

Maive Rute, Deputy Director-General



Structure

 JRC - the European Commission's science and knowledge service

JRC in Horizon Europe

Support to R&I policies in the EU

JRC's Mission

As the science and knowledge service
of the Commission our mission is to support
EU policies with independent evidence
throughout the whole policy cycle



JRC Role: facts & figures

€ 386 million Budget annually, plus € 62 million earned income

Independent of private, commercial or national interests

30% of activities in policy preparation, **70%** in implementation

125 instances of support to the EU policy-maker annually

More than **100** economic, bio-physical and nuclear models



6 locations in 5 Member States: Italy, Belgium, Germany, The Netherlands, Spain

Policy neutral:

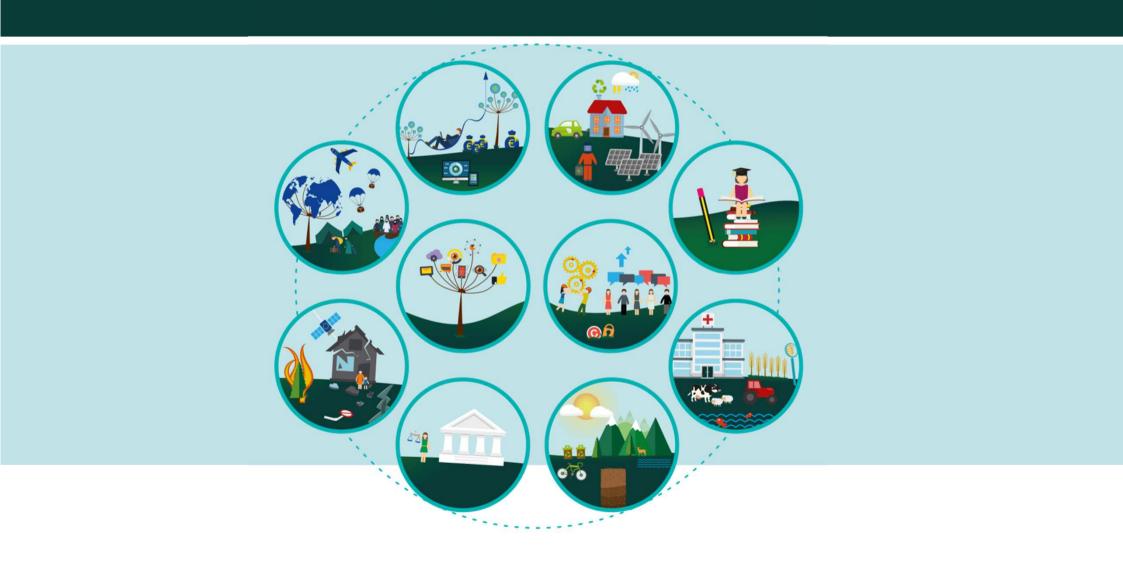
has no policy agenda of its own

42 large scale research facilities, more than 110 online databases

83% of core research staff with PhD's

Over 1,400 scientific publications per year

