



SAPIENZA
UNIVERSITÀ DI ROMA

Dipartimento di Scienze Statistiche



Conference of European Statistics Stakeholders

Methodologists, Producers and Users of European Statistics

Rome, 24-25 November 2014

Conference Venue

Morning 24 November, 2014, Aula Magna, Rectorate, Sapienza University of Rome, P.le A. Moro 5

Afternoon 24 and Day 25 November, Sapienza University of Rome, Sapienza didactic building via Caserta 6



2014 Italian
Presidency of the Council
of the European Union

***Conference of European Statistics Stakeholders
Methodologists, Producers and Users of European Statistics***
Rome, 24-25 November, 2014

Organized by

Federation of European National Statistical Societies (FENStatS)
EUROSTAT
European Statistical Advisory Committee (ESAC)
Italian National Institute of Statistics (Istat)
Società Italiana di Statistica SIS-VSP
Department of Statistical Sciences, Sapienza University of Rome

Scientific Steering Committee

Walter Radermacher, Director General of Eurostat, Co-organizer
Maurizio Vichi, President FENStatS, Co-organizer

Anne Gégout-Petit, President of the French Statistical Society,
Giorgio Alleva, President ISTAT,
Leandro Pardo Llorente, President of the Spanish Society of Statistics and Operations Research.
John Pullinger, UK National Statistician, Past President of The Royal Statistical Society,
Aurel Schubert, Director General Statistics European Central Bank,
Ineke Stoop, ESAC,
Wolfgang Schmid, President of the German Statistical Society,
Nicola Torelli, President of the Italian Statistical Society,

Scientific Program Committee

Emanuele Baldacci, Istat
Patrizia Cacioli, Istat
Roberto Barcellan, Eurostat
Martin Karlberg, Eurostat
Giuliana Coccia, SIS-Vsp
Fabio Crescenzi, SIS-Vsp
Donatella Vicari, Sapienza University of Rome

General Information

The scientific program includes plenary, invited and contributed sessions with oral presentation in English.

Language

The official language of the conference is English

A selection of fully peer-reviewed papers will be published in the Springer Series *Selected Papers of the Statistical Societies* (<http://www.springer.com/series/10107>).

PROGRAMME

Morning 24 November 2014

Aula Magna, Rectorate - Sapienza University of Rome

Piazzale Aldo Moro 5

8.15 – 8.45 Registration

08.45 – 09.30 Opening

Eugenio Gaudio, Rector Sapienza University of Rome

Fabio Grasso, Head of the Department of Statistical Science

Walter Radermacher, Co-organizer, Director General Eurostat

Maurizio Vichi, Co-organizer, President FENStatS

09.30 – 10.50 Keynote talks

European statistics and Europe 2020

09.30 – 09.50 Walter Radermacher, Director General Eurostat

09.50 – 10.10 Maurizio Vichi, President FENStatS

10.10 – 10.30 Ineke Stoop, Chair of ESAC

10.30 – 10.50 Andrea Saltelli, Head of Econometrics and applied statistics unit, Joint Research Centre

10.50 – 11.10 Special guest talk

Statistics making an impact for Europe 2020

John Pullinger, National Statistician of UK, Royal Statistical Society

11.10 – 11.40 Coffee break

11.40 – 13.00 Panel discussion

Enhancing collaboration among Statistics Stakeholders and Research for Europe 2020

Chair: Giorgio Alleva, President Istat

Speakers:

Leandro Pardo LLorente, President of the Spanish Society of Statistics and Operations Research

[Karl Mosler](#), Vice-President of the German Statistical Society

Anne Gégout-Petit, President of the French Statistical Society

Lidia Bratanova, Chief Statistician UNECE

Marjo Bruun, Director General, Statistics Finland

Transfer by walking from Aula Magna to Sapienza - Didactic building, via Caserta 6 (600 meters, 7 minutes)

13.00 – 14.20 Lunch

Lunch in the Roof Garden of the Sapienza Didactic building, via Caserta 6

Afternoon 24 November 2014

Didactic building - Sapienza University of Rome
Via Caserta 6

Invited Session 1: 14.20 – 15.30 Room 1

Modernisation of Statistical Production Processes: Vision, Experiences and Challenges

Chair: Emanuele Baldacci, Istat

- 14.20– 14.35 [Trends in modernisation of official statistics](#)
Mariana Kotzeva, EC Eurostat
- 14.35– 14.50 [Modernizing Modernization](#)
Bert Kroese, Barteld Braaksma, Marton Vucsan, Statistics Netherlands
- 14.50– 15.05 [Modernisation of Statistical Production and Services – a Global Perspective](#)
Steve Vale, UNECE
- 15.05 – 15.20 [A Business Architecture Model to foster standardisation in official statistics](#)
Nadia Mignolli, Giulio Barcaroli, Piero Demetrio Falorsi, Alessandra Fasano, Istat
- 15.20 – 15.30 Discussion

Invited Session 2: 14.20 – 15.30 Room 2

European Statistics on Justice Systems: the Picture of a Poor Reality

Chair: Ildefonso Villán Criado, ESAC

- 14.20– 14.40 The EU Justice Scoreboard: Challenges in data gathering on the effectiveness of justice systems
Elsa Garcia-Maltrás, Directorate-General Justice, European Commission
- 14.40– 15.00 [Judicial enforcement procedures and credit: lessons from the last decade in Spain](#)
Juan S. Mora-Sanguinetti, Miguel García-Posada, Bank of Spain
- 15.00– 15.20 [Lights and shadows of the Italian judicial system: first steps towards accountability](#)
Maria Giuseppina Muratore, Istat
- 15.20 – 15.30 Discussion

Invited Session 3: 14.20 – 15.30 Room 3

The Challenges for Environmental Data Stakeholders

Chair: Daniela Cocchi, University of Bologna

- 14.20– 14.35 Measures of Risk: Advances and New Perspectives for Environmental Risk Assessment
Jose Miguel Angulo Ibanez, University of Granada
- 14.35– 14.50 Use of atmospheric pollution data at INERIS, the French National Institute for Industrial
[Environment and Risks, to support the assessment and management of air quality](#)
Laure Malherbe, INERIS France
- 14.50– 15.05 [Environmental data production and exploitation at Arpa E-R, the Regional Environmental Protection Agency of Emilia-Romagna, Italy](#)
Stefano Tibaldi, Director, ARPA Emilia-Romagna
- 15.05 – 15.20 [Multivariate hidden Markov models as tools for marine atlas development](#)
Francesco Lagona, University Roma Tre
- 15.20 – 15.30 Discussion

