



AGÊNCIA NACIONAL
DE INOVAÇÃO

Synergies H2020 & ESIFs Research Infrastructures

Portugal's experience

RegHealth-RI | Zagreb - Croatia | May 30th, 2016

Technological Infrastructures in Portugal

ANI's role in the Portuguese innovation system

Support to Technological Infrastructures

Conclusions and recommendations

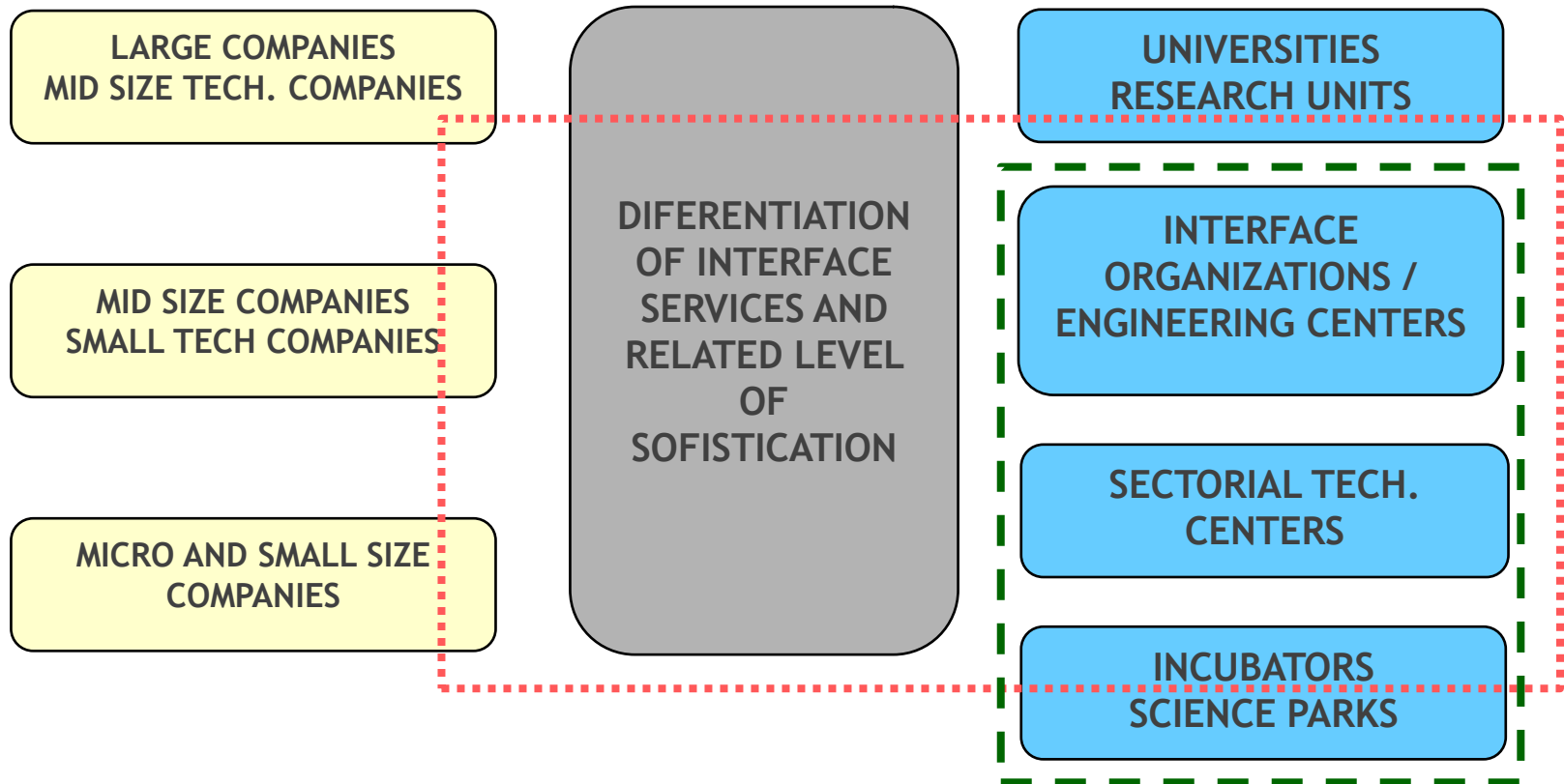
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ANI SCOPE



Technological Infrastructures Network

TECHNOLOGICAL INFRASTRUCTURES IN PORTUGAL

Historical Evolution (simplified)

