



Supporting Standards Group Activities and Challenges

Supporting Standards Group

19 November 2020

HLG-MOS Modernisation Workshop 2020 (Virtual)



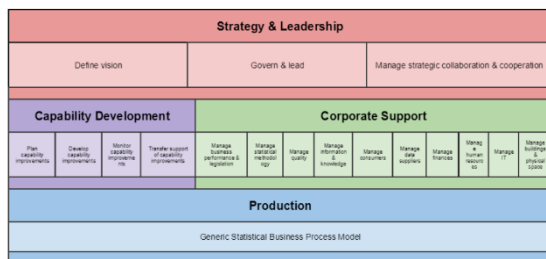
Supporting Standards Group

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 three ModernStats models:

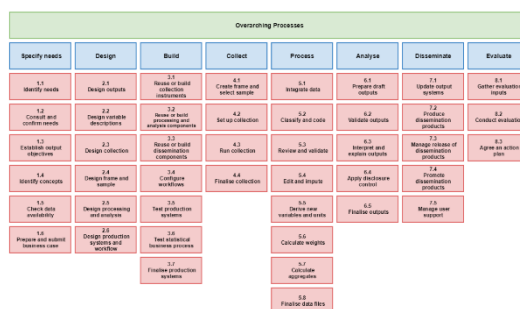
GAMSO

Generic Activity Model for Statistical Organisation



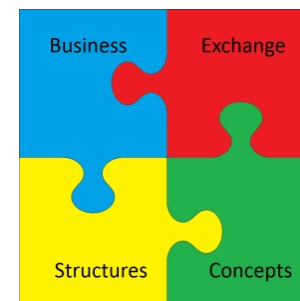
GSBPM

Generic Statistical Business Process Model



GSIM

Generic Statistical Information Model



The Members

23 experts from 12 NSOs and 4 international statistical organizations

Members	Organization
Marina Signore - Chair	Italy – ISTAT
Juan Muñoz	Mexico – INEGI
Manuel Cuellar	Mexico – INEGI
José de Jesús Togno	Mexico – INEGI
Márta Nagy-Rothengass	Eurostat
Mauro Scanu	Italy – ISTAT
Dan Gillman	USA - Bureau of Labor Statistics
Al Hamilton	Australian Bureau of Statistics
Anna Dlugosz	Statistics Poland
David Barraclough	OECD
Edgardo Greising	ILO

Members	Organization
Janusz Dygaszewicz	Statistics Poland
Jay Greenfield	DDI
Joachim Wackerow	DDI
Yulla Choi	Statistics Korea
Cory Chobanik	Statistics Canada
Csaba Ábry	Hungary - HCSO
Zoltán Vereczkei	Hungary - HCSO
Boris Muratovic	MONSTAT
Essi Kaukonen	Statistics Finland
Florian Vucko	France – Insee
Natasa Cvetkovic	Serbia – SORS
Miodrag Cerovina	Serbia – SORS

The Network: the effort in 2020

1 plenary group + 4 task teams

- Supporting Standards **Group** – 23 members
- Linking GSBPM and GSIM **task team** – 19 members
- Geospatial **task team** – 18 members
- GISM **task team** – 22 members
- Metadata Glossary **task team** – 9 members

=> **55 (unique) participants from 17 national statistical offices and 6 international organisations**

- Supporting Standards Group – 8 virtual meetings
- Linking GSBPM and GSIM task team – 13 virtual meetings
- Geospatial task team – 11 virtual meetings
- GISM task team – 5 virtual meetings
- Metadata Glossary task team – 4 virtual meetings

=> **41 virtual meetings (excluding works done off-line!)**



GSBPM/GAMSO/GSIM revision- 2019

**CES Endorsement (2019)
for new versions**

GAMSO

Version 1.2 was released in
January 2019

GSBPM

Version 5.1 was released in
January 2019

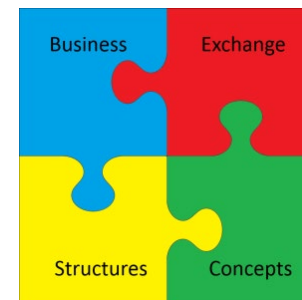
Strategy & Leadership											
Define vision				Govern & lead				Manage strategic collaboration & cooperation			
Capability Development				Corporate Support							
Plan capability development	Develop capability development	Monitor capability development	Transfer support of capability development	Manage business performance & reputation	Manage internal mission & vision	Manage supply	Manage information & knowledge	Manage resources	Manage data security	Manage finance	Manage human resources
Production											
Generic Statistical Business Process Model											

