

Statistics and Sustainable Development Goals

Christian Bach, September 2015



UNECE

UNECE and statistics

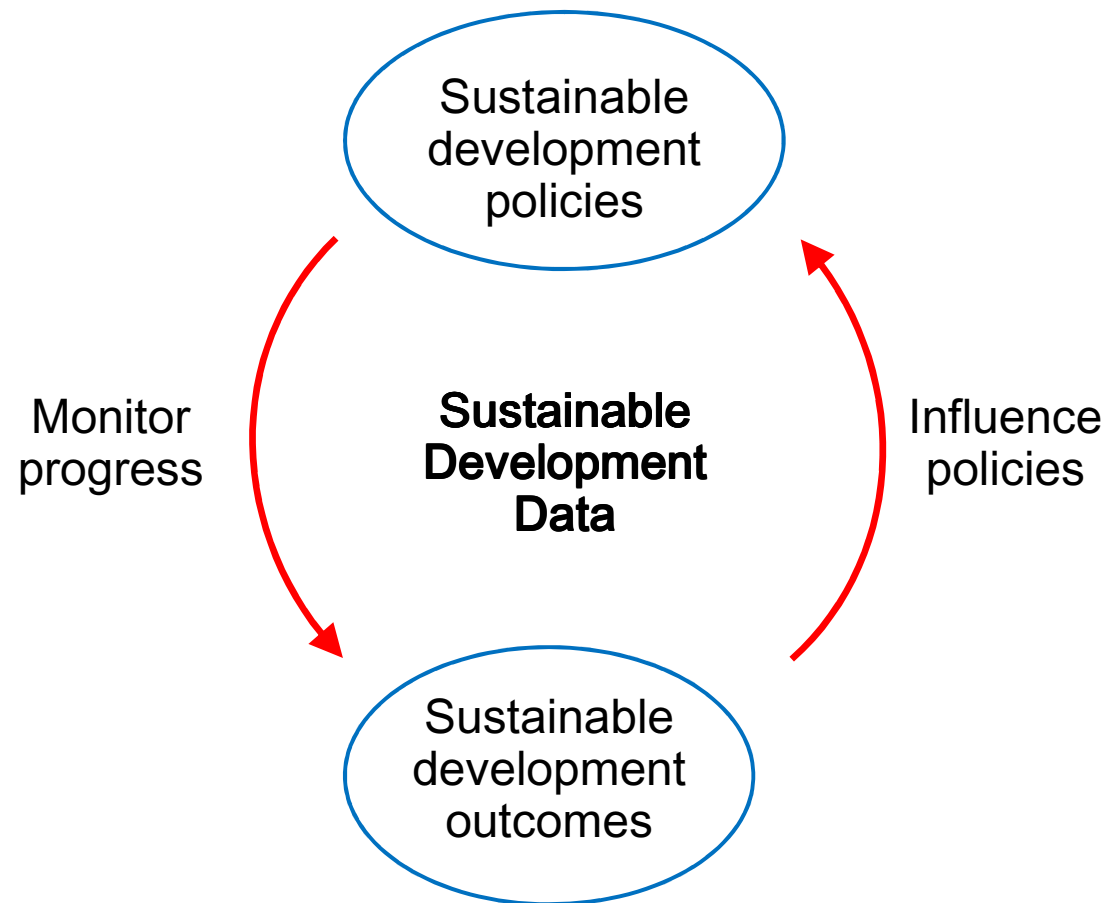
- Regional Commission of the UN
- 56 Member countries
 - Europe, North America, Central Asia
- Many other countries join statistical work
 - Australia, New Zealand, Mexico, Japan, Korea, Chile, Columbia, South Africa,
- Overseen by the Conference of European Statisticians (CES)
 - Annual meeting of the chief statisticians

