



An Introduction to GSBPM-GAMSO

*SESRIC Workshop on 'Generic Models of
Statistical Production'*

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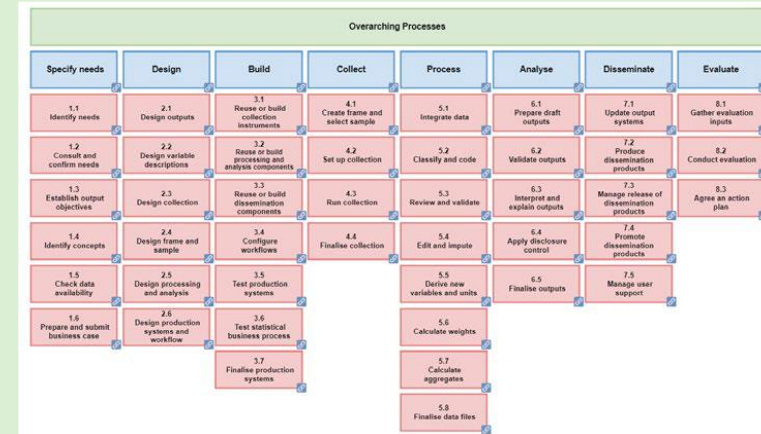


Generic Statistical Business Model: GSBPM

- 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

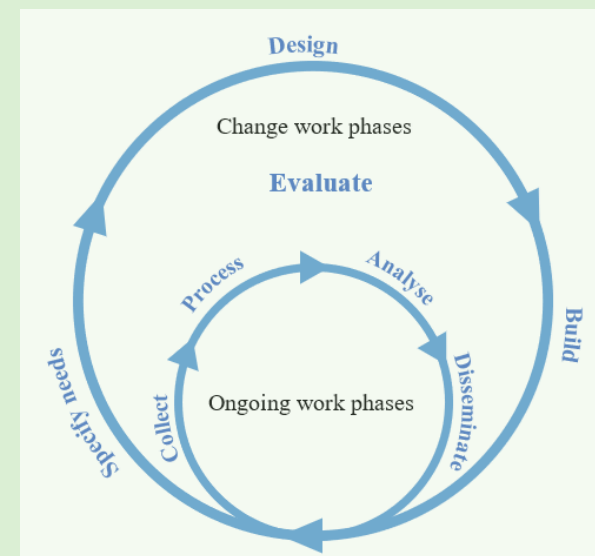


GSBPM

- 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

Level 1: 8 Phases

Level 2: 44 Sub-processes

Level 3: GSBP M Tasks

Overarching Processes							
Specify needs	Design	Build	Collect	Process	Analyse	Disseminate	Evaluate
1.1 Identify needs	2.1 Design outputs	3.1 Reuse or build collection instruments	4.1 Create frame and select sample	5.1 Integrate data	6.1 Prepare draft outputs	7.1 Update output systems	8.1 Gather evaluation inputs
1.2 Consult and confirm needs	2.2 Design variable descriptions	3.2 Reuse or build processing and analysis components	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 objectives	2.3 Design collection	3.3 Reuse or build dissemination components	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 an action plan
1.4 Identify concepts	2.4 Design frame and sample	3.4 Configure workflows	4.4 Finalise collection	5.4 Edit and impute	6.4 Apply disclosure control	7.4 Promote dissemination products	
1.5 Check data availability	2.5 Design processing and analysis	3.5 Test production systems		5.5 Derive new variables and units	6.5 Finalise outputs	7.5 Manage user support	
1.6 Prepare and submit business case	2.6 Design production systems and workflow	3.6 Test statistical business process		5.6 Calculate weights			
		3.7 Finalise production systems		5.7 Calculate aggregates			
				5.8 Finalise data files			

