Interconnections of ModernStats Models

ModernStats Workshop
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Virtual Meeting

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Supporting Standards Group- Chair

The Supporting Standards Group

The goal of the group is to find ways how to develop, enhance, integrate, promote, support and facilitate implementation of the range of standards needed for statistical modernisation.

Operational responsibility for the maintenance and development of:

GAMSO - Generic Activity Model for Statistical Organizations

GSBPM - Generic Statistical Business Process Model

GSIM - Generic Statistical Information Model

And the documentation of:

CSPA – Common Statistical Production Archiecture

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Common purposes of the models

- ✓ Improve communication by introducing a common language
- ✓ Gain efficiency (rationalise processes, information, flow, assign responsibilities,..)
- ✓ Support industrialisation process (re-use of methodologies, tool, software, sharing of solutions,…)
- ✓ Build staff competencies around the standards (enhance capabilities)

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Integrated view of ModernStats Models

- A wide range of models (GAMSO, GSBPM, GSIM, CSPA, MMM and Roadmap) are available
- More difficult for countries to understand and implement each and all of them
- The level of knowledge and implementation of the models varies in different countries and in the same organisation across different sectors
- Countries ask for guidance in implementing the models (where to start from, what comes first,…)

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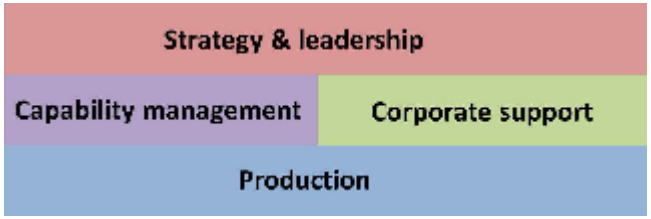
Interrelationship among the models

GSIM

The information flow

Supporting activities

GAMSO

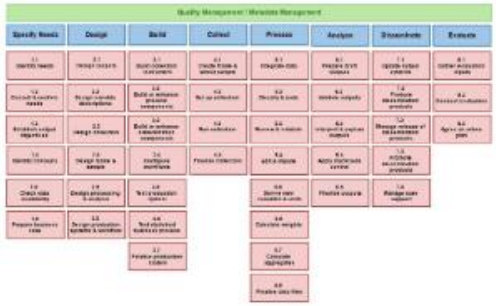


Input

Production process

Output

GSBPM



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Activities towards an integrated view

Linking GSBPM and GSIM

Aim at setting up – *de facto* - a more integrated view of the modernisation models

Alignment of GSBPM and GAMSO

Core Ontology

GSBPM - Geospatial

Aim at improving usability and harmonisatio among the models

Metadata Glossary

GSIM update

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Activities towards an integrated view

GSIM update

Inputs from the work
of previous work.
Building synergies

Linking GSBPM - GSIM

Core Ontology

Metadata Glossary

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What about CSPA?

- CSPA was developed in the Sharing Tools Group
- ModernStats World Workshops had bridged the two groups
- Next year work on CSPA will continue as part of the Supporting Standards activities – Activity proposal will be submitted to the HLG-MOS in November
- Exploit GSIM (e.g. Business part for sharing services); how GSBPM/GSIM are used in CSPA 2.0; CSPA LIM and GSIM

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Where are we in implementing the modernisation models?

The Modernisation Maturity Model has been developed as a self-assessment tool for this purpose. It can be used to assess organisational maturity against different criteria and dimensions.

The next step is to understand how to progress to higher levels of maturity

https://urlsand.esvalabs.com/?u=https%3A%2F%2Fstatswiki.unece.org%2Fdisplay%2FRMIMS&e=3cfb7ead&h=13ab2bbf&f=y&p=y

The Modernisation Maturity Model

Description of Maturity Levels

- from 1 to 5
- from «initial awareness» to «mature implementation»

Description of Dimensions

- Business; methods; information; applications and technology

Self- assessment criteria for each standard

- GSBPM, GSIM, GAMSO and CSPA

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Thank you!

Have fun with the implementation of the Unece Modernisation Models!!!

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Annex

Description of maturity levels

Level	Level Name	Level Description
1	**Initial awareness**	A few individuals are becoming interested in the potential value of the standard. The organisation as a whole is unaware of the standard.
2	**Pre-implementation**	Use of the standard is basic and limited to a few individuals. Parts of the organisation are becoming interested in the potential value of the standard.
3	**Early implementation**	Use of the standard is spreading, but it is used in an inconsistent manner by individuals and single business units. A corporate-wide programme/strategy for use of the standard is being prepared.
4	**Corporate implementation**	A corporate-wide programme/strategy for use of the standard is in place. There is a widespread awareness of the standard and it is used in a consistent manner across the organisation.
5	**Mature implementation**	The standard is perceived as an important part of business operations/management, delivering value across the organisation. The standard is well understood, integrated into business processes and practices and used in a consistent manner

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Description of Dimensions

Business	This dimension focuses on the business activity domain i.e. the organisation's core business practices and policies.
Methods	This dimension focuses on methods i.e. how methods are designed, structured, implemented and executed. It includes statistical methodology, quality, IT methods, data collection methods, process methods and any other methods needed to support the business.
Information	This dimension focuses on how information and/or metadata are structured and integrated, how information is modelled, abstraction of the data access from the functional aspects, data characteristics, service and process definitions, handling of identifiers and the information model.
Applications	This dimension focuses on the structure and interaction of applications to provide business functionality using the methods and information/data assets needed to deliver this functionality.
Technology	This dimension focuses on the logical software and hardware capabilities that are required to support the deployment of business, methods, information, and application services. This includes IT infrastructure, middleware, networks, etc.

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The MMM matrix

Matrix for GSBPM/GSIM/GAMSO/CSPA

	Initial awareness	Pre-implementation	Early implementation	Corporate implementation	Mature implementation
Business					
Methods					
Information					
Applications					
Technology					

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