Solicited Session 4: 14.20 – 15.30 Room 4

Spatial Statistical Methods for Official Statistics

Chair: Robert Haining, University of Cambridge

- 14.20 – 14.35 [Alternative model specifications for regression estimated on big spatial datasets](#)
Giuseppe Arbia, Catholic University of Sacred Heart

- 14.35 – 14.50 [Benchmarking methods for space and time unit level EBLUP estimators](#)
Michele D'Alò, Lorenzo Di Biagio, Stefano Falorsi, **Andrea Fasulo**, Fabrizio Solari, Istat
- 14.50 – 15.05 [Use of geo-referenced information for statistical purposes](#)
Elisabetta Carfagna, University of Bologna; Simone Maffei Terranova GIS; Andrea Carfagna
- 15.05 – 15.20 [Toward a data-and-policy spatially integrated system in the local context: From evidence-informed to policy-motivated statistical knowledge](#)
Włodzimierz Okrasa, Central Statistical Office of Poland
- 15.20 – 15.30 Discussion

Invited Session 5: 15.30 – 16.40 Room 1
Economy Finance and Business Statistics for Europe 2020

Chair: Mauro Politi, Istat

- 15.30 – 15.45 [Financial Statistics for Europe 2020](#)
Aurel Schubert, Director General Statistics, European Central Bank
- 15.45 – 16.00 [How to measure the quality of Financial tweets](#)
Paola Cerchiello, **Paolo Giudici**, University of Pavia
- 16.00 – 16.15 [Improving business statistics for small domains](#)
Maria Rosaria Ferrante, **Silvia Pacei**, University of Bologna
- 16.15 – 16.30 [International trade and investment: improving our knowledge about competitive advantages](#)
Fabrizio Onida, University of Milan-Bocconi
- 16.30 – 16.40 Discussion

Invited Session 6: 15.30 – 16.40 Room 2
Visualising Statistics in the E-society

Chair: Vittoria Buratta, Istat

- 15.30 – 15.45 Big Data and Visual Analytics for Health Care Systems Performance Assessment
Orestis Tsigkas and Michail Skaliotis, EC - Eurostat
- 15.45 – 16.00 [Data-Visualisation: From Tool to Mother Tongue](#)
Michael Neutze, Sibylle von Oppeln-Bronikowski Federal Statistical Office of Germany
- 16.00 – 16.15 [Web services for spatial temporal comparison of statistical indicators](#)
Pina Ticca, Istat
- 16.15 – 16.30 [Preparation of reproducible statistical reports](#)
Andrej Blejec, Statistical Society of Slovenia, National Institute of Biology
- 16.30 – 16.40 Discussion

Contributed Session 7: 15.30 – 16.40 Room 3
New Methods for Data Collection and Control

Chair: [Karl Mosler](#), University of Cologne

- 15.30 – 15.45 [A Methodological and Computational Framework for Statistical Disclosure Control](#)
Matthias Templ, Alexander Kowarik, Bernhard Meindl, Austrian Statistical Society, Vienna
- 15.45 – 16.00 [The Economic e-Census in Tuscany: effects of the data collection strategy on the response rates](#)
Luca Faustini, Sabina Giampaolo, Alessandro Valentini, Istat
- 16.00 – 16.15 [Experiments on internet and mixed-mode data collection at Insee](#)
Olivier Sautory, Gaël de Peretti, Tiaray Razafindranovona, Insee
- 16.15 – 16.30 [User-focused threat identification for anonymised microdata](#)
Hans-Peter Hafner, Saarland State University; Felix Ritchie, University of the West of England; Rainer Lenz, Technical University of Dortmund
- 16.30 – 16.45 [Istatel Project: computerization of the data collection process on population statistics](#)
Roberto Bartoli, Carla Camilloni, Cristina Cesaroni, Carla Rubbo, Istat

Contributed Session 8: 15.30 – 16.40 Room 4
What Statistics can Measure and How: Defining European Statistics with a 2020 Time Horizon

Chair: Matilde Bini, European University of Rome, SIS-VSP

- 15.30 – 15.45 [Are the Central and East European Countries attracting the appropriate type of foreign direct investments?](#)
Vasile Alecsandru Strat, Bucharest University of Economic Studies
- 15.45 – 16.00 [Revised definitions for statistical units - methodology, application and user needs](#)
Roland Sturm, Federal Statistical Office Germany
- 16.00 – 16.15 Displaying empirical distributions with conditional quantile estimators: an application of symbolic data analysis to the cost allocation problem in agriculture
Dominique Desbois, UMR Economie publique, INRA-AgroParisTech
- 16.15 – 16.30 [The boundary of public sector in National Accounts versus IPSAS](#)
Giovanna Dabbicco, Istat, University Naples Parthenope
- 16.30 – 16.45 Morbidity Statistics in the EU – key results from pilot studies in sixteen member states
Monica Pace, Istat; Hartmut Buchow, Eurostat

16.40 – 17.10 Coffee break

Invited Session 9: 17.10 – 18.20 Room 1
Cross-national Surveys: Data Collection and Analysis

Chair: Ineke Stoop, Chair ESAC

- 17.10 – 17.30 [Developing comparability in Eurofound surveys: focus on input harmonisation and translation](#)
Tadas Leoncikas, European Foundation for the Improvement of Living and Working Conditions
- 17.30 – 17.50 [Choosing the Number of Categories in Agree–Disagree Scales](#)
Melanie Revilla, Universitat Pompeu Fabra
- 17.50 – 18.10 [Seeing the Hidden Part of the Iceberg: Gauging the Real Dimension of International Migration](#)
Adrian Otoiu, Bucharest Academy of Economic Studies ;Emilia Titan, ESAC, Bucharest Academy of Economic Studies
- 18.10 – 18.20 Discussion

Invited Session 10 : 17.10 – 18.20 Room 2
Poverty and Social Exclusion: Enhancing Capacity to Measure Employment and Social Developments

Chair: Linda Laura Sabbadini, Istat

- 17.10 – 17.25 [The absolute measure of poverty: a key indicator to design policies](#)
Cristina Freguja, Nicoletta Pannuzi, Istat
- 17.25 – 17.40 [The Italian Active inclusion System](#)
Raffaele Tangorra, Ministry of Labour and Social Affairs
- 17.40 – 17.55 [Behind and beyond the \(headcount\) employment rate](#)
Andrea Brandolini, **Eliana Viviano**, Banca d'Italia
- 17.55 – 18.10 [Measuring poverty and living conditions at small area level](#)
Monica Pratesi, University of Pisa; Alessandra Petrucci, University of Florence
- 18.10 – 18.20 Discussion

