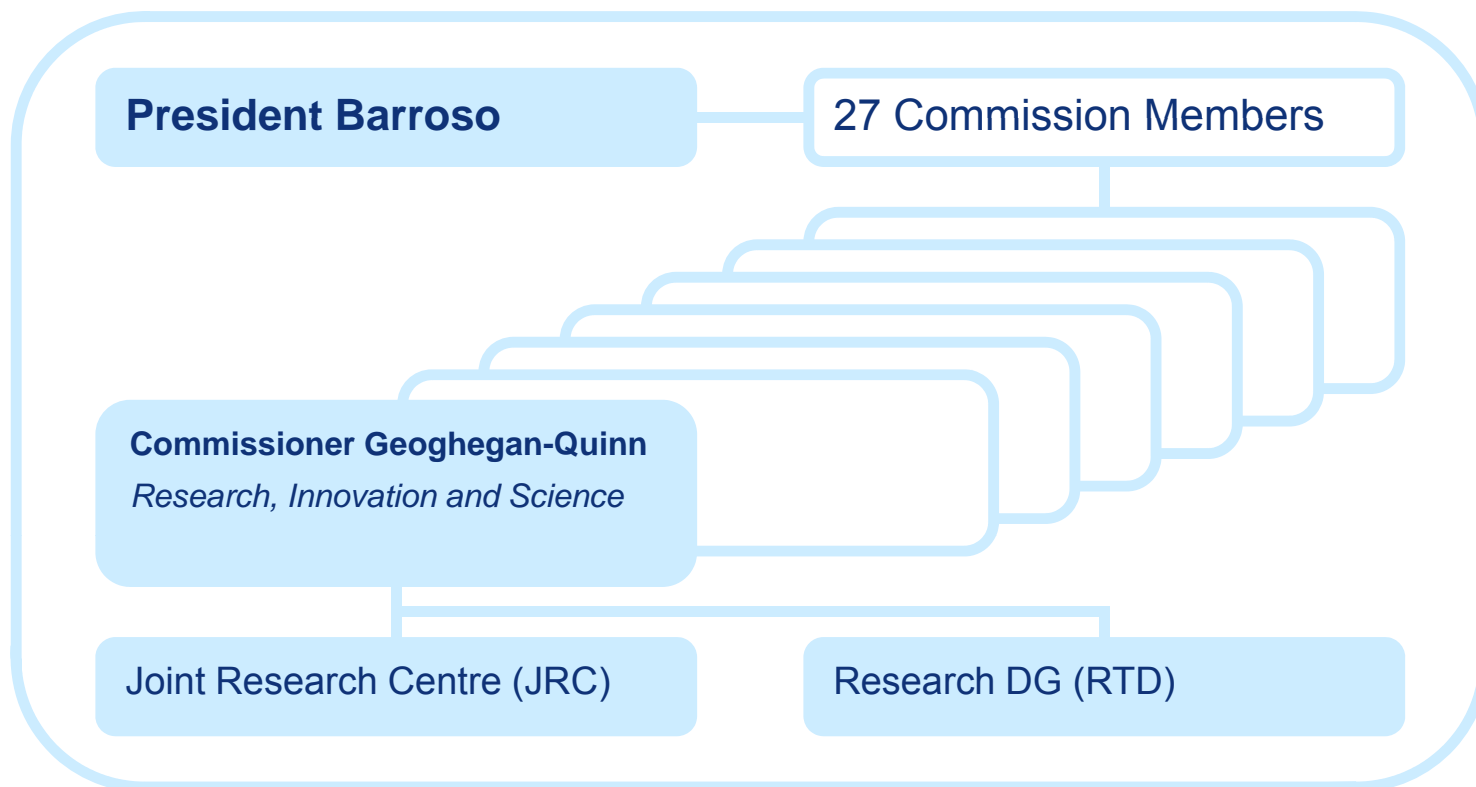


Joint Research Centre (JRC)

Prof. Dr. Leen Hordijk, Director
Institute for Environment and Sustainability



Where does the JRC fit in the European Commission?



The Mission

... is to provide customer-driven scientific and technical support for the conception, development, implementation and monitoring of EU policies. As a service of the European Commission, the JRC functions as a reference centre of science and technology for the Union.

Close to the policy-making process, it serves the common interest of the Member States, while being independent of special interests, whether private or national.

The Vision

...is to be a trusted provider of science-based policy options to EU policy makers to address key challenges facing our society, underpinned by internationally recognised research.