Overarching Processes							
Specify needs	Design	Build	Collect	Process	Analyse	Disseminate	Evaluate
1.1 Identify needs	2.1 Design outputs	3.1 Review of build collection characteristics	4.1 Create frame and select sample	5.1 Integrate data	6.1 Produce draft outputs	7.1 Update output systems	8.1 Control collection results
1.2 Confirm and confirm needs	2.2 Design template descriptions	3.2 Review of build collection characteristics	4.2 Set up collection	5.2 Classify and code	6.2 Validate outputs	7.2 Produce dissemination products	8.2 Conduct evaluation
1.3 Establish output structures	2.3 Design collection	3.3 Review of build collection characteristics	4.3 Run collection	5.3 Review and validate	6.3 Interpret and explain outputs	7.3 Manage release of dissemination products	8.3 Agree on action plan
1.4 Identify concepts	2.4 Design frame and sample	3.4 Configure	4.4 Finalise collection	5.4 Edit and track	6.4 Apply disclosure control	7.4 Produce dissemination products	
1.5 Check data availability	2.5 Design dissemination and control	3.5 Test production systems		5.5 Develop release conditions and rules	6.5 Flexible outputs	7.5 Manage user support	
1.6 Preview and select interest case	2.6 Design production systems and workflow	3.6 Test analytical business processes		5.6 Calculate weights			
		3.7 Finalise production systems		5.7 Calculate representative			
				5.8 Finalise data files			

CES Endorsement (2020)

GSIM

Version 1.2 was released
in April 2019



Activities in 2020



Linking GSBPM and GSIM



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

GSBPM - Geospatial

Metadata Glossary



Aim at improving usability and harmonisation among the models

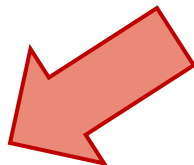
GSIM update

ModernStats World Workshop
together with Sharing Tools Group
27-30 October (Virtual)

