

# Interconnections of ModernStats Models

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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 Architecture](#)

# 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)

# Integrated view of ModernStats Models



- A wide range of models (GAMS0, 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,...)

# Interrelationship among the models



Supporting activities



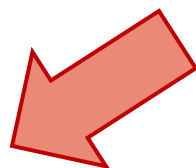
GSBPM

Buildy Management: Winless Management								
Specify Needs	Design	Build	Deliver	Process	Analyze	Standardize	Estimate	
01. Identify needs	01. Design concept	01. Build foundation	01. Deliver final & implement	01. Process data	01. Analyze data	01. Standardize process	01. Estimate cost	01. Control process
02. Plan & execute work	02. Design details	02. Build structure	02. Deliver & install	02. Process info	02. Analyze results	02. Standardize system	02. Estimate budget	02. Control activities
03. Monitor & adjust	03. Design solution	03. Build system	03. Deliver & test	03. Process feedback	03. Analyze trends	03. Standardize updates	03. Estimate risks	03. Control resources
04. Close & evaluate	04. Design final & release	04. Build complete	04. Deliver & handover	04. Process closure	04. Analyze impact	04. Standardize lessons	04. Estimate future	04. Control quality
05. Review & learn	05. Design review & approval	05. Build & test	05. Deliver & evaluate	05. Process review	05. Analyze lessons	05. Standardize improvements	05. Estimate success	05. Control compliance
06. Report & close	06. Design final & release	06. Build & test	06. Deliver & evaluate	06. Process review	06. Analyze lessons	06. Standardize improvements	06. Estimate success	06. Control compliance
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12. Report & close	12. Design final & release	12. Build & test	12. Deliver & evaluate	12. Process review	12. Analyze lessons	12. Standardize improvements	12. Estimate success	12. Control compliance

# Activities towards an integrated view



Linking GSBPM and GSIM



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

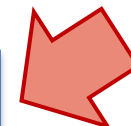
Alignment of GSBPM and GAMSO

Core Ontology

Metadata Glossary



GSBPM - Geospatial



Aim at improving usability and harmonisation among the models

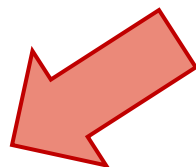
GSIM update



# Activities towards an integrated view



GSIM update

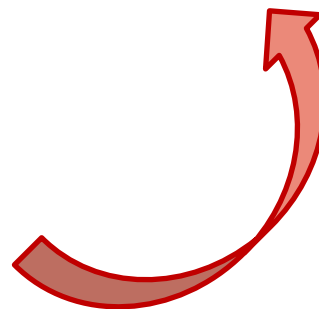


Inputs from the work of previous work. Building synergies

Linking GSBPM - GSIM

Core Ontology

Metadata Glossary



# 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



# 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, GAMS0 and CSPA

# Thank you!



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

# Annex

# Description of maturity levels



Level	Level Name	Level Description
1	<b>Initial awareness</b>	A few individuals are becoming interested in the potential value of the standard. The organisation as a whole is unaware of the standard.
2	<b>Pre-implementation</b>	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	<b>Early implementation</b>	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	<b>Corporate implementation</b>	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	<b>Mature implementation</b>	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

# Description of Dimensions



<b>Business</b>	This dimension focuses on the business activity domain i.e. the organisation's core business practices and policies.
<b>Methods</b>	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.
<b>Information</b>	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.
<b>Applications</b>	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.
<b>Technology</b>	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.

# The MMM matrix



## Matrix for GSBPM/GSIM/GAMS0/CSPA

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