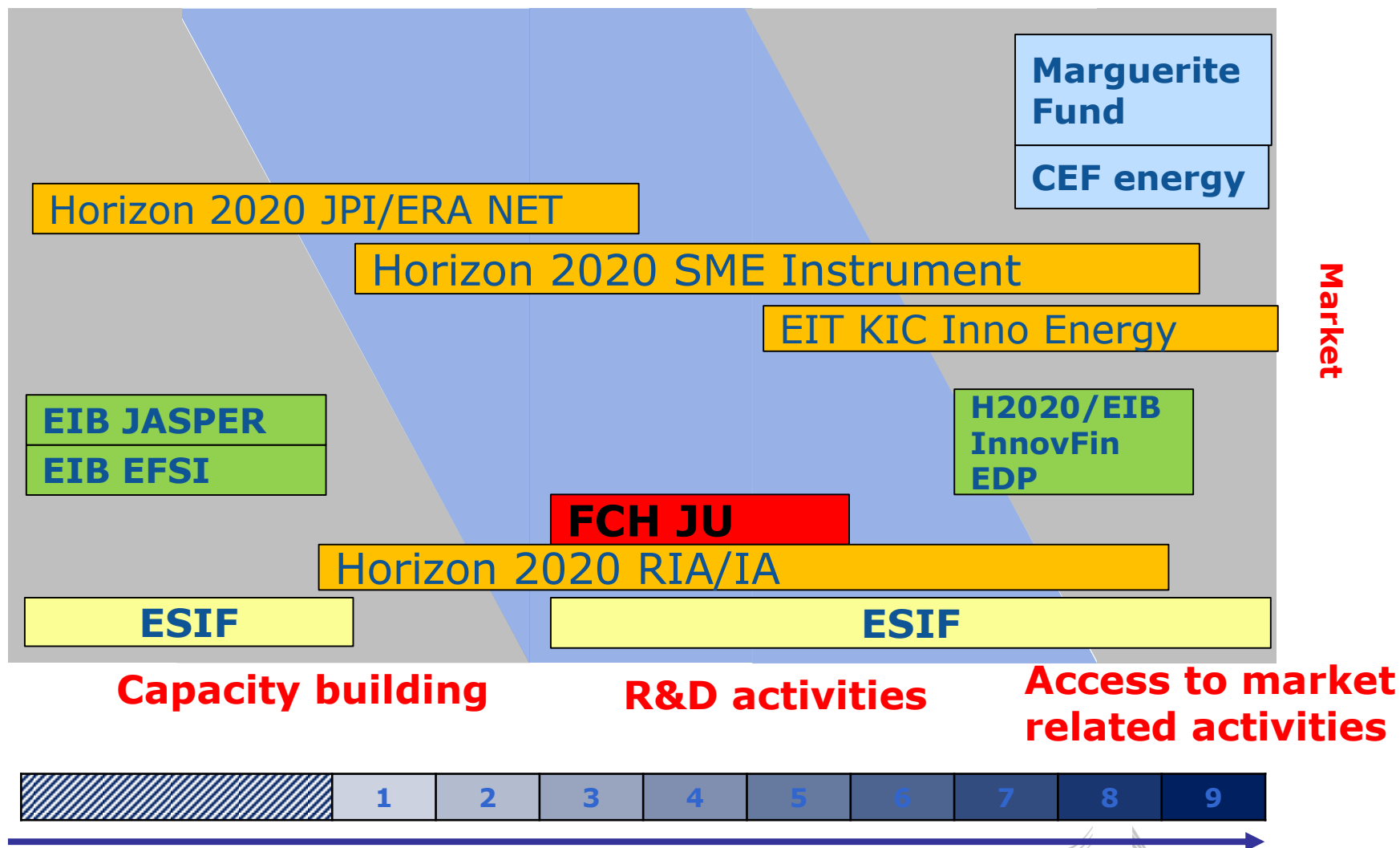


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Conceptual framework: what type of activities to be funded



FROM BUILDING RESEARCH AND INNOVATION CAPACITIES TO THE MARKET



TRL scale
source: S2E project; draft

InnovFins overview

Early-Stage Enterprises		SMEs		Midcaps	Large Caps	Thematic Finance	Advisory
InnovFin Technology Transfer		InnovFin SME Guarantee		InnovFin MidCap Guarantee	InnovFin Large Projects	InnovFin Energy Demo Projects	InnovFin Advisory
InnovFin Business Angels				InnovFin MidCap Growth Finance		InnovFin Infectious Diseases	
InnovFin Venture Capital							
InnovFin Fund-of-Funds							
Early-Stage Enterprises, SMEs and Small Midcaps < 500 Employees		SMEs and Small Midcaps < 500 Employees		Midcaps < 3 000 Employees	Large Caps Typically > 3 000 Employees	SPV, Midcaps and Large Caps	Public and Private Sector Promoters
Intermediated Equity Financing		Intermediated Debt Financing		Intermediated and/or Direct Corporate Lending	Direct Corporate Lending	Project Finance and/or Direct Corporate Lending	Financial Advisory