Invited Session 11: 17.10 – 18.20 Room 3
The Combined use of Administrative Sources and Statistical Surveys, an Incoming Revolution for Statistical Stakeholders

Chair: Fabio Crescenzi, Istat, SIS-Vsp

- 17.10 – 17.25 [Research into using administrative data and surveys to produce census and population statistics – ONS Beyond 2011 Programme, England and Wales](#)
Andy Teague, ONS UK

Commento [M1]: Anche nell'abstract

- 17.25 – 17.40 [The Dutch Census 2011](#)
Eric Schulte Nordholt, CBS NL
- 17.40 – 17.55 Statistical Matching in complex survey data: beyond the conditional independence assumption
Pier Luigi Conti, Sapienza University of Rome; **Daniela Marella**, University of Roma tre
- 17.55 – 18.10 [Supporting the statistical utilization of administrative data sources: Istat's activities and tools](#)
Giovanna D'Angiolini, Pierina De Salvo, Andrea Passacantilli, Istat
- 18.10 – 18.20 Discussion

Invited Session 12: 17.10 – 18.20 Room 4
On the impact of modernisation

Chair: Mariana Kotzeva, EC Eurostat

- 17.10 – 17.30 Changing UK Official Statistics System - Getting it right
John Pullinger, UK National Statistician
- 17.30 – 17.50 [Modernization @ work: lessons learned](#)
Emanuele Baldacci
- 17.50 – 18.10 [Implementing Vision 2020; which will the new interfaces be between the stakeholders of the European Statistical System?](#)
Roberto Barcellan, EC Eurostat
- 18.10 – 18.20 Discussion

Morning 25 November 2014

Didactic building - Sapienza University of Rome Via Caserta 6

Contributed Session 13: 08.30 – 9.40 Room 1 Analysing and Summarising Large Sets of Indicators

Chair: Vincenzo E. Vinzi, ESSEC Business School

- 08.30 – 08.45 [The MIMIC model to predict economic public opinions through macro-economic indicators in Europe](#)
Maurizio Carpita, University of Brescia, Enrico Ciavolino, **Mariangela Nitti**, University of Salento
- 08.45 – 09.00 [Summarizing Data using Partially Ordered Set Theory: An application to fiscal frameworks in 97 countries](#)
Julia Bachtrögl, Harald Badinger, Aurélien Fichet de Clairfontaine, Wolf Heinrich Reuter, Vienna University of Economics and Business
- 09.00 – 09.15 [Interval Based Composite Indicators](#)
Carlo Drago, University of Rome "Niccolò Cusano"
- 09.15 – 09.30 [Non-compensatory Composite Indices for Measuring Changes over Time: A Comparative Study](#)
Matteo Mazziotta, Adriano Pareto, Istat
- 09.30 – 09.40 Discussion

Contributed Session 14: 08.30 – 09.40 Room 2 Analysis and Estimation of Survey Data

Chair: Pier Luigi Conti, Sapienza University of Rome

- 08.30 – 08.45 [Streamlining data editing at Statistics Spain](#)
Silvia Rama, **David Salgado**, Spanish National Statistical Institute
- 08.45 – 09.00 Estimation of Non-Registered Usual Residents in the Netherlands, ultimo September 2010
Bart F.M. Bakker, Statistics Netherlands & VU University Amsterdam; Susanna Gerritse, Peter G.M. van der Heijden, Utrecht University; Jan van der Laan Statistics Netherlands, Rik van der Vliet, Maarten Cruyff, Utrecht University
- 09.00 – 09.15 Analysis of Survey Data under Informative Sampling Design and Nonignorable Nonresponse Mechanism
Abdulhakeem Eideh, Al-Quds University
- 09.15 – 09.30 Pairwise likelihood estimation based on a sample of pairs
Ioulia Papageorgiou, Athens University of Economics and Business; Irini Moustaki, London School of Economics and Political Science
- 09.30 – 09.40 Discussion

Solicited Session 15: 08.30 – 09.40 Room 3 Methods for Analysing Big Data in the Context of Official Statistics

Chair: Roberto Barcellan, EC Eurostat

- 08.30 – 08.45 Processes and methods for Big Data: a traffic index based on huge amounts of road sensor data
Piet Daas, **Marco Puts**, Saskia Ossen and Martijn Tennekes, Statistics Netherlands
- 08.45 – 09.00 [Handling missing data in large data sets](#)
Agostino Di Ciaccio, Sapienza University of Rome
- 09.00 – 09.15 Big-data, self-selection, predictions in real-time, intangible variables, opinion and sentiment manipulation: the landing in the future of business statisticians
Furio Camillo, University of Bologna
- 09.15 – 09.30 [Data Linking: A Common Project for Official Statistics](#)
Tiziana Tuoto, Istat; Phillip Gould, Australian Bureau of Statistics; Allyson Seyb, Statistics New Zealand; Nicoletta Cibella, Monica Scannapieco, Mauro Scanu, Istat
- 09.30 – 09.40 Discussion

Solicited Session 16: 08.30 – 09.40 Room 4
New Challenges for Improving Survey Analysis

Chair: Rosanna Verde, Second University of Naples

- 08.30 – 08.45 [Some fallacies and remedies in secondary data analysis for survey data](#)
Giancarlo Manzi, University of Milan; Sonia Stefanizzi, University of Mila-Bicocca; Pier Alda Ferrari, University of Milan
- 08.45 – 09.00 [The best model of a cat is the cat itself](#)
Gejza Dohnal, Czech Technical University in Prague
- 09.00 – 09.15 SiGeoS: a user-friendly tool to visualise and communicate statistics
Antonella Bianchino, Istat; Annamaria Grippo, Regione Basilicata; Salvatore Cariello, Istat
- 09.15 – 09.30 [Measuring the at-risk-of-poverty rate at local level](#)
Ralf Münnich, University of Trier
- 09.30 – 09.40 Discussion

Solicited Session 17: 09.40 – 10.50 Room 1
Graphical and Network Models and Analysis in the Context of Official Statistics

