

ModernStats Models Governance Guidance

Prepared by Supporting Standards Group

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Scope

The governance policies in this document covers the ModernStats models that were formally endorsed by CES in 2017:

- Generic Statistical Business Process Model (GSBPM)
- Generic Statistical Information Model (GSIM)
- Generic Activity Model for Statistical Organisation (GAMSO)
- Common Statistical Production Architecture (CSPA)

as well as outputs from the HLG-MOS Projects and the Supporting Standards Group that are related to and/or supporting the use of the ModernStats models such as:

- Core Ontology for Official Statistics (COOS)
- Generic Statistical Data Editing Model (GSDEM)
- Common Statistical Data Architecture (CSDA)
- Geospatial View of GSBPM (GeoGSBPM)
- Logical Information Model (LIM)
- Linking GSBPM and GSIM
- Alignment of GSBPM Overarching Process and GAMSO

(see timeline of each model and output in Annex 1)

Revision Frequency

ModernStats models and outputs have different level of maturity and adoption within the official statistics community. For example, according to the latest ModernStats Model Usage Survey (2021), 67% organizations responded the use of the GSBPM is “Widespread” or “Mature” while only 7% organizations have the same level of usage for the GSIM. To balance between the stability and the need for continuous improvements, following revision frequency is recommended:

- GSBPM, GAMSO: 5 year (following the revision procedure step 2-6 below)
- Others: depending on the request from the experts for the revision (following the revision procedure step 1-6 below)

Revision Procedure

1. Experts working on the model proposes the revision to the Supporting Standards Group. This can be done through, for example, existing Task Teams, email request from individual organisation, group discussion at the expert meeting. The revision can be proposed for reasons such as changes in related model(s), internal inconsistency, changes in the business landscape and environment
2. The Supporting Standards Group evaluates the needs and decides whether the revision is needed, and if so, how it should be conducted (e.g., by a dedicated Task Team, by the Supporting Standards Group) as well as timeframe needed. Once the agreement to conduct the revision is reached, the Group proposes the revision to the Executive Board
3. The Executive Board evaluates the needs and decides whether the revision is needed in consideration of the broad work programme and objectives of the HLG-MOS. Once the agreement to conduct the revision is reached, the Supporting Standards Group prepares an activity proposal to be submitted to the HLG-MOS as a part of the Supporting Standards Group work programme of the following year
4. If HLG-MOS approves the activity, the Supporting Standards Group creates the Revision Task Team or starts the revision depending on the mode of the revision agreed
5. The revision is conducted
6. The revised version is submitted to the Executive Board and the HLG-MOS for the approval. When applicable, the UNECE initiates the formal CES endorsement procedure

Revision Principle

The principles that should be followed for the revision are as below:

Start of revision

- Decision of the revision should be announced within the modernisation community and every organisation in the community is invited to participate in the revision work whether it is done by the Supporting Standards Group or a separate Task Team
- Multiple channels should be available through which users of the models and outputs could share their feedback (e.g. workshop small group discussion, Wiki Discussion Forum, email)

During revision

- Discussion about the revision should be recorded and made available on the designated wiki page of the revision team (i.e. Supporting Standards Group or Task Team) in a clear and systematic manner
- When possible, the revision team should report the progress at the relevant expert meeting to keep the community informed

After revision

- Old version should be still available publicly with a clear indication that new version is released
- Discussion within the revision team should be made available publicly to the extent possible
- Release note highlighting the most important changes should accompany the new version of the model

Versioning

To follow [Semantic Versioning](#), namely

- Major version when incompatible changes are made
- Minor version when backward compatible changes are made
- Patch version when backward compatible changes to fix error or mistake are made

with a version format of X.Y.Z (Major.Minor.Patch).

Examples of the changes are as below:

For GSBPM

- Major: structural change that make the new version incompatible with the existing version (e.g. removal of phase or sub-process), change of main activities within each phase or sub-process
- Minor revision: structural change compatible with the existing version (e.g. addition of phase, sub-process, overarching processes), addition of description and examples of activities that does not invalidate the previous version
- Patch: correction of typo, re-wording of sentences for the clarification without changing the substance

For GSIM

- Major revision: removal of objects, removal of relationship between objects, change of name, definition of objects, change of cardinality that are not backward compatible.
- Minor revision: addition of objects, change of object name that can be 1-1 mapped to previous version
- Patch: correction of typo, re-wording of definitions and explanatory texts for the clarification without changing the substance

The Revision Procedure above applies to Major and Minor changes. The Patch change can be conducted by Supporting Standards Group.

Ownership

The owner is the International Statistics Community. The Supporting Standards Group is responsible for the development and the maintenance of the models and the outputs, under the guidance of the UNECE HLG-MOS and its Executive Board which is mandated by the Conference of European Statistician (CES).

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Translation

The HLG-MOS and the UNECE do not provide the translation of the models. Organisations that have translated the model(s) are encouraged to share them with the UNECE Secretariat so that they can be posted on the relevant public wiki pages.

Annex: timeline for models and outputs

Generic Statistical Business Process Model (GSBPM)

- [GSBPM 5.1](#) – 2019 by SSG GBSPM revision task team
- [GSBPM 5.0](#) – 2013 by SSG GBSPM revision task team (endorsed by CES in 2017)
- [GSBPM 4.0](#) - 2009
- [GSBPM 3.1](#) – 2008
- [GSBPM 2.0](#) – 2008
- [GSBPM 1.0](#) – 2008 by METIS Steering Group

Generic Statistical Information Model (GSIM)

- [GSIM 1.2](#) – 2019
- [GSIM 1.1](#) – 2013 (endorsed by CES in 2017)
- [GSIM 1.0](#) – 2012
- GSIM 0.8 – 2012
- GSIM 0.4 – 2012
- GSIM 0.3 – 2012
- GSIM 0.1 - 2011

Generic Activity Model for Statistical Organisation (GAMSO)

- [GAMSO 1.2](#) - 2019
- [GAMSO 1.1](#) – 2017 (endorsed by CES in 2017)
- [GAMSO 1.0](#) - 2015

Common Statistical Production Architecture (CSPA)

- [CSPA 2.0](#) – 2021
- [CSPA 1.5](#) – 2015 (endorsed by CES in 2017)
- [CSPA 1.1](#) – 2015
- [CSPA 0.1](#) – 2013

Core Ontology for Official Statistics (COOS)

- COOS 1.0 – To-be-released by its task team

Generic Statistical Data Editing Model (GSDEM)

- [GSDEM 1.0](#) – 2015 by SDE community
- [GSDEM 2.0](#) – 2019 by SDE community

Common Statistical Data Architecture (CSDA)

- [CSDA 2.0](#) – 2018 by DA Project
- [CSDA 1.0](#) – 2017 by DA Project

Logical Information Model (LIM)

- [LIM 0.9](#) – 2015

Geospatial View of GSBPM (GeoGSBPM)

- [GeoGSBPM 1.0](#) – 2021 by SSG Geospatial task team

Linking GSBPM and GAMSO

- To-be-released by its task team

Alignment of GSBPM Overarching Process and GAMSO

- [Alignment of GSBPM Overarching Process and GAMSO 1.0](#) – 2019