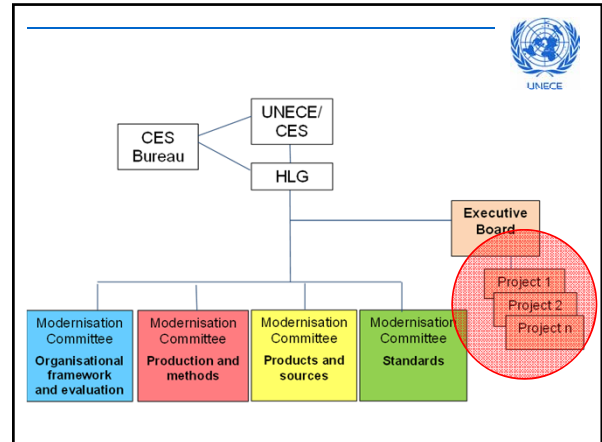




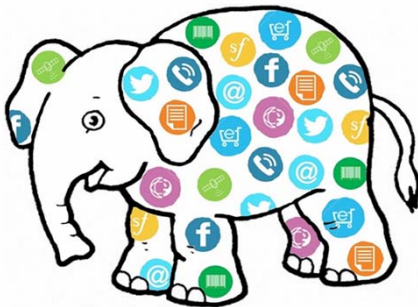
United Nations Economic Commission for Europe
Statistical Division

High-Level Group 2014 Project Outcomes

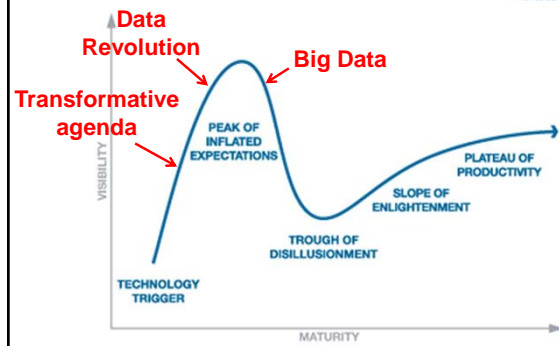
Steven Vale
UNECE
steven.vale@unece.org

Big Data



Gartner Hype Cycle



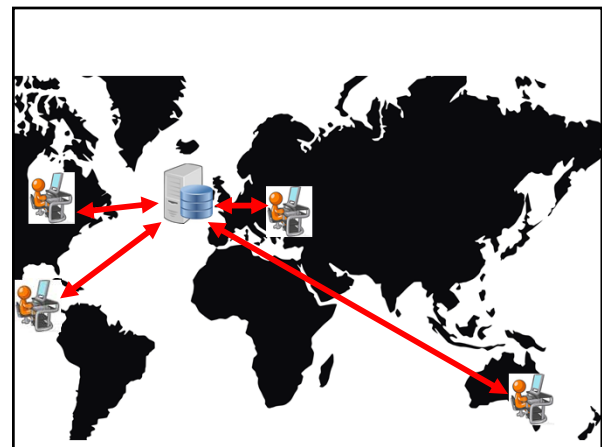
2014 Project











What does Big Data mean for official statistics?


Priorities:

- ❖ Partnerships – **Guidelines**
- ❖ Privacy – **Guidelines**
- ❖ Quality – **Guidelines**
- ❖ Skills – **Survey** → **Skills profile**
- ❖ IT / methodological issues - **Sandbox**



