An Introduction to GSBPM-GAMSO

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Generic Statistical Business Model: GSBPM

- GSBPM developed by METIS, the Steering Group on Statistical Metadata of the Conference of European Statisticians (first proposal 2008 CES endorsement: 2014).
  - Based on business process model New Zealand model (and other business process models, statistical process cycle, survey life-cycle, statistical value chain etc.)

- In 2010 moved under the High-Level Group for the Modernisation of Official Statistics (HLG-MOS). METIS → Modernisation Committee on Standards → Supporting Standards
GSBPM

- International Standard or Model that describes statistical business processes in a general and process-oriented way
- Independent of data source: survey, census, administrative registers, business portals, Big Data etc..
- Exploration, new and ongoing
- All Statistical domains
- NSO and other national producers of official statistics and International organisations

**Cookbook/checklist with:**
- 8 Process
- 44 Sub-processes
- Overarching processes
- GSBPM Tasks: a finer-level of activities
- National adaptations
### Overarching Processes

<table>
<thead>
<tr>
<th>Specify needs</th>
<th>Design</th>
<th>Build</th>
<th>Collect</th>
<th>Process</th>
<th>Analyse</th>
<th>Disseminate</th>
<th>Evaluate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1 Identify needs</td>
<td>2.1 Design outputs</td>
<td>3.1 Design frame and select sample</td>
<td>4.1 Create frame and select sample</td>
<td>5.1 Integrate data</td>
<td>6.1 Prepare draft outputs</td>
<td>7.1 Update output products</td>
<td>8.1 Gather evaluation inputs</td>
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<tr>
<td>1.2 Consult and confirm needs</td>
<td>2.2 Design variable descriptions</td>
<td>3.2 Design variable integration and analysis components</td>
<td>4.2 Set up collection</td>
<td>5.2 Classify and code</td>
<td>6.2 Validate outputs</td>
<td>7.2 Produce dissemination products</td>
<td>8.2 Conduct evaluation</td>
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<tr>
<td>1.3 Establish output objectives</td>
<td>2.3 Design collection</td>
<td>3.3 Design dissemination components</td>
<td>4.3 Run collection</td>
<td>5.3 Review and validate</td>
<td>6.3 Interpret and explain outputs</td>
<td>7.3 Manage release of dissemination products</td>
<td>8.3 Agree on action plan</td>
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<tr>
<td>1.4 Identify concepts</td>
<td>2.4 Design frame and sample</td>
<td>3.4 Configure workflow</td>
<td>4.4 Finalize collection</td>
<td>5.4 Edit and update</td>
<td>6.4 Apply disclosure control</td>
<td>7.4 Promote dissemination products</td>
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<tr>
<td>1.5 Check data availability</td>
<td>2.5 Design processing and analysis</td>
<td>3.5 Test production systems</td>
<td></td>
<td>5.5 Derive new variables and units</td>
<td>6.5 Finalise output</td>
<td>7.5 Manage user support</td>
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<tr>
<td>1.6 Prepare and submit business case</td>
<td>2.6 Design production systems and workflow</td>
<td>3.6 Test statistical business process</td>
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<td>5.6 Calculate weights</td>
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<td></td>
<td></td>
<td>3.7 Finalise production systems</td>
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<td>5.7 Calculate aggregates</td>
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### National Adaptations/Extensions

- Level 1: 8 Phases
- Level 2: 44 Sub-processes
- Level 3: GSBP M Tasks
Level 1: 8 Phases

Overarching Processes

Level 2: 44 Sub-processes

Level 3: GSBPM Tasks

National Adaptations/Extensions
**GSBPM Tasks**

1.2.1 Identify relevant internal and external stakeholders for the given needs

1.2.2 Specify the needs in consultation with stakeholders and organizational strategy and priority

1.2.3 Confirm the needs with stakeholders

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**Specify Needs**

1.1 Identify needs

1.2 Consult and confirm needs

1.3 Establish output objectives

1.4 Identify concepts

1.5 Check data availability

1.6 Prepare and submit business case

**1.2 Consult and confirm needs**

This sub-process focuses on consulting with the internal and external stakeholders and confirming in detail the needs for the statistics. A good understanding of user needs is required so that the statistical organisation knows not only what it is expected to deliver, but also when, how, and, perhaps most importantly, why. For the second and subsequent iterations of this phase, the main focus will be on determining whether previously identified needs have changed. This detailed understanding of user needs is the critical part of this sub-process.