Activities towards an integrated view



GSIM update

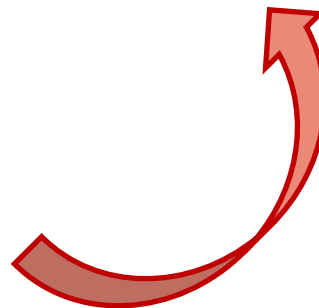


Inputs from previous
work outcomes.
Building synergies

Linking GSBPM -
GSIM

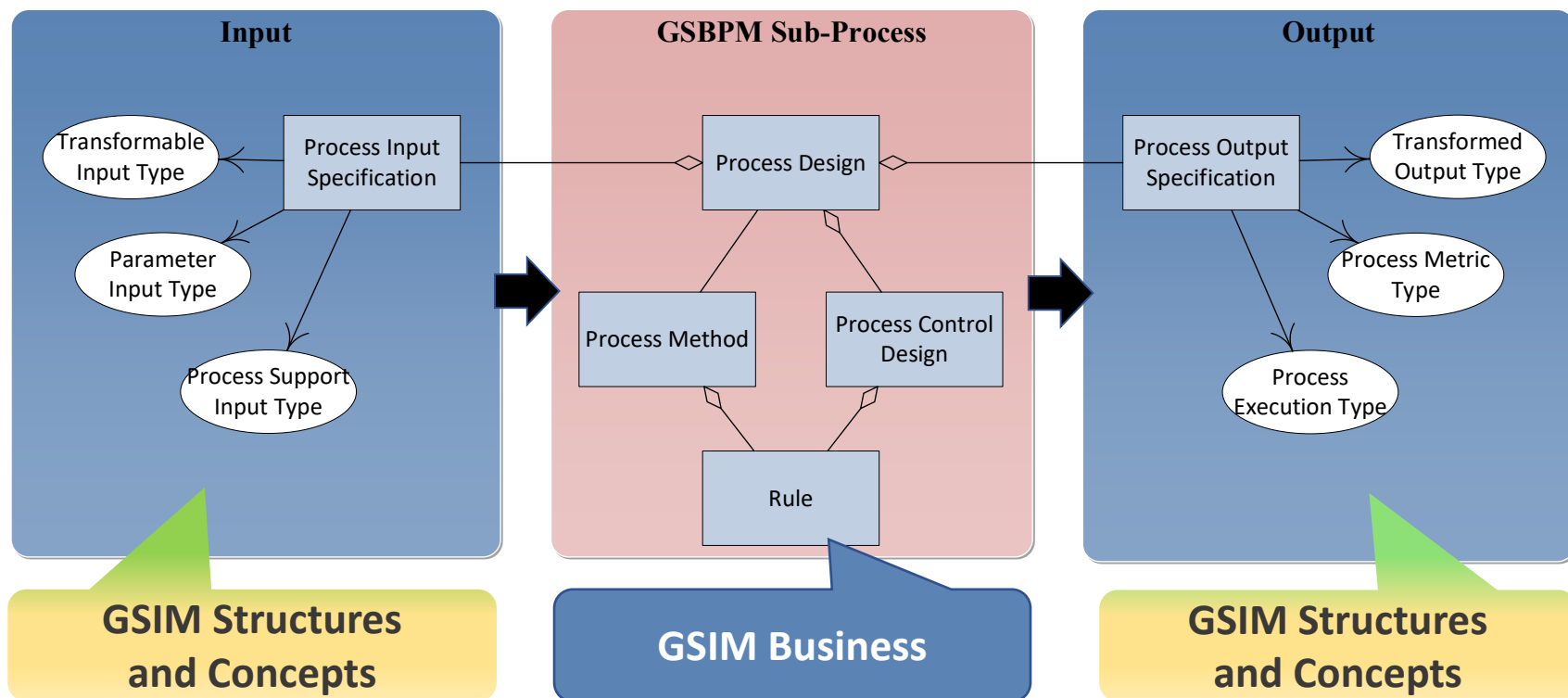
Core Ontology

Metadata Glossary



Linking GSBPM and GSIM

- Chair: Marina Signore (Istat) and Flavio Rizzolo (Statistics Canada)
- 19 members from 9 NSOs and 2 international statistical organisations
- Main goal → help NSOs understand the models better to implement metadata-driven solutions, e.g. CSPA services, and enable semi-automated business process



Linking GSBPM and GSIM: Outcomes

- Results

- Two templates (a high-level specification and illustrative runtime examples) that capture all necessary information
- 20 sub-processes mapped
- New mapping diagrams showing metadata flows
- GSIM definitions update (in collaboration with GSIM task team)
- Detailed report

- Challenges

- Mapping exercise proved to be more challenging for Phases 1 (Specify Needs) and 2 (Design)
 - Processes around requirements and design are less clear
 - Terminological issues between the two models became more problematic
- Access to internal subject matter experts by the NSOs teams to fill out the templates
- Diversity of approaches and interpretations of models

- Future work

- Finalize mapping and metadata flows of remaining GSBPM sub-process
- Continue collaborating with GSIM task team on definitions and model update

Geospatial information for GSBPM

Chair: no chair

18 members from 10 NSOs and 5 international statistical organisations



- Australian Bureau of Statistics
- Central Statistics Office of Ireland
- Data Documentation Initiative
- Eurostat
- Federal Statistical Office of Germany
- INEGI Mexico
- INSEE France
- International Labour Organisation
- Statistics Canada
- Statistics Finland
- Statistics Korea
- Statistics Poland
- Statistics Sweden
- UNSD
- UNECE

Geospatial information for GSBPM

Goal:

- To produce a document describing geospatial related activities under each phase/sub-process of GSBPM.

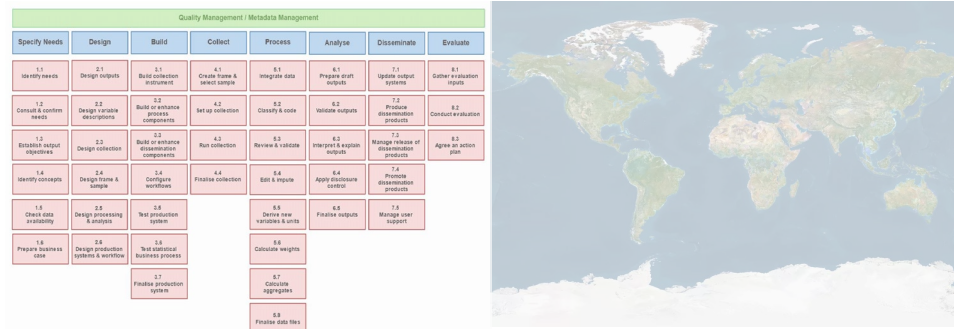
Results:

- Five use cases were identified, from these, two are being focused:
Use of geospatial information to produce geospatially-enabled statistics and Use of geospatial information to support statistical production.
- The group has identified the relation of geospatial information with the subprocesses of five of the eight phases of GSBPM

Geospatial information for GSBPM

Future Work:

- Finishing the review of the remaining phases of the GSBPM
- Addition of Overarching process
- Obtaining feedback from the statistical community
- Edition of the final version of the document
- Including activities into GAMSO



Metadata Glossary - completed

Chair: Dan Gillman (USA-Bureau of Labour Statistics)

9 members from 4 NSOs and 2 international statistical organizations

Approach:

