WORK SESSION ON
DEMOGRAPHIC
PROJECTIONS

29-31 October 2013

**Congress Center
Roma Eventi - Fontana di Trevi
Piazza della Pilotta 4
Rome**

Summary of agenda items for the meeting:

1. Opening of the meeting and welcoming remarks

2. Adoption of the agenda and election of officers

3. Key note lectures

4. Assumptions on future migration

5. Assumptions on future mortality

6. Actual and potential use of demographic projections at national and international level

7. National and international population projections out of the EU region

8. Assumptions on future fertility

9. Stochastic methods in population projections

10. Household projections

11. Demographic sustainability and consistency with macroeconomic assumptions

12. Bayesian approaches (1)

13. Bayesian approaches (2)

14. Multiregional projections

15. Beyond population projections by age and sex: inclusion of additional population characteristics

16. Population projections by age, sex and level of education (1)

17. Population projections by age, sex and level of education (2)

18. Adoption of the report and closing of the meeting

Aula Carducci | Plenary Session

9:30–10:30	**Registration of participants and welcome coffee**	
10:30 –11:20	**OPENING OF THE MEETING** **Welcoming remarks by:** Antonio Golini **I** Istat Eduardo Barredo Capelot **I** Eurostat Paolo Valente **I** UNECE	**1**
11:20 –11:30	**ADOPTION OF THE AGENDA AND ELECTION OF OFFICERS**	**2**
11:30 – 13:00	**KEYNOTE LECTURES**	**3**
11:30 – 12:15	**Probabilistic demographic projections** Nico Keilman **I** University of Oslo	
12:15–13:00	**Population Ageing - A Threat to the Welfare State?** Tommy Bengtsson **I** University of Lund	
13:00–14:30	**Lunch break**	

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14:30 –16:00   **ASSUMPTIONS ON FUTURE MIGRATION**
Chair: Valerio Terra Abrami **|** Istat

14:30 –14:45   **Projections of ageing migrant populations in France: 2008-2028**
Jean Louis Rallu **|** INED

14:45 –15:00   **Introducing duration dependant emigration in DREAMs population projection model**
Marianne Frank Hansen **|** DREAM

15:00 –15:15   **Model to forecast the re-immigration of Swedish-born by background**
Andreas Raneke **|** Statistics Sweden

15:15 –15:30   **Dynamical models for migration projections**
Violeta Calian **|** Statistics Iceland

15:30 –16:00   **Questions & Discussion**

16:00 –16:30   **Coffee break**

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16:30 –18:00   **ASSUMPTIONS ON FUTURE MORTALITY**
Chair: Graziella Caselli **|** University of Rome La Sapienza

16:30 –16:45   **Cohort effects and structural changes in mortality trend**
Edviges Coelho **|** Statistics Portugal, Luis Catela Nunes **|** Nova University of Lisbon

16:45 –17:00   **Evaluation of Korean Mortality Forecasting Models**
Jee Seon Baek, Mi Ock Jeong, Yun Kyoung Oh, Ji-Youn Lee, Sooyoung Kim **|** Statistics Korea

17:00 –17:15   **Coherent forecasting of multiple-decrement life tables: compositional models for French Cause of Death data, 1925-2008**
Jim Oeppen **|** MPIDR, Carlo Giovanni Camarda **|** INED

17:15 –17:30   **Changing mortality trends by age and sex are challenges for assumptions on future mortality**
Örjan Hemström **|** Statistics Sweden

17:30 –18:00   **Questions & Discussion**

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14:30 – 16:00	**ACTUAL AND POTENTIAL USE OF DEMOGRAPHIC PROJECTIONS AT NATIONAL AND INTERNATIONAL LEVEL** **Chair: Maria Graça Magalhães	Statistics Portugal**
14:30 – 14:50	**Indexation of the pension age to projected remaining life expectancy in The Netherlands** Coen van Duin **|** Statistics Netherlands
14:50 – 15:10	**The role of population projections for a redefinition of the Portuguese higher educational institutional network** Le Rui Dias, Maria Filomena Mendes, M. Graça Magalhães, Paulo Infante **|** University of Évora
15:10 – 15:30	**On the use of seasonal forecasting methods to model birth and deaths data as an input for monthly population estimates** Jorge Bravo **|** University of Évora, Edviges Coelho, M. Graça Magalhães **|** Statistics Portugal
15:30 – 16:00	**Questions & Discussion**
16:00 – 16:30	**Coffee break**

16:30 – 18:00	**NATIONAL AND INTERNATIONAL PROJECTIONS OUT OF THE EU REGION** **Chair: Giampaolo Lanzieri	Eurostat**
16:30 – 16:45	**Qualitative and methodological aspects of population projections in Georgia. Georgian Population Prospects: 1950-2050** Avtandil Sulaberidze, Shorena Tsiklauri **|** Ilia State University
16:45 – 17:00	**Population Prospects of Georgia** Nika Maglaperidze **|** Ilia State University
17:00 – 17:15	**Estimation of the size and vital rates of the Haredi (ultra-orthodox) population in Israel for the purpose of long-range population projections** Ari Paltiel **|** Israel Central Bureau of Statistics
17:15 – 17:30	**Population and development scenarios for EU neighbor countries in the South and East Mediterranean region** George Groenewold, Joop de Beer **|** NIDI
17:30 – 18:00	**Questions & Discussion**

