



European
Commission



The Joint Research Centre Science and knowledge management at the service of Europe's citizens

The Joint Research Centre is the European Commission's science and knowledge service. Our researchers provide EU and national authorities with solid facts and independent support to help tackle the big challenges facing our societies today.

Our headquarters are in Brussels and we have research sites in five Member States: Geel (Belgium), Ispra (Italy), Karlsruhe (Germany), Petten (the Netherlands) and Seville (Spain).

Our work is largely funded by the EU's budget for Research and Innovation. We create, manage and make sense of knowledge, delivering the best scientific evidence and innovative tools for the policies that matter to citizens, businesses and governments, including:

A FAIRER AND MORE COMPETITIVE ECONOMY

- Supporting EU industry through scientific research leading to new standards;
- Helping EU regions build on their strengths in economic development through smart specialisation;
- Supporting EU satellite projects with scientific and technical expertise;
- Backing the European Pillar of Social Rights with the Social Scoreboard.

THE DIGITAL TRANSFORMATION

- Investigating the impact of new digital technologies on societies, from children's development to the world of work;
- Helping EU schools assess how well they are using digital technologies in teaching and learning with the SELFIE tool;
- Analysing the characteristics of online markets and supporting fair taxation in the digital economy;
- Developing applications for children and adults to promote the safe and responsible use of the internet.

A UNION THAT PROTECTS

- Managing early warning systems and response mechanisms for natural disasters, health emergencies, humanitarian crises and conflicts;
- Providing technical services and training for nuclear safeguards, non-proliferation and nuclear security;
- Testing buildings and materials for their structural and seismic safety in a unique European facility;
- Developing technologies and methods to support food safety and combat food fraud;
- Supporting Member State authorities in the monitoring and reduction of industrial emissions;
- Researching how resilient our society is to shocks to understand how policies can help communities recover from, or even go on to thrive after setbacks.

TOWARDS A SUSTAINABLE EUROPE

- Helping tackle climate change through monitoring, modelling and keeping track of global greenhouse gas emissions;
- Analysing how renewable energies are used and the impact they have;
- Providing global soil data and analysis linked to climate change, biodiversity and desertification and helping Member States assess their soil resources;
- Mapping 30 years of changes in the world's surface water, helping to monitor how Europe's lakes and rivers are changing;
- Establishing the best available techniques and indicators for waste management, and assessing how to optimise energy recovery from waste;
- Exploring new technologies such as precision farming to support a modern, sustainable Common Agricultural Policy.

Managing our wealth of knowledge

In policy making, the problem is no longer too little information or data, but that we have a lot, and making sense of it all is challenging. That is why the Joint Research Centre is partnering with policy departments across the European Commission to operate Knowledge Centres that bring together expertise and knowledge from different sources. They help policy-makers understand the latest scientific evidence in a transparent, tailored and concise way.

The Joint Research Centre and partner European Commission services manage and operate six Knowledge Centres:



DID YOU KNOW...



... that we are bringing science and its benefits closer to citizens by fostering dialogue with parliaments and regions across Europe?

Regions and cities are key partners in turning European legislation, policies and financial instruments into tangible results - about 70% of EU rules and 80% of EU funds are implemented or spent at regional and local level.

The Joint Research Centre supports events bringing together scientists, policymakers and citizens to explore locally relevant issues with the help of the best scientific evidence.

<http://europa.eu/!pT88gV>



... that we provide open access to our unique facilities, helping to ensure that more of the best brains can help drive research that benefits Europeans in their daily lives?

With nine state-of-the-art infrastructures already open to applicants from the public and private sectors, we are helping to spread scientific knowledge, make Europe more competitive, bridge the gap between research and industry and provide training and capacity building.

Whether it is for nanobiotechnology or the safety and security of our buildings, we offer scientists across Europe a chance to make the most of these world-class facilities and drive positive change in our societies.

<http://europa.eu/!CM63UK>



...where your city ranks in Europe on culture and creativity?

You can check it out in the Cultural and Creative Cities Monitor that shows how well selected European cities perform on a range of measures related to culture and creativity.

The Monitor helps cities harness culture to drive social and economic development – by enabling them to identify local strengths and opportunities and learn from other cities thanks to both quantitative and qualitative data.

<https://europa.eu/!fN73bV>



...that the Joint Research Centre can help you save fuel and the planet with its online Green Driving tool?

This tool enables you to estimate fuel consumption and CO₂ emissions for your car journeys on the basis of car size, engine power or driving style, and can help you make more informed mobility decisions.

<https://europa.eu/!Tv63Gg>

The European Commission's science and knowledge service
Joint Research Centre

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