



Horizonte 2020

Enquadramento do tema ICT

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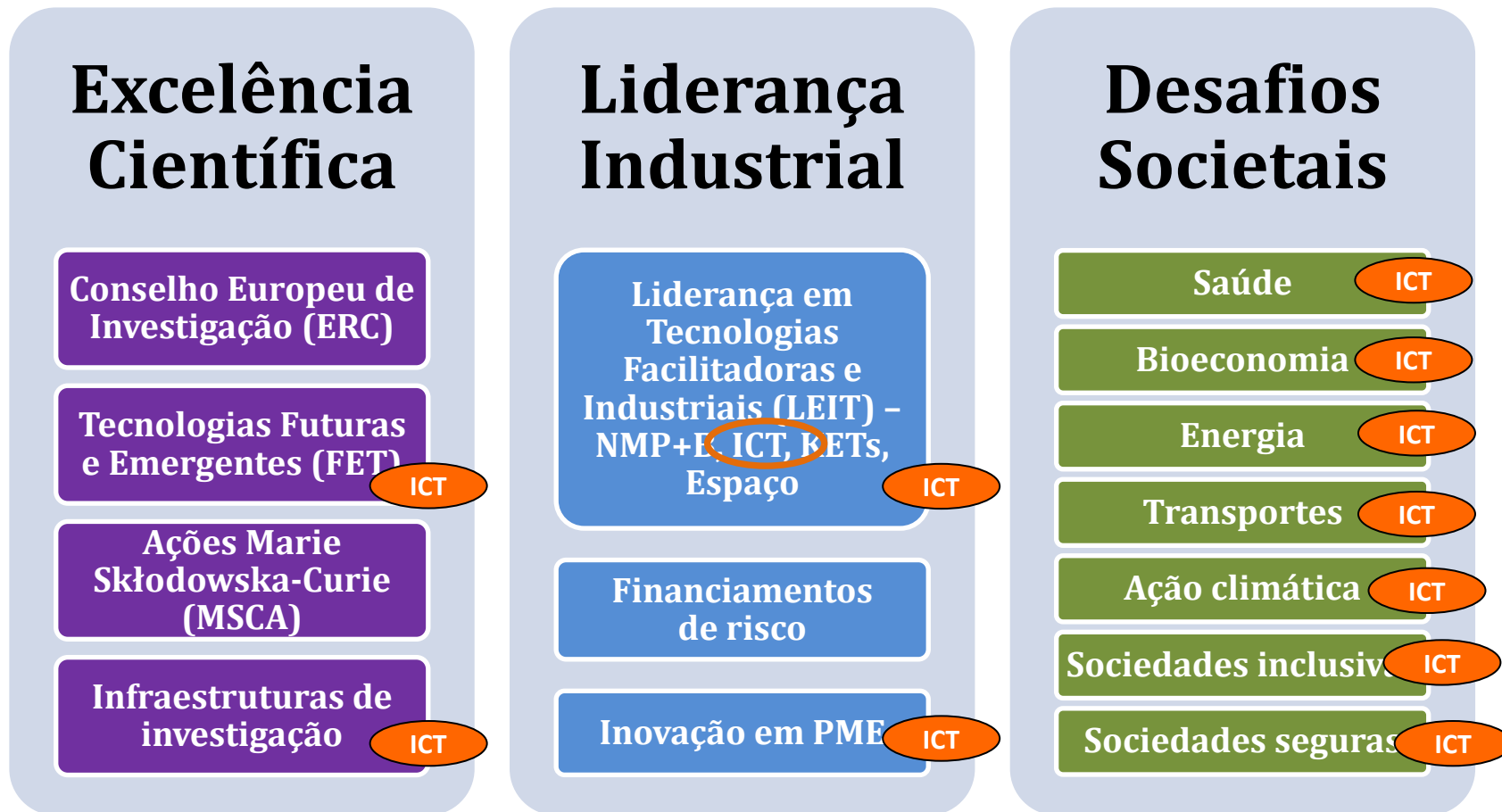
Gabinete de Promoção do Programa-Quadro
www.gppq.fct.pt