Focus on political priorities



JRC in Horizon Europe

Specific objectives of the Programme



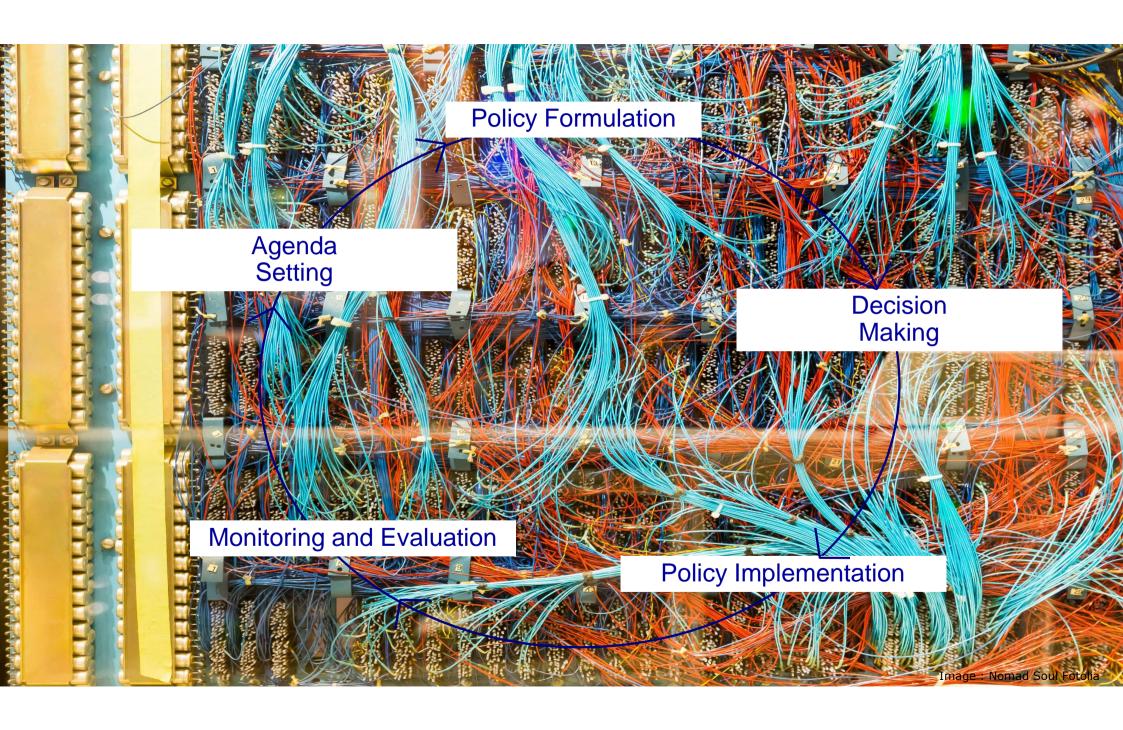
JRC in Horizon Europe

- Providing the cross-sectoral support that policymakers need to tackle increasingly complex societal challenges
- Capacity to respond rapidly to policy needs
- Activities complementary with indirect actions aiming at supporting longer term policy objectives
- Excellent and multi-disciplinary science; independent of national, private and other external interests
- Synergies with Member States' research

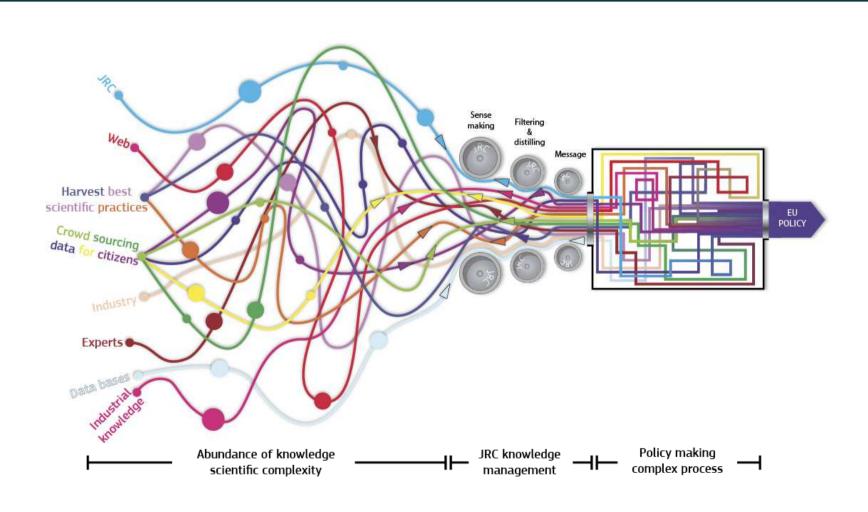
JRC in Horizon Europe

- Strengthening the knowledge base for policy making
- Scientific excellence and extensive collaboration with top level research institutions worldwide
- Research in emerging fields of science and technology
- Promoting open science and open data and knowledge transfer
- Access to JRC research infrastructures
- Training of scientists and experts