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9:30 –11:00 **ASSUMPTIONS ON FUTURE FERTILITY**
Chair: Maria Graça Magalhães **|** Statistics Portugal

9:30 – 9:45 **Contribution of fertility model and parameterization to population projection errors**
Dalkhat M. Ediev **|** VID

9:45 –10:00 **New family values and increased childbearing in Sweden?**
Lotta Persson, Johan Tollebrant **|** Statistics Sweden

10:00 –10:15 **Projecting fertility by regions considering tempo-adjusted TFR, the Austrian approach**
Alexander Hanika **|** Statistics Austria

10:15 –10:30 **Effects of childbearing postponement on cohort fertility in Germany**
Olga Pötzsch, Bettina Sommer **|** Destatis

10:30 –11:00 **Questions & Discussion**

11:00 –11:30 **Coffee break**

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11:30 –13:00 **STOCHASTIC METHODS IN POPULATION PROJECTIONS**
Chair: Rebecca Graziani **|** Bocconi University

11:30 –11:45 **Measuring uncertainty in population forecasts: a new approach**
David A. Swanson **|** University of California Riverside, Jeff Tayman **|** University of California San Diego

11:45 –12:00 **Stochastic population forecast: an application to the Rome Metropolitan Area**
Salvatore Bertino, Oliviero Casacchia **|** University of Rome "La Sapienza", Massimiliano Crisci **|** IRPPS-CNR

12:00 –12:15 **Long-term contribution of immigration to population renewal in Canada: a sensitivity analysis using Demosim**
Patrice Dion, Éric Caron Malenfant, Chantal Grondin **|** Statistics Canada

12:15 –12:30 **From agent-based models to statistical emulators**
Jakub Bijak, Jason Hilton, Eric Silverman, Viet Dung Cao **|** University of Southampton

12:30 –13:00 **Questions & Discussion**

13:00 –14:30 **Lunch break**

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9:30 –11:00	**HOUSEHOLD PROJECTIONS** **Chair: Marco Marsili | Istat**
9:30 –9:50	**Estimating the number of households:** **an unavoidable challenge for the statistical** **system** Antonio Argüeso Jiménez, Sixto Muriel de la Riva **|** INE
9:50 –10:10	**A household projection model for Belgium** **based on individual household membership** **rates, using the LIPRO typology** Marie Vandresse **|** Federal Planning Bureau
10:10 –10:30	**Household Projections and Welfare** Elisa Barbiano di Belgiojoso, Gian Carlo Blangiardo **|** University of Milan Bicocca, Alessio Menonna **|** ISMU, Natale Forlani **|** Ministero del Lavoro e delle Politiche Sociali
10:30 –11:00	**Questions & Discussion**
11:30 –11:30	**Coffee break**

11:30 –13:00	**DEMOGRAPHIC SUSTAINABILITY** **AND CONSISTENCY WITH MACROECONOMIC** **ASSUMPTIONS** **Chair: Elisabetta Barbi | University of Rome** **"La Sapienza"**
11:30 –11:50	**Ageing alone? The future of the Portuguese** **population in discussion** Filipe Ribeiro, Lídia Patrícia Tomé, Maria Filomena Mendes **|** University of Évora
11:50 –12:10	**Integrating labor market in population** **projections** Juan Antonio Fernández Cordón **|** CSIC - Spanish Council for Scientific Research, Joaquín Planelles Romero **|** Institute of Statistics and Cartography of Andalusia
12:10 –12:30	**Economic factors and net migration** **assumptions for EU countries – how** **to incorporate lessons from the recent** **economic crisis?** Pawel Strzelecki **|** Warsaw School of Economics
12:30 –13:00	**Questions & Discussion**
13:00 –14:30	**Lunch break**

NG Parallel Sessions

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14:30 –16:00	**BAYESIAN APPROACHES (1)** **Chair: Graziella Caselli	University of Rome "La Sapienza"**
14:30 –14:50	**Bayesian functional models for population forecasting** Han Lin Shang, Arkadiusz Wisniowski, Jakub Bijak, Peter W.F. Smith, James Raymer	University of Southampton
14:50 –15:10	**Towards stochastic forecasts of the Italian population: an experiment with conditional expert elicitations** Francesco Billari	University of Oxford, Gianni Corsetti, Marco Marsili	Istat, Rebecca Graziani, Eugenio Melilli	Bocconi University
15:10 –15:30	**Expert-Based stochastic population forecasting: a bayesian approach to the combination of the elicitations** Francesco Billari	University of Oxford, Rebecca Graziani, Eugenio Melilli	Bocconi University
15:30 –16:00	**Questions & Discussion**
16:00 –16:30	**Coffee break**

