RISIS project gives access to 13 RISIS datasets for studying science and technology innovation.

The datasets are built keeping information on established quantitative indicators, developing positioning indicators, on account critical features of knowledge dynamics i.e. the importance of asymmetries in producers, in places and in themes

RISIS OBJECTIVES

Access to 13 science and innovation datasets

Production of 4 new datasets

Developing techniques to integrate different datasets

Hosting an integrated data platform for policy and research analysis

Providing training in using available data on research and innovation

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Universiteit Leiden

The University Of Sheffield.

Fraunhofer ISI

Università della Svizzera italiana

JOANNEUM RESEARCH

University of Sussex

DZHW Deutsches Zentrum für Hochschul- und Wissenschaftsforschung

University of Strathclyde Glasgow

Sapienza Università di Roma

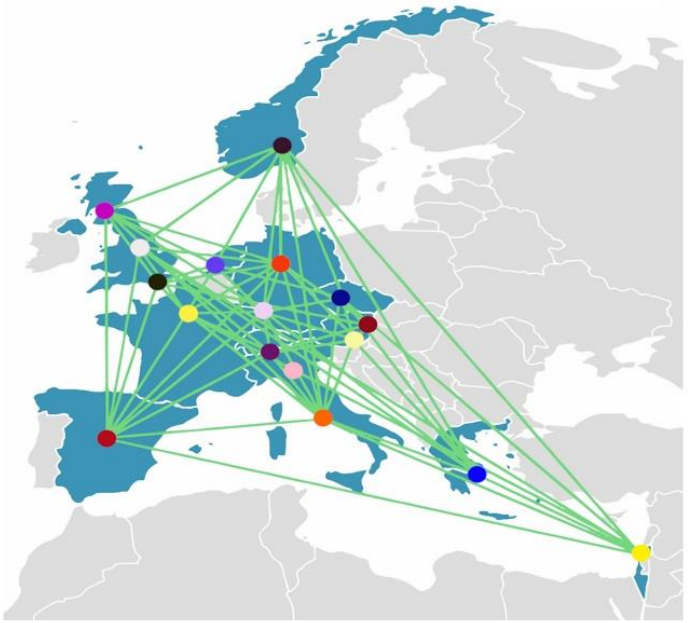
NIFU Nordisk institutt for studier av innovasjon, forskning og utdanning

CSIC Consejo Superior de Investigaciones Científicas

Samuel Neaman Institute for National Policy Research

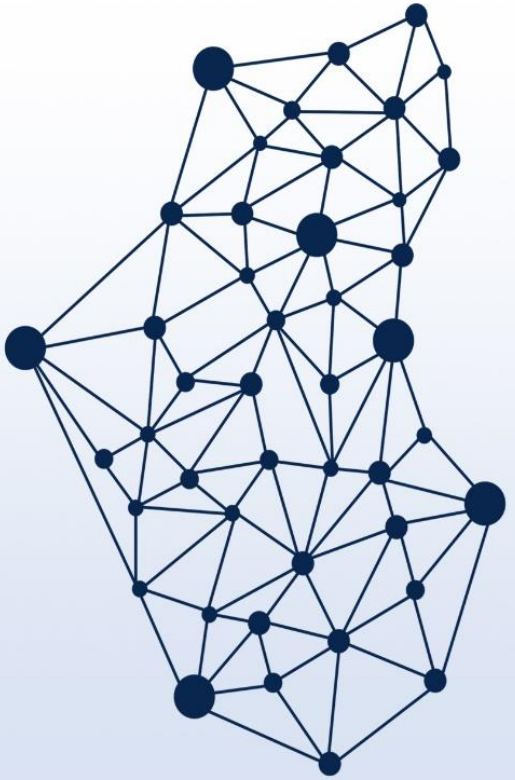
Technology Centre ASCR

ATHENA Research & Innovation Information Technologies



RISIS

RESEARCH INFRASTRUCTURE FOR SCIENCE AND INNOVATION POLICY STUDIES



RISIS

DATASETS AND SERVICES

This project is funded by the European Union under Horizon2020 Research and Innovation Programme Grant Agreement n°824091

RISIS DATASETS: CORE AND NEW

Firm Innovation dynamics
3 datasets concerning world largest firms (**CIB**) European venture capital backed firms (**VICO**) and fast growing mid-sized firms (**Cheetah**).