1965: ISQ - Instituto de Soldadura e Qualidade

1986: UNINOVA
 1986: CTCP - Shoemaking industry
 1986: INEGI - Mechanical Engineering and Industrial Management
 1987: CTCV - Ceramics and Glass
 1987: CATIM - Metalworking Industry
 1987: CTCOR - Cork
 1989: AIBILI - Biomedical R&I Association on Light and Image
 1989: IBET - Experimental and Technological Biology
 1989: CITEVE - Textile and Clothing Industries

2000: INOV-INESC
 2001: INESC MN - Nanotechnologies
 2001: IT
 2001: PIEP - Polymers Engineering
 2002: CVR - Waste recovery
 2003: Biocant
 2005: INL - Nanotechnologies
 2006: ITeCons - Building industry and sciences
 2006: CeNTITVC - Material sciences
 2008: Fraunhofer Portugal Research Association

1990: CEVALOR - Ornamental and industrial stones
 1990: AEMITEQ - Technological Innovation & Quality
 1990: IPN - S&T&I Development
 1991: CENTIMFE - Moulding, Special Tooling and Plastics
 1992: CTIC - Leather industries
 1993: CCG/ZGDV - Computer graphics
 1996: RAIZ - Forest and paper
 1998: INESC TEC - Systems Engineering and Computer
 1999: INESC Coimbra - Systems Engineering and Computing
 1999: INESC-ID - Systems Engineering and Computer
 1999: CEiA - Automobile industry

