



# WP 05- TRAINING

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# Aim of the activity

- Raising research skills needed for using large data
  - RISIS training aims at raising the research skills needed for using large data sets and developing indicators, offering general introductions to the features of the RISIS facilities and focusing on indicators and data handling
- Transferring Knowledge about the potential of RISIS Facilities
  - Training highlights the opportunities for the end-users, displaying several mode of exploitation of the RISIS datasets
- Supplying Evidence of the impact of RISIS on a community of scholars
  - Training is generally associated with the use of one or more datasets, which are shared by RISIS partners and focuses on mobilization of data and indicators for policy analysis and research policy purposes



# Contents of the courses

RISIS courses are designed to supply knowledge about:

- Introduction to the use of the infrastructures (platforms and datasets), including the introduction into theoretical background;
- Indicators and data handling and indicators design;
- Statistic and econometric analysis, scientometric tools (sophisticated treatments methods - not the basics).



# Three types of courses

- **Short courses type A (SCA): one or two-day courses**
  - aimed at illustrating the content and the use of the RISIS datasets;
  - focused on the presentation of the potentialities of the facility;
  - accompanied by a complete documentation, slides and other relevant materials available on the RISIS website.
- **Short courses type B (SCB): two-day training on given subject as**
  - the use of specific dataset(s) and indicators and treatment of heterogeneous data;
  - statistic, econometric and scientometric approaches using the selected dataset(s);
  - new developments of indicators and data analysis (e.g. textual data treatment and web-based indicators).
- **Summer schools (SS): one-week courses covering**
  - thematic issues (for instance, internationalization, collaboration, performance assessment, mapping, etc.);
  - methodological issues (articulating and agglomerating the RISIS databases);
  - policy issues (use of data and indicators for performance assessment, European integration).



# Work-programme

- WP5 foresees at least 30 training activities during the 4 years of RISIS duration.
- The expectation is to have as a minimum:
  - 1 Short course-A per year associated to the data sets/platforms (or combining data sets/platforms);
  - 4 Summer Schools to be harmonized with the existing offer at the university level.



# Coordination and management

- IRCRES CNR is in charge for managing the whole training in close cooperation with the FCB
  - Management the process of submission;
  - Analysis of the RISIS training activities;
  - Reporting activities of the RISIS partners which develops courses.
- A Committee supports the whole activity.

The composition is:

  - Kate Barker (MiOIR),
  - Giovanni Cerulli (IRCRES-CNR),
  - Sybille Hinze (IFQ),
  - Emanuela Reale (IRCRES-CNR),
  - Benedetto Lepori (USI) on behalf of the FCB.



# Management activities

- Preparing the formats for the training activities (proposals, applications and reporting)
- Circulation of the training offers
- Managing the selection process of the courses
- Collecting the short Final Report on each course
- Elaborate an online questionnaire for assessing the courses
- Repository of participants and materials
- Summary for the annual RISIS week

# First presentation of RISIS training

**RISIS** Research Infrastructure for research and innovation policy studies

**7** SEVENTH FRAMEWORK PROGRAM

## TRAINING ACTIVITIES

### GOALS AND ADDED VALUE

**RAISING THE RESEARCH SKILLS NEEDED FOR USING LARGE DATA**  
RISIS TRAINING aims at raising the research skills needed for using large data sets and developing indicators, offering general introductions to the features of the RISIS facilities and focusing on indicators and data handling.

**TRANSFERRING KNOWLEDGE ABOUT POTENTIALITIES OF RISIS FACILITIES**  
Training will highlight the opportunities for the end-users, displaying several mode of exploitation of the RISIS datasets (for instance, application of statistic and econometric analysis and use of scientometric tools).

**SUPPLYING EVIDENCE OF THE IMPACT OF RISIS ON THE SCHOLARS' COMMUNITY**  
Training will be generally associated with the use of one or more datasets, which are shared by RISIS partners and will focus on mobilization of data and indicators for policy analysis and research policy purposes.