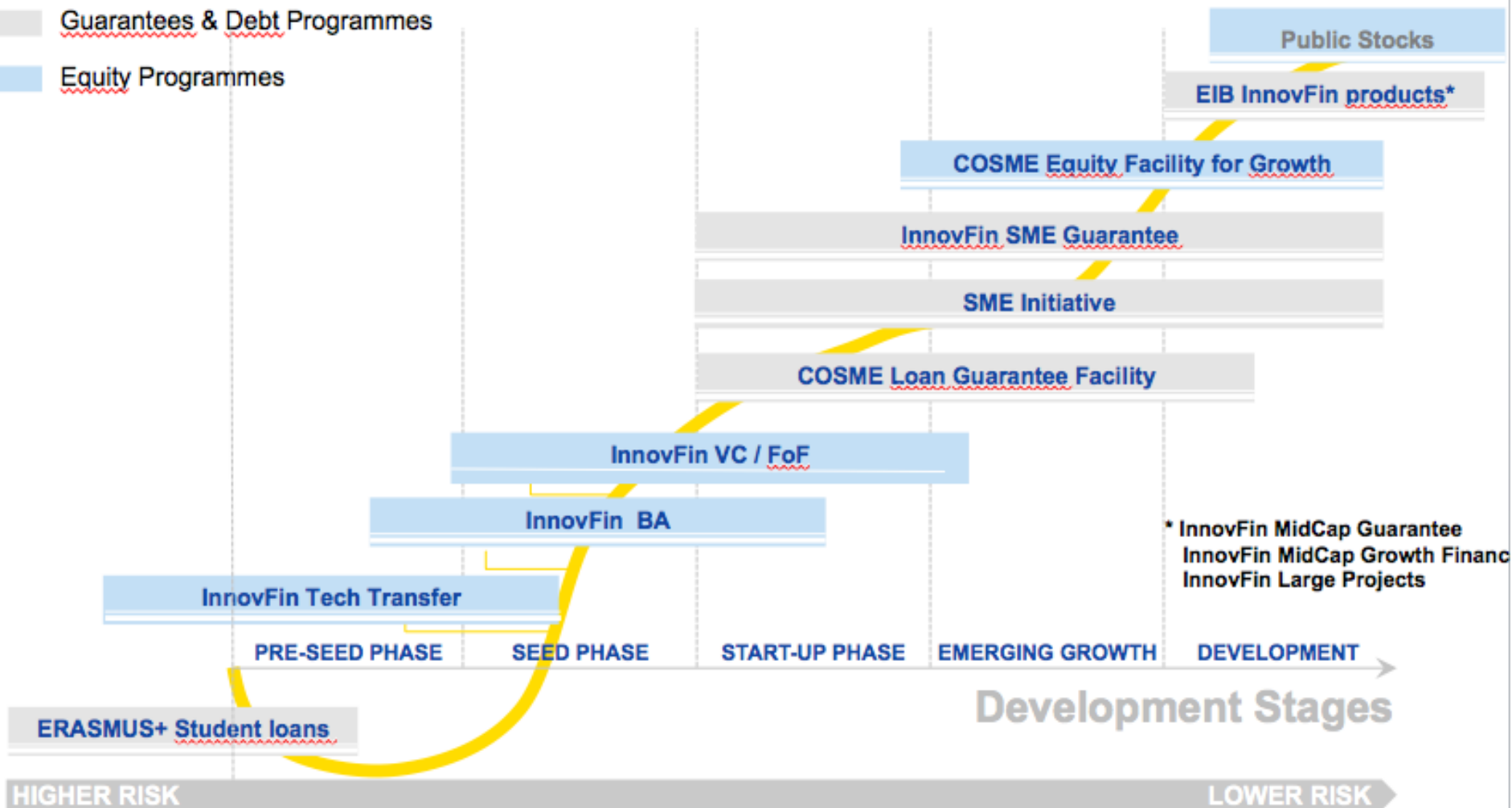
InnovFins/COSME for FCH (EC DG RTD/GROW)