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16:30 –18:00	**BAYESIAN APPROACHES (2)** **Chair: Rebecca Graziani	Bocconi University**
16:30 –16:50	**Bayesian probabilistic projection of international migration rates** Jonathan Azose, Adrian E. Raftery	University of Washington
16:50 –17:10	**Bayesian probabilistic population projections: do it yourself** Hana Ševciková, Adrian E. Raftery	University of Washington, Patrick Gerland	UNPD
17:10 –17:30	**Bayesian mortality forecasts with a flexible age pattern of change for several European countries** Christina Bohk, Roland Rau	University of Rostock
17:30 –18:00	**Questions & Discussion**

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14:30 – 16:00	**MULTIREGIONAL PROJECTIONS** **Chair: Valerio Terra Abrami	Istat**
14:30 – 14:45	**Examining the Role of International Migration in Global Population Projections** Guy Abel, Nikola Sander	VID, Samir K.C	IAASA
14:45 – 15:00	**Subnational population projections for Turkey, 2013-2023** Sebnem Bese Canpolat, Baris Ucar, M. Dogu Karakaya	Turkish Statistical Institute
15:00 – 15:15	**An alternative projection model for interprovincial migration in Canada** Patrice Dion	Statistics Canada
15:15 – 15:30	**A Space-Time extension of the Lee-Carter model in a hierarchical bayesian framework: modelling and forecasting provincial mortality in Italy** Fedele Greco, Francesco Scalone	University of Bologna
15:30 – 16:00	**Questions & Discussion**
16:00 – 16:30	**Coffee break**

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16:30 – 18:00	**BEYOND POPULATION PROJECTIONS BY AGE AND SEX: INCLUSION OF ADDITIONAL POPULATION CHARACTERISTICS** **Chair: Elisabetta Barbi	University of Rome "La Sapienza"**
16:30 – 16:45	**Projecting inequality: the role of population change** Ingrid Schockaert, Patrick Deboosere	Vrije University of Bruxelles, Rembert De Blander, André Decoster	KU Leuven University
16:45 – 17:00	**The impact of Canadian immigrant selection policy on future imbalances in labour force supply by broad skill levels** Alain Bélanger	INRS Urbanisation Culture Société Research Centre
17:00 – 17:15	**Microsimulation of language characteristics and language choice in multilingual regions with high immigration** Alain Bélanger, Patrick Sabourin	INRS Urbanisation Culture Société Research Centre
17:15 – 17:30	**A method for projecting economically active population. The case of Andalusia** Silvia Bermúdez, Juan Antonio Hernández, Joaquín Planelles	Institute of Statistics and Cartography of Andalusia
17:30 – 18:00	**Questions & Discussion**
20:30	**Social dinner**

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OON **Parallel Sessions**

Aula Carducci | Plenary Session

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9:30–10:45
POPULATION PROJECTIONS BY AGE, SEX AND LEVEL OF EDUCATION (1)
Chair: Anne Clemenceau | Eurostat

9:30 – 9:45
The scientific base of the new Wittgenstein Centre Global Human Capital Projections: defining assumptions through an evaluation of expert views on future fertility, mortality and migration
Wolfgang Lutz | IIASA, ÖAW/VID, WU

9:45 –10:00
Developing Expert-Based assumptions on future fertility, mortality and migration
Guy Abel, Stuart Basten, Regina Fuchs, Alessandra Garbero, Anne Goujon, Samir K.C., Elsie Pamuk, Fernando Riosmena, Nikola Sander, Tomáš Sobotka, Erich Striessnig, Kryštof Zeman | IIASA, ÖAW/VID, WU

10:00 –10:15
The impact of alternative assumptions about migration differentials by education on projections of human capital
Nikola Sander, Guy J. Abel, Samir K.C | IIASA, ÖAW/VID, WU

10:15 –10:45
Questions & Discussion

10:45 –11:15
Coffee break

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11:15 –12:30
POPULATION PROJECTIONS BY AGE, SEX AND LEVEL OF EDUCATION (2)
Chair: Anne Clemenceau | Eurostat

11:15 –11:30
Estimating transition age schedules for long-term projection of global educational attainment
Bilal Barakat | IIASA, ÖAW/VID, WU

11:30 –11:45
Results of the New Wittgenstein Centre Population Projections by age, sex and level of education for 171 countries
Samir K.C., Sergei Scherbov, Erich Striessnig, Wolfgang Lutz | IIASA, ÖAW/VID, WU

11:45 –12:00
Labor force projections for Europe by age, sex, and highest level of educational attainment, 2008 to 2053
Elke Loichinger | IIASA, ÖAW/VID, WU

12:00 –12:30
Questions & Discussion

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12:30 –13:30
ADOPTION OF THE REPORT AND CLOSING OF THE MEETING
Chair: Paolo Valente | UNECE

Adoption of the report
Closing of the meeting

31 octoberMORNING

TIMETABLE SUMMARY

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