Sustainable Development Goals

- | | | |
|---|----|--|
|  | 1 | End poverty |
|  | 2 | End hunger, food security, nutrition sustainable agriculture |
|  | 3 | Healthy lives |
|  | 4 | Inclusive and equitable quality education |
|  | 5 | Gender equality and empower all women and girls |
|  | 6 | Sustainable management of water and sanitation for all |
|  | 7 | Affordable, reliable, sustainable and modern energy for all |
|  | 8 | Sustainable economic growth |
|  | 9 | Resilient infrastructure, industrialization and innovation |
|  | 10 | Reduce inequality |
|  | 11 | Make cities inclusive, safe, resilient and sustainable |
|  | 12 | Sustainable consumption and production patterns |
|  | 13 | Combat climate change and its impacts |
|  | 14 | Sustainable use of oceans, seas and marine resources |
|  | 15 | Sustainable use of ecosystems, forests, halt biodiversity loss |
|  | 16 | Peaceful and inclusive societies and access to justice |
|  | 17 | Means of implementation and revitalize global partnership |

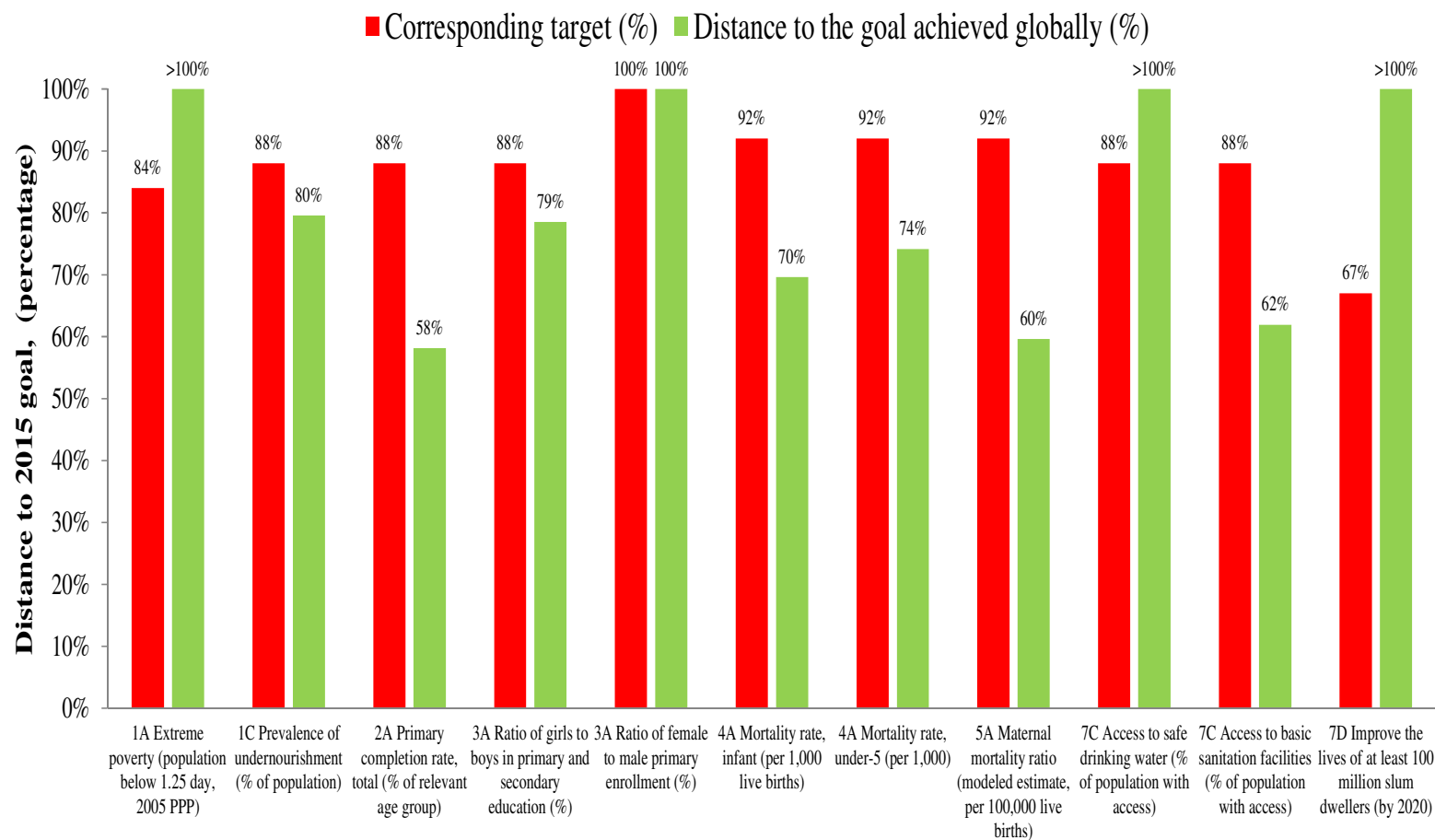
People
Planet
Prosperity
Peace
Partnerships

