

What is the GSBPM?

- Flexible model that *describes* and *defines* the *set of business processes* needed to *produce official statistics*
- *Standard framework* and *harmonised terminology* helps to:
 - Modernise statistical production processes
 - Share methods and components
 - **Improve communication**

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 instrument	4.1 Create frame & select sample	5.1 Integrate data	6.1 Prepare draft outputs	7.1 Update output systems	8.1 Gather evaluation inputs
1.2 Consult & confirm needs	2.2 Design variable descriptions	3.2 Reuse or Build processing & 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 & explain outputs	7.3 Manage release of dissemination products	8.3 Agree on an action plan
1.4 Identify concepts	2.4 Design frame & sample	3.4 Configure workflows	4.4 Finalise collection	5.4 Edit & impute	6.4 Apply disclosure control	7.4 Promote dissemination products	
1.5 Check data availability	2.5 Design processing & analysis	3.5 Test production system		5.5 Derive new variables & units	6.5 Finalise outputs	7.5 Manage user support	
1.6 Prepare and submit business case	2.6 Design production systems & workflow	3.6 Test statistical business		5.6 Calculate weights			
		3.7 Finalise production system		5.7 Calculate aggregates			
				5.8 Finalise data files			

GSBPM Version 5.1
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Slides by M. Guerrero

Structure

Process



Phases

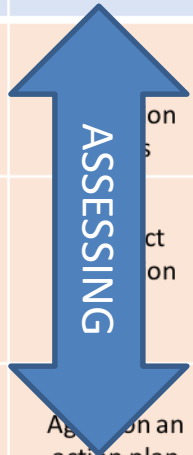
Sub-
processes

(Detailed descriptions)

Specify Needs	Design	Build	Collect	Process	Analyse	Disseminate	Evaluate
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Key features

❖ **Not a linear model**

- ❖ Sub-processes are not followed in a strict order
- ❖ It is a matrix, through which there are many possible paths

Applies to ...

- All *activities* undertaken by producers of official statistics which result in data outputs
- All statistical *domains*
- *National* and *international* statistical organisations

Quality Management

Organisation
level

GAMSO

- Establishing institutional quality framework
- Guidelines to use the quality framework

Process
level

GSBPM

- Documenting processes
- Monitoring quality throughout process cycle

Sub-process level

GSBPM Quality Indicators

- Managing quality at each step of the process



What is the GAMSOS?

- ❖ **G**eneric **A**ctivity **M**odel for **S**tatistical **O**rganisations
- ❖ Covers all activities of statistical organisations

