

## Knowledge Management in Action

### 1. Mapping of migrant communities in cities

Integration of migrants is a major challenge for many city authorities in recent years. The JRC produces **high resolution maps of migrant communities in cities**, based on national census data. The maps provide an indication of how population by nationality or country of birth is distributed, and allow for analyses of the different models of spatial distribution in the urban landscape adopted by cities and migrant communities.

### 2. A new knowledge source for Europe's Cities

To support the Urban Agenda for the EU, the Commission presented in 2016 a State of European Cities Report, with the objective to promote more evidence-based urban policy making in Europe. The **Urban Data Platform**, set up by the JRC, collected the data behind the report. It now provides a single access point to common indicators on the status and trends in over 800 European urban areas, for example on demography, economic development or access to services.

### 3. Assessing public exposure to natural radioactivity

The Euratom Community has established a set of basic safety standards to protect workers, members of the public, and patients against the dangers arising from ionising radiation. The JRC has developed the **European Atlas of Natural Radiation**, contributing to estimate the annual dose that the public may receive from natural radioactivity.

### 4. A Social Scoreboard for the European Pillar of Social rights

Building a fairer Europe and strengthening its social dimension is a key priority for the European Commission. The JRC has developed a **'Social Scoreboard'**, which will monitor the implementation of the European Pillar of Social rights by tracking trends and performances across EU countries in 12 areas and will feed into the European Semester of economic policy coordination. The scoreboard will also serve to assess progress towards a social 'triple A' for the EU as a whole.

### 5. Enabling the Energy Union

The European Commission has committed to present annual State of the Energy Union reports that show progress made to bring about the transition to a low-carbon, secure and competitive economy. SETIS is a key contributor to these reports, with an **assessment of the evolution of the innovation ecosystem in the field of energy** at national and EU level.

### 6. Assessing the human presence on the planet

Powered by the JRC Earth Observation Data and Processing Platform, the **Global Human Settlement Layer (GHSL)** is producing global spatial information about the human presence on the planet. The GHSL was used to produce the **Atlas of the Human Planet 2017 - Global Exposure to Natural Hazards** summarising exposure of human settlements to six major natural hazards (earthquakes, volcanoes, tsunamis, floods, tropical cyclone winds, and sea level surge).

### 7. Science for the AU-EU Partnership – Building knowledge for sustainable development

This flagship report summarizes three decades of collaborative work between the JRC and many organisations and institutions across Africa, focusing on the Africa dimension of the partnership and exploring the opportunities and the challenges for the continent.

### 8. What makes a fair Society? Insights and evidence

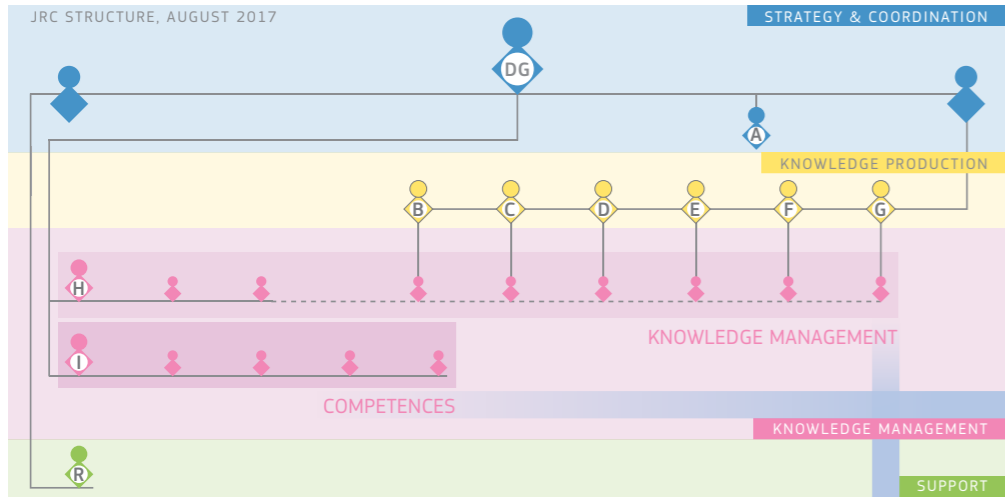
This flagship report is a first step in building a knowledge base to support policies aimed at building a Society that people feel is fair. It examines income inequality trends, assesses the influence of family background and geographical location on labour market outcomes, education and health, tackles the issue of perceptions drawing on behavioural sciences.

# Knowledge Management for Policy

The Communication C(2016)6626 on Data, Information and Knowledge Management sets the objective to improve knowledge management and collaborative working in the European Commission, modernising the Institution by overcoming silos mentalities and connecting synergies between portfolios.

The European Commission's science and knowledge service, the Joint Research Centre (JRC) has taken up this challenge in its 2030 Strategy, striving to become more efficient in mobilising scientific competences around the Commission's policy goals and to transform from a traditional research-producing organisation into a world-leading manager of knowledge for EU policy-making.

