

# Joint Research Centre (JRC)

The European Commission's in-house science service



2014

# The JRC in the Commission



President Jean-Claude Juncker

27 Commission Members

... DG Environment

DG Climate Action

DG Agriculture and Rural Affairs

DG Mobility and Transport

DG Energy



Commissioner Tibor Navracsics  
*Education, Culture, Youth and Sport*

Joint Research Centre (JRC)

DG Education and Culture

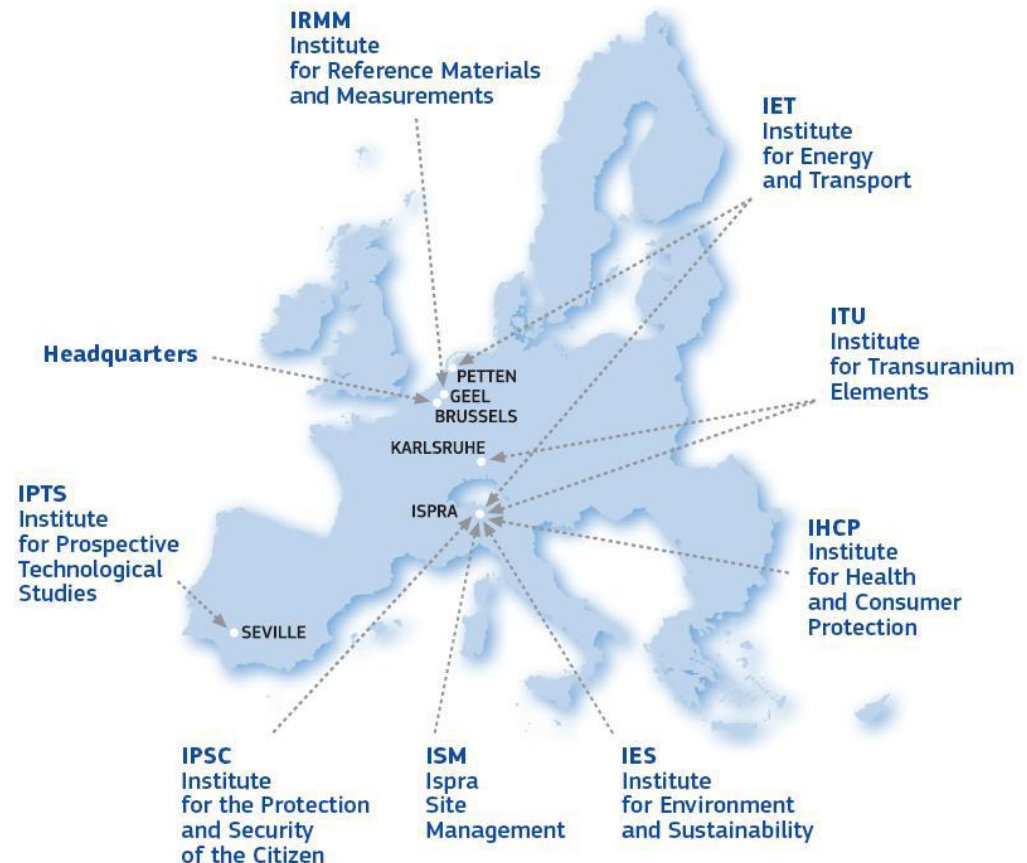


JRC Director-General  
Vladimir Šucha

## Quick Facts:

Established 1957

- 7 institutes in 5 countries
- 2 822 scientific, technical and administrative personnel
- 1 200 contributions to EU Policy
- 684 peer-reviewed scientific publications in 2013
- Budget: €381 million annually, plus €82 million earned income



JRC's structure

# JRC's Mission and Role

**... is to provide EU policies with independent, evidence-based scientific and technical support throughout the whole policy cycle.**

## **Direct research:**

**JRC is the European Commission's in-house science service and the only DG executing direct research; providing science advice to EU policy.**



***Serving society, stimulating innovation, supporting legislation***

## Key priorities

- **Economic and Monetary Union (EMU)**
- **Internal market: growth, jobs and innovation**
- **Low-carbon economy and resource efficiency (environment, climate change, energy, transport)**
- **Agriculture and global food security**
- **Public health, safety and security**
- **Nuclear safety and security**

*Providing the needed scientific support to the Europe 2020 policy priorities.*



# Cross-cutting activities

- **Policy analysis**
- **Impact assessment**
- **Foresight and horizon scan**
- **Economic modelling**
- **Knowledge Transfer**
- **Education and Training**



# A Networked Organisation

**1000+ partners: public and private organisations, institutions and expert groups**

**250 major networks worldwide:**

- **Cooperation and partnerships with key organisations**
- **Support to enlargement**
- **Training and mobility of researchers**
- **Access to scientific infrastructures**
- **Support to European Research Area policies**
- **Support to standardisation**
- **Forum for Science and Industry with DG ENTR**



