



Theme: Evolution

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Evolution

- „A process of *change* in a certain *direction*”.

Source: <https://www.merriam-webster.com/dictionary/evolution>

- *What is changing?*
- *What is the direction we are going right now?*
- *Where do we go from here?*

What is changing?

The statistical landscape.

- Some statistical challenges from the last 15 years with impact on our ModernStats models:
 - *Shift from dominance of data collection to multimode inputs*
 - *Shift from tabular data to microdata*
 - *Importance and relationship between georeferenced information and official statistical data*
 - *Strengthened data protection and IT security perspectives*
 - *New techniques and methods: data integration, AI/ML*
 - *New/revised standards for data and metadata management*
 - *Semantic web, open data, linked data*
 - ...

What is changing?

The ModernStats models.

- New versions reflecting changes in the statistical working environment: statistical challenges and we as the statistical community define the needs for changes.
- New models developed.
- Models getting more integrated.
- Linking ModernStats models with standards used outside of official statistics.
- More tools available to help to use the models.

What is the direction we are going right now?

- New, sometimes surprising but creative ways of using the models in practice.
- Integrating the models (GSBPM/GSIM, COOS, etc.) so it is hopefully easier for all of us to use them in a more integrated way + easier to get to steps 2 & 3 from step 1. („integrated view”)
- Common language: defining and positioning developments, topics.
- Staying relevant for the statistical community!

Where do we go from here?

→ Closing the session with a brainstorming: Six Thinking Hats:
Identify some future statistical challenges (guidance will be given before the activity)

We will take these ideas, messages with us to help us define the activities for the coming years.

Examples for today

- Adaptation of the GSBPM Model to Statistics Production based on an Integrated System of Statistical Registers

Federico Segui (National Statistical Institute of Uruguay)

- Ethics Management, Leadership and Performance (HLG-MOS Capabilities and Communication Group Task Team on Ethical Leadership)

Fabrizio Rotundi and Angela Leonetti (Istat, Italy)

Examples for today

- An Updated Process Model for a Modernised Production Process
Jakob Engdahl (Statistics Sweden)
- Use of GSIM for Modelling Machine Learning Process
InKyung Choi (UNECE)

Examples for today

- Innovation Meets Standardisation, But Where?
Olav ten Bosch and Matjaz Jug (CBS, Netherlands)
- Integrating Technological Advancements into a Modernised Statistical Production Process
Jakob Engdahl (Statistics Sweden)