



Supporting Standards Group Activities and Challenges

Supporting Standards Group
19 November 2019
Geneva, Switzerland



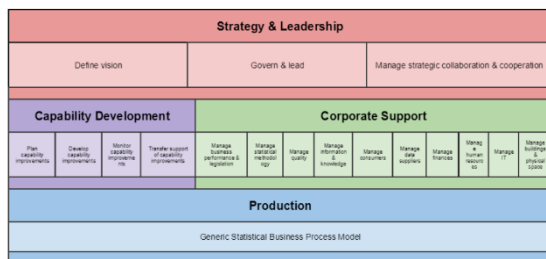
Supporting Standards Group

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:

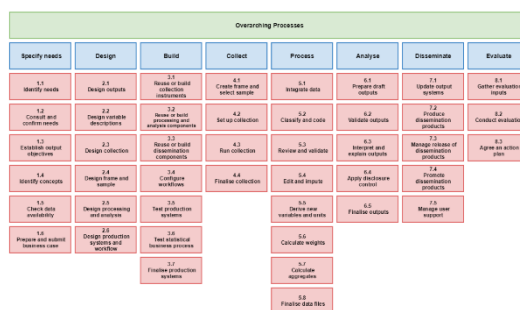
GAMSO

Generic Activity Model for Statistical Organisation



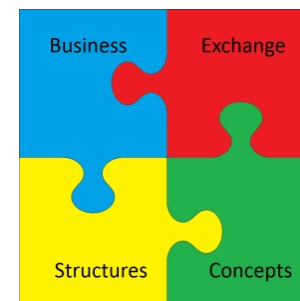
GSBPM

Generic Statistical Business Process Model



GSIM

Generic Statistical Information Model



The Members

24 experts from 17 national/international statistical organizations

Members	Organization
Marina Signore - Chair	Italy – ISTAT
Catrin Karling	Statistics Sweden
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

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

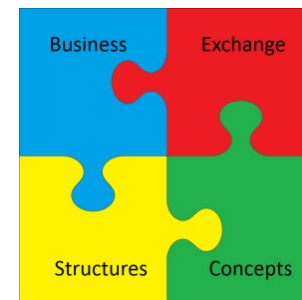
Strategy & Leadership											
Define vision				Govern & lead				Manage strategic collaboration & cooperation			
Capability Development				Corporate Support							
Plan capability development	Develop capability development	Monitor capability development	Transfer support of capability development	Manage business performance & reputation	Manage internal mission & vision	Manage quality	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 Integrate and extend outputs	6.3 Integrate and extend 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 components	4.4 Finalise collection	5.4 Edit and track	6.4 Apply disclosure control	7.4 Produce dissemination products	8.4 Manage user support
1.5 Check data availability	2.5 Design dissemination and control	3.5 Test production systems	4.5 Finalise production systems	5.5 Design dissemination and control	6.5 Produce outputs	7.5 Manage user support	8.5 Manage user support
1.6 Preview and select interest case	2.6 Design production systems and workflow	3.6 Test production systems	4.6 Finalise production systems	5.6 Calculate margins	6.6 Calculate margins	7.6 Calculate margins	8.6 Calculate margins
		3.7 Finalise production systems		5.7 Calculate margins	6.7 Calculate margins	7.7 Calculate margins	8.7 Calculate margins
				5.8 Finalise data files			

**To be submitted for
endorsement (2020)**

GSIM

Version 1.2 was released
in April 2019



Activities in 2019

Activities in 2019 contribute de facto to setting up a more integrated view of the modernisation standards

Linking GSBPM and GSIM

Core Ontology for Official Statistics

Alignment of GSBPM OP with GAMSO

Metadata Glossary



ModernStats World Workshop
together with Sharing Tools Group
26-28 June, Geneva

GSIM e-training
5 November 2019

Linking GSBPM and GSIM

Chair: Marina Signore (Italy-Istat) and Flavio Rizzolo (Statistics Canada)