Dealing with the information overload



Knowledge Centres

Disaster Risk Management Knowledge Centre Knowledge
Centre on
Migration and
Demography

Knowledge
Centre for
Territorial
Policies

Knowledge
Centre on
Bioeconomy

Knowledge Centre for Food Fraud and Quality













Competence Centres

Competence
Centre on
Composite
Indicators and
Scoreboards

Competence
Centre on
Microeconomic
Evaluation

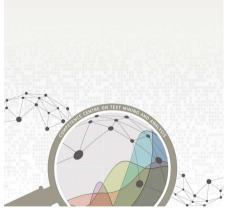
Competence
Centre on
Text Mining
and Analysis

Competence
Centre on
Modelling

Competence Centre on Foresight

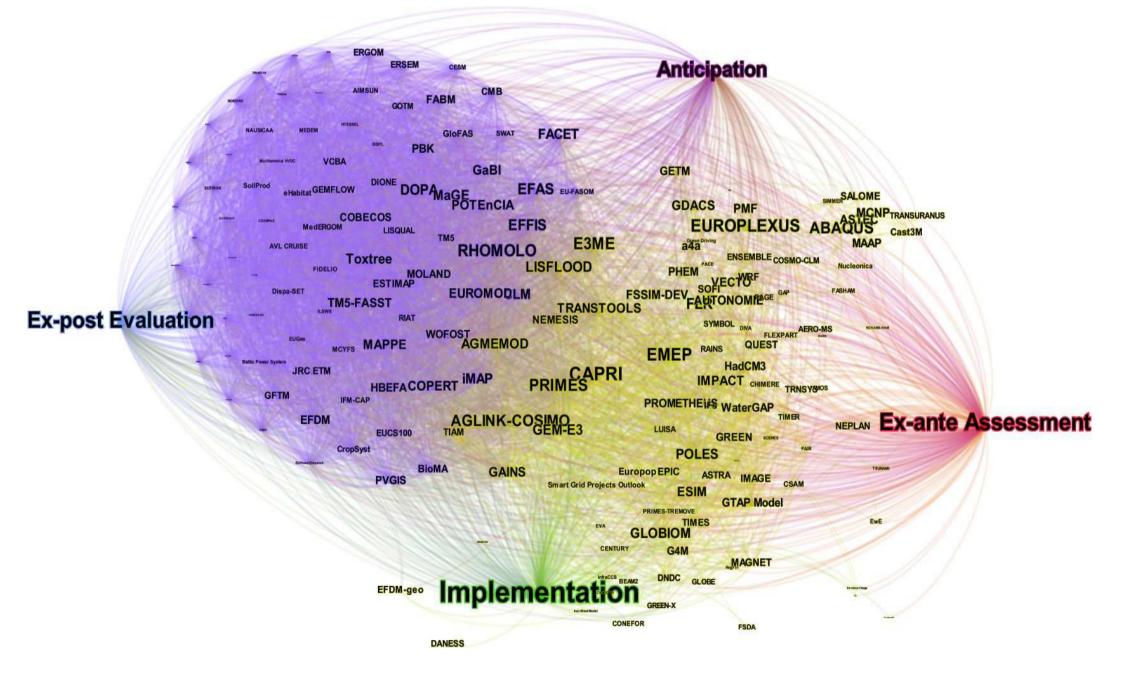




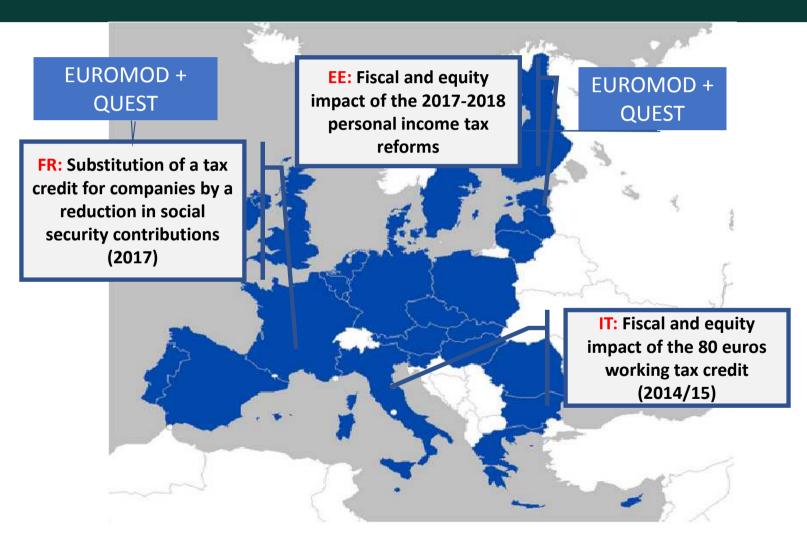








Examples of EUROMOD analyses for the European Semester



Competence Centre for Technology Transfer

to be launched in November



ACTIVITY AREAS

TT PRACTICES & CAPACITY BUILDING

- Expertise in R&D commercialisation