Why data is critical

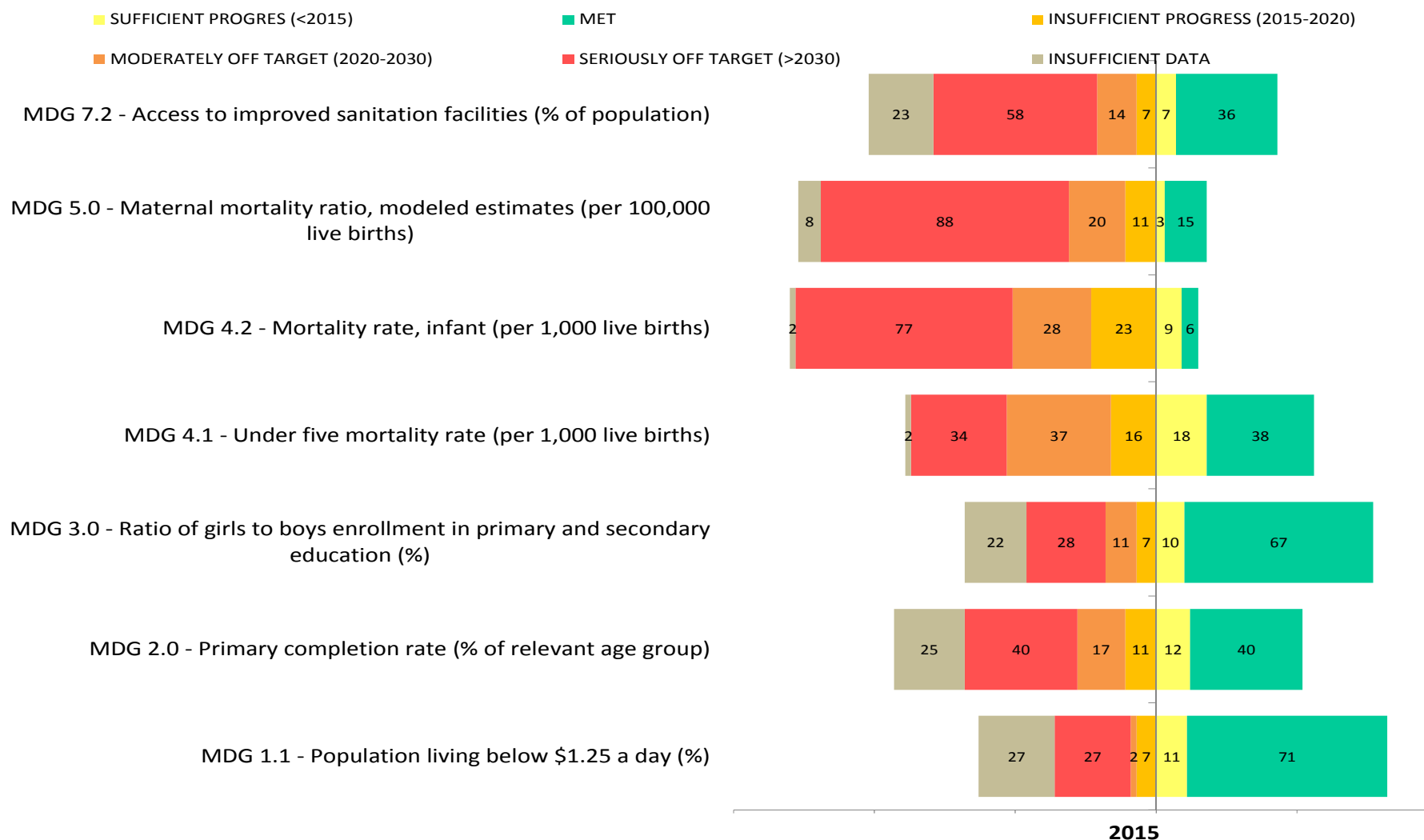


Enourmous data challenge

- MDGs: 8 goals, 21 targets, 60 indicators
- SDGs: 17 goals, 169 targets, 300 indicators?



Still MDG data gaps



SDG indicators and partnerships

UNECE contributes to the Working Groups created by UN Statistical Commission

✓ **Interagency and Expert Group on SD Indicators (IAEG-SDG)** - composed of 28 UN countries

- UNECE hosts the electronic consultation platform
- **8 UNECE countries members:** Canada, France, Kyrgyzstan, Netherlands, Russian Federation, Sweden and UK plus UNECE secretariat as an observer

✓ **High-level Group for Partnership, Coordination and Capacity-Building for post-2015 monitoring**

- Being composed now
- Denmark nominated by the CES Bureau, UNECE observer

Measuring Sustainable Development



- CES recommendations endorsed by more than 60 Chief Statisticians, published in 2014
- Measurement Framework with a set of indicators
- Covers 3 pillars of SD – economic, social, environment
- 3 dimensions of human well-being: here and now, later and elsewhere
- A set of indicators is recommended
- **Informed the development of SDGs**

Climate, gender....

UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

Conference of European Statisticians Recommendations on Climate Change-Related Statistics



UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

Indicators of Gender Equality



Commitment by Chief Statisticians



UNECE CES Declaration June 2015

- ✓ Official statistics is a crucial element in the SDG information system
- ✓ NSOs important providers of accurate, reliable and objective data
- ✓ NSOs commit to collaborate with other data producers and partner with civil society, academia and the private sector, and to develop statistical capacity