Gabinete de Promoção do Programa-Quadro de I&DT

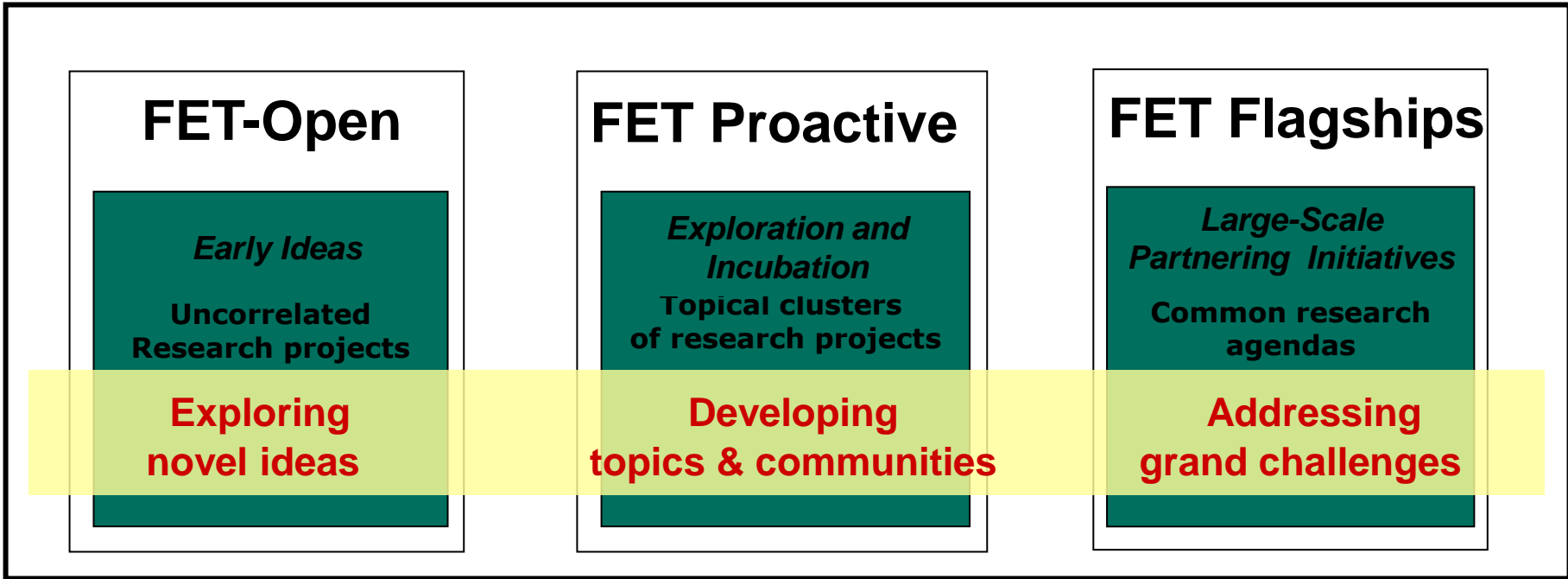


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Investigação, Inovação e Demonstração



FET & ICT



**Qual a forma mais
fácil de ganhar
vantagem sobre
50% da
concorrência no
H2020...**

?

Ler o Programa de Trabalho! (e segui-lo)

Horizonte 2020

Investigação, Inovação e Demonstração

Programa de Trabalho

HORIZON 2020

WORK PROGRAMME 2014 – 2015

- 5. Leadership in enabling and industrial technologies
 - i. Information and Communication Technologies

Concursos

Information and Communication Technologies Calls

H2020 - ICT - 2014
H2020 - ICT - 2015

Proposals are invited against the following topics:

Tópicos

Specific Challenge

Specific Challenge: Cy...
systems that are interco...
providing citizens and businesses with a wide range of innovative...

Scope

Impact

Ações

Types of action:

- a. Research & Innovation Actions – A mix of prop...
contributions is expected
- b. Innovation Actions – A mix of proposals req...
expected
- c. Coordination and Support Actions

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Instrumentos: Ações

Ações de Investigação e Inovação (TRL 3-5) RIA

- ❑ Atividades que criam novo conhecimento e/ou exploram a viabilidade de uma tecnologia, produto, serviço ou solução nova ou melhorada
 - Desenvolvimento de tecnologia e de integração;
 - Teste e validação de um protótipo em pequena escala, em laboratório ou ambiente simulado.