Strategy and leadership

Capability development

Corporate support

Production

Corporate support



Manage
business
performance
& legislation

Manage
statistical
methodology

Manage
quality

Manage
information &
knowledge

Manage
consumers

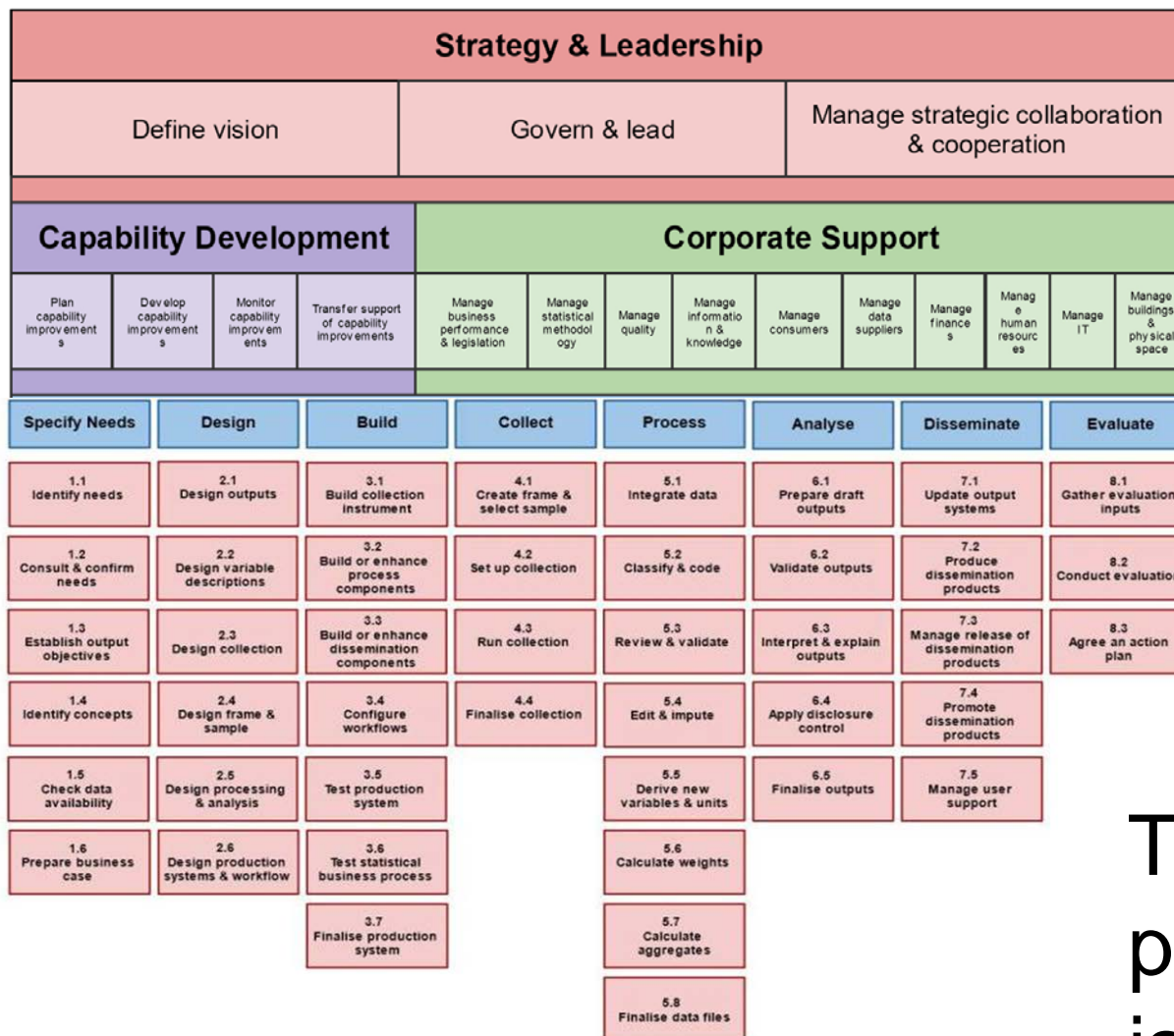
Manage
data
suppliers

Manage
finances

Manage
human
resources

Manage
IT

Manage
buildings &
physical
space



The production part of GAMSO is the GSBPM



UNEP

Quality Management/Website Management							
Specify Needs	Design	Build	Collect	Process	Analyze	Store/hold	Evaluate
1.1 Create needs	2.1 Design website	3.1 Build database structure	4.1 Create form & record layout	5.1 Program code	6.1 Program test output	7.1 Store data on file	8.1 Output processed data
1.2 Review & approve needs	2.2 Design website description	3.2 Build or enhance program components	4.2 Set up collection	5.2 Modify & code	6.2 Review output	7.2 Produce data backup products	8.2 Review & evaluate
1.3 Establish output requirements	2.3 Design structure	3.3 Build or enhance component components	4.3 Run collection	5.3 Review & modify	6.3 Interpret & explain output	7.3 Manage release of data backup products	8.3 Agree on action plan
1.4 Create database	2.4 Design form & screen	3.4 Program software	4.4 Prepare collection	5.4 Set up program	6.4 Add program error	7.4 Review all database products	
1.5 Check data availability	1.6 Design processing & analysis	2.5 Test database system		5.5 Define user requirements & roles	6.5 Program update	7.5 Manage user support	
1.6 Prepare business plan	1.7 Design collection system & monitor	2.6 Test collected database process		5.6 Calculate weights			
		2.7 Prepare production system		5.7 Calculate responsibility			
				5.8 Prepare data flow			



Documentation



- ❖ Standardisation
- ❖ Benchmarking
- ❖ Quality reporting
- ❖ Process (re)design



GSBPM Quality Indicators

- Generic indicators were proposed in order to reflect the nature of the GSBPM
- Consistency with existing frameworks – links to:
 - UN National Quality Assurance Framework
 - ESS Code of Practice
- No formulas - but explanations are provided
- Quantitative indicators used where possible
- Qualitative indicators in the form of yes/no or high/medium/low

EXAMPLE

Specify Needs

**1.1
Identify needs**

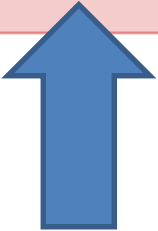
**1.2
Consult and
confirm needs**

**1.3
Establish
output
objectives**

**1.4
Identify
concepts**

**1.5
Check data
availability**

**1.6
Prepare and
submit business
case**



Quality Dimension	Indicator
Relevance	<ul style="list-style-type: none">• To what extent have stakeholders been identified and included in discussions about statistical needs?• To what extent has relevant supporting documentation been gathered?

Main Changes in v5.1

Some sub-processes were re-named:

GSBPM v5.0

1.6
Prepare
business case

3.1
Build collection
instruments

GSBPM v5.1

1.6
Prepare and
submit
business case

3.1
Reuse or build
collection
instruments

...also 3.2 and 3.3



Main Changes in v5.1

Descriptions updated and expanded to make GSBPM more applicable for different data sources, e.g.

- 2.3 Design collection - Design mechanism for quality monitoring for third party provider
- 4.1. Create frame and select sample - Use administrative data for sample design
- 2.5 Design processing and analysis - Consider data integration from multiple sources



Main Changes in v5.1

Overarching processes removed, except those directly related to statistical production

- Quality management
- Metadata management
- Data management
- Process data management
- Knowledge management
- Provider management