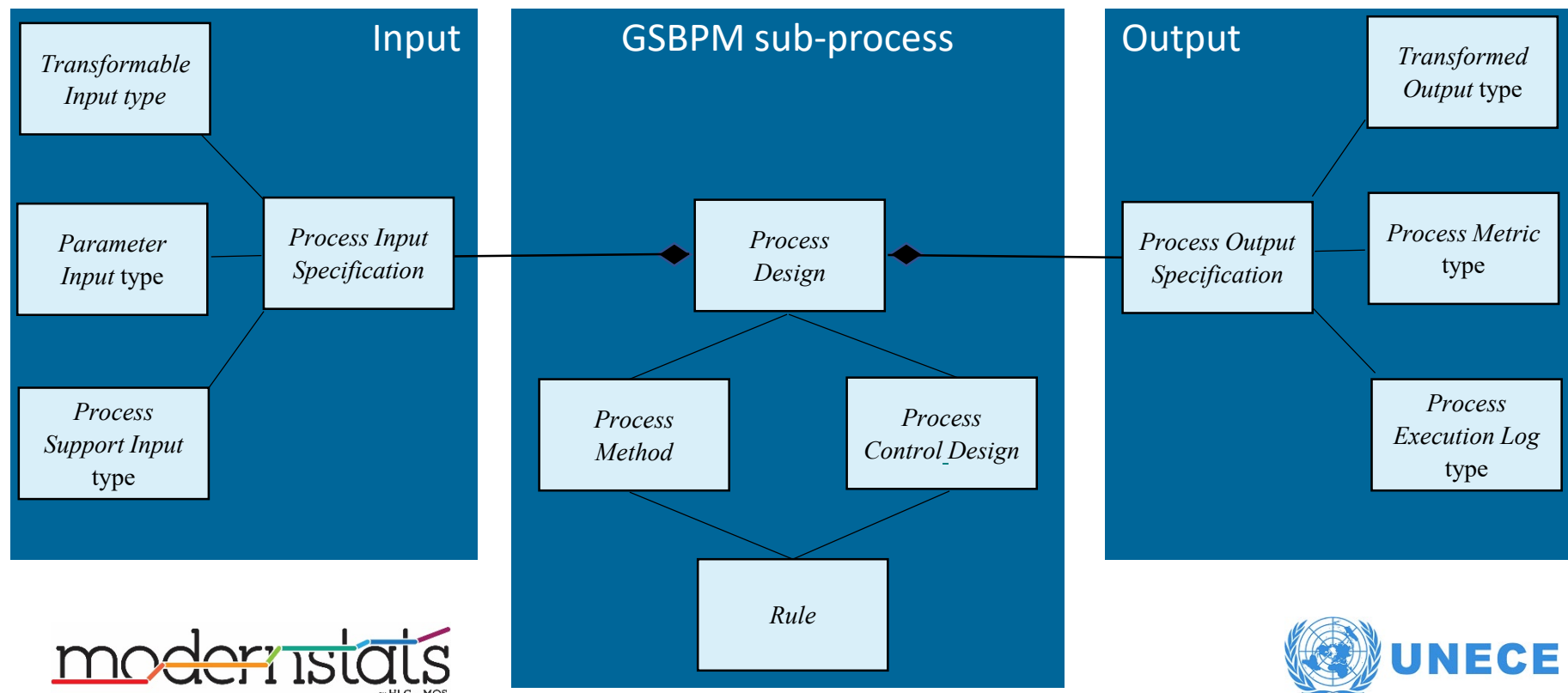
19 members from 11 national/international statistical organizations

- GSBPM and GSIM need to be aligned with the goal of implementing metadata-driven solutions, e.g. CSPA services, to enable semi-automated business process
- GSBPM provides a framework to describe the building blocks of statistical production processes
- GSIM provides a model to describe statistical data and metadata



Describing GSBPM sub-processes

- **GSIM Concept and Structure groups** objects function as inputs/outputs of GSBPM sub-processes
- **GSIM Business group** objects describe the internals of the GSBPM sub-processes



Outcomes

- Results

- Mapping of GSBPM phase 5 (Process)
- Two templates: one with a high-level specification and the other with illustrative runtime examples
- Elicitation of common types of inputs and outputs across examples provided by NSOs

- Challenges

- Terminological issues between the models
- Access to internal subject matter experts by the NSOs teams to fill out the templates

Core Ontology for Official Statistics

Chair: Franck Cotton (France-Insee)

12 members from 7 national/international statistical organizations

ModernStats standards

A lot of models, frameworks: GSBPM, GSIM, GSDem, GAMSO, CSPA, CSDA...