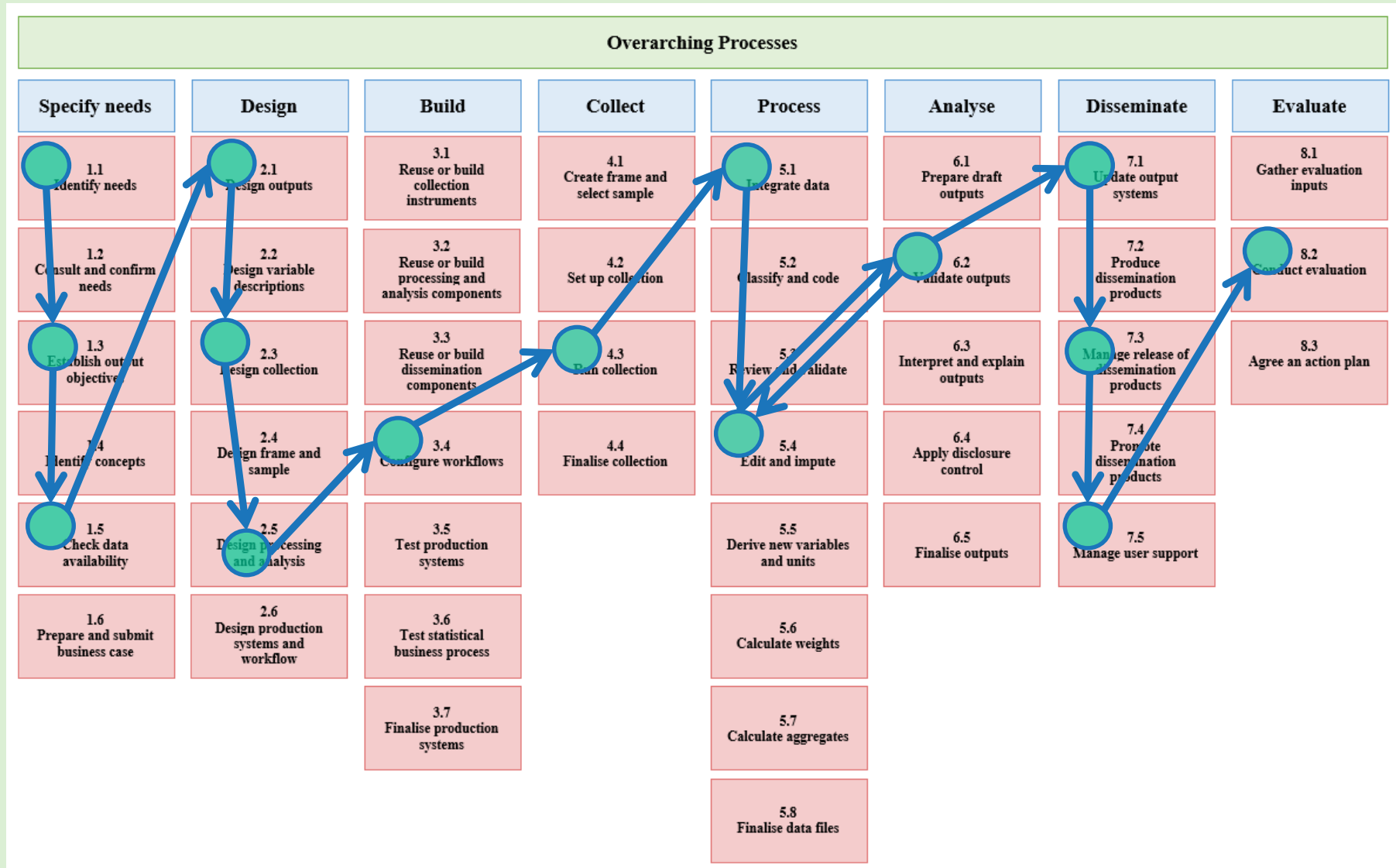
National Adaptations/Extensions

Overarching Processes

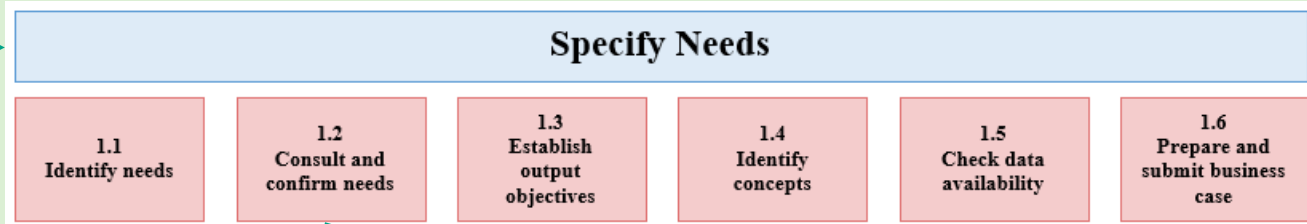
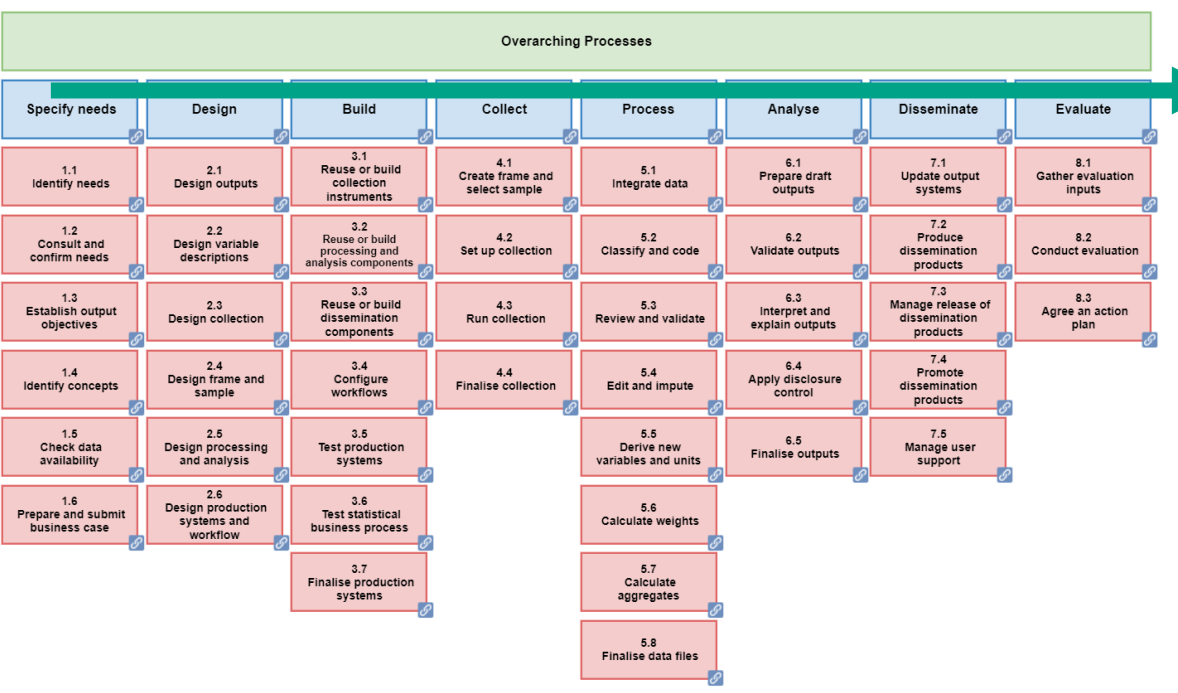
Level 1: 8 Phases

Level 2: 44 Sub-processes

Level 3: GSBP M Tasks



GSBPM



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 \(version 2.0\)](#)