### THREE TYPES OF COURSES

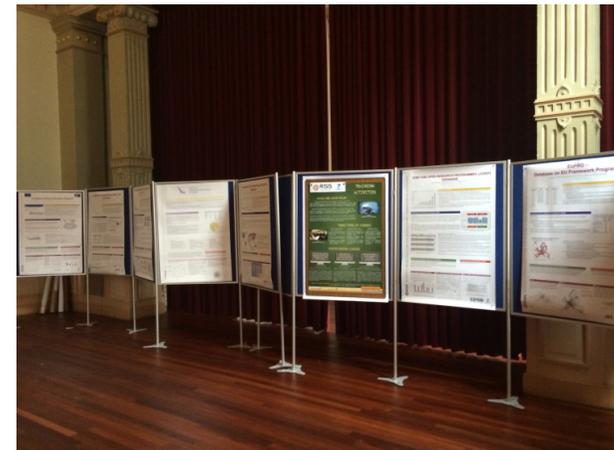
SHORT COURSES TYPE A	SHORT COURSES TYPE B	SUMMER SCHOOLS
<p>One or two-day courses</p> <ul style="list-style-type: none"> <li>aimed at illustrating the content and the use of one (or more) RISIS datasets;</li> <li>focused on the presentation of the potentialities of the facility;</li> <li>accompanied by a complete documentation, slides and other relevant materials available on the RISIS website.</li> </ul>	<p>Two-day training on given subject as</p> <ul style="list-style-type: none"> <li>the use of specific dataset(s) and indicators and treatment of heterogeneous data;</li> <li>statistic, econometric and scientometric approaches using the selected dataset(s);</li> <li>new developments of indicators and data analysis (e.g. lecture data treatment and web-based indicators).</li> </ul>	<p>One-week courses covering</p> <ul style="list-style-type: none"> <li>thematic issues (for instance, internationalization, collaborative performance measurement, indicators);</li> <li>methodological issues (statistical and econometric approaches);</li> <li>policy issues (use of data and indicators for performance assessment, European integration).</li> </ul>

### FORTHCOMING COURSES

Joint and Open Research programmes: features and potentialities of the JOREP database	Applications of multi-level models to research policy and higher education studies	What we know about Venture Capital in Europe: exploring VICO
<p>Venue CERIS CNR, Rome, Italy Date: November 27-28, 2014 Deadline for request participation: October 28, 2014 Contact person: Dr. Emanuele Fede (efede@ceris.cnr.it)</p> <p>The course aims at providing an introduction to multi-level modelling as a research method for RISIS researchers. The course includes the statistical toolbox of the method as well as a practical application through a real-world case study. The former part focuses on the method for multi-level modelling and how it can be applied to research in the field of higher education. The latter part focuses on a practical guidance with using the techniques with RISIS datasets.</p>	<p>Venue UCL, Lugano, Switzerland Date: January 6-10, 2015 Deadline for request participation: September 28, 2014 Contact person: Dr. Benedetto Lepori (blep@ucl.ch)</p> <p>The objective of the course is to describe the characteristics of the VICO dataset and to show the possibilities of the infrastructure database for other available commercial datasets) to early stage researchers interested in entrepreneurial finance, practitioners in the venture capital (VC) industry and policy makers. The course also aims at providing a practical training for the exploitation of the VICO infrastructure to realize descriptive statistics concerning venture capital activity in Europe.</p>	

Contact for RISIS TRAINING: Ceris CNR, Rome - Dr. Andrea Orazio Spinello (RISIS.Training@ceris.cnr.it)  
Call available at <http://www.ceris.cnr.it>

- A poster on training activities was presented in September at the conference on Science and Technology Indicators in Leiden



# Training section on RISIS website

← → ↻ ↕ [risis.eu/training/](http://risis.eu/training/) Contact

**RISIS**  
Research Infrastructure for research and innovation policy studies

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## Training

### Forthcoming courses

SCA: What we know about Venture Capital in Europe: exploring VICO	Politecnico di Milano February 4-5, 2015	<a href="#">LEAFLET</a>
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### Past Courses

SCB: Applications of multi-level models to research policy and higher education studies	USI, Lugano January 8-9, 2015	<a href="#">LEAFLET</a>
SCA: Joint and Open REsearch Programmes: features and potentialities of the JOREP database	IRCI/ES-CNR (former CERIS-CNR), Rome November 27-28, 2014	<a href="#">CALL APPLICATION FORM</a> <a href="#">LEAFLET</a>

### Conditions for participation

RISIS training activities are addressed to all potential users of RISIS datasets:

- Senior scientist, early career researchers and PhD students at the last phase of their PhD training;
- Officers from the policy making level (e.g. funding agencies);
- Research associations.

- No fee to be paid

- Venue of the trainees (travel and accommodation) will be covered only in case of researchers, early researchers and PhDs coming from European countries

- No costs are covered for people not involved in research activities (i.e. people from associations or policy level)

### Goals and Added Value

- A space on the RISIS website is dedicated to the WP Training: [risis.eu/training](http://risis.eu/training)



## Training

RISIS provides training in using the increasing amount of data available about the research and innovation.