Chair: Leandro Pardo LLorente, Universidad Complutense de Madrid

- 09.40 – 09.55 [Extracting association rules from two-mode networks](#)
Giuseppe Giordano, University of Salerno; Raffaele Miele, CRISMA
- 09.55 – 10.10 [Identification and Estimation of Outcome Response with Heterogeneous Treatment Externalities](#)
Tiziano Arduini, **Eleonora Patacchini**, Edoardo Rainone, Sapienza University of Rome
- 10.10 – 10.25 [Bayesian Network in effectiveness of education](#)
Federica Cugnata, University of Turin; Giovanni Perucca Polytechnic University of Milan; **Silvia Salini**, University of Milan
- 10.25 – 10.40 [Detecting Influential Observations for Graphical Models](#)
Avner Bar-Hen, University of Paris Descartes; **Jean-Michel Poggi**, University Paris-Sud Orsay
- 10.40 – 10.50 Discussion

Invited Session 18: 09.40 – 10.50 Room 2
New Challenges in the Analysis of Longitudinal Data

Chair: Francesco Battaglia, Sapienza University of Rome

- 09.40 – 10.00 [Three-step estimation of latent Markov models](#)
Francesco Bartolucci, Giorgio Eduardo Montanari, Silvia Pandolfi, University of Perugia
- 10.00 – 10.20 Modelling pollutants' evolution and association over time: a time-varying latent class approach
Antonello Maruotti, University of Roma Tre and Southampton
- 10.20 – 10.40 [Bayesian non-parametric model to longitudinally predict churn](#)
Bruno Scarpa, University of Padua
- 10.40 – 10.50 Discussion

Solicited Session 19: 09.40 – 10.50 Room 3
New Challenges in Spatio-Temporal Data Modeling and Monitoring

Chair: Giuseppe Arbia, Catholic University of Sacred Heart

- 09.40 – 09.55 WebGis and Geostatistical Techniques for Monitoring Potential Radon in Soil
Sabrina Maggio, Veronica Distefano, **Alessandra Spennato**, University of Salento
- 09.55 – 10.10 Generalised Regressions For Spatially and Spatio-Temporally Correlated Data
Lara Fontanella, **Luigi Ippoliti**, Pasquale Valentini, University G. d'Annunzio Chieti-Pescara
- 10.10 – 10.25 [Small area estimation for classifying change: Bayesian modelling applied to crime data](#)
Robert Haining, University of Cambridge
- 10.25 – 10.40 [Monitoring spatially dependent data coming from sensors: an approach based on functional data analysis](#)

- Elvira Romano**, Antonio Balzanella, Second University of Naples
 10.40 – 10.55 Spatio-temporal modeling and some applications
 Sandra De Iaco, Sabrina Maggio, Monica Palma, **Donato Posa**, University of Salento

Solicited Session 20: 09.40 – 10.50 Room 4
New Methodological Challenges for Official Statistics

Chair: Giuliana Coccia, Istat, SIS-Vsp

- 09.40 – 09.55 [A new paradigm for modelling ordinal responses in sample surveys](#)
Maria Iannario and Domenico Piccolo, University of Naples Federico II
 09.55 – 10.10 [Childhood obesity and CUB models: a new perspective](#)
 Corrado Crocetta, University of Foggia; Emma Zavarrone, Vincenzo Russo, University IULM;
 Barbara Cafarelli, University of Foggia; Laura Antonucci, **Laura Milani**, Sandra De Francisci,
 University IULM
 10.10 – 10.25 Skewness-kurtosis adjusted confidence estimators and significance tests
Wolf-Dieter Richter, University of Rostock
 10.25 – 10.40 [A Procrustes-based approach for comparing relational datasets](#)
 Simona Balbi, Federico II University of Naples; **Michelangelo Misuraca**, University of Calabria;
 Agnieszka Stawinoga, Federico II University of Naples
 10.40 – 10.50 Discussion

10.50 – 11.20 Coffee break

Invited Session 21: 11.20 – 12.30 Room 1
Central Banking Statistics – Expanding Production Frontiers

Chair: Aurel Schubert, DG Statistics ECB

- 11.20 – 11.40 [Regulatory data used for macroprudential policymaking: the UK residential mortgage market](#)
Mark H Robson, Head of Statistics and Regulatory Data, Bank of England
 11.40 – 12.00 [Reaping the benefits of using integrated micro-data for statistical purposes](#)
João Cadete de Matos, Director, Statistics Department, Bank of Portugal
 12.00 – 12.20 [Integration: a key-word for success in statistical production](#)
Grazia Marchese, Bank of Italy
 12.20 – 12.30 Discussion

Invited Session 22: 11.20 – 12.30 Room 2
Classification and Clustering

Chair: Salvatore Ingrassia, Univeristy of Catania

- 11.20 – 11.35 [Robust clustering of customs data](#)
Andrea Cerioli, Domenico Perrotta, Francesca Torti, Marco Riani, University of Parma
 11.35 – 11.50 [Mode Validation for Nonparametric Clustering](#)
Marco Perone Pacifico, Sapienza University of Rome
 11.50 – 12.05 fclust: a toolbox for fuzzy clustering using the R programming language
 Maria Brigida Ferraro, **Paolo Giordani**, Sapienza University of Rome
 12.05 – 12.20 Clustering spatial networks through latent mixture models: an application to local labour market
 identification
 Francesco Pauli, **Nicola Torelli**, Susanna Zaccarin, University of Trieste
 12.20 – 12.30 Discussion

Invited Session 23: 11.20 – 12.30 Room 3
New Challenges for Environmental and Agricultural Statistics

Chair: Francesco Lagona, University of Roma Tre

- 11.20 – 11.35 Statistical problems in earth observing systems: the case of radiosonde collocation uncertainty
Alessandro Fasso', University of Bergamo
- 11.35 – 11.50 [Environmental monitoring through biodiversity functional measures](#)
Tonio Di Battista, **Francesca Fortuna** and Fabrizio Maturo, University G. D'Annunzio Chieti-Pescara
- 11.50 – 12.05 [EEA indicators supporting European policies](#)
Roberta Pignatelli, European Environment Agency
- 12.05 – 12.20 [How to produce and communicate Agricultural Statistics](#)
Éva Zita Laczka, Hungarian Central Statistical Office
- 12.20 – 12.30 Discussion