2015: I3S - Health R&I

1960-1970

1970-1980

1980-1990

1990-2000

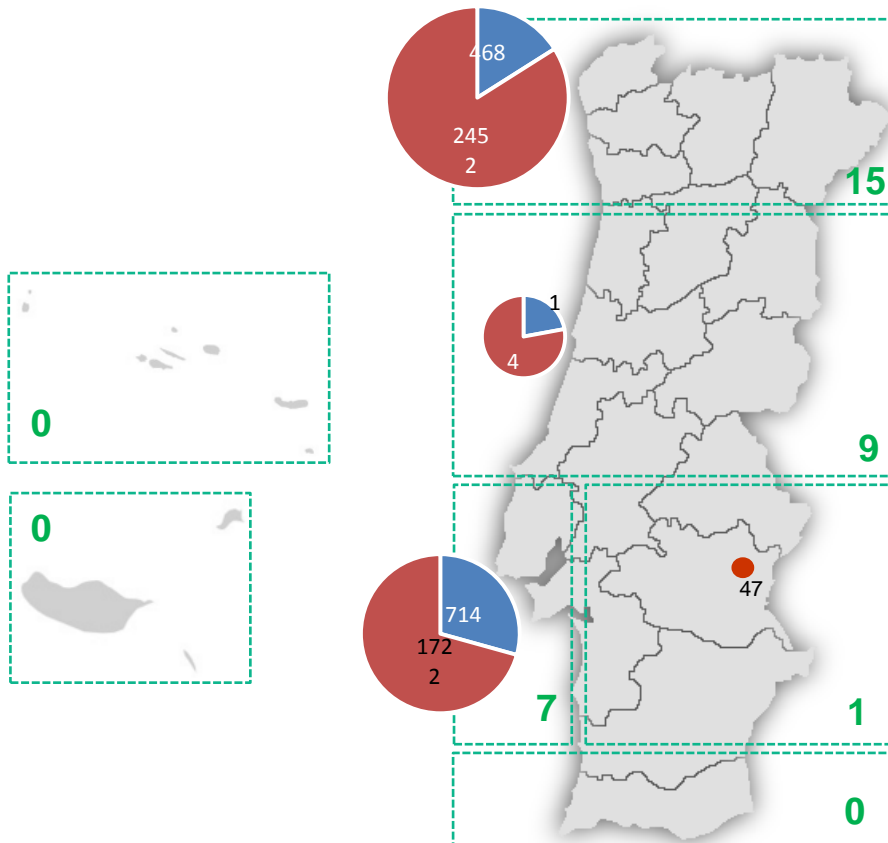
2000-2010

2010-2016

1980: INESC
 1989: INEB
 1989: IPATIMUP

1997: IBMC

Number of Infrastructures per national region



Total Technological Infrastructures	Dimension (number of employees)
32	5.950

Employees PhD	Business Vol. (M€)
1.300	140

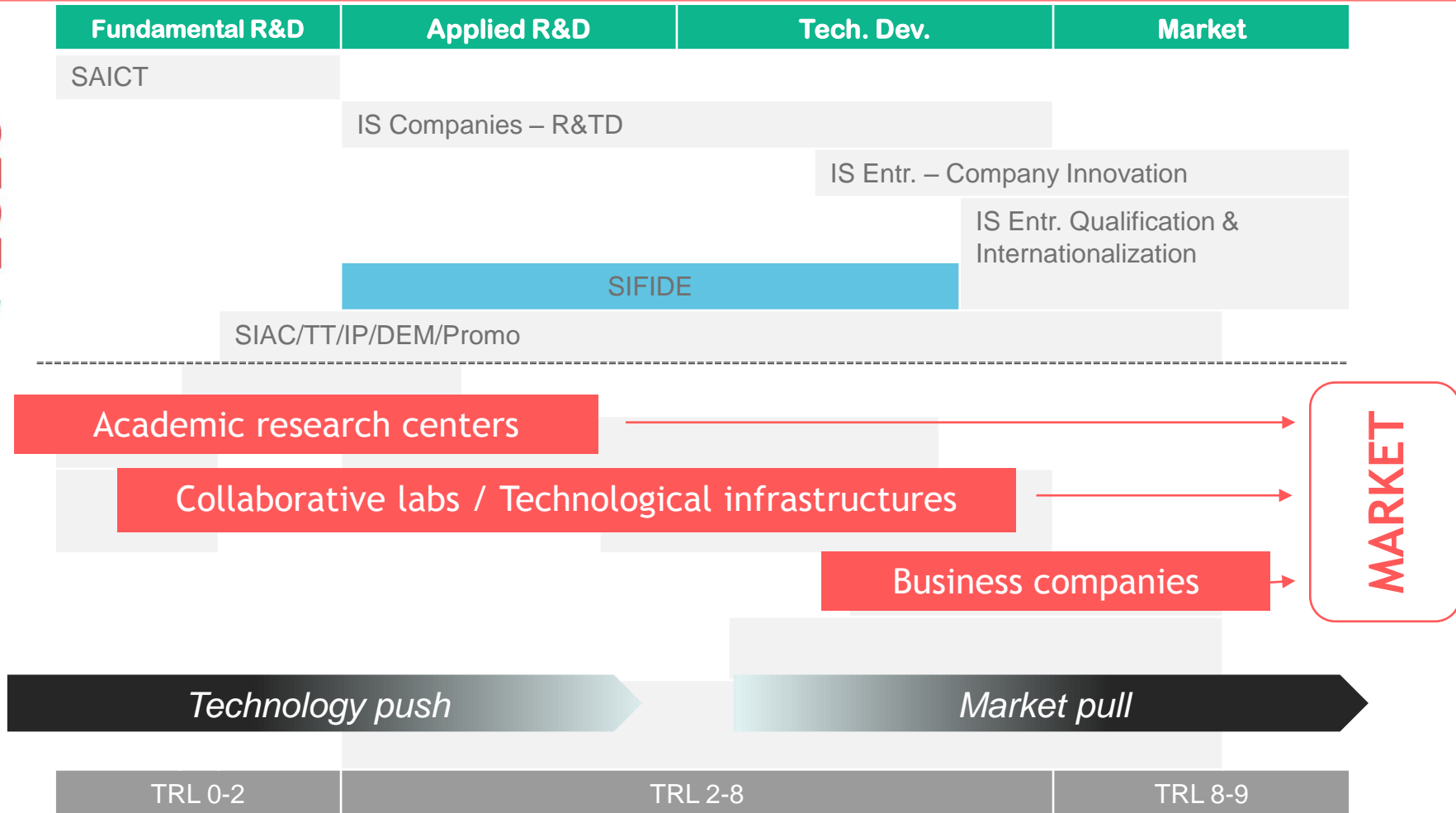
■ Staff with PhD ■ Staff not holding a PhD