- Intended to be a central, unified and definitive source for the terms and definitions in the ModernStats Models
- Disambiguation between homographs (same spelling, slightly different meanings) and identification of synonyms (different spelling, same or similar meanings)
- Planned output: alphabetically organized list of terms, their definitions, sources for the definitions, source of the term (in which standard(s) does it appear), explanatory text that further contextualizes the meaning, and references to other similar, broader, and narrower terms

Metadata Glossary

- Completed review of terms of GAMSO and GSBPM
- Work in 2020
 - Review of GSIM terms
 - Assess definitions based upon
 - Principles for definition writing
 - Technical content
 - Recommend changes, if needed
 - Provide comments to GSIM discussion forum
 - Input for GSIM update task team
- Completed: May 2020

GSIM update

Chair: Francine Kalonji (Statistics Canada) and Flavio Rizzolo (Statistics Canada)

22 members from 10 national statistical organizations

GSIM is a reference framework for statistical information and

- provides a set of standardised, consistently described information objects
- used across several statistical agencies around the world

GSIM supplies standardised inputs and outputs GSBPM

GSIM update

- Completed Communication paper
 - very useful tool for describing the use of GSIM
 - Now aligned to current GSIM version 1.2
- Planned work, still in progress:
 - Update and clarification of ambiguous points and correction of errors with:
 - inputs from Metadata Glossary
 - inputs from Linking GSBPM and GSIM
 - Inputs from statistical agencies
 - Review of GSIM 2012 User Guide

2020 Virtual ModernStats Workshop

- Advantages and limitations of virtual Workshop
- Wider audience more than 140 participants 40 national and international organisations, discussion and questions in the chat
- 98% responded that quality of the workshop was good/very good. Few comments:
 - *“Making it available virtually meant that many of my staff were able to attend. As we are modernizing, and implementing standards and using the models, this was a very key learning experience for them”*
 - *“thank you very much for this workshop! this modernization may take decades :) but it is a very fundamental change and it is very exciting!”*
 - *“The online workshop gave this opportunity to people not in the loop: I understand that meeting face to face is important, but I really think this online workshop are also very useful and can allow more people having access to the information. Many thanks”*
 - *“the workshop has activated our motivations to continue modernizing the official statistics. Most of the latent ideas have reactivated. Moreover, It has provided us with the final improvements in modernizing official statistics.”*
- More difficult to share experiences, no visual communication
- Request for support from countries (e.g. GSBPM)
- More visibility to the work done and materials available on the Unece WIKI and better communication
- For the future: mix of in person and virtual meetings could be the way forward

Activities in 2021 (and beyond)

Main goals for the Supporting Standards Group in 2021:

- Integrated view: the way the community is dealing with the ModernStats models is getting more and more systematic: integrated approach in the work we are doing
- Completeness: provide outputs to the statistical community with a complete coverage for the whole business process.
- Strong interest of the community in the work of the Supporting Standards Group: launch new action where there is a need for a common solution
- Increasing the visibility of the work and improving communication

Activity proposals for 2021: overview



Linking GSBPM & GSIM

Application of GSBPM for geospatial Information

GSIM Task Team

Core Ontology for Official Statistics

Defining and detailing GSBPM tasks

Completion of the work

Reactivation

Renewal

Activity proposals for 2021: main outputs

Linking GSBPM & GSIM

- Cover the remaining GSBPM phases
- Providing feedback to GSIM Task Team

Application of GSBPM for geospatial Information

- Cover the remaining GSBPM phases
- Review of overarching and corporate-level geospatial-related activities

GSIM Task Team

- Update and clarification of ambiguous points and correction of errors
- Review of GSIM 2012 User Guide

Core Ontology for Official Statistics

- URI policy for UNECE RDF resources
- Core Ontology as an OWL/Turtle file + ontology description and users guide

Defining and detailing GSBPM tasks

- Identify common tasks, summarize findings
- Input for the next GSBPM revision

Future activities: opportunities

Concerning the work of the Supporting Standards Group:

- Synergy

1+1=3, if we do the proposed work as a work programme (e.g. completion of GSBPM-GSIM work providing input for the GSIM Task Team as it is this year)

Concerning the community interested in the group's work:

- Statistical added value

always think about the actual implementation, provide ideas and challenges arising when using these models in the statistical production

- „Hidden gems” in the statistical community

invaluable experience in the community with the use of the ModernStats models: new ideas, unexpected use cases

Future activities: challenges

- Valuable but resource-intensive activities: join our work; we need your experience!
- Visibility of the already available outputs and the current work need to be improved. More action is needed in communicating the ModernStats models.

Acknowledgments

- ✓ Experts committed in the work of the Supporting Standards Group (not always Members of Supporting Standards!)
- ✓ Chairs of the task teams
- ✓ UNECE and Inkyung Choi for her invaluable support