Data revolution needed

- **It is about**

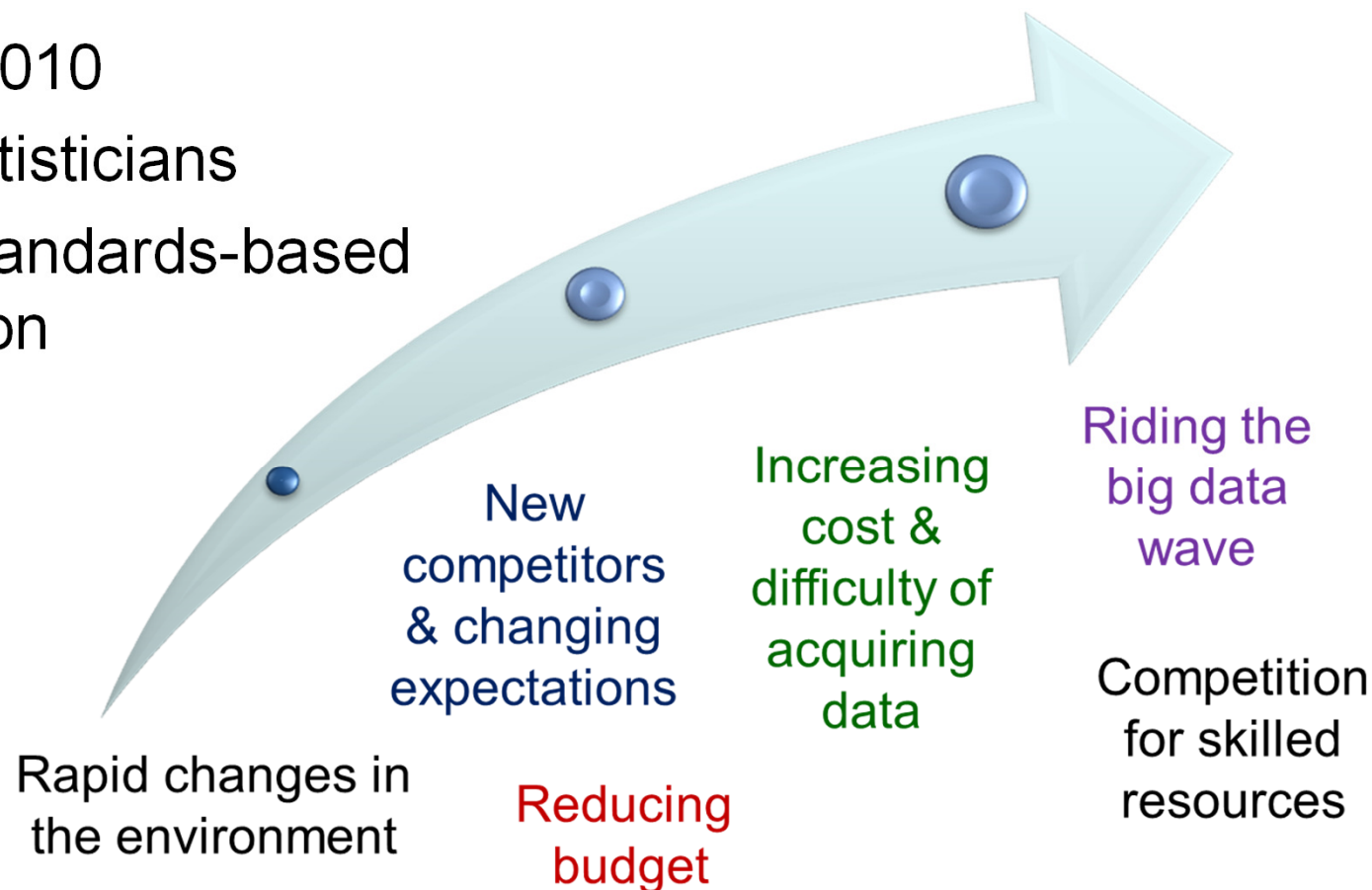
- ✓ Understanding the impact of data on policy making
- ✓ Using new types of data sources, develop new methods and tools
- ✓ Changing culture of how statisticians produce, disseminate, use and understand data
- ✓ Modernization of Official statistics

- **For this to happen NSOs need**

- ✓ Support and Investment
- ✓ Coordination, collaboration and data sharing

Need to work together

- UNECE High-level Group for the Modernisation of Official Statistics
- Created in 2010
- 11 Chief Statisticians
- Promotes standards-based modernisation