# Training materials on RISIS website

- The materials available on the website are:
  - Call permanently open with the indication of the deadlines for submitting (text of the call downloadable)
  - Formats for RISIS partners for presenting proposals of training courses (downloadable Formats of the three types of courses: SCA, SCB, SS)
  - List of courses open with information on aims, contents, deadline for application, etc. (downloadable documents for people that want to apply)
  - List of courses done with information on aims, contents, materials, reporting and assessment
  - Questionnaire to be filled by all the people participating to the Training courses
  - Format for reporting activities at the end of the courses.

# The Evaluation Questionnaire

 **RISIS**  
Research Information for Students  
and International Study for Schools

 Logo of the Organization(s) in charge of the Course

**TITLE of the course**  
Organization name(s), Place and data

01) Why did you choose to attend this course?  
 Actual research interest    Potential research interest    Professional interest  
 Exploration/Curiosity    Other (specify) \_\_\_\_\_

02) Were the course objectives clearly defined?  
 no    rather no    rather yes    yes    no opinion

03) Were the contents of the course consistent with the course description?  
 no    rather no    rather yes    yes    no opinion

04) Has this course stimulated your interest in the subject it dealt with?  
 no    rather no    rather yes    yes    no opinion

05) Was the course well organized?  
 no    rather no    rather yes    yes    no opinion

06) Was the course well structured?  
 no    rather no    rather yes    yes    no opinion

07) Do you think that teaching materials facilitated learning?  
 no    rather no    rather yes    yes    no opinion

08) What were the best features of the course?

09) In your opinion, are there any aspects of the course that might need to be improved?

10) Please rate your overall satisfaction with the course   
(1-10 scale, 1: minimum satisfaction – 10: maximum satisfaction)



# State of affairs

- IRCRES CNR through the Committee provided a preliminary assessment of the proposals, based on the criteria listed in the overall planning. FCB provided the final approval
- The Committee had one face-to-face meeting on June 2014 in order to take decisions about promotion of the training activities, accompanying actions for people submitting ideas, and assessment of the proposals submitted. A summary of the decisions has been transmitted to the FCB on June 2014

# Proposals received

- The following proposals have been received and positively assessed:
  - I SCA course on Joint and Open REsearch Programmes: features and potentialities of the JOREP database (Organizer: IRCRES-CNR) **already done**
  - I SCA course on What we know about Venture Capital in Europe: exploring VICO (Organizer: Politecnico of Milan) **upcoming**
  - I SCB course on Applications of multi-level models to research policy and higher education studies (Organizer: USI) **already done**
  - I SCA course on European Tertiary Education Register facility (Organizer: USI) approved by the Committee, under evaluation of FCB **upcoming**

# The JOREP course (Rome)

November 27-28, 2014

JOINT AND OPEN  
RESEARCH PROGRAMMES

Features and  
potentialities of the  
JOREP database

Short Course



November 27-28, 2014



- Preparation and launch of the call of the course in October 2014
- Dissemination
- Selection of 15 participants



The course trained the participants to figure out and to address research questions on joint programming within the ERA, using the JOREP infrastructure.



- Theoretical framework
- Technical aspects
- Practical sessions
- Statistical analysis

# The multilevel course (Lugano)

January 8-9, 2015

Applications of  
multi-level models  
to research policy  
and higher  
education studies

Short Course



January 8-9, 2015



- It was the first SCB
- This multilevel short course was aimed at providing an introduction to multi-level modeling as a research method for RISIS researchers and give them the tools to apply the method to their work.
- The course was structured on a statistical teaching of the method as well as a guided application through a practical group exercise.



# Challenges - I

- SCA courses proved to be easy to organize and well accepted by participants
  - A different solution is under experiment, with training provided directly in different locations.
  - The number of proposals received is still too low if compared with the work-programme. We expect to improve the number of proposals for this type of courses as soon as the activities linked to the preparation of the infrastructures for opening will be completed



## Challenges - 2

- SCB courses did not receive too much attention from RISIS participants. This means that a strategy toward stimulating the initiatives and proposals from the RISIS community must be elaborated
- RISIS courses proved to be attractive for people outside the participants' organizations. A strategy toward a large involvement of people in the STI field should be prepared by the Committee and discussed with the FCB



## Challenges - 3

- Summer Schools are objects to be more precisely defined by the Committee.
- The Committee should elaborate ideas about possible proposals for Summer School in order to press the RISIS participants to action.



# Programme for the next year

- To address the challenges identified
- To promote the development of at least 4 SCA-SCB courses in 2015
- To promote one Summer-Winter School in 2015