European Integration
2 datasets dealing with European projects and trans-border programmes (**EUPRO** and **JOREP**) and European public research actors (with **ORGREG** serving a reference database incorporating the **ETER DB** on universities, PROs and university hospitals).

Knowledge dynamics
Output datasets enriched for analysis at actor and metropolitan area levels. Publications with the **CWTS publication database** - ranking and Patents and **RISIS PATENTS** (get rid of accessible through **CIB**), with a demonstrator dataset for the study of emerging technologies (**Nano S&T DB**).

PhD and researcher careers and mobility
Two dataset on doctorate holders (**PROFILE**), mobility and careers of European researchers (**MORE**)

Policy learning
A repository on science and innovation policy evaluations (**SIPER**) linked to the OECD-World Bank IPP platform.

4 new datasets are in development:
EFIL on public funding instruments, **ESID** on social innovation, **TM Trademark** on trademarks, **HR** on non-academic PhD careers.

INTERLINKING OF RISIS DATASETS

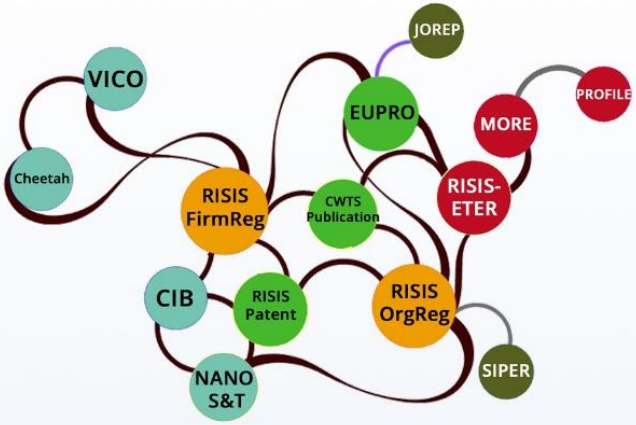


Figure shows the intensity of interlinking: link based on harmonization of actors and/or geography; node size corresponds to the number of links.

THE HEART: RCF

Through **RISIS Core Facility (RCF)** RISIS endows a unique entry point online, with which RISIS user can access a monitored and secured workspace.

RCF objective is to provide a ground-breaking infrastructure for Science, Technology and Innovation (STI) studies.

A workspace designed to distribute services to user interested in jointly exploiting different RISIS datasets and various **Linked Open Data resources**.

Access includes both **physical transnational access**, (on site) and **virtual transnational access.**

RISIS will connect the community enabling far wider exploitation via the opening to the growing number of open access datasets thanks to the **D4Science** capabilities articulated with the RCF.

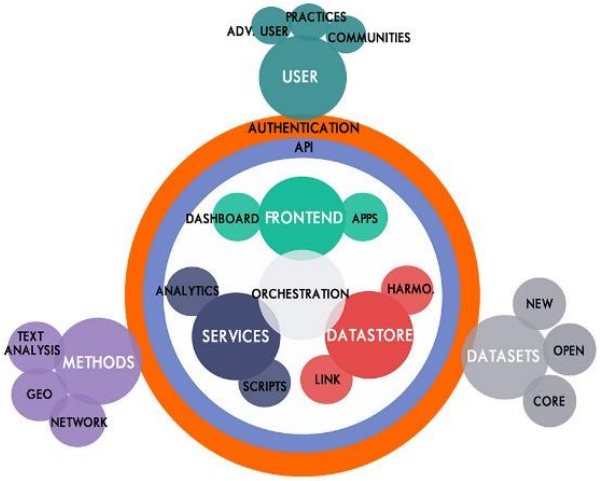


Figure shows the architecture of the RISIS RCF

Three data integration services provide a new resource for combining datasets, both RISIS and external.

RISIS includes **two actor-based registers of 'research perfomers'** : ORGREG for public research, and FIRMREG.

RISIS offers **a new service based on topic identification,** through the ontology tagging service of GATE. This is a major addition because of the rising research interest in analysis at the level of targeted topics not recognizable through existing classifications.

RISIS extended the realm of **semantic analysis tools through CORTEX** (besed on corpuses), with a newly opened geocoding facility, and via a greater range of vizualization services, in particular VosViewer.