The JRC Week on Composite Indicators and Scoreboards is an annual five-day event during which local and international policy and decision makers, academics, think tanks, and practitioners in a wide range of socio-economic fields learn from best practices and showcase their capacity to inform policies through the use of indicator systems that summarise multidimensional concepts from social rights and social trust to innovation and competitiveness.

- What are the state-of-art methods to develop and audit indices and scoreboards?

- How much faith can we have in multidimensional frameworks and how can common pitfalls be avoided?

- How can indices and scoreboards better inform policy and be communicated to the wider public?

- What already successful tools can be further adopted?
3 days
16th JRC Annual Training on Composite Indicators and Scoreboards

05 MON

06 TUE

07 WED

2 days
Composite Indicators and Scoreboards
Community of Practice

08 THU

09 FRI
The 16th JRC Annual Training on Composite Indicators and Scoreboards will offer lessons learnt from the JRC assessments on more than 100 well-known composite indicators and scoreboards. The training consists of presentations, Q&A sessions and a hands-on session using the COIN tool (Excel-based) for developing and statistically assessing a composite indicator or scoreboard. Participants will also have the opportunity to discuss their composite indicators/scoreboards and receive advice from the JRC.

**Objectives**

To present the concept of composite indicators, strengths and weaknesses and domains of frequent use;
To provide guidelines on the development of the theoretical framework and selection of indicators;
To offer practical examples on the preparation of the data set, discuss the importance of the analysis of statistical coherence of the framework, the implications of the choice of the weighting and the aggregation method and the robustness and sensitivity analysis;
To learn by best practices on how to ensure transparency and statistical soundness when developing composite indicators;
To offer an Excel-based practical guide for the construction of composite indicators.

**Target Group**

Researchers and policy analysts with an interest on multidimensional measures and multi-criteria analysis.

**Lecturers & organising team**

MONDAY | 05 November 2018

12:00 Registration & Welcome Lunch

13:00 Opening & Introduction
   Sven Langedijk, Head of Unit

13:30 Interactive Q&A session

13:45 Indices & Scoreboards: Ten steps guide
   (uses and misuses, framework, indicators, data treatment, weighting,
   aggregation, statistical coherence, communication, transparency)

14:45 Steps 1 & 2: Framework & Indicators
   (definition, added-value, multidimensionality, selection criteria for indicators)

15:30 Coffee break

16:00 Step 3: Outliers & Missing data
   (Outliers: winsorization, trimming, Box-Cox; Missing data: mean/median,
   hot-deck, EM, cross-sectional trend analysis.)

17:00 Audit your index: JRC-COIN tool (I)
   (an Excel-based guide for assessing, partially, the soundness of composite
   indicators and scoreboards)

18:00 End of first day
TUESDAY | 06 November 2018

09:00 Welcome Coffee

09:30 Step 4: Normalisation
(min-max, distance to best performer, z-scores, categorical, ranking)

10:15 Step 5: Weighting methods (I)
(statistical: principal component analysis)

11:00 Coffee break

11:30 Step 5: Weighting methods (II)
(participatory: budget allocation, analytic hierarchy process)

12:45 Lunch break

14:00 Step 6: Aggregation rules
(generalized mean, median ranking, Borda, Condorcet, Copeland, Arrow-Raynaud, Kemeny)

15:30 Coffee break

16:00 Step 7: Statistical coherence (I)
(correlations, cross-correlations)

17:00 Audit your index: JRC-COIN tool (II)
(an Excel-based guide for assessing, partially, the soundness of composite indicators and scoreboards)

18:00 End of second day
09:00  Welcome Coffee

09:30  Step 7: Statistical coherence (II)
(principal component analysis, reliability analysis)

11:00  Coffee break

11:30  Step 8: Quality control & Robustness
(Pearson correlation coefficient, non linear Pearson correlation ratio,
uncertainty and sensitivity analysis)

13:00  Lunch break

14:00  Steps 9 & 10
Visualization & Communication (back to the data, radar plots, scatterplots,
heatmaps)

15:00  Coffee break

15:30  Audit your index: JRC-COIN tool (III)
(an Excel-based guide for assessing, partially, the soundness of composite
indicators and scoreboards)

18:00  End of training
Composite Indicators and Scoreboards
Community of Practice

JRC, Ispra
08-09 November 2018
Purpose and Scope

The purpose of the Community of Practice on Composite Indicators and Scoreboards (COINCoP) is to bring together policy analysts and researchers from the European Commission, international organizations, think tanks and the academia, to foster a practical exchange of experiences across a wide range of key policy areas that are monitored through composite indicators and scoreboards.

- How should indices and scoreboards be used for policy and what should be avoided?

- How can indices and scoreboards be communicated to the wider public?

This year’s discussion topics include:

- Fairness & Inequality
- Social Rights & Social Trust
- Resilience & Risk Management
- Sustainable Development & Sustainable Governance
- Education & Skills
- Ageing societies & Migration
- Innovation & Digital Transformation
- SMEs & Competitiveness

COINCoP will facilitate collaboration between scientists and policy makers on the sensible development and responsible use of indices and scoreboards, encapsulating the ‘big picture’ on matters that are crucial for the EU and helping to shape policy and monitor progress.
09:00 Registration & Welcome coffee

09:30 Panel I: Fairness & Inequality
Moderator: Beatrice D’HOMBRES, European Commission Joint Research Centre
Commitment to Reducing Inequality Index. A global ranking of governments based on what they are doing to tackle the gap between rich and poor
Chiara MARIOTTI, Oxfam
Corruption Perceptions Index. Putting the issue of corruption on the international policy agenda
Coralie PRING, Transparency International
Financial Secrecy Index: A tool for understanding global financial secrecy and illicit financial flows
Markus MEINZER, Tax Justice Network