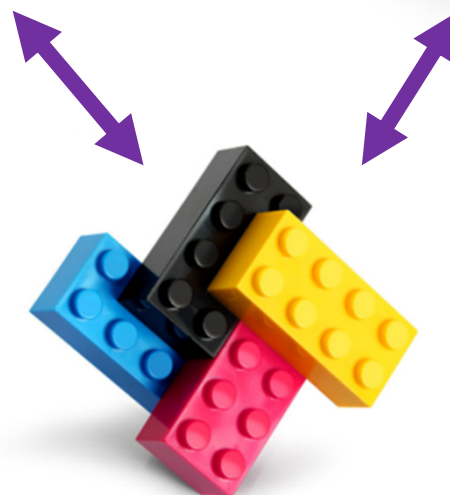
Tools to support collaboration

Quality Management / Metadata Management							
Specify Needs	Design	Build	Collect	Process	Analyse	Disseminate	Evaluate
1.1 Identify needs	2.1 Design outputs	3.1 Build collection instrument	4.1 Create frame & select sample	5.1 Integrate data	6.1 Prepare draft outputs	7.1 Update output systems	8.1 Gather evaluation inputs
1.2 Consult & confirm needs	2.2 Design variable descriptions	3.2 Build or enhance process components	4.2 Set up collection	5.2 Classify & code	6.2 Validate outputs	7.2 Produce dissemination products	8.2 Conduct evaluation
1.3 Establish output objectives	2.3 Design collection	3.3 Build or enhance dissemination components	4.3 Run collection	5.3 Review & validate	6.3 Interpret & explain outputs	7.3 Manage release of dissemination products	8.3 Agree an action plan