Our Structure: 7 Institutes in 5 Member States

IRMM – *Geel, Belgium*

Institute for Reference Materials and Measurements

ITU – *Karlsruhe, Germany*

Institute for Transuranium Elements

IE – *Petten, The Netherlands and Ispra, Italy*

Institute for Energy

IPSC – *Ispra, Italy*

Institute for the Protection and Security of the Citizen

IES – *Ispra, Italy*

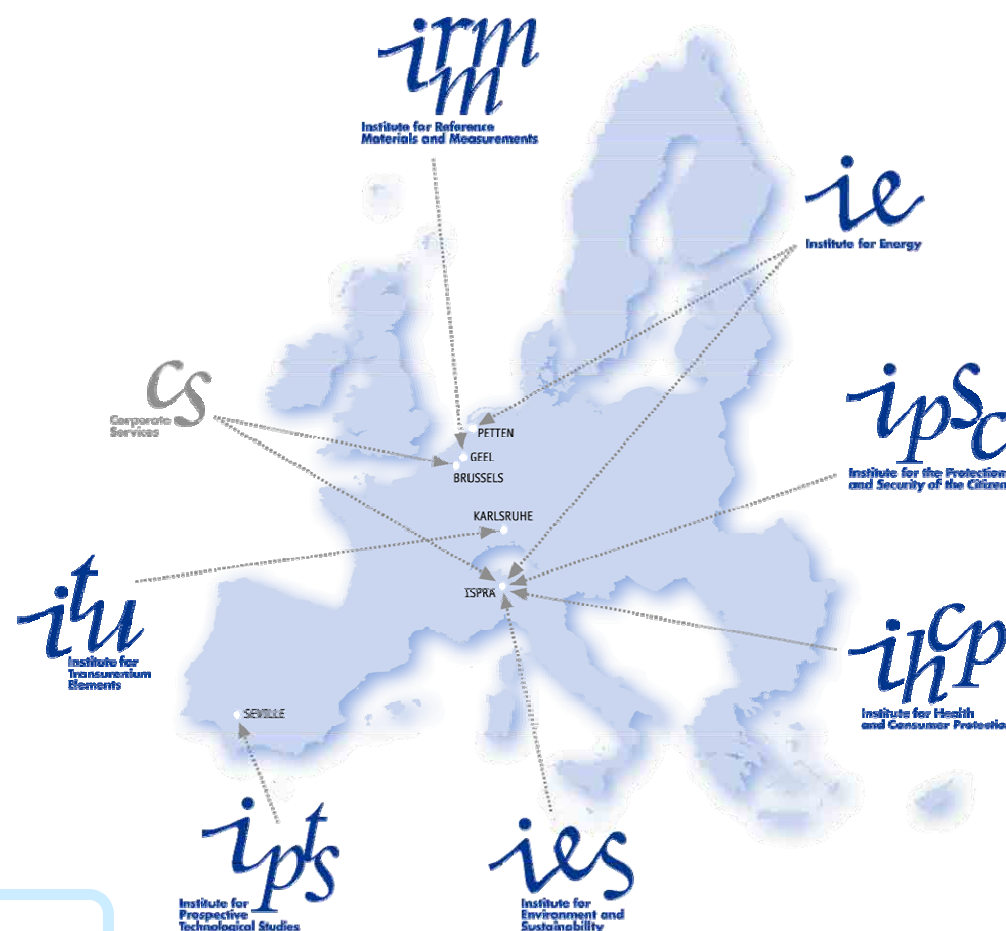
Institute for Environment and Sustainability

IHCP – *Ispra, Italy*

Institute for Health and Consumer Protection

IPTS – *Seville, Spain*

Institute for Prospective Technological Studies



~ 2750 staff

~ 345 M€/y institutional budget (+ 60 M€/y earned income)