TECHNOLOGICAL INFRASTRUCTURES IN PORTUGAL

Integrated approach to the R&I cycle

PORTUGAL
2020

Drivers
Entities



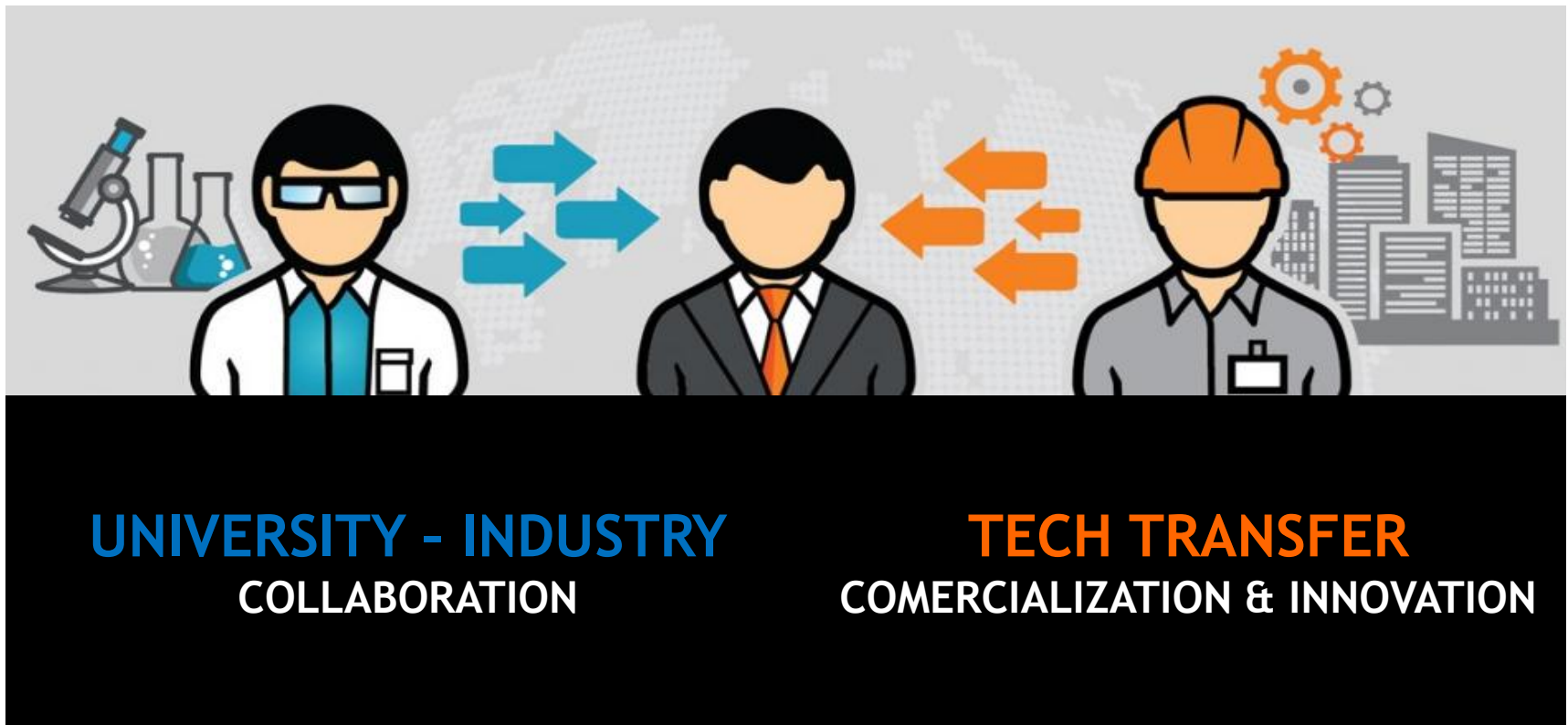
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Enhancing collaborative innovation