1.4 Identify concepts	2.4 Design frame & sample	3.4 Configure workflows	4.4 Finalise collection	5.4 Edit & impute	6.4 Apply disclosure control	7.4 Promote dissemination products	
1.5 Check data availability	2.5 Design processing & analysis	3.5 Test production system		5.5 Derive new variables & units	6.5 Finalise outputs	7.5 Manage user support	
1.6 Prepare business case	2.6 Design production systems & workflow	3.6 Test statistical business process		5.6 Calculate weights			
		3.7 Finalise production system		5.7 Calculate aggregators			
				5.8 Finalise data files			

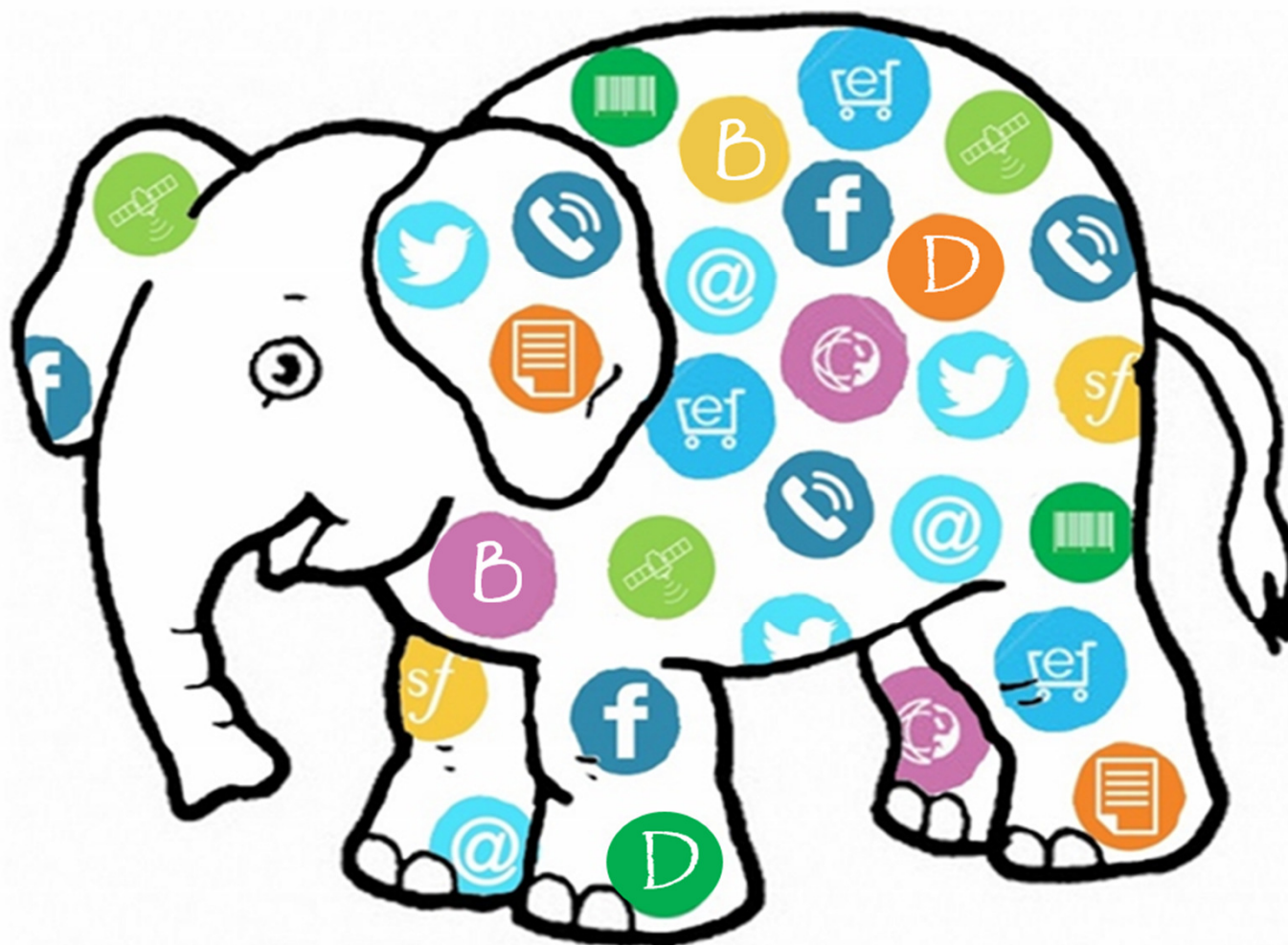
**Generic Statistical
Business Process
Model**