Ações de Inovação (TRL 5-7) IA

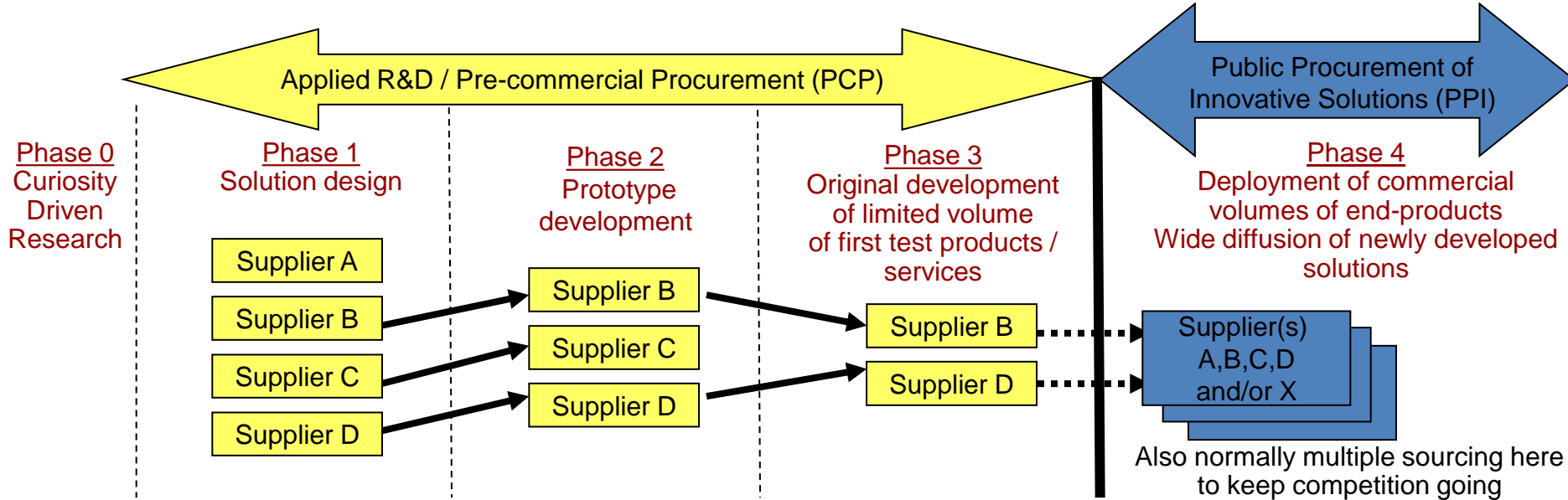
- ❑ Atividades que visam a elaboração de planos, dispositivos ou a conceção de novos ou melhorados produtos, processos ou serviços:
 - Protótipos, testes, demonstradores, pilotos;
 - Validação do produto em grande escala (próximo das condições reais) e replicação no mercado.

Ações de Coordenação e Suporte CSA

- ❑ Criação de redes de coordenação ou de apoio;
 - Diálogo político e exercícios mútuos de aprendizagem incluindo os estudos de conceção de novas infraestruturas;
 - Uniformização, divulgação, sensibilização e comunicação.

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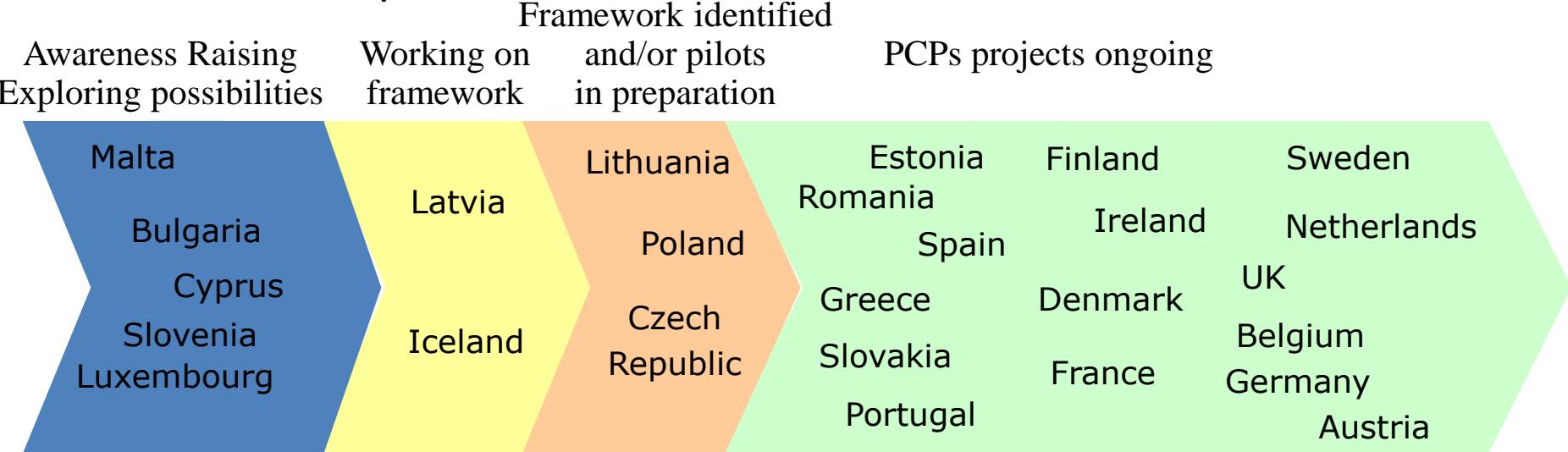
Instrumentos: PCP/PPI



