

## Report on SCB Course

Title of the course

**Introduction to methods and applications to the JoREP/EUPRO database with Network Analysis approaches**

Venue

**IRCRES – CNR (Research Institute on Sustainable Economic Growth) – Rome, Italy**

Date

**November 20-21, 2017**

Organizers

**Emanuela Reale; Antonio Zinilli; Andrea Orazio Spinello; Marco De Biase**

Trainers

**Emanuela Reale; Andrea Orazio Spinello; Antonio Zinilli (IRCRES-CNR); Martina Dünser, Thomas Scherngell (AIT – Austrian Institute of Technology)**

Objectives

**The network analysis techniques are important tools to assess the performance in the European research. This statistical tool are useful to explore how the different research partners are related among them in the different transnational research programs. The networked environment provides a great opportunity to understand how these relationships are made; which are the main actors and their role into the system; and how the network operates in order to improve the European R&D system. The aim of the course was to provide an understanding of the potential applicability of these methods to different types of networks and to various research questions related to the Europeanization processes.**

Main results

**The course trained the 14 participants and gave an introduction to descriptive analysis of social network and the basics of using computer software for this purpose. The primary focus was the analysis of relational data measured on European countries. Topics included: an introduction to the main descriptive analysis of network and a short introduction to R; structural and locational properties of countries, such as centrality, density or cluster measures. Then, applications of inferential network analysis from EUPRO and JoREP datasets were performed.**

List of participants: **see ANNEX 1**

Programme: **see ANNEX 2**

Assessment: **see ANNEX 3**

Materials: **available at** <http://risis.eu/event/scb-network-analysis-jorep-eupro/>

# ANNEX 1

## LIST OF PARTICIPANTS

Name and Surname	Organization	Organization country
Leonardo Alaimo	Italian National Institute of Statistics (ISTAT)	IT
Livia Celardo	Università "La Sapienza"-Roma	IT
Paola Conigliaro	Italian National Institute of Statistics (ISTAT)	IT
Anneloes de Ruiter	Technopolis Group -Amsterdam (NL)	NL
Adrià Arias Díaz-Faes	Universitat Politècnica of València (ES)	ES
Desiree Giacomelli	Università "La Sapienza"-Roma	IT
Arash Hajikhani	University of technology (FI)	FI
Tanel Hirv	University of Tartu (EE)	EE
Patricia Laurens	CNRS - LISIS	FR
Cristina Peñasco Patón	University of Cambridge	UK
Angelita Ruvalcaba	FAO- Social Policies and Rural Institutions Division- Roma	IT
Adriana Santacroce	Università "La Sapienza"-Roma	IT
<del>Marco Savastano (absent)</del>	<del>Università "La Sapienza" Roma</del>	<del>IT</del>
Ilaria Tombolini	Università "La Sapienza"-Roma	IT
Lionel Villard	ESIEE/CCIP	FR

# ANNEX 2

## PROGRAMME

### PROGRAMME AND CONTENTS

Introduction to methods and applications to the JoREP/EUPRO database  
with network analysis approaches

IRCrES-CNR, Rome – November 20-21, 2017

#### Day 1 – November 20, 2017

10:00 – 10:30

Welcome: RISIS project and opportunities for researchers \*

10:30 – 11:30

Introduction to the main characteristics of JoREP and EUPRO \*\* ^^

11:30 – 12:30

Basic concepts of Social network analysis \*\*\*

*Lunch*

13:30 – 15:00

Some illustrative examples of SNA and basic network inferential analysis  
from EUPRO and JoREP \*\*\* ^ ^^

*Coffee Break*

15:30 – 16:30

Organization of the laboratory and short introduction in R ^

16:30 – 17:30

Introduction of the case studies and objectives. Creation of groups and provision of data \*\*\* ^

#### Day 2 – November 21, 2017

9:30 – 11:00

Demonstration of case study methodologies (SNA, network visualization, SIM) ^ ^^

*Coffee Break*

11:30 – 12:30

Laboratory work (SNA, network visualization, basic SIM) by groups.  
Interpretation of the results and preparation of the presentations \*\*\* ^ ^^

*Lunch*

13:30 – 15:30

Laboratory work continued \*\*\* ^

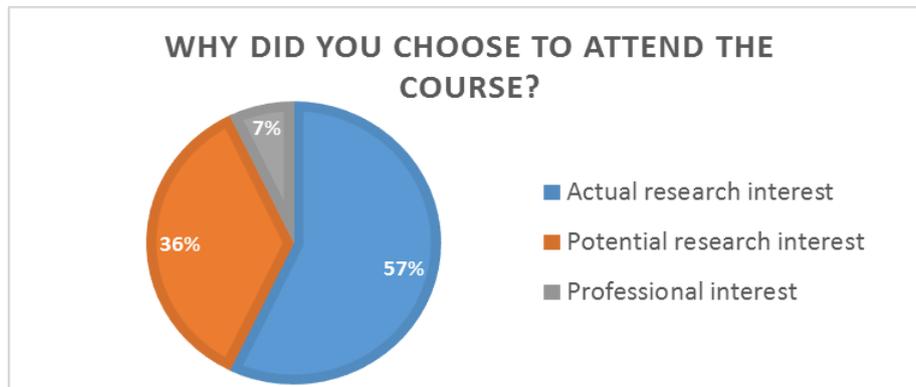
15:30 – 17:30

Presentation by groups and discussion

#### Trainers

**Emanuela Reale\***; **Andrea Orazio Spinello\*\***; **Antonio Zinilli\*\*\***  
**Martina Dünser^**, **Thomas Scherngell^^**

## ANNEX 3 ASSESSMENT



### RATINGS

<i>Were the course objectives clearly defined?</i>	
<i>Were the contents of the course consistent with the course description?</i>	
<i>Has this course stimulated your interest?</i>	
<i>Was the course well organized?</i>	
<i>Was the course well structured?</i>	
<i>Have teaching materials facilitated learning?</i>	
<b>OVERALL SATISFACTION (scale 1-10)</b>	<div style="border: 2px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <span style="font-size: 24px; font-weight: bold;">9.4</span> </div>

### BEST FEATURES

### ASPECTS TO IMPROVE

<p style="color: green;">Very clear and well-organized course with a helpful and enthusiastic teaching staff and amazing logistics</p>	<p style="color: red;">Provision of more teaching materials in advance</p>
<p style="color: green;">The introduction of basic concepts of SNA was very appreciated and the explaining of R tools for SNA as well</p>	<p style="color: red;">One more day for the course</p>
<p style="color: green;">The hands-on experience</p>	