European Research Area



# JRC's Institute for Prospective Technological Studies







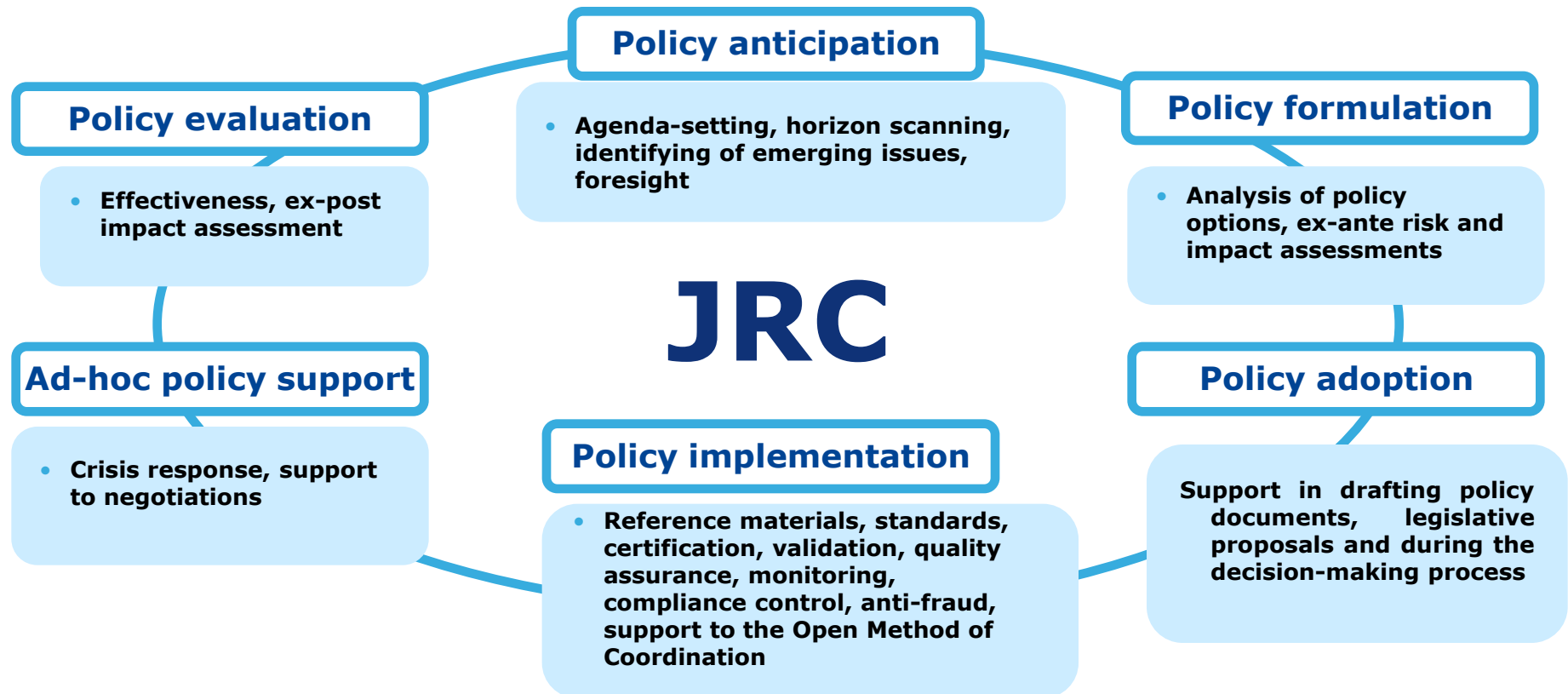
The JRC-IPTS came to Sevilla in 1994

- to engage in future-oriented studies concerning new and emerging technologies, hence the name “prospective technological studies”

The JRC-IPTS has evolved into a **Policy Studies Institute**

- providing socio-economic and policy research and analysis needed to support evidence-based EU policy making
- our research tools are increasingly focused on quantitative economics

# JRC's support the EU policy cycle





## **A. Knowledge Economy (~25% of our research effort)**

- to contribute to the assessment of the impact of EU Innovation Union and Cohesion policies on growth and employment.

## **B. Digital Economics and Digital Society (~15%)**

- socio-economic research focused on the seven pillars of the Digital Agenda including the creation of a Digital Single Market.

## **C. Agriculture (~15%)**

- to analyse contribution of the agricultural sector to EU's innovation and growth.

## **D. Climate change, energy and transport (~15%)**

- To focus on the economics of climate change, energy and transport policies and related markets.

## **E. Sustainable Production and Consumption (~15%)**

- to support EC policies on SPC and lower carbon economic system

## **E. Innovation System Analysis (~15%)**

- to operate an observatory on research and innovation



## Conducting policy studies

- currently ~35% of our business

## Developing and running Economic Models

- currently ~35% of our business (and growing)

## Providing policy intelligence platforms

- currently ~20% of our business

## Managing techno-economic bureaux

- currently ~10% of our business

# Overview of research lines



**Smart Specialisation Platform**

**Research & Innovation Observatory**

**Digital Single Market and Digital economy**

**Regional and Cohesion Policy Modelling**

**Country & Policy analysis**

**ICT sector Industrial analysis**

**Monitoring Industrial Research & Innovation**

**RIO Statistics and Studies**

**Digital Competences, Learning and Skills**

**Modelling Tax Reforms**

**Support to the e-Health Action Plan**

**Knowledge for Growth**

**Innovation System Analysis**

**Digital Agenda**

*policy studies*

*intelligence platforms*

*Joint Research Centre*

*bureaux*

*economic modelling platforms*

# Overview of research lines



**Modelling Agro-economic Commodity and policy analysis**

**Long term Economic Projections**

**Product Policy Analysis & Support**

**Policy analysis, Impact Assessment & Economic Modelling**

**Trade of Carbon Intensive Commodities**

**Environmental Economic Modelling**

**Co-Existence Bureau (and Socio-economic impacts of innovation in agriculture)**

**Economic Estimates of the Impact of Climate Protection Policies**

**Techno-Economics of Environmental & Waste Management**

**Analysing Agriculture in Developing Countries**

**Integrated Assessment of Climate change Induced Damage**

**European IPPC Bureau / eco-industry**

**Agriculture & Life Sciences**

**Energy, Transport & Climate Change**

**Sustainable Production & Consumption**

*policy studies*

*intelligence platforms*

Joint Research Centre

*bureaux*

*economic modelling platforms*