**Quality Indicators:**

- To what extent have stakeholders confirmed the detailed statistical needs (what, when, how and why) as documented by the NSO?
- To what extent does the data source satisfy information demand?

For details, see [Quality Indicators for GSBPM version 2.0](#)
GSBPM: usages

• Common language/standardized process terminology
• Common reference framework
• Benchmarking within and between statistical organizations
• Efficiency (identifying synergies between processes)
• Cost estimation and evaluation tool
• Process based organization structures
• Develop/align systems and business/enterprise architectures (Service Oriented Architecture)
• Process Quality management/frameworks
• Methodology framework
• Software sharing
Generic Activity Model for Statistical Organisations: GAMSO

- Extends and complements GSBPM to cover activities needed to support statistical production (that are not directly part of the production cycle of a statistics)

- Covers the whole of an NSO (all functions/staff)

- GAMSO (v1.0: 2015, v1.2: 2019)
  - Based on GSBPM (production) and the Business Activity model of the Statistical Network (SN-BAM)

- National adaptations (management administrative registers, geo-spatial standards/infrastructure, outsourcing, stewardship roles, de-centralized systems)
GAMSO

- **Strategy and Leadership** – define vision, govern & lead and manage strategic collaboration & cooperation
- **Capability Development** – Plan, develop, monitor and support implementing capabilities
- **Corporate Support** – manage: business & performance, finances, HR, IT, methodology, information & knowledge, consumers, data suppliers, buildings/offices, quality
- **Production**: GSBPM

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<th>Strategy and Leadership</th>
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<td>Define Vision</td>
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<tr>
<th>Capability Development</th>
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<td>Plan Capability Improvements</td>
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<th>Corporate Support</th>
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<td>Manage Business Performance and Legislation</td>
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<th>Production</th>
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<td>Generic Statistical Business Process Model</td>
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*modernstats*
GAMSO: use

- Capability development & training framework
- Resource Planning tool
- Support for Risk Management
- Framework for (data and business) Ethics
- Enterprise Architecture implementation
- Process Quality management/frameworks
- Methodology framework
- Common language/standardized process terminology
- Common reference framework
- Benchmarking within and between statistical organizations
- Efficiency (identifying synergies between processes)
- Cost estimation and evaluation tool
GAMSO & GSBPM

• GAMSO includes GSBPM (‘Production’)
• GAMSO: what we do, GSBPM: how we do
• Generic models → can be adapted to unique situation of organizations

• HLG-MOS Supporting Standards group responsible for maintenance
• Reviewed/revised about every 4-5 years
• But: GSBPM/GAMSO revision in 2023

• Clarifying: Corporate Support vs Overarching processes
• How about: Ethics, Communication (internal, value), partnerships, data stewardship
Tools and Resources

- Clickable GAMSO v1.2 & Clickable GSBPM v5.1
- Modernisation Maturity Model, Roadmap, and tools
- ModernStats World Workshops
- New: ModernStats Community of Practice
- GAMSO Resources Repository & GSBPM Resources Repository
- GAMSO Discussion Forum & GSBPM Discussion Forum
- GSBPM Training Materials
- Uses of GSBPM
- GeoGSBPM
- More coming every day!
Links

- **GAMSO**
  - Main space
  - Clickable
  - Resource repository

- **GSBPM**
  - Main space
  - Clickable
  - Resource repository
  - GeoGSBPM