11:00 Coffee Break

11:30 Panel II: Social Rights & Social Trust
Moderator: Maria DEL SORBO, European Commission Joint Research Centre
Social Justice Index. Social Justice in the EU – The state of play
Thorsten HELLMANN, Bertelsmann Stiftung
Global Slavery Index. Putting the spotlight on modern slavery – a hidden, everyday problem
Katharine BRYANT, Walk Free Foundation (via VC)
The Human Freedom Index, where is the freedomland? The definition and measurement of freedom, and relationship among personal freedom, economic freedom, democracy, and well-being
Tanja PORČNIK, the Cato Institute

13:00 Lunch buffet and discussions
14:00  Panel III: Resilience & Risk Management
Moderator: Eleni PAPADIMITRIOU, European Commission Joint Research Centre

Resilience Framework. The Resilience of EU member states to the Global Crisis
Anna Rita MANCA, European Commission Joint Research Centre

The Global Conflict Risk Index: A global quantitative assessment of risk for violent conflict
Marie SCHELLENS, European Commission Joint Research Centre

INFORM: An Index for Risk Management
Karmen POLJANSEK, European Commission Joint Research Centre

FM Global Resilience Index: A country ranking of enterprise resilience to disruptive events
Cédric LENOIRE, FM Insurance Europe (via VC)

15:30  Coffee Break

16:00  Panel IV: Sustainable Development & Sustainable Governance
Moderator: Ana Rita NEVES, European Commission Joint Research Centre

SDG Index & Dashboard: Tracking progress of UN member states towards the 17 Sustainable Development Goals
Guillaume LAFORTUNE, UN Sustainable Development Solutions Network

ASEM Sustainable Connectivity Portal: An online tool to support policy debate on sustainable connectivity between Asia and Europe
William BECKER, European Commission Joint Research Centre

Natural Resource Governance Index: Measuring country-level quality of governance in the oil, gas and mining sectors
Anna FLEMING, Liz MCGRATH, Natural Resource Governance Institute

Sustainable Governance Indicators: Measuring sustainable governance across OECD and EU countries
Julia SCHMIDT, Bertelsmann STIFTUNG

17:30  End of first day
09:00  Registration & Welcome coffee

09:30  Panel V: Education & Skills
Moderator: Hedvig NORLÉN, European Commission Joint Research Centre

European Skills Index: A monitoring framework for measuring the performance of skills systems in the EU
Ilias LIVANOS, European Centre for the Development of Vocational Training

Mobility Scoreboard in Higher Education: A tool to monitor national action supporting learning mobility
Anna HORVATH and David CROSIER, European Commission Education, Audiovisual and Culture Executive Agency (via VC)

Human Capital Index: A framework that quantifies the contribution of health and education to the productivity of the next generation of workers
Nicola DEHNEN, World Bank

11:00  Coffee Break

11:30  Panel VI: Ageing societies & Migration
Moderator: Giulio CAPERNA, European Commission Joint Research Centre

Building a protection vulnerability formula
Osama ABDELHAY, Hania SAHNOUN, UN High Commissioner for Refugees
Simone DEL SARTO, University of Perugia

Active Ageing Index: a tool to measure the untapped potential of older people across countries
Olga KHARITONOVA, United Nations Economic Commission for Europe
Ettore MARCHETTI, European Commission DG Employment, Social Affairs & Inclusion

Migrant Integration Policy Index: a tool to assess how countries are promoting Integration of Migrants
Giacomo SOLANO, Migration Policy Group
13:00  Lunch buffet and discussions

14:00  Panel VII: Innovation & Digital Transformation
Moderator: Daniel VERTESY, European Commission Joint Research Centre

Inclusive and sustainable industrial development platform/SDG9 indicators: challenges in aggregating economic, environmental and social indicators into synthetic indices
Nicola CANTORE, United Nations Industrial Development Organization

Well-being in the digital age: towards a measurement framework of the opportunities and risks of the digital transformation for well-being
Vincent SIEGERINK, Organisation for Economic Co-operation and Development (OECD)

Mapping Museums and Nightlife: building interactive maps to understand policy issues
John DAVIES, NESTA

15:30  Coffee Break

16:00  Panel VIII: SMEs & Competitiveness
Moderator: Pablo DE PEDRAZA, European Commission Joint Research Centre

Access to Finance Index. Monitoring SMEs’ access to financial resources in the EU
Wouter TORFS, Research & Market Analysis Division, European Investment Fund

Javier PALMERO ZURDO, European Commission, DG for Internal Market, Industry, Entrepreneurship and SMEs (DG GROW)

Global Entrepreneurship Monitor. Understanding the entrepreneurial phenomenon and its transformative benefits
Alicia CODURAS, GEM Consortium

Small Business Act Fact Sheets. Monitoring and assessing countries’ progress in implementing the Small Business Act (SBA)
Martin MULLER, European Commission, DG for Internal Market, Industry, Entrepreneurship and SMEs (DG GROW)
17:30 Concluding Remarks

17:45 End of the Community of Practice Meeting

If you would like to learn more about the activities of the European Commission’s Competence Centre on Composite Indicators and Scoreboards (COIN), please contact us by:

E-mail:  jrc-coin@ec.europa.eu

Tel:     +39 0332 78 6448

Web:  https://ec.europa.eu/jrc/en/coin
       https://composite-indicators.jrc.ec.europa.eu/

For logistics:  Susanna.Loffelholz@ec.europa.eu
The European Commission’s science and knowledge service
Joint Research Centre

JRC Mission
As the science and knowledge service of the European Commission, the Joint Research Centre’s mission is to support EU policies with independent evidence throughout the whole policy cycle.