- Host know-how & tools generated by FP
- Support capacity building
- Share best practices
- Develop community of practitioners
- Link to S3 and RIO

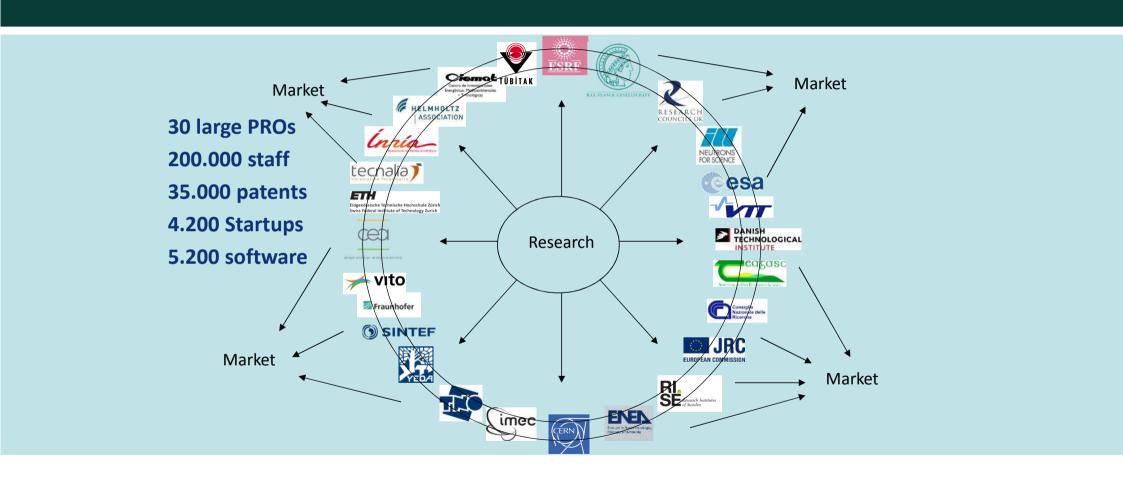
FINANCIAL INSTUMENTS FOR INNOVATION

- Expertise on financial instruments
- Proof of Concept
- Innovation loans, equity & guarantees
- Research on IP collateralisation, securitisation, royalty buyouts, etc.

INNOVATION ECOSYSTEMS AND CLUSTERS

- Expertise on science and technology parks
- · incubators and accelerators
- University and RTO technology transfer offices
- Private/Public/PPP/Concessi ons and leases
- Share best practices
- Diagnostics and evaluation

European TTO Circle



JRC support to Research & Innovation policies

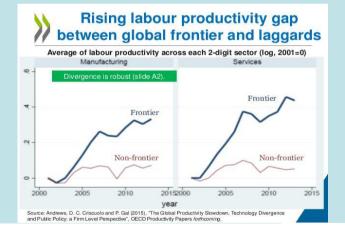


European Conference on Corporate R&D and Innovation (CONCORDI)



Global Industrial Research Dynamics:

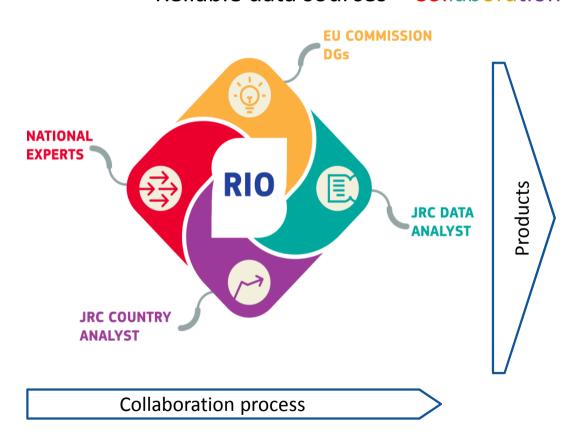






Research and Innovation Observatory (RIO) 1/2

Reliable data sources + Collaboration



- Analysis and Assessment of R&I policy in EU 28 MS: the "RIO Country Report"
- Key Indicators per Country
- Cross-Country analysis of specific themes
- Policy documents
 Repository

Research and Innovation Observatory (RIO) 2/2

All published on the **RIO website**



Info for:

- Policy makers
- Early input to the European Semester
- Researchers
- General public



Regional Innovation Impact Assessment Framework

Provision of leadership

Knowledge infrastructure

Social environment

Indicator portfolio

Regional orientation, strategic development and knowledge infrastructure

Tailor made RIA profile could feed into a university level case study: a "narrative with numbers"

Capital investment

Human capital creation

Entrepreneurship and support to enterprise development

Education and human capital development

Regional development level

Source: adapted from Goldstein and Renault (2004)



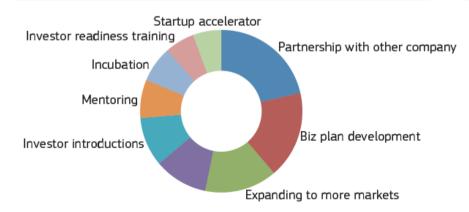
Innovation Radar 1/2

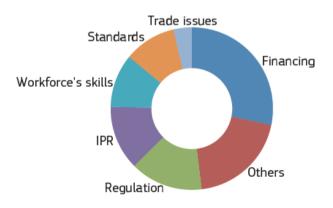
- Since 2014, using <u>JRC methodology</u>, the <u>Innovation Radar</u> has identified over 3000 innovations in FP7 and H2020 projects
- Additional information on innovators' needs helps to support the innovators by suggesting a range of targeted actions that can assist them in fulfilling their potential in the market place

The Challenge of Getting to the Market

Innovators' needs to fulfil the market potential of their innovations

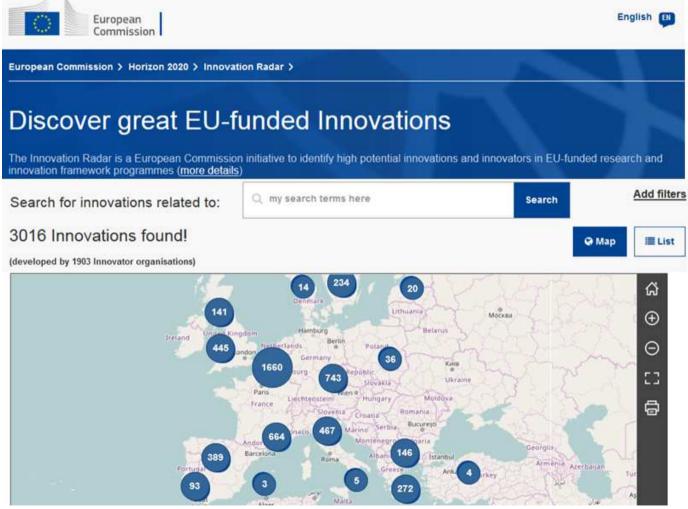
External bottlenecks that compromise the ability of project partners to exploit innovations