Problems:

- Not always formally defined (e.g. GSBPM, GAMSO...)

- Conceived separately and not always perfectly aligned

- No link to external models or standards

Harmonisation work started in the Supporting Standards group

The COOS is part of this effort

The logo for ModernStats, featuring the word "modernstats" in a stylized font with a horizontal line through it. Below the logo, it says "w/ HLG - MOS".



Development

- Objectives

 - Link ModernStats Models to one another

 - Link with external models (SKOS, PROV-O, ORG...)

 - Provide machine-actionable version of main features of the models

- Timetable

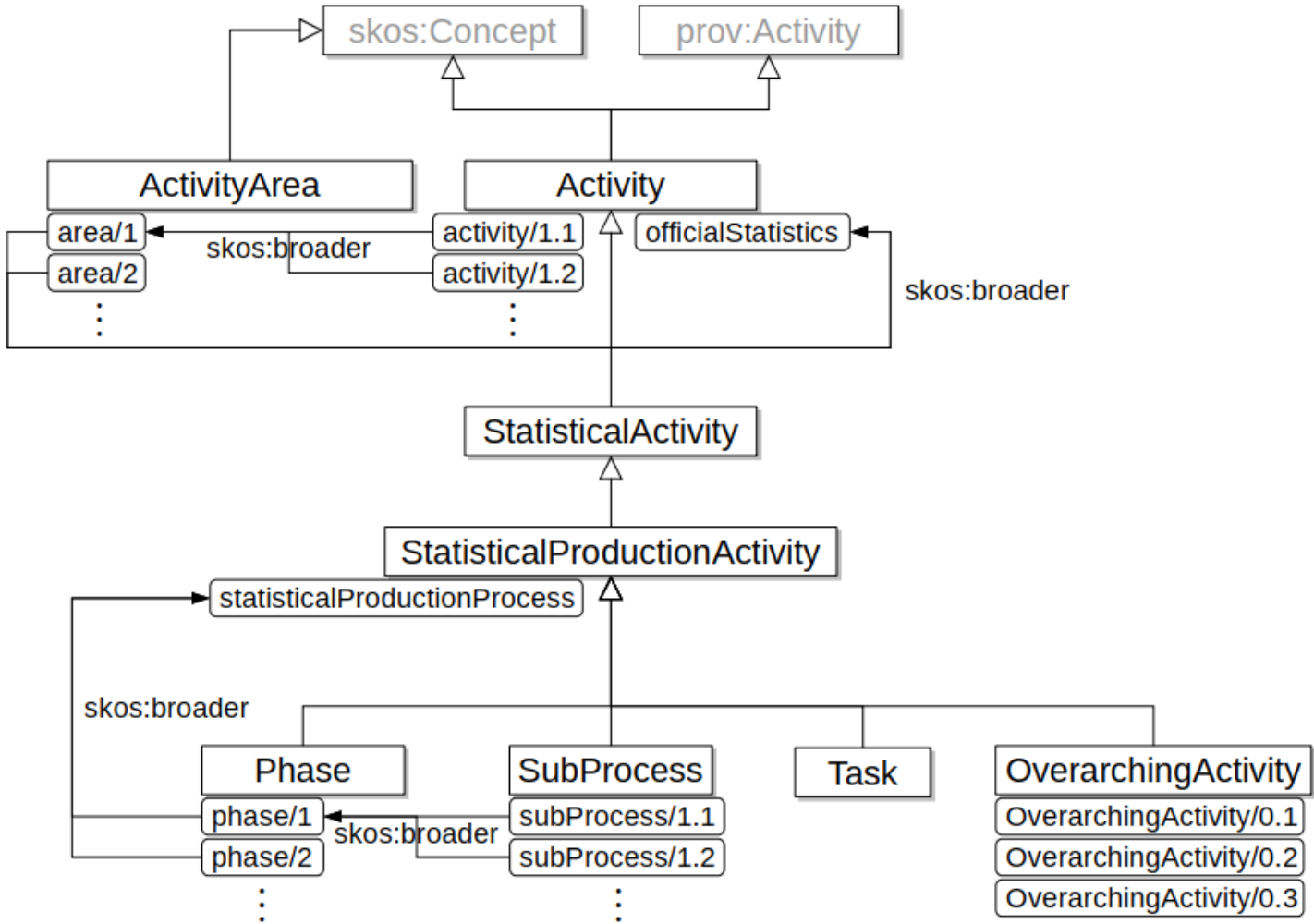
 - 2017: first proof of concept

 - November 2018: activity launched

 - Today: first version of ontology created by working group

 - Next HLG-MOS workshop (end of November) to greenlight next steps

Example of Construct



Alignment of GSBPM Overarching Processes with GAMSO

- Chair: Eduardo Jallath (Mexico - INEGI)
- 12 members from 8 national/international statistical organizations.
- Approach:
 - Identify the goals and restrictions.
 - Develop a conceptual model to guide the integration of GAMSO and GSBPM.
 - Develop a Four-Component Framework to document the relationship of specific GAMSO Activities and GSBPM OPs.
 - Document the relationship of the 6 GSBPM OPs with GAMSO Activities.
- Name of the paper: A model to support the synergistic implementation of GAMSO Activities and GSBPM Overarching Processes.
- Status: Complete.

Value Chain Model

A Model to relate GAMSO Activities and GSBPM OPs

Supporting
activities

GAMSO Activities

Overarching Processes

Specify Needs	Design	Build	Collect	Process	Analyse	Disseminate	Evaluate
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Value

Value

Primary activities

Framework for Documentation

Four-Component Framework

Description
of the
GAMSO
Activity

Description of
the related
GSBPM OP

Relationship
between
GAMSO
Activity and
GSBPM OP

Example
relating
GAMSO
Activity and
GSBPM OP

GSBPM Process vs GAMSO Activities