7th Framework Programme (FP7) – Institutional funding



**Specific programme
“JRC direct actions”**

2007-2013

1,751 M€

**EURATOM programme
“JRC direct actions”**

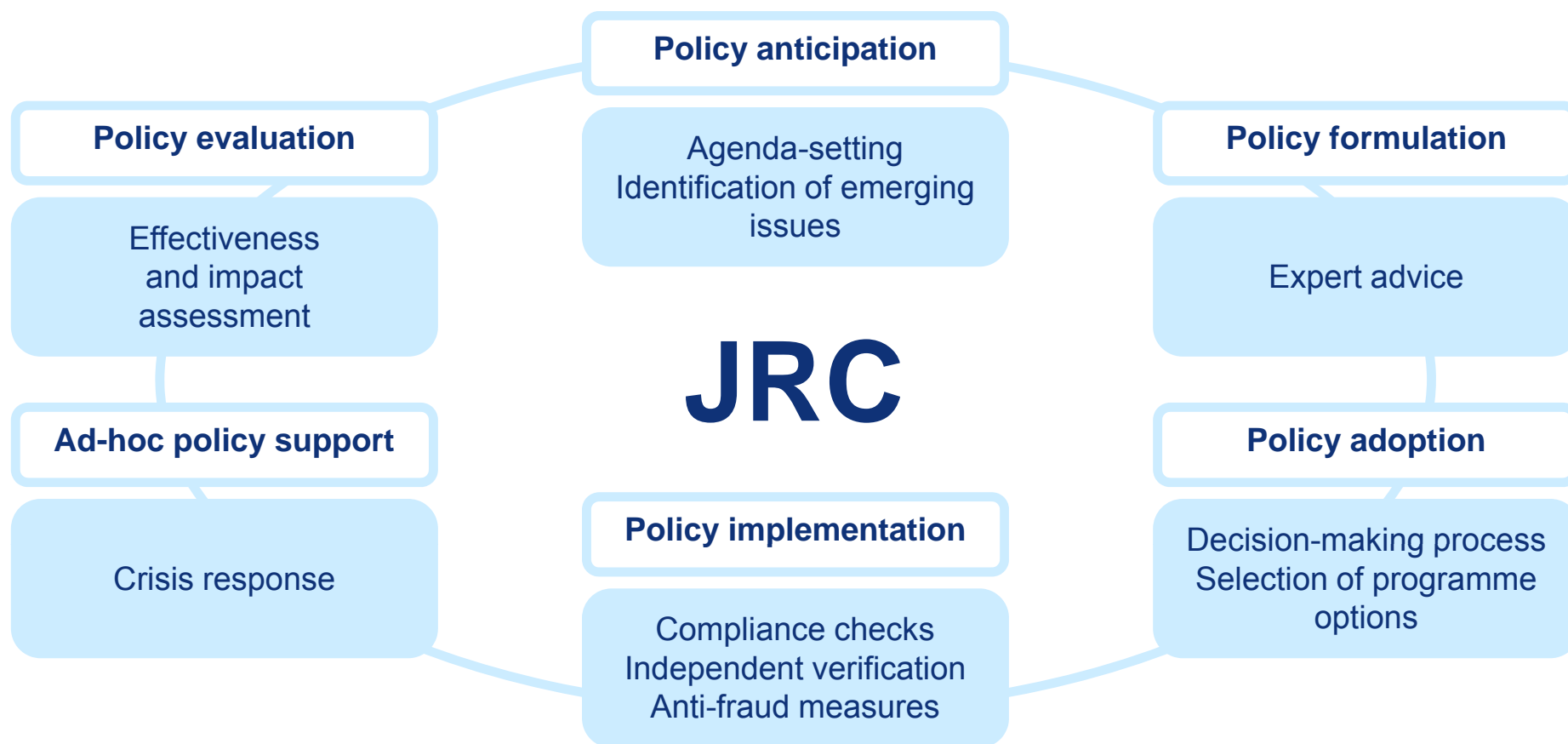
2007-2011

517 M€

FP7 indirect actions

Collaboration with national
public and private research
institutes, academia, industry
and international bodies

Implementing the JRC Mission in the Policy Cycle



JRC Strategy 2010-2020

Strategic Developments

- **Socio-economic research and modelling capacity will be expanded**
- **Multi-disciplinary research teams across the JRC**
- **Strong proactive forward-looking, horizon scanning capacity**
- **Enhanced assessment of policy options**
- **Seven Thematic Areas**



Towards an open and
competitive economy



TA 1

Development of a low
carbon society



TA 2

Sustainable management
of natural resources



TA 3

Safety of food and
consumer products



TA 4

Nuclear safety
and security



TA 5

Security and
crisis management



TA 6

Reference materials
and measurements



TA 7

JRC
Thematic Areas



Policy formulation: Climate change negotiations

Support to EC and MS at COP-15: CO₂ removal projections,
assessment of accounting rules for land use, land use change and forestry

Directive 2003/87/EC and DECISION No 280/2004/EC on monitoring Community greenhouse gas emissions and for implementing the Kyoto Protocol



The road to Copenhagen: “Economic assessment of post 2012 global climate policies”

Report presenting in detail the economic estimations upon which Commission Communications in Copenhagen were based.