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PCP/PPI - exemplos

Instrumentos: PCP/PPI

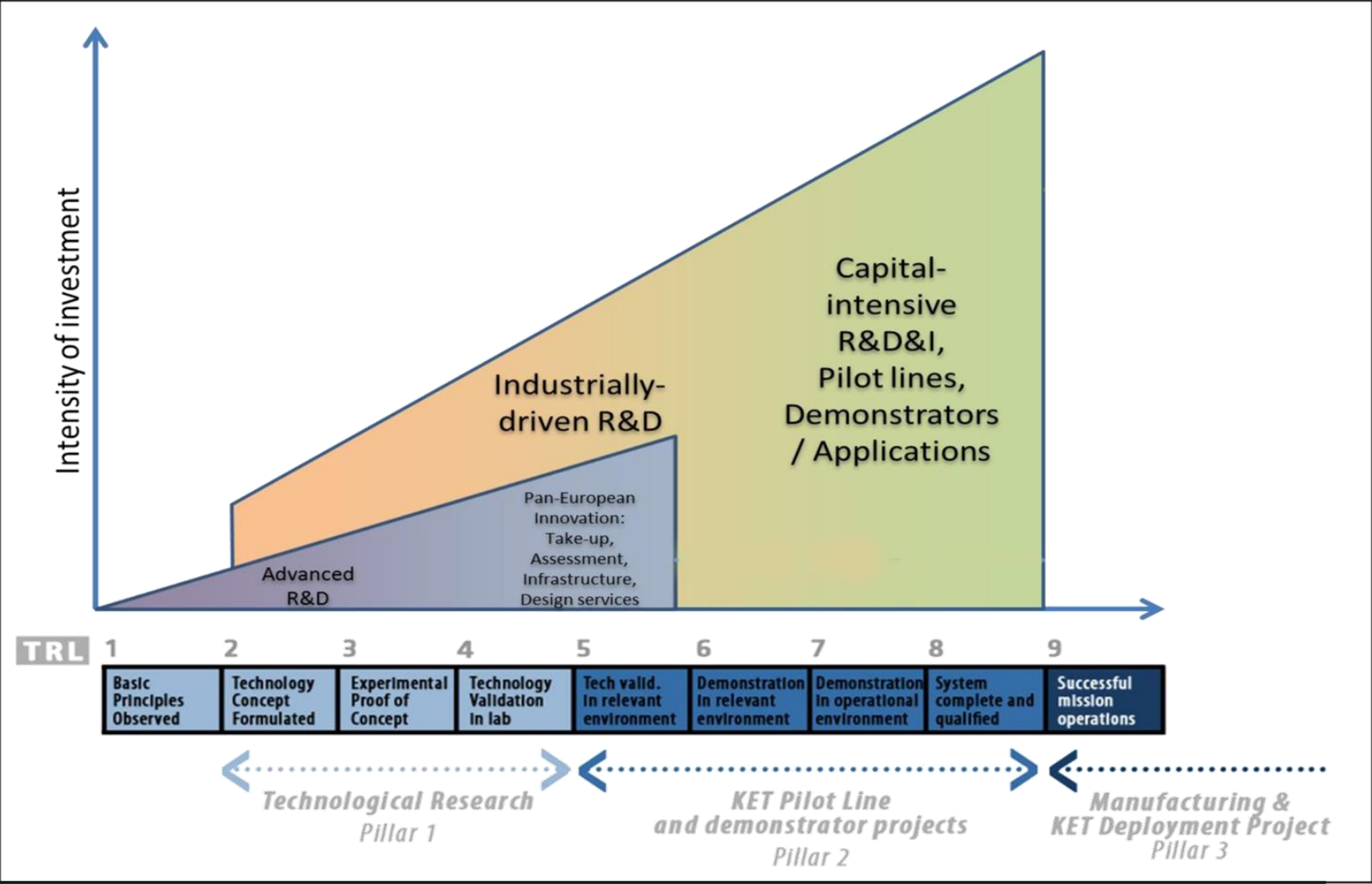


Examples of PCPs done by procurers in countries around Europe without EU support: in Norway, Austria, Italy, Spain, UK, etc
->More Info about national PCP initiatives in Member States: http://cordis.europa.eu/fp7/ict/pcp/msinitiatives_en.html

Examples of on-going EC funded PCP projects in ICT domain doing joint cross-border PCP procurements:
SILVER (Robotics solutions for elderly care), CHARM (Traffic management), V-CON (Virtual Construction / Modelling of Roads), SMART@FIRE (Integrated ICTs for Smart Personal Protective Equipment for Fire Fighters and First Responders), DECIPHER (applications based on Distributed EC Individual Personal Health Records), PRACE 3IP (high energy efficient high performance computing), C4E (Cloud computing), ENIGMA (lighting solutions for cities), IMAILE (e-learning), PREFORMA (long term digital preservation), NYMPHA-MD (mobile care for bipolar disorders), THALEA (telecare for ICU patients), UNWIRED HEALTH (mobile care solutions for vaccination/heart failure patients) ->More info on EU funded ICT domain cross border PCP projects: <http://ec.europa.eu/digital-agenda/en/eu-funded-projects>

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Ciclo de Inovação



Em direção ao Programa de Trabalho 2016-2017

O início - orientação política

Prioridades Europeias

Boost for jobs, growth and investment

Digital Single Market

Energy Union and Climate

Internal Market

Economic and Monetary Union

Migration

Justice and Fundamental Rights

EU as a Global Actor

Iniciativas Europeias

Joint Technology Initiatives ECSEL

Ações COST

Associações Europeias de I&DT

Conferências, documentação de apoio
Roadmapps, Planos de Ação

Contributo espontâneo
dos skateholders (reuniões, consultas)

Experiência dos concursos anteriores
e programas-quadro anteriores

Joint Programming Initiatives
Urban Europe

PPPs – Parcerias Público-Privadas
Big Data, HPC, Robotics, Photonics,
5G PPP, FoF, FI, Big Data, Cybersecurity?

Parcerias Europeias da Inovação (EIP)
Smart Cities & Communities

European Technology Platforms
ARTEMIS, ENIAC, EPoSS, ETP4HPC,
euRobotics, NEM, NESSI,
Network 2020, Photonics21