Innovation Radar 2/2



- Easy online access to innovations supported by EU funding and the innovators behind them
- Innovation Radar Declaration signed by 19 EU countries to foster a dynamic ecosystem around EU research and innovation funding
- The use of the Innovation Radar will continue during the Horizon Europe programme

The 2017 EU R&D SCOREBOARD 1/3

Understanding the scale and dynamics of industrial R&D at the firm level

Since 2004



Top R&D investors, in 2017:

World-2500; €742bn

Focus on EU-1000: €193bn

Sources

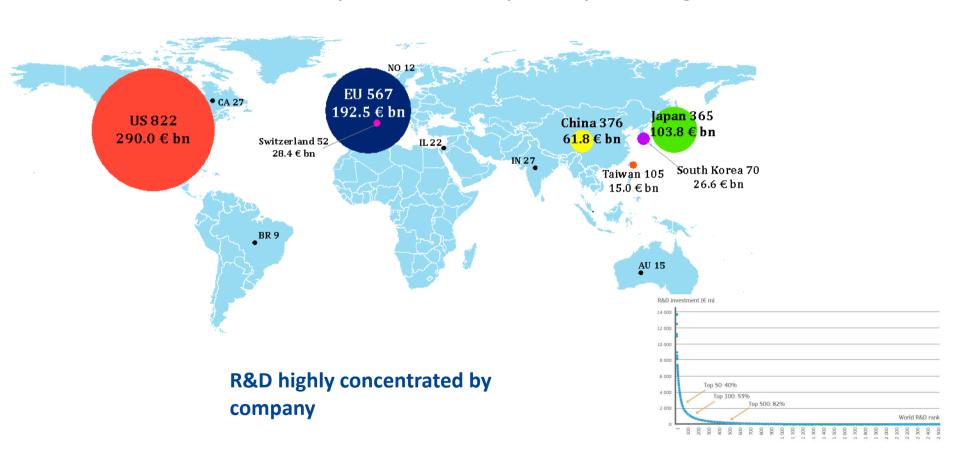
R&D and financial indicators from audited company accounts

Data items

R&D, net sales, profits, capex, employees market cap and ownership structure, patent portfolio

The 2017 EU R&D SCOREBOARD 2/3

Number of companies and R&D by country/world region



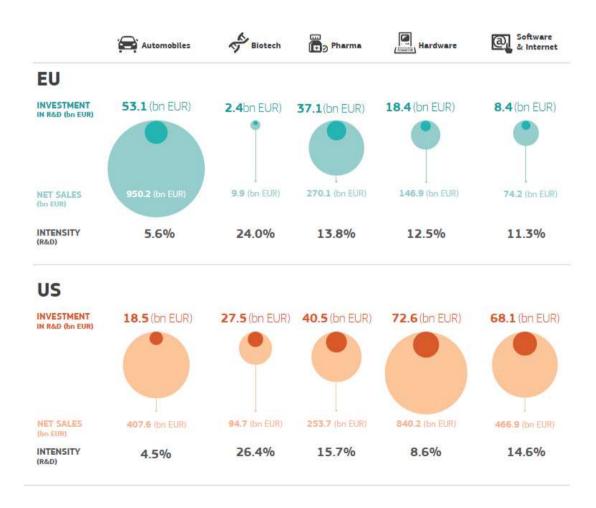
The 2017 EU R&D SCOREBOARD 3/3

The EU/US R&D intensity gap in the business sector

Source: The 2017 EU Industrial R&D

Investment Scoreboard

R&D INVESTMENT, NET SALES AND R&D INTENSITY (KEY SECTORS)



Thank you!



https://ec.europa.eu/jrc/en

- @EU_ScienceHub
- **f** EU Science Hub Joint Research Centre
- in Joint Research Centre
- EU Science Hub

Carreer opportunities:

https://ec.europa.eu/jrc/en/working-with-us/jobs

EPSO: https://epso.europa.eu ESRA: https://recruitment.jrc.ec.europa.eu