Ensuring sustainable biofuels

The JRC Biofuels Thematic Programme (BF-TP) provides support to the Commission in fulfilling its legal obligations regarding biofuels and reporting requirements

e.g., Directives 2009/28/EC and 2009/30/EC



Policy support: some recent examples



Financial crisis – impact study of policy options

DG MARKT amending legislation on deposit protection: new Directive 2009/14/EC - JRC delivered a 450 pages impact assessment in January 2010

Research studies on residential energy consumption & efficiency

Commission Regulation (EC) No 244/2009 implementing Directive 2005/32/EC on eco-design requirements for non-directional household lights - Directive 2006/32/EC on energy end-use efficiency



Policy formulation: Infrastructure for spatial information in Europe (INSPIRE) – drafting the implementation rules

COMMISSION REGULATION (EC) No 976/2009 implementing Directive INSPIRE 2007/2/EC of the European Parliament and of the Council as regards the Network Services (Discovery and View)

Policy support: some recent examples



New reference materials to detect flame retardants banned under the RoHS Directive

Directive 2002/95/EC on the Restriction of Hazardous Substances (RoHS) in electrical and electronic equipment

Validated 7 alternative test methods for regulatory acceptance in 2009

Accelerated the implementation of (1) the Cosmetics Directive to completely ban tests for skin/eye irritation in humans (from 11 March, 2009) and (2) the REACH legislation



Vehicle emission lab (VELA-7) for full size trucks and buses

Regulation (EC) No 715/2007 on type approval of motor vehicles with respect to emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and on access to vehicle repair and maintenance information

Policy support: some recent examples



Measurement method developed by the JRC became ISO standard

A method developed to enable the enforcement of the “Chocolate Directive”(2000/36/EC) on vegetable fats in milk chocolate.

The global pipeline of new Genetically Modified (GM) crops

Report compiling a list of new GM crops to be commercialised and analyses results on their possible impact on international trade

Regulation (EC) No 1829/2003



Alternatives to testing on animals

ECVAM (European Centre for the Validation of Alternative Methods) signed a Memorandum of cooperation with equivalent international bodies in US, Canada and Japan in support of Directive 86/609 (EEC).

Providing tangible results

- Fighting pollution
- Performing controls via remote sensing
- Providing sound advice on chemical risks
- Preventing nuclear trafficking
- Supporting safe and secure structures
- Improving testing for safer food
- Fuelling the hydrogen economy
- Responding to natural disasters
- Enhancing reactor safety
- Supporting enlargement
- Providing quality assurance tools
- Supporting Europe's information society
- Monitoring companies' R&D spending



Commission DGs

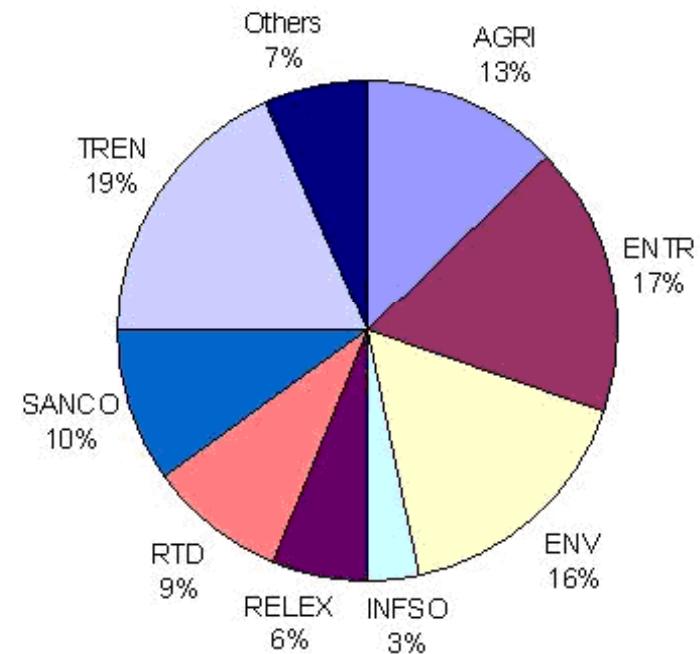
EU Agencies

European Parliament

**Member States and
Candidate Countries**

International Organisations

Resource distribution 2009 sorted by
lead customer DG



Board of Governors

Composed of high level representatives from each of the Member States and the FP7 Associated Countries (39 countries)



Group picture at Board meeting of 19-20 November 2009



Dr Killian Halpin, Chairman and Irish Member

- Provides advice on strategic / management issues
- Its opinion is required on all EC decisions about JRC
- Members ensure a strategic link with their countries

JRC contribution to the *European Research Area (ERA)*

The JRC works with over 1,000 public and private organisations, institutions and expert groups in more than 250 major networks

JRC activities in support of European Research Area:

- Common scientific reference systems
- Training and mobility of researchers
- Providing access to infrastructures
- Support to enlargement
- Support to the ERA Policy (RTD)
 - ERAWATCH
 - Analytical reports in support of industrial research policy and the Lisbon Strategy



Joint Research Centre (JRC)

Robust science for policy making

Thank you for your attention

Questions ??