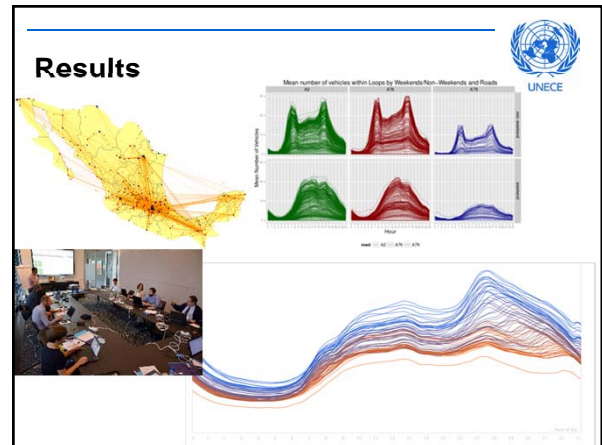
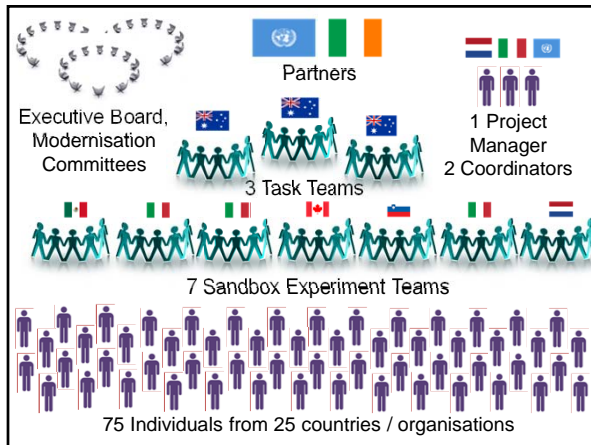



-  Social Media
-  Mobile Phones
-  Web Scraping
-  Prices
-  Traffic Loops
-  Smart Meters
-  Job Vacancies




Sandbox: Aims

- ❖ Is remote access and processing a feasible approach for statistical production?
- ❖ Can existing statistical standards / methods be applied to Big Data?
- ❖ Which Big Data software tools are most useful for statistical organisations?
- ❖ What are the potential uses, advantages and disadvantages of Big Data? **“Learning by doing”**
- ❖ Can we build an international collaboration community on the use of Big Data for statistics?

2015 Project

- ❖ More sandbox experiments
- ❖ More data
 - E.g. UNSD Comtrade
- ❖ Future of the sandbox approach?
- ❖ **Challenge from the High-level Group:**
Produce and release a set of internationally comparable statistics from one or more Big Data sources



Implementation of the CSPA

Services built

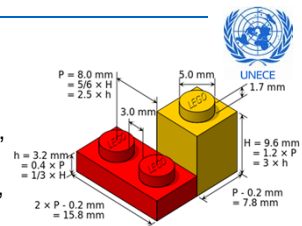


1. Seasonal adjustment – France, Australia, New Zealand
2. Confidentiality on the fly – Canada, Australia
3. SVG generator – OECD
4. SDMX transform – OECD
5. Sample selection – Netherlands
6. Linear error localisation – Netherlands
7. Linear rule checking – Netherlands
8. Error correction – Italy

❖ Architecture

Working Group:

Australia, Austria, Canada, France, Italy, Mexico, Netherlands, New Zealand, Turkey, Eurostat

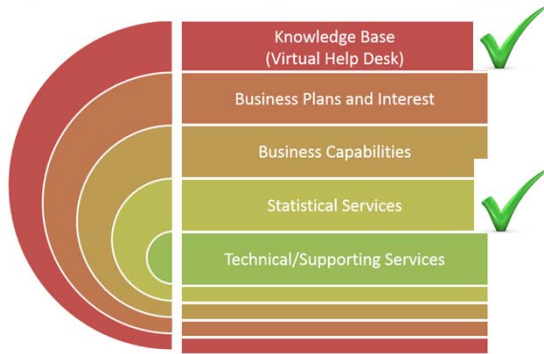


❖ Catalogue team:

Australia, Canada, Italy, Hungary, New Zealand, Romania, Turkey, Eurostat



Layers of the catalogue



2015 Priorities



- ❖ Specify together, develop individually
- ❖ Need strategic investment plan
 - Sprint, Canberra, 16-20 March
- ❖ Resolve issues of standards for communication between services
 - DDI / SDMX / Others?
 - Sprint, Ottawa, next week
- ❖ Sustainable governance and support mechanisms