# The JRC Knowledge Management Network



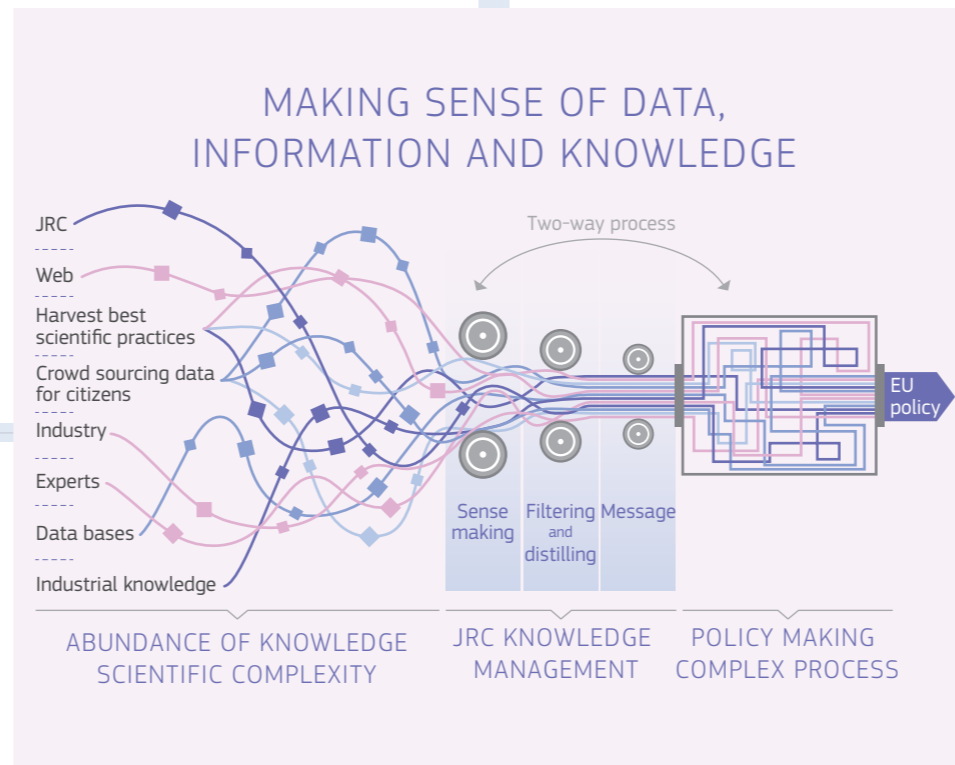
- 'Flagship' reports:**
- The Cultural and Creative Cities Monitor
  - Science for the AU-EU Partnership – Building knowledge for sustainable development
  - What makes a fair Society? Insights and evidence

**DIRECTORATE I:** it manages JRC know-how in different domains; it sets up and operates Competence Centres

Some examples of knowledge repositories and services, developed and managed by the Knowledge Management Units and/or the Knowledge Production Units:

- The Research Innovation Observatory and Policy Support Facility (RIO-PSF)
- The Strategic Energy Technologies Information System (SETIS)
- The knowSDGs platform
- The EU Aid Explorer
- The Adverse Outcome Pathway Knowledge Base (AOP-KB)
- The Nuclear Energy Observatory (NEO)

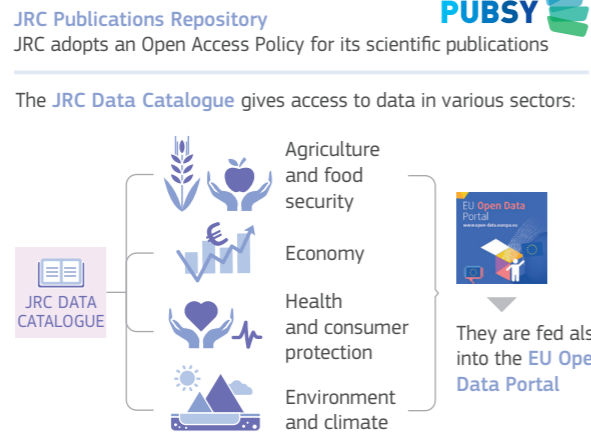
**DIRECTORATE H:** it coordinates related activities across the JRC; it develops common tools, best practices and platforms, together with the Knowledge Management Units in the Thematic Directorates



## Hosting, organising and sharing data

The JRC is committed to share its research data with:

- Researchers
- Information professionals
- Entrepreneurs
- General public

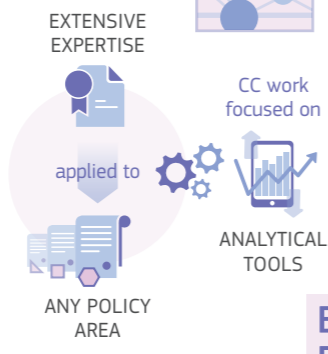


The JRC is investing in innovative ways for deriving knowledge from data, for example through:

- EMHIRES dataset (European Meteorological-derived High resolution Renewable Energy Source generation time series): it models renewable energy production over time
- JRC Earth Observation Data and Processing Platform (JEODPP): it provides data storage and data mining capabilities

## Managing Competences

### Competence Centres



- Existing Competence Centres:**
- Competence Centre on Composite Indicators and Scoreboards
  - Competence Centre on Micro-economic Evaluation
  - Competence Centre on Text Mining and Analysis
  - Competence Centre on Modelling

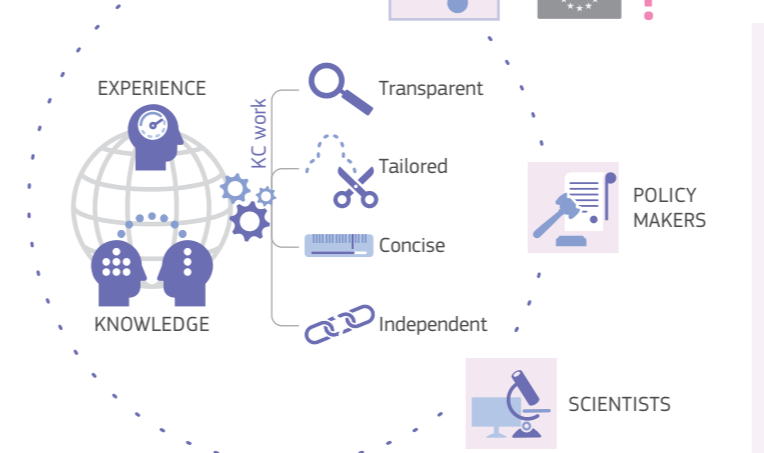
**20 partner DG and Services involved:** SG, BUDG, EAC, EMPL, RTD, GROW, REGIO, ENER, CLIMA, AGRI, ECFIN, DEVCO, ECHO, COMM, EEAS, JUST, NEAR, HOME, RSB, SANTE, CNECT

CC offer **training courses** in the use of the tools for policy-making  
CC **advice** on the choice of tools

CC work directly with the Commission policy Directorates-General to **apply** the tools to the policy problems at hand

## Knowledge Centres

are virtual communities built around policy problems



## Managing Knowledge

- Existing Knowledge Centres:**
- Disaster Risk Management Knowledge Centre
  - Knowledge Centre on Migration and Demography
  - Knowledge Centre for Territorial Policies
  - Knowledge Centre on Bioeconomy

**23 partner DG and Services involved:** HOME, MOVE, ENER, ENV, SG, RTD, AGRI, GROW, MARE, CLIMA, REGIO, DEVCO, TRADE, EAC, EMPL, ECHO, ESTAT, EPSC, EEAS, ECFIN, JUST, NEAR, COMM

**Key Partnerships with more than 60 Countries and various international organisations** such as OECD, UNHCR, UNICEF, World Bank, International Institute for Applied Systems Analysis (IIASA), International Organisation for Migration (IOM)

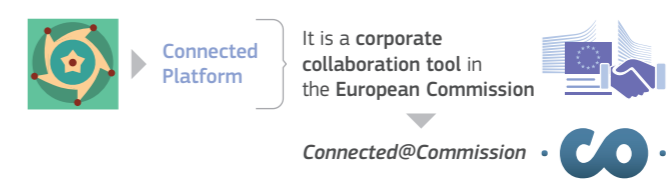
## EU Policy Lab



## Methodology and capacity building

The JRC is building strong networks with strategic partners in knowledge management for policy. This is accompanied by new training, projects and processes.

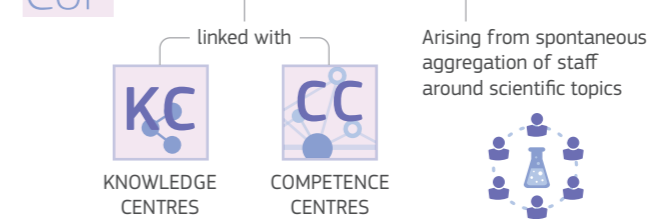
The JRC is championing the implementation of new collaboration practices and platforms throughout the European Commission.



**Connected European Semester project**

It strongly enhanced collaborative working for the **27** European Semester country teams in preparing their Country reports

**26 new Communities of practice**



- Communities of Practice:**
- EU4Facts - Evidence for Policy
  - Financial Research
  - Fairness

## Knowledge 4 Policy Web Platform

A multi-community collaborative web platform designed to allow Commission knowledge services to:

- effectively publish and manage (scientific) knowledge for policymaking;
- engage stakeholders in creating, curating, managing and using that knowledge;
- animate discussions and interactions;
- create stakeholder communities

## Collaborative working