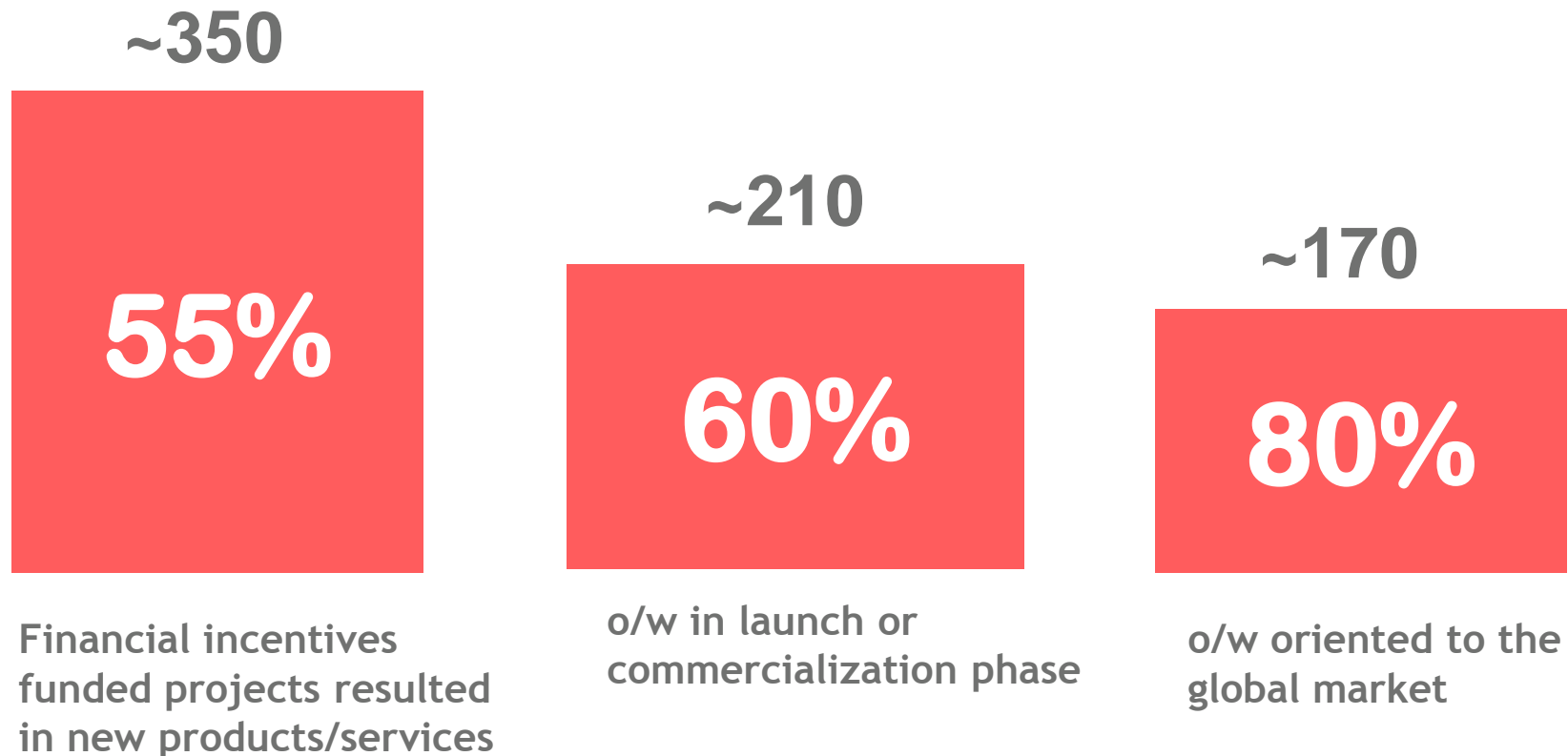
Outputs & Economic Impact - Highlights (2008-2016)

7.415 No. supported applications

1.250M€ tax benefits

392M€ financial incentive

Outputs & Economic Impact - Highlights (2008-2016)



Outputs & Economic Impact - Highlights (2008-2016)

143 ipr assets patents
utility models

455 post-grad degrees MSc
PhD

~2.700 jobs ~60% in R&I Institutions
~40% Companies

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FUNDING CATEGORIES	2000-2006	2007-2013	2014-2020
Demand-side activities	X	X	X
Supply-side activities (indexed to contractual activity)	X	X (very limited)	X (under preparation)
Creation, restructuring and retrofitting	X	X (very limited)	X (under preparation)

FUNDING CATEGORIES	INSTRUMENTS
Demand-side activities	ESIF (PT2020): R&TD; Innovation, vouchers, Collective Actions Support System Horizon 2020
Supply-side activities (indexation to contractual activity)	Collective Actions Support System (without Exploratory R&D and training) Horizon 2020 State Budget
Creation, restructuring and retrofitting	New Instrument, subject to the carrying-out of mapping of the technology infrastructure

- **Regulated financing model**, able to:
 - ensure that the results are interesting to companies
 - center activity in areas where there is market failure
- **Maximize sources of financing** with Structural Funds
- A set of instruments able to encouraging the **flow of new knowledge all along the innovation cycle** (coordination and integration)
- Index financing **by activity type and not by type of entity**

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1. **Portugal w/ complete set of Technological Infrastructures**
covering the relevant innovation cycle phases
2. **TIs play a major role in establishing RDI networks**
coordinating strategies, agendas and fund sourcing initiatives
3. **TIs are fostering collaboration w/ industry through ESIF**
Clusters, International Initiatives and Portugal 2020 Collaborative R&D projects
4. **Need to organize and boost the national network of TIs**

- 5. Incentives to policy makers and member state authorities**
dedicated training and incentives should be given to policy makers, managing authorities and intermediary bodies at member state level
- 6. DG Regio should play a pivotal role**
for Member States to bindingly develop specific regulations and instruments for the roll-out and adoption of mixed-funding instruments
- 7. Minimize the number of instruments and applications!**



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Thank you!
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