ERA-NET
FLAG-ERA, Smart Cities & Communities
Smart Grids Plus

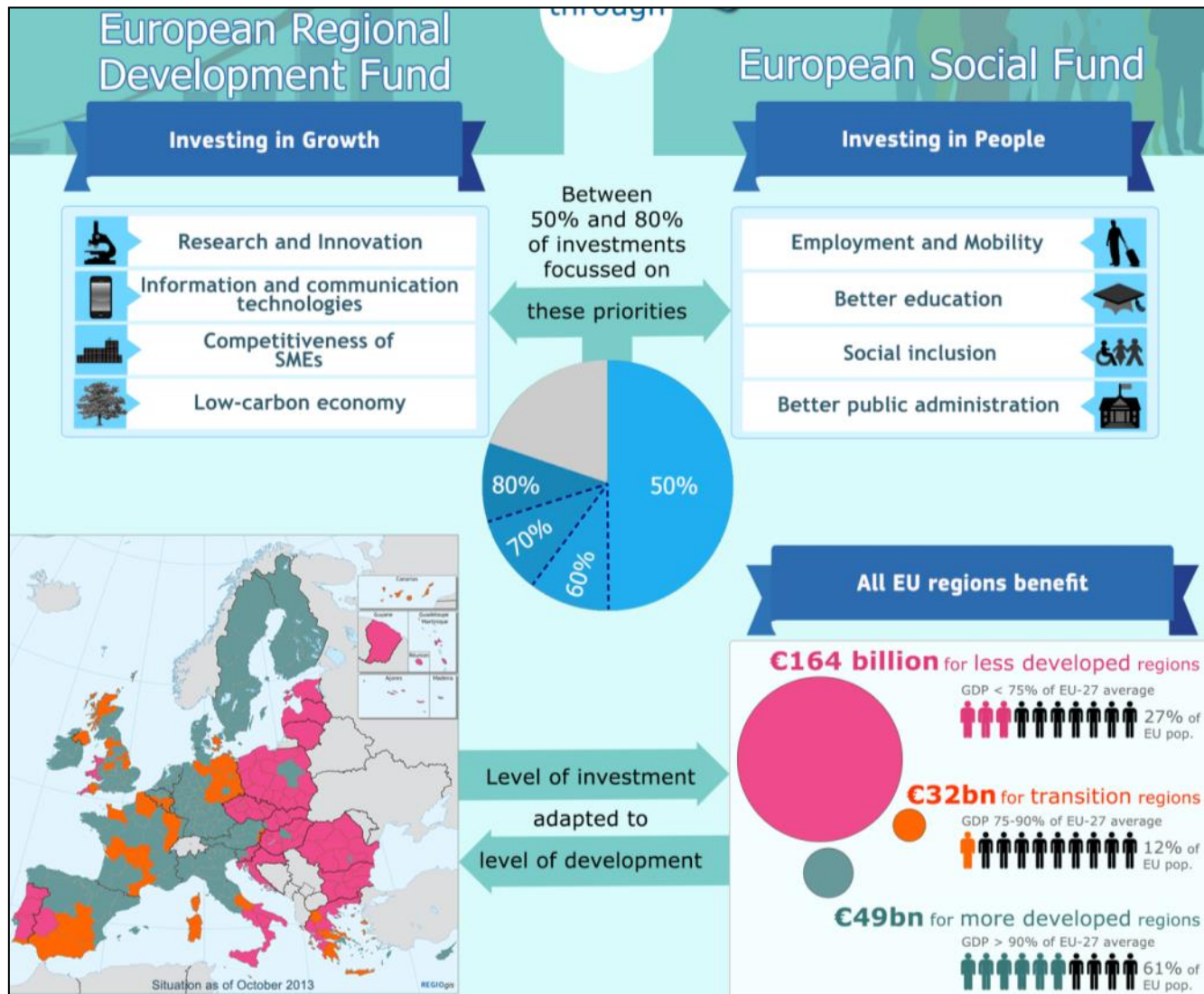
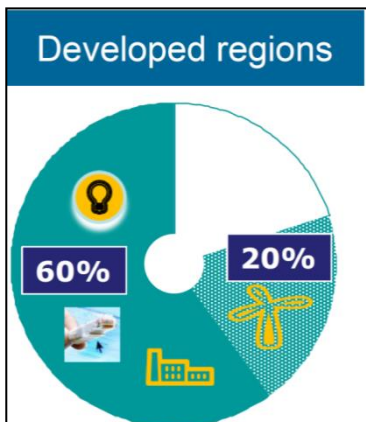
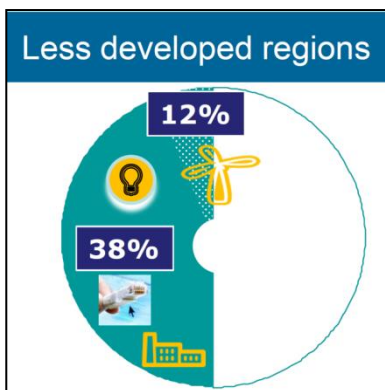
Estados-Membros (Comités dos Programas)