Invited Session 24: 11.20 – 12.30 Room 4

Advanced Communication for Statistics of Europe 2020

Chair: Patrizia Cacioli, Istat

- 11.20 – 11.35 [Tracking users for a targeted dissemination](#)
Philippe Bautier, Chris Laevaert, **Bernard Le Goff**, EC Eurostat
- 11.35 – 11.50 [Innovation goal: recent developments of Istat Communication](#)
Giulia Mottura, Anna Tononi, Istat
- 11.50 – 12.05 [Digital Content: Official Data in a New Light](#)
Alan Smith, ONS
- 12.05 – 12.20 Beyond Data Visualization: (Communication) Design Tactics to Embrace Complexity
Paolo Ciuccarelli, Polytechnic University of Milan
- 12.20 – 12.30 Discussion

Invited Session 25: 12.30 – 13.40 Room 1

Measuring the Progress of Europe 2020

Chair: Walter Radermacher, EC Eurostat

- 12.30 – 12.50 Equitable and Sustainable Wellbeing: from measurement to policy
Enrico Giovannini, University of Tor Vergata
- 12.50 – 13.10 Europe 2020 at the half-way point: working toward better indicators for social policy making in the EU
Radek Maly Head of Unit Social Analysis at DG Employment
- 13.10 – 13.30 Partnerships to measure progress
Denise Lievesley, Head of the King's College London
- 13.30 – 13.40 Discussion

Invited Session 26: 12.30 – 13.40 Room 2

Methods for Analysing Complex Data

Chair: Donatella Vicari, Sapienza University of Rome

- 12.30 – 12.50 Text Mining Infrastructures for Search
Sophia Ananiadou, Director of The National Centre for Text Mining (NaCTeM)
- 12.50 – 13.10 [iSA: a novel, fast, scalable and accurate algorithm designed to perform sentiment analysis over social network data](#)
Andrea Ceron, Luigi Curini, **Stefano Maria Iacus**, University of Milan
- 13.10 – 13.30 [The Symbolic Approach for Survey Analysis: From Micro-Data to Macro-Data](#)
Paula Brito, University of Porto
- 13.30 – 13.40 Discussion

Contributed Session 27: 12.30 – 13.40 Room 3

Advances and Applications for Official Statistics

Chair: Corrado Crocetta, University of Foggia, SIS-VSP

- 12.30 – 12.45 [A Multilevel Analysis of Population Registers' Coverage Error in the 15th Italian Census](#)
Luca Mancini, Simona Toti, Istat
- 12.45 – 13.00 Distributed Access to Linked Microdata: the Example of ICT and Exports
Eva Hagsten, Statistics Sweden
- 13.00 – 13.15 [Hard to reach populations as a challenge for European statistics - experiences based on survey research of the EU Agency for Fundamental Rights](#)
David Reichel, Sami Nevala, **Ursula Till-Tentschert**, European Union Agency for Fundamental Rights
- 13.15 – 13.30 [Applying LDA topic model to a corpus of Italian Supreme Court decisions](#)
Paolo Fantini and Pierpaolo Brutti, Sapienza University of Rome
- 13.30 – 13.45 [The merits of micro-aggregated linked firm-level data: An application of labour demand by SMEs for 14 European Countries](#)
Martin Falk, Eva Hagsten, WIFO

Contributed Session 28: 12.30 – 13.40 Room 4
Improving Statistical Literacy and Communication

Chair: Maria João Casanova de Araújo e Sá Valente Rosa, ESAC

- 12.30 – 12.45 [Assessment of statistical literacy: a pilot survey on college students. The case of University of Pisa](#)
Alessandro Valentini, Istat; Monica Pratesi, University of Pisa; Bianca Maria Martelli, Silvia Da Valle, Luca Faustini, Linda Porciani, Graziella Sanna, Claudia Tinelli, Istat
- 12.45 – 13.00 [JRF Data - NEW interactive data visualisation tool](#)
Aleksandra Collingwood, Joseph Rowntree Foundation
- 13.00 – 13.15 [Minos: a journey through sport, theatre and statistic culture](#)
Cristina Carbonari, Michela Ciaffarà, **Francesca Paradisi**, Istat
- 13.15 – 13.30 [How to increase statistical literacy in primary school: a project of the Istat territorial network](#)
Susi Osti, **Silvia Da Valle**, Paola Francesca Cortese, Alessandro Valentini, Istat
- 13.30 – 13.45 [Communicating through Social Networking Tools in Istat](#)
Ariella Martino, **Michela Troia**, Istat

13.40 – 14.40 Lunch

Lunch in the Roof Garden of the Sapienza didactic building, via Caserta 6

Afternoon 25 November 2014

Sapienza didactic building, via Caserta 6

Invited Session 29: 14.40 – 15.50 Room 1

Advances in Summarizing Large Sets of Indicators

Chair: Maurizio Vichi, Univeristy of Rome, President FENStatS

- 14.40 – 14.55 [Quality and aggregation issues in GDP and beyond: insights from the OECD Better Life Initiative](#)
Carlotta Balestra, OECD
- 14.55 – 15.10 [Lost in Aggregation](#)
Michaela Saisana, Andrea Saltelli, Paolo Paruolo, JRC
- 15.10 – 15.25 Component-based Multi-block Path Modeling for building Composite Indicators
Laura Trinchera, NEOMA Business School; Giorgio Russolillo, CNAM; **Vincenzo E. Vinzi**, ESSEC Business School, President-Isbis
- 14.25 – 15.40 Official Statistics and Composite Indicators: Developing the Innovation Output Indicator
Carsten Olsson, Eurostat
- 15.40 – 15.50 Discussion

Invited Session 30: 14.40 – 15.50 Room 2

Statistical Literacy and Accreditation of Statistical Professionalism

Chair: Nicola Torelli, University of Trieste, President SIS

- 14.40 – 14.55 [How to Improve Statistical Literacy?](#)
Anuska Ferligoj, ESAC, University of Ljubljana
- 14.55 – 15.10 [EMOS - European Master in Official Statistics](#)
Markus Zwick, EC - Eurostat
- 15.10 – 15.25 [Statistical Professionalism: Recognising Impact for the Public Good](#)
Roeland Beerten, Royal Statistical Society
- 15.25 – 15.40 [Statistics at MOX: an excursion in high dimensional and complex data analysis](#)
Piercesare Secchi, Polytechnic University of Milan
- 15.40 – 15.50 Discussion