**Generic
Statistical
Information
Model**



**Common Statistical
Production Architecture**



Sandbox

- The Irish Centre for High-end Computing hosts the UNECE Big Data ‘sandbox’ containing data and tools for international experiments

“Play is the
highest form of
research” –
Einstein



UNECE Big Data Wiki:

<http://www1.unece.org/stat/platform/display/bigdata>

Global cooperation



New ways of working together



3 Task Teams



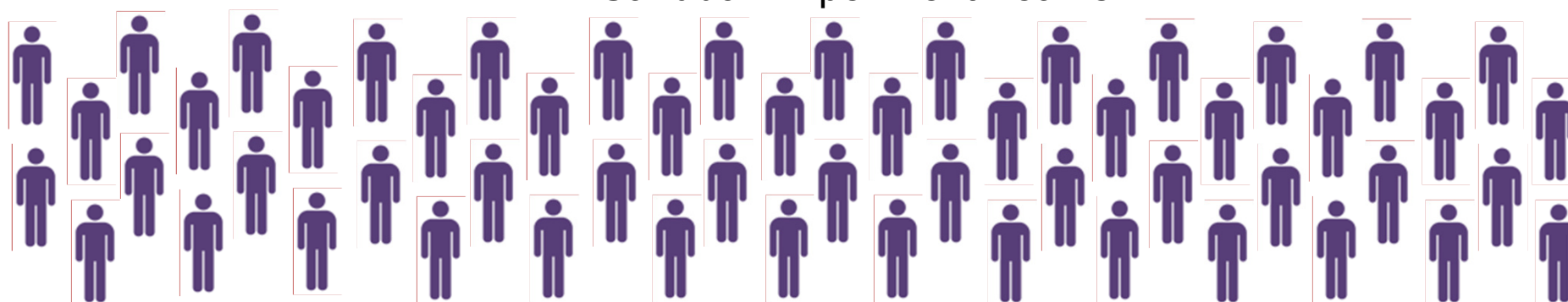
Facilitation and
logistics



1 Project Manager
2 Coordinators



7 Sandbox Experiment Teams



75 people from 25 countries / organisations



for sustainable development

Get involved!

See more: www.unece.org

Contact: support.stat@unece.org

More Information

- High-level Group Wiki:

www1.unece.org/stat/platform/display/hlgbas

- LinkedIn group:

[“Modernising official statistics”](#)

Main messages

- Measuring Sustainable Development requires a sound measurement framework and a dialogue between statisticians and other stakeholders
- The role of NSOs will be more than just collecting data – coordinator of national statistical systems
- Post-2015 agenda will boost further the statistical development and the capacity building
- Develop new data sources, methods and tools to support the Data Revolution

Conclusion

- Setting up a relevant mechanism for review and reporting will be a challenge
- MDGs: 8 goals, 21 targets, 60 indicators
- SDGs: 17 goals, 169 targets, 300 indicators ?

**Get prepared for
reporting on the global
SDGs and design your
road map!**