Commission

Financial Instruments Intervention Logic

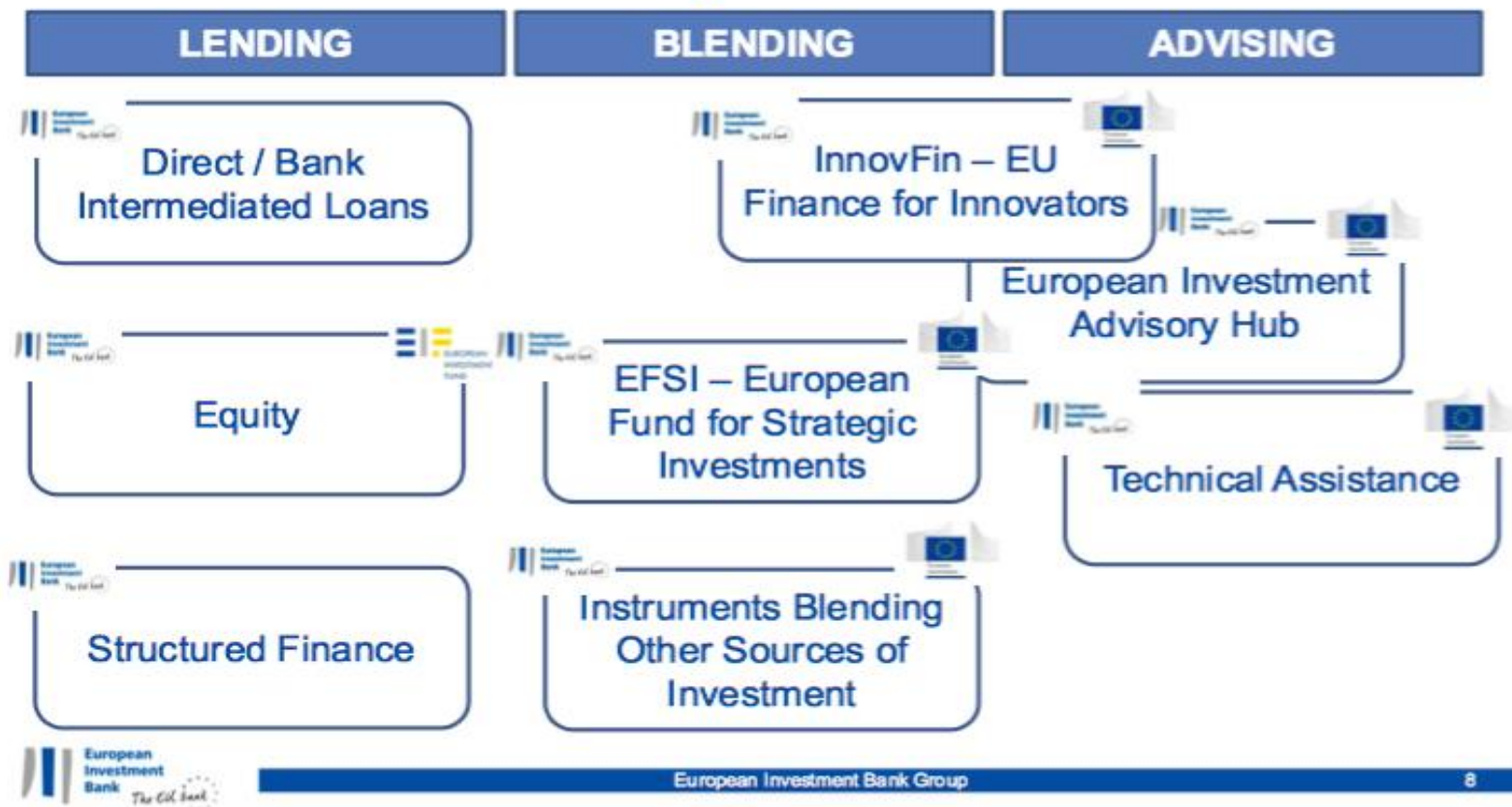
Guarantees & Debt Programmes

Equity Programmes



EIB for FCH

EIB financial and advisory instruments may support sound projects for the deployment of innovative technologies and FCH



Collaboration between EMEC (European Maritime Energy Center) and CENSIS (Innovation Centre for Sensor & Imaging Systems) to support innovation and development of new sensor technologies



Support to sensor innovation

CENSIS assists small and medium-sizes enterprises (SMEs) to develop new innovations together with university research teams and to prepare their technologies to be ready for the market.

EMEC helps to verify the performance to give more credibility to the new product and to get the Environmental Technology Verification (ETV).

Thank you for your attention!

Stay in touch

WEB:

<http://s3platform.jrc.ec.europa.eu/stairway-to-excellence>



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