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2.1 Value Chain Model

2.2 GSBPM and GAMSO

2.2.1 GSBPM

2.2.2 GAMSO

2.3 Integration of GSBPM and GAMSO

3. Current state of GSBPM 5.1 and GAMSO 2.0

4. A Four-Component Framework for documentation

5. Alignment of GAMSO and GSBPM

6. Implementation approaches

6.1 GAMSO (high-level)

6.2 GSBPM (low-level)

6.3 Synergistic

7. Conclusion

Annex A. Historical Perspective of the relationship between GSBPM and GAMSO

Annex B. List of abbreviations

Metadata Glossary

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

11 members from 8 national/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
- Current Work in 2019
 - Review of GSIM terms
 - Assess definitions based upon
 - Principles for definition writing
 - Technical content
 - Recommend changes, if needed
 - Provide comments to GSIM discussion forum
 - Approximately 150 GSIM terms
 - Reviewed about half terms so far
 - Expected completion: April 2020

GSIM e-training

Presenters: Jenny Linnerud (Statistics Norway), Catrin Karling, Patrik Wahlgren (Statistics Sweden), Mikko Saloila, Essi Kaukonen (Statistics Finland), Giorgia Simeoni, Mauro Scanu (Italy-Istat), Francine Kalonji (Statistics Canada)

Registered participants: 146 from 25 national/international statistical organizations

- One day training course
- Very well balanced between explanations of the model and examples of countries implementation
- The package (presentations and slides) available on the wiki

Future activities and challenges

7 Activity proposals submitted by the Supporting Standards Group

- 3 are continuation of 2019 activities
- 4 are proposals for new activities following needs expressed by countries, emerged from discussion at ModernStat Workshop or from 2019 activities
- quite ambitious program which reflects the great interest of Statistical Organisations around ModernStats Models
- important not to loose the momentum: the interest is high because several organisations are now implementing the models and need support

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