CAF – Connect Advisory Groups

Análise e Discussão pela Comissão Europeia

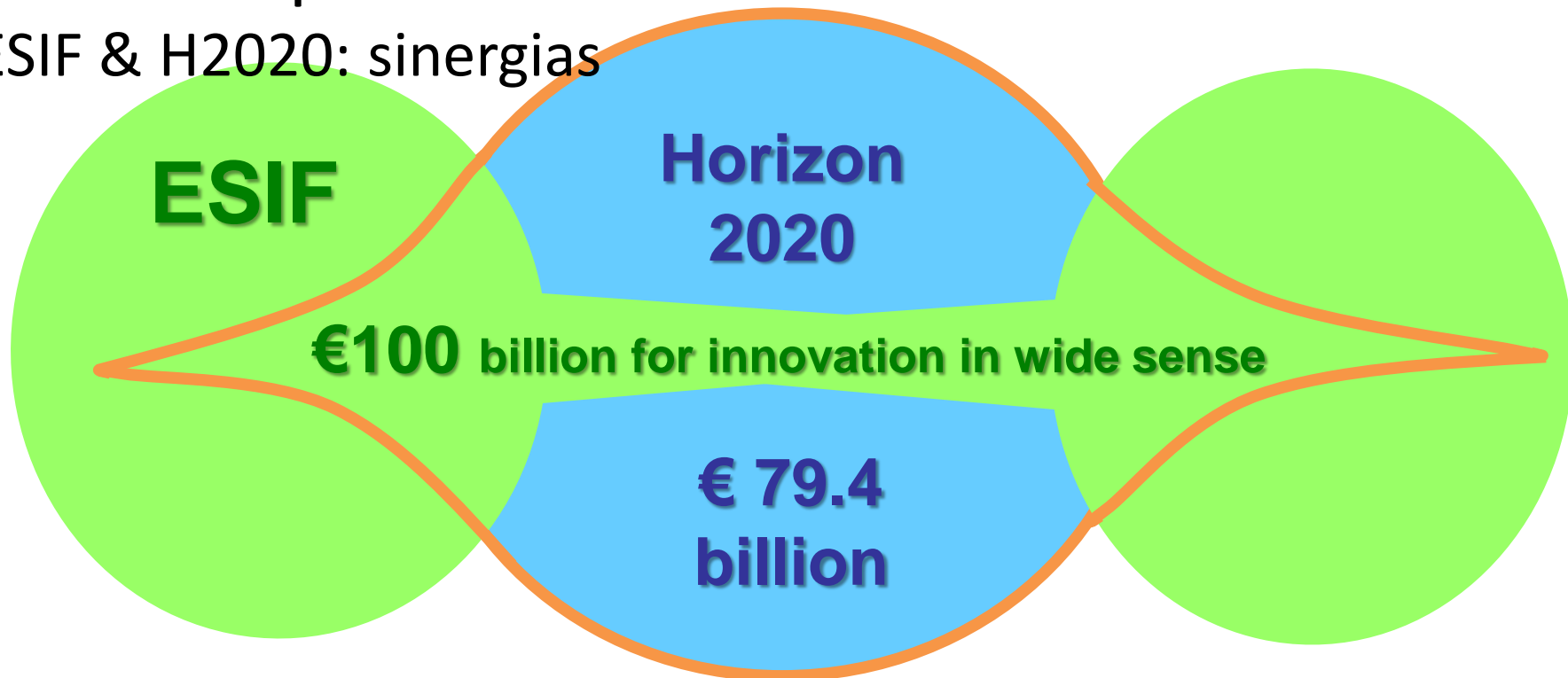
Desafios: para além do H2020

ESIF



Desafios: para além do H2020

ESIF & H2020: sinergias



"Stairway to Excellence"

"Research Excellence"

Hopefully also excellence, but "Innovation Excellence"

National/Regional R&I systems

Capacity Building

"Up-stream"

Research & Development

Innovation

Market

"Down-stream"

Desafios: para além do H2020

Outros fundos



- **All ESI Funds** (ERDF, ESF, Cohesion Fund + ETC = € 325 billion, EAFRD = €85 billion, EMFF= €5.5 billion)
- **COSME** for SME competitiveness, financial instruments, business support services, etc.: € 2 bn
- **Erasmus+** for students, teachers, pupils mobility + training: €14.5 bn
- **Creative Europe** for culture and creative industries: €1.4 billion
- **Digital service part of CEF** for EU wide e-government platforms to roll-out e-ID, eProcurement, electronic health care records: €0.85 billion

Also of interest with regard to take-up of eco-innovation, uptake of climate-related R&I results, but not covered in guide:

- **LIFE** programme for environment and climate, incl. financial instruments: € 3,4 billion
- **Programme for Employment and Social Innovation** ("EaSI"): € 0.92 billion

See annex I to CPR: Common Strategic Framework (CSF)



Desafios: para além do H2020

I4MS: ICT Innovation for Manufacturing SMEs

Four areas:

- HPC Cloud simulation
- Laser technologies
- Smart sensors
- Robotics

Typical project structure:
IP/large IA

<http://i4ms.eu/>

I4MS