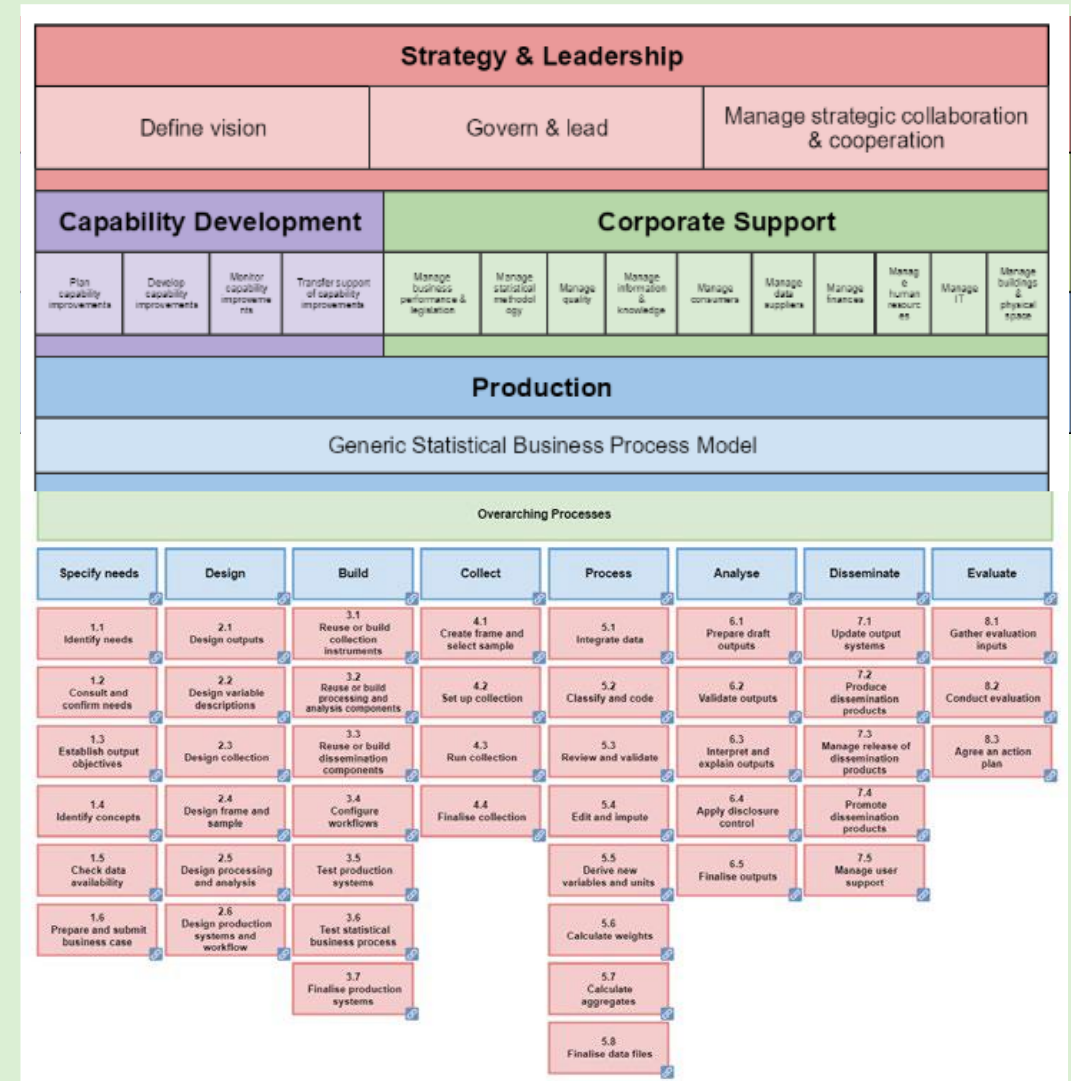
- GSBPM Tasks**
- 1.2.1 Identify relevant internal and external stakeholders for the given needs
 - 1.2.2 Specify the needs in consultation with stakeholders and organizational strategy and priority
 - 1.2.3 Confirm the needs with stakeholders