Contributed Session 31: 14.40 – 15.50 Room 3

Analysing and Measuring Inequality, Poverty and Social Problems

Chair: Eduardo Barredo, EC Eurostat

- 14.40 – 14.55 [Collecting survey data to support fundamental rights policies in the EU](#)
Sami Nevala; David Reichel, **Ursula Till-Tentschert** European Union Agency for Fundamental Rights
- 14.55 – 15.10 [Estimating equivalised income inequality in small areas](#)
Enrico Fabrizi, University Cattolica of S Cuore; **Maria Rosaria Ferrante**, Carlo Trivisano, University of Bologna
- 15.10 – 15.25 [Poverty in Europe: the obscured message of official statistics](#)
Jean-François Royer, Société française de statistique
- 15.25 – 15.40 [The causes of Polish emigration: a latent class analysis approach](#)
Ewa Genge, University of Katowice
- 15.40 – 15.50 Discussion

Solicited Session 32: 14.40 – 15.50 Room 4

New Challenges for Data Analysis in Official Statistics

Chair: Paula Brito, University of Porto

- 14.40 – 14.55 [Data reduction and visualization for categorical data](#)

- Alfonso Iodice D'Enza**, University of Cassino; Michel van de Velden, Erasmus University of Rotterdam; Francesco Palumbo, University of Naples Federico II
- 14.55 – 15.10 Multidimensional Scaling for Latent Dissimilarity Data
J. Fernando Vera, University of Granada
- 15.10 – 15.25 [A multi item scale to assess entrepreneurship levels in the Italian agriculture](#)
Benedetto Rocchi, Gianluca Stefani, Chiara Landi, Massimo Greco, Daniela Fusco, Paola Giordano and Valerio Moretti, Istat
- 15.25 – 15.40 Modelling the Passenger Satisfaction of the Public Transportation Services: The Metro Brescia Survey
Luigi D'Ambra, University of Naples Federico II; Maurizio Carpita, University of Brescia; Enrico Ciavolino, University of Salento
- 15.40 – 15.50 Discussion

Invited Session 33: 15.50 – 17.00 Room 1
Data protection

Chair: Zsuzsanna Belenyessy, European Data Protection Supervisor

- 15.50 – 16.05 [Big data may be more personal than it appears!](#)
Achim Klabunde, Head of IT Policy, European Data Protection Supervisor
- 16.05 – 16.20 [Policies for a fair re-use of data: Big Data and the application of anonymisation techniques](#)
Giuseppe d'Acquisto, Italian Data Protection Authority
- 16.20 – 16.35 [Privacy principles under pressure in the age of Big Data analytics](#)
Catharina Nes, Senior Advisor, Norwegian Data Protection Authority
- 16.35 – 16.50 [Indirect questioning and protection of privacy in sample surveys](#)
Tasos C Christofides, ESAC, University of Cyprus
- 16.50 – 17.00 Discussion

Invited Session 34: 15.50 – 17.00 Room 2
Methods for Analysing Big Data in the Context of Official Statistics

Chair: Pieter Everaers, EC Eurostat

- 15.50 – 16.05 [Big Data Analysis: Experiences and Best Practices in Official Statistics](#)
Monica Scannapieco, Giulio Barcaroli, Stefano De Francisci, Istat
- 16.05 – 16.20 [Data Mining, Machine Learning and Official Statistics](#)
Gilbert Saportà, CNAM Paris; Hossein Hassani, Bournemouth University
- 16.20 – 16.35 [Changing landscape in environmental data infrastructures](#)
Massimo Craglia, Jacopo Grazzini, European Commission - Joint Research Centre
- 16.35 – 16.50 [The value proposition of the Official Statistics Research Community in the field of Big Data – and what Big Data research could bring to Official Statistics](#)
Martin Karlberg, EC Eurostat
- 16.50 – 17.00 Discussion

Contributed Session 35: 15.50 – 17.00 Room 3
Statistics for Decision-making: Statistical Products and Services for an Informed Society

Chair: Frances Ruane, ESAC

- 15.50 – 16.05 [The Cambridge Compromise - A Proposal for the Composition of the European Parliament](#)
Friedrich Pukelsheim, University of Augsburg
- 16.05 – 16.20 [Tailoring products to inform decision making: Sharing good practice from across the UK](#)
Stephanie Howarth, UK Statistics Authority
- 16.20 – 16.35 [Which wellbeing indicators can really influence the political arena?](#)
Donato Speroni, Istituto per la formazione al giornalismo, University of Urbino
- 16.35 – 16.50 [New challenges in detecting learning by exporting effects on firms' productivity distribution](#)
Maria Rosaria Ferrante, Marzia Freo, Department of Statistical Sciences University of Bologna

16.50 – 17.00 Discussion

Solicited Session 36: 15.50 – 17.00 Room 4
Regression and Multilevel Models

Chair: Andrea Cerioli, University of Parma

- 15.50 – 16.05 [How to cope with modelling and privacy concerns? A regression model and a visualization tool for aggregated data](#)
Rosanna Verde, Antonio Iripino, Second University of Naples; Dominique Desbois, UMR Economie publique, INRA-AgroParisTech
- 16.05 – 16.20 [New statistical approaches for the evaluation of healthcare structures](#)
Salvatore Ingrassia, University of Catania; Giorgio Vittadini, University of Milan-Bicocca; Paolo Berta, University of Milan-Bicocca; Antonio Punzo, University of Catania
- 16.20 – 16.35 [Operationalising 'safe statistics': the case of linear regression](#)
Felix Ritchie, University of the West of England Bristol
- 16.35 – 16.50 [Exploiting TIMSS and PIRLS combined data: multivariate multilevel modelling of student achievement](#)
Leonardo Grilli, Fulvia Pennoni, University Milan-Bicocca; Carla Rampichini, University of Florence; Isabella Romeo, University Milan-Bicocca
- 16.50 – 17.00 Discussion

Invited Session 37: 17.00 – 18.10 Room 1
Statistics for Enhanced Economic Governance

Chair: Denis Durand, ESAC

- 17.00 – 17.15 [The MIP scoreboard: a set of macroeconomic indicators for European Union governance](#)
Rosa Ruggeri Cannata, Dario Buono, EC Eurostat
- 17.15 – 17.30 The Macroeconomic Imbalance Procedure: statistics from a user perspective
Jonas Fischer, DG ECFIN
- 17.30 – 17.45 Journalistic information deals with statistical data, economic government and the observance of the fiscal compact
Journalist,
- 17.45 – 18.00 National Reform Program: Italian evidence
Paolo Reboani, President of Italia lavoro
- 18.00 – 18.10 Discussion

