United Nations Economic Commission for Europe
Statistical Division

Workshop on the Modernisation of Statistical Production and Services
November 19-20, 2014

**The Role of Big Data in the Modernisation
of Statistical Production and Services**

Overview of the Project

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Agenda

- Overview of the project
- Presentation from the Partnership, Privacy and Quality teams
- BREAK
- Sandbox presentation
- General discussion of all Big Data project results

Project Objectives

To identify, examine and provide guidance for statistical organizations to identify the main possibilities offered by Big Data and to act upon the main strategic and methodological issues that Big Data poses for the official statistics industry

To demonstrate the feasibility of efficient production of both novel products and 'mainstream' official statistics using Big Data sources, and the possibility to replicate these approaches across different national contexts

To facilitate the sharing across organizations of knowledge, expertise, tools and methods for the production of statistics using Big Data sources.
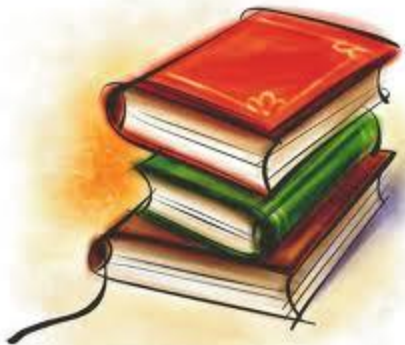
Virtual sprint (March)

Consultation (April)

Guidelines

Task teams (May)

Physical sprint (April)

Priorities

Privacy Task Team

Quality Task Team

Sandbox Team

Partnerships Task Team

Priorities

Modernisation Committee on Products and Sources

Modernisation Committee for Organisational Frameworks and Evaluation

Partnerships Task Team

UNSD Big Data Questionnaire

Sandbox Team

Collaboration

Task Teams

Modernisation Committees

Sandbox Experiments

External partners

Approach

Analysis of best practice and available documentation

Training and capability building (Rome, May)

Work in virtual teams on two-week schedule

Virtual sprints

Face to face workshops (Heerlen, September)

Definition of success

Success criteria for the individual work packages

1 A consistent international view of Big Data opportunities, challenges and solutions, documented and released through a public web site

2 Recommendations on appropriate tools, methods and environments for processing and analysing different types of Big Data, and a report on the feasibility of establishing a shared approach for using Big Data sources that are multi-national or for which similar sources are available in different countries.

3 Exchange of knowledge and ideas between interested organizations and a set of standard training materials

4 The project is completed on schedule, and delivers results that are of value to the international statistical community.

All this is feeding in the future work

NEW: Project Deliverables for all Task Teams

- Big Data Project Summary Report
- Partnerships Task Team
  - Partnerships abstract for NTTS March 2015.docx
  - Guidelines for the establishment and use of partnerships in Big Data Projects for Official Statistics
- Privacy Task Team
  - NTTS abstract on results Privacy Task Team.docx
  - Deliverable 1: Stock taking exercise
  - Deliverable 2: Big Data characteristics and their implications for data privacy
  - Deliverable 3: Big Data Privacy
- Quality Task Team
  - Big Data Quality Framework Abstract for NTTS.docx
  - NEW: Big Data Quality 2 page summary for report.docx
  - NEW: Big data quality frameworks UNECE task team outcomes v1.2.docx
- Sandbox Task Team
  - Sandbox Team NTTS Abstract
  - Experiment report: CPI Team
  - Experiment report: Canadian Smart Meter Data
  - Experiment report: Job Vacancies
  - Experiment report: Mobile Phones
  - Experiment report: Social Data
  - Experiment report: Social Data: Mobility Studies
  - Experiment report: Traffic Loop data
  - Experiment report: Web Scraping

Big Data is new frontier - still more questions than answers, and recommendations will require more time to get confirmed but we have momentum and good foundations for the future work!

Thank you!

partners

Executive Board,
Modernisation
Committees

3 Task Teams

1 Project Manager
2 Coordinators

7 Sandbox
Experiment teams

75 individuals