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

Strategy and Leadership		
Define Vision	Govern and Lead	Manage Strategic Collaboration and Cooperation

Capability Development			
Plan Capability Improvements	Develop Capability Improvements	Monitor Capability Improvements	Transfer Support of Capability Improvements

Corporate Support									
Manage Business Performance and Legislation	Manage Statistical Methodology	Manage Quality	Manage Information and Knowledge	Manage Consumers	Manage Data Suppliers	Manage Finances	Manage Human Resources	Manage IT	Manage Buildings and Physical Space

Production
Generic Statistical Business Process Model

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*

Tools and Resources

- [Clickable GAMS0 v1.2](#) & [Clickable GSBPM v5.1](#)
- [Modernisation Maturity Model, Roadmap, and tools](#)
- [ModernStats World Workshops](#)
- [New: ModernStats Community of Practice](#)
- [GAMS0 Resources Repository](#) & [GSBPM Resources Repository](#)
- [GAMS0 Discussion Forum](#) & [GSBPM Discussion Forum](#)
- [GSBPM Training Materials](#)
- [Uses of GSBPM](#)
- [GeoGSBPM](#)
- More coming every day!



Supporting standards

Modernisation of Official Statistics

Links

- GAMSO

- [Main space](#)

- [Clickable](#)

- [Resource repository](#)

- GSBPM













- [Main space](#)

- [Clickable](#)

- [Resource repository](#)

- [GeoGSBPM](#)

Welcome to GSBPM wiki space!

If you want to know	Relevant GSBPM resources
the latest version of GSBPM	 GSBPM Current version of GSBPM v5.1 available here
	 Clickable GSBPM Clickable GSBPM v5.1
introductory materials on GSBPM	 Learning GSBPM Introductory presentations from past training and workshops
how to implement the GSBPM in your organisations	 Roadmap for Implementing ModernStats Standards Modernisation Maturity Model (MMM) and MMM Roadmap Tools
how to model information flow within GSBPM using GSIM	 Information flow within GSBPM using GSIM Information flow within GSBPM described using Generic Statistical Information Model (GSIM)
how to use GSBPM for the production of geospatially-enabled statistics	 Geospatial view of GSBPM Geospatial-related activities and considerations needed for the production process
finer-level activities in GSBPM	 GSBPM Tasks New Finer-level of activities under the eight phases of the process and sub-processes
past versions of GSBPM	 Previous versions of GSBPM Previous versions of GSBPM (v1.0, v2.0, v3.1, v4.0 and v5.0)
how other statistical organisations implemented / used GSBPM	 Uses of GSBPM Use cases of GSBPM (mapping specific processes to GSBPM, using GSBPM for managing statistical programmes and etc.)
quality indicators across GSBPM	 Quality Indicators for GSBPM Quality indicators for each GSBPM subprocess
all resources available on GSBPM!	 GSBPM resources repository Click here to browse all resources in the GSBPM wiki space and search by
Or, just to ask questions about GSBPM	 GSBPM Discussion Forum Questions about GSBPM? Post them here!