Solicited Session 38 : 17.00 – 18.10 Room 2
Construction of Indicators for Measuring the Progress of Societies

Chair: Filomena Maggino, University of Florence

- 17.00 – 17.15 A new method for synthesizing multidimensional measures – an application on comparing wellbeing patterns in Italian society
Marco Fattore, University of Milan-Bicocca;
- 17.15 – 17.30 [Complex Phenomena Measured on Individuals: The Challenge of Mixed Data for Composite Indicators](#)
Giovanna Boccuzzo, **Giulio Caperna**, University of Padua
- 17.30 – 17.45 [Evolution of the BES Project](#)
Saverio Gazzelloni, Adolfo Morrone, **Fabiola Riccardini**, Istat
- 17.45 – 18.00 [Estimating the size of the Romanian shadow economy using the minim approach](#)
Adriana Ana Maria Davidescu, Bucharest University of Economic Studies
- 18.00 – 18.10 Discussion

Contributed Session 39: 17.00 – 18.10 Room 3
Statistical Literacy and Statistics as a New Skill for New Jobs

Chair: Anuska Ferligoj, ESAC, University of Ljubljana

17.00 – 17.15 [National stakeholders for the European Master in Official Statistics – the Italian case](#)

Maria Pia Sorvillo, Nereo Zamaro, Istat

17.15 – 17.30 [Statistics as a new Skill for new Jobs](#)

Barbara Ascari, **Francesco Michele Mortati**, **Marina Peci**, Istat

17.30 – 17.45 [Experiences and Suggestions for Lifelong Learning in Permanent Census](#)

Antonella Bianchino, **Giulia De Candia**, Stefania Taralli, Istat

17.45 – 18.00 [Measuring university attractiveness in Italy. An analysis of the determinants of students' mobility](#)

Francesca Giambona, Mariano Porcu, **Isabella Sulis**, University of Cagliari

18.00 – 18.10 Discussion

18.10 – 18.40 Closing cocktail

Morning 25 November 2014

Department of Statistical Sciences, Piazzale Aldo Moro 5

Library of Statistical Sciences, Room 1, 2, 3rd floor

(Please, see the map below to reach the department of Statistical Sciences)

World Statistics Café (WSC)

Extensions up to 2020 of the European Statistical Program 2013-2017:

Viewpoints, Opinions, and Expectations of Users, Methodologists and Producers

The WSC is the creative process used to facilitate collaborative discussion on the extension of the European Statistics Program 2013-17 up to 2020 and create a network of viewpoints and opinions of users, methodologists and producers of statistics.

In this process the morning of the 25 November a café ambiance is created, in which participants discuss the specific topics of the European Statistics Program in small groups around the 9 café tables.

At the end of the groups' discussions the main viewpoints and opinions are summarized and presented by the chair in a plenary session where also a plenary discussion is organized.

Follow up

After the conference, with the cooperative work of participants, ESAC and Eurostat will complete a *discussion paper* including the documents of the different tables, for the ESSC.

Programme

08.30 – 08.45 Briefing of the chairpersons of the Tables

08.45 – 11.45 **FIRST PART OF THE WSC**

Groups' discussions: 3 rounds of 60 minutes where people can move to different tables.

I round: 8.45-9.45; II round 9.45-10.45; III round 10.45-11.45

Each table has a facilitator (coordinator and moderator) of the discussion, who summarizes opinions and viewpoints.

Nine tables:

1. Indicators
2. Accounting frameworks
3. Business and global economy
4. Social statistics
5. Geospatial, Environmental, Agricultural and sectoral statistics
6. Multipurpose statistics and efficiency gains in production, dissemination
7. Quality
8. Training, Innovation and research
9. Partnership

11.45 – 13.00 SECOND PART OF WSC

11.45 – 12.45 Plenary lightning presentations of viewpoints and opinions by moderators

Plenary Discussion

Conference Venue

24 November 2014, morning 8.30 – 13.00

Aula Magna, Sapienza Rectorate, Sapienza University of Rome, Piazzale A. Moro 5, Morning 24 November 2014

24 November 2014, afternoon 13.00 – 18.30

Sapienza Didactic building, via Caserta 6 (7 minutes walking from Aula Magna Sapienza Rectorate to via Caserta 6)
Rooms 1, 2, 3, 4 and Roof Garden for lunches

25 November 2014, 8.30 – 18.30

Sapienza Didactic building, via Caserta 6 (7 minutes walking from Città Universitaria, Aula Magna to via Caserta 6)
Rooms 1, 2, 3, 4 and Roof Garden for lunches

25 November 2014, 8.30 – 13.30 - *World Statistics Café*

Department of Statistical Sciences,
Third floor Library of Statistical Sciences
Piazzale A. Moro 5

How to get here

By car:

The Sapienza University is nearby the center of Rome. The address is the following:
Piazzale Aldo Moro, 5 Roma

From Fiumicino Airport "Leonardo Da Vinci"

by train: (recommended): The best option is to take the no-stop train "Leonardo Express" to Termini station (travel time: about 30 minutes). From Termini follow the instructions below. The train timetable and fares can be found on the [TRENITALIA website](#). Notice: the trains from Termini to Fiumicino Airport leave from tracks 23 and 24, which are far on the right from the main entrance of the station. Allow an extra 10 minutes to get there.

by taxi: The official fixed rate (all included) from Fiumicino airport to any destination within the ancient Roman walls (Mura Aureliane), included La Sapienza campus, is 48 euros. The ride to La Sapienza campus takes about 50 minutes.
From Ciampino Airport "G. B. Pastine"

by bus (recommended): Connections to Termini station (in about 30-40 minutes) are guaranteed by the bus services operated by [ATRAL](#), [COTRAL](#), [SIT](#) and [TERRAVISION](#) companies. The fare is about 5 euros. From Termini follow the instructions below.

by taxi: the official fixed rate (all included) from Ciampino airport to any destination within the ancient Roman walls (Mura Aureliane), included La Sapienza campus, is 30 euros. The ride to La Sapienza campus takes about 30 minutes.

From Termini Train Station:

From Termini station to the campus is a 15 minutes' walk. Leave the station through the right side exit (Via Marsala), and follow [these directions](#). Alternatively take one of the taxi cabs lining outside the front entrance of the station.

Via Public Transportation:

Subway: Take the Line B and stop at Castro Pretorio. From there to the campus is a 10 minutes' walk, [see directions](#).

