



Econometrics & Applied Statistics

For whom do we work?

The unit operates at the request of the commission services - in particular the:

- Economic and Financial Affairs;
- Education and Culture;
- Internal Market;
- Competition;
- Employment and Enterprise directorates;
- Cooperation with international institutes and Member States.

Our Competence

The unit's competences include:

- Data analysis;
- Short-term economic analysis;
- Financial econometrics;
- Construction of domain specific indicators, including composite indicators;
- Ad hoc statistic and econometric modelling;
- Uncertainty and sensitivity analysis;

Growing thematic domains of the unit are educational economics, and how to deal with issues of well-being, sustainability, equity and cohesion in the assessment of policies. The unit also develops protocols for the use of technical and scientific information in the policy domains, notably at the science-law-policy interfaces.

Partners

The main international partners of the unit are:

- The organisation for the Economic Cooperation and Development (OECD);
- The International Association for the Evaluation of Educational Achievement (IEA);
- The European Central Bank, the European Centre for the Development of Vocational Training (Cedefop);
- The Information Network on Education in Europe (Eurydice);
- Within the European Union member states, the unit maintains relationships with national Ministries of Education.



Econometrics & Applied Statistics

EAS
Econometrics & Applied Statistics
 Andrea Saltelli, *Unit Head*
 Via E. Fermi, 2749, TP361 I-21027 Ispra (VA) ITALY
 Tel : +39(0)332789686 - Fax : +39(0)332785733
 Email: andrea.saltelli@jrc.it
 Web: <http://iamweb.jrc.ec.europa.eu/ESAF/>
 JRC45626



The Unit for Econometrics and Applied Statistics is comprised of around 40 researchers based at the Joint Research Centre at Ispra, in northern Italy. They divide their time between basic and applied research on statistics and econometrics and analytic support to the services of the European Commission in Brussels and Luxembourg.

Furthermore, they also support European policy in the area of science governance.

CRELL

Centre for Research on Lifelong Learning
 Michela Nardo, *Action Leader*
 JRC, Via E. Fermi 2749, TP361, I-21027, Ispra(VA) ITALY
 Tel: +39(0)332785968 - Fax: +39(0)332785733
 Email: michela.nardo@jrc.it
 Web: <http://crell.jrc.ec.europa.eu/>

STATIND

Development and Assessment of Statistical Indicators for EU Policies
 Athina Karvounarakis, *Action Leader*
 JRC, Via E. Fermi 2749, TP361, I-21027, Ispra(VA) ITALY
 Tel: +39(0)332786190 - Fax: +39(0)332785733
 Email: athina.karvounarakis@jrc.it
 Web: <http://statind.jrc.ec.europa.eu/>

EEMC

Euro-area Economy Modelling Centre
 Riccardo Girardi, *Action Leader*
 Via E. Fermi, 2749, TP361 I-21027 Ispra (VA) ITALY
 Tel: +39(0)332785639 - Fax: +39(0)332785733 -
 Email: riccardo.girardi@jrc.it
 Web: <http://eemc.jrc.ec.europa.eu/>

FINECON

Financial Econometrics for a Single Market and Competitiveness Policies
 Jessica Carboni, *Action Leader*
 JRC, Via E. Fermi 2749, TP361, I-21027, Ispra(VA) ITALY
 Tel: +39(0)332785372 - Fax: +39(0)332785733
 Email: jessica.carboni@jrc.it
 Web: <http://finecon.jrc.ec.europa.eu/>

QSI

Quality of Scientific Information in the EU Policy Process
 Angela Guimarães Pereira, *Action Leader*
 JRC, Via E. Fermi 2749, TP361, I-21027, Ispra(VA) ITALY
 Tel: +39(0)332785340 - Fax: +39(0)332786492
 Email: angela.pereira@ipsc.it
 Web: <http://kam.jrc.ec.europa.eu/>



The CRELL team at the JRC is a group of experts that develop indicator-based evaluation and monitoring of education and training systems in the European Union

Competences and expertise
CRELL comprises of a diverse team of educationalists, social scientists, statisticians and economists in a multi-disciplinary approach to education research

- End users in the European Commission**
- DG Education and Culture (EAC)
 - DG Eurostat (ESTAT)
 - DG BEPA (BEPA)

Education and civic engagement – what and for whom?

Policy concerns such as active citizenship and social cohesion have assumed greater prominence in the European Union's political agenda.

Do head-teachers make a difference for the education of our children?

The socio-economic status of the family is the characteristic that tells us most about the likely level of knowledge and skills of an individual.



The STATIND project on the Development and Assessment of Statistical Indicators at the JRC covers a wide range of activities related to the main EU policy guidelines that emerged from the renewed Lisbon agenda.

Competences and expertise
The STATIND staff offers competence on the development and assessment of statistical indicators.

- End Users in the European Commission**
- Employment and Social Affairs (EMPL)
 - Internal Market and Services (MARKT)
 - Economic and Financial Affairs (ECFIN)
 - Enterprise and Industry (ENTR)

How do we perform in technological innovation?

Statistical indicators developed at the JRC are used by the European Commission to evaluate and compare the performance of the Member States in the domain of innovation.

Is our employment flexible and secure?

The composite indicators regarding flexibility of labor markets, developed at the JRC, will inform decision makers about the current situation in the Member States and will help them to devise appropriate policies.



The Euro-area Economy Modelling Centre supports the Economic and Financial Policy of the European Union, with a focus on economic stance, macroeconomic policy.

Competences and expertise
EEMC staff has a high level of competence in macroeconomic modeling, business cycle analysis, statistical analysis and scientific computing.

- End users in the European Commission**
Economic and Financial Affairs (ECFIN), European Statistical Office (ESTAT)

What is the function of the EU ECOFIN Committee?

The Economic and Financial Committee of the Council of the EU is formed by the Commission and the Ministry of Finance in the 27 Member States. EEMC provides methodological support to DG ECFIN

Inflation and unemployment rates are so often cited in news. Why?

Inflation and unemployment are the main illnesses that can affect the welfare of a nation. EEMC contributes to monitoring this phenomenon at Euro-area level.



The FINECON team at the JRC supports the Competition and Internal Market policies of the European Union with a focus on cross-border competition, market access, enhanced transparency, financial stability and efficiency

Competences and expertise
FINECON staff has a high level of competence in financial modelling and econometrics

- End users in the European Commission**
Internal Market and Services (MARKT) and Competition (COMP)

What happens to your money if the bank fails?

FINECON contributes to modernizing current EU legislation on deposit guarantee schemes which enables citizens holding a bank deposit to recover at least part of their money in the event of bank default.

Why some shops refuse to accept your credit card?

FINECON has contributed to a study into the market of payment cards, current accounts and related services aimed at identifying the remaining barriers that impede competitive and efficient money flows.



The QSI team at the JRC supports the Commission's initiatives on science in society and science and policy arenas in particular they focus on the scientific production processes and exploring novel Information & Communication Technologies to support dialogue among science & society.

Competences and expertise
QSI staff has a high level of competence on pedigree assessment and, uncertainty expression and communication; public participation, including ICT based approaches; science communication and e-assessment of skills.

End users in the European Commission

- DG RTD: Governance and Ethics
- DG ENV: Communication
- DG EAC: Analysis and Studies
- Member States and Candidate Countries
- International organizations such as EEA and the US EPA

How do we contribute to Climate Change?

VGAS[®] links lifestyles with greenhouse gas emissions and helps to clarify the relationship between them.

Do you know why scientific experts often disagree when assessing policy relevant issues?

Pedigree assessment increases insight into the source of uncertainties, ambiguities and disagreements in scientific advice.