Bus: Several bus lines stops in the streets around the perimeter of the campus. The ticket price for a single journey is 1,50 euros and they need to be purchased in advance. To plan your trip visit the [ATAC website](#).

Useful links:

[Public train network](#)

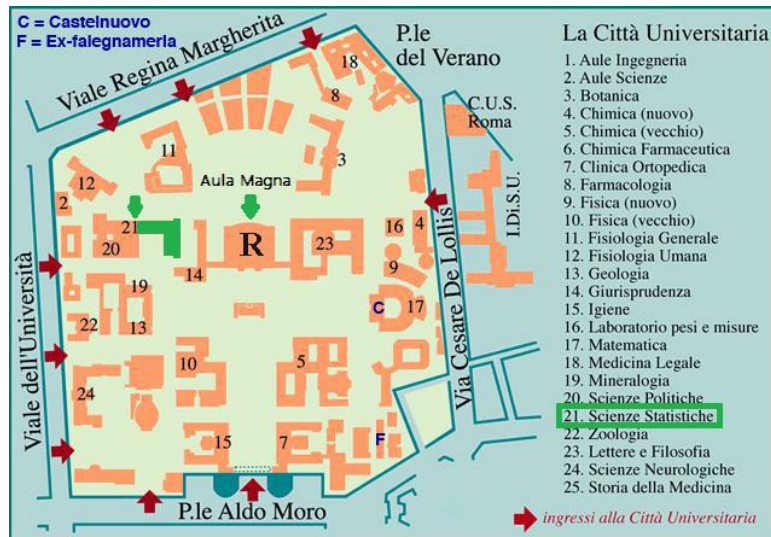
[Fiumicino airport](#)

[Ciampino airport](#)

[Bus and subway public network](#)

Appendix 1

How to reach the Department of Statistical Sciences (building 21) and Aula Magna (Building R) in Sapienza University of Rome, Piazzale A. Moro 5



Appendix 2

From Aula Magna, Sapienza Rectorate to Sapienza Didactic building, via Caserta 6

(All rooms are equipped with a video system projection and a wireless network).

7 minutes 600 m.



Scientific Programme
Conference of European Statistics Stakeholders
Methodologists, Producers and Users of European Statistics

24 November 2014

	PLENARY SESSIONS (Sapienza Rectorate, University of Rome, Piazzale Aldo Moro 5)	PARALLEL SESSIONS (Sapienza Didactic building, University of Rome, via Caserta 6)			
	Aula Magna	Room 1	Room 2	Room 3	Room 4
08.15 – 08.45	Registration				
08.45 – 09.30	OPENING CEREMONY	Prime minister			
09.30 – 11.10	European statistics and Europe 2020				
11.10 – 11.40	Coffee break				
11.40 – 13.00	PANEL DISCUSSION Enhancing collaboration among Statistics Stakeholders and Research for Europe 2020				
13.00–14.20		Lunch – Roof Garden			
14.20-15.30		IS 1 Modernisation of Statistical Production Processes: Vision, Experiences and Challenges	IS 2 European Statistics on Justice Systems: the Picture of a Poor Reality	IS 3 The Challenges for Environmental Data Stakeholders	SS 4 Spatial Statistical Methods for Official Statistics
15.30-16.40		IS 5 Economy finance and Business Statistics for Europe 2020	IS 6 Visualising and Communicating Statistics in the E-society	CS 7 New Methods for Data Collection and Control	CS 8 What Statistics can Measure and How: Defining European Statistics with a 2020 Time Horizon
16.40-17.10		Coffee break– Roof Garden			
17.10-18.20		IS 9 Cross-national Surveys: Data Collection and Analysis	IS 10 Poverty and Social Exclusion: Enhancing Capacity to Measure Employment and Social	IS 11 The Combined Use of Administrative Sources and Statistical Surveys, an Incoming Revolution for Statistical Stakeholders	IS 12 On the Impact of Modernisation
25 November 2014					
8.30 – 9.40		CS 13 Analysing and Summarising Large Sets of Indicators	CS 14 Analysis and Estimation of Survey Data	SS 15 Methods for Analysing Big Data in the Context of Official Statistics	SS 16 New Challenges for Improving Survey Analysis

9.40 – 10.50		SS 17 Graphical and Network Models and Analysis in the Context of Official Statistics	IS 18 New Challenges in the Analysis of Longitudinal Data	SS 19 New Challenges in Spatio-Temporal Data Modelling and Monitoring	SS 20 New Methodological Challenges for Official Statistics
10.50-11.20		Coffee break – Roof Garden			
11.20-12.30		IS 21 Central Banking Statistics – Expanding Production Frontiers	IS 22 Classification and Clustering	IS 23 New Challenges for Environmental and Agricultural Statistics	IS 24 Advanced Communication for Statistics of Europe 2020
12.30-13.40		IS 25 Measuring the Progress of Europe 2020	IS 26 Methods for Analysing Complex Data	CS 27 Advances and Applications for Official Statistics	CS 28 Improving Statistical Literacy and Communication
13.40-14.40		Lunch – Roof Garden			
14.40-15.50		IS 29 Advances in Summarizing Large Sets of Indicators	IS 30 Statistical Literacy and Accreditation of Statistical Professionalism	CS 31 Analysing and Measuring Inequality, Poverty and Social Problems	SS 32 New challenges for Data Analysis in Official Statistics
15.50-17.00		IS 33 Data Protection	IS 34 Methods for Analysing Big Data in the Context of Official Statistics	CS 35 Statistics for Decision-making: Statistical Products and Services for an Informed Society	SS 36 Regression and Multilevel Models
17.00-18.10		IS 37 Statistics for Enhanced Economic Governance	SS 38 Construction of indicators for Measuring the Progress of Societies	CS 39 Statistical Literacy and Statistics as a New Skill for New Jobs	
18.10-18.40		Closing cocktail – Roof Garden			

World Statistics café Extension up to 2020 of the European Statistical Program 2013-2017: Viewpoints, opinions and expectations of users, methodologists and producers Department of Statistical Sciences, Piazzale Aldo Moro 5 Library of the Department of Statistical Sciences, 3 rd floor	
25 November 2014	
08.30 – 08.45	Briefing of the chairpersons of the Tables
8.45 – 11.45	FIRST PART OF THE WSC: Groups' discussions
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11.45–13.00	SECOND PART OF WSC
11.45 – 12.45	Plenary lightning presentations of viewpoints and opinions by moderators (Room 3, 3 rd floor)
12.45 – 13.00	Plenary Discussion

