

High Level Group for the Modernisation of Official Statistics (HLG-MOS)



Achievements in 2016

2016 Projects

- Data Integration
 - Experiments and draft guidelines
- Linked Open Metadata
 - Machine-readable versions of classifications and models, and tools to manage them
- Modernisation Maturity Models
 - To assess readiness for modernisation
 - Roadmap to show next steps

Modernisation Groups

- Risk management guidelines
- Barriers to international collaboration
- GAMSO version 1.1
- Methodology architecture
- Next generation data management
- Handbook for Managers



Projects for 2017

Data Integration

- Complete the guidelines
- Practical experiments with different data sources



DATA INTEGRATION



DATA ARCHITECTURE

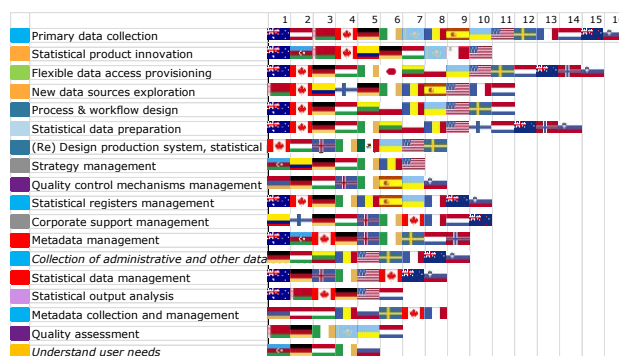
Data Architecture Project

- How to manage increasingly diverse data types within a statistical organisation



Strategic Investment Planning

- Sharing plans between organisations
- Finding partners with similar priorities
- Surveys:
 - Pilot 2015
 - Full 2016 – 23 responses, 282 “investments”
 - 2017 survey to be sent out in July



Modernstats Models and Frameworks

The mission of HLG-MOS is to oversee development of frameworks, and sharing of information, tools and methods, which support the modernization of statistical organizations.

The models and frameworks endorsed by HLG-MOS include:

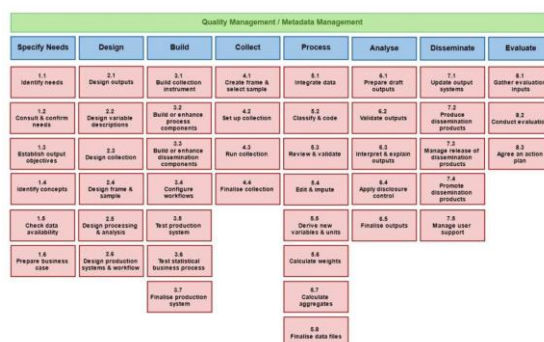
- Generic Statistical Business Process Model (GSBPM)
- Generic Activity Model for Statistical Organisations (GAMSO)
- Generic Statistical Information Model (GSIM)
- Common Statistical Production Architecture (CSPA)

These models and frameworks are cross-cutting, supporting the modernisation of all types of statistical production.



Generic Statistical Business Process Model (GSBPM)

- It defines and describes the processes needed to produce official statistics.
- The GSBPM is used by more than 50 statistical organisations worldwide.
- It is used for:
 - Managing statistical programmes
 - Cost / resource allocation
 - Documenting statistical processes
 - Framework for quality assessment
 - Sharing statistical software

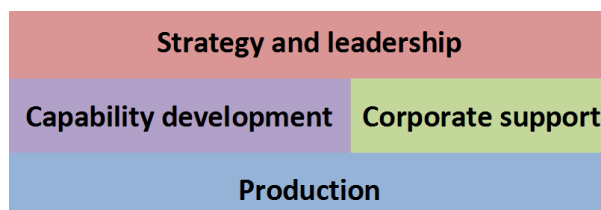


Generic Activity Model for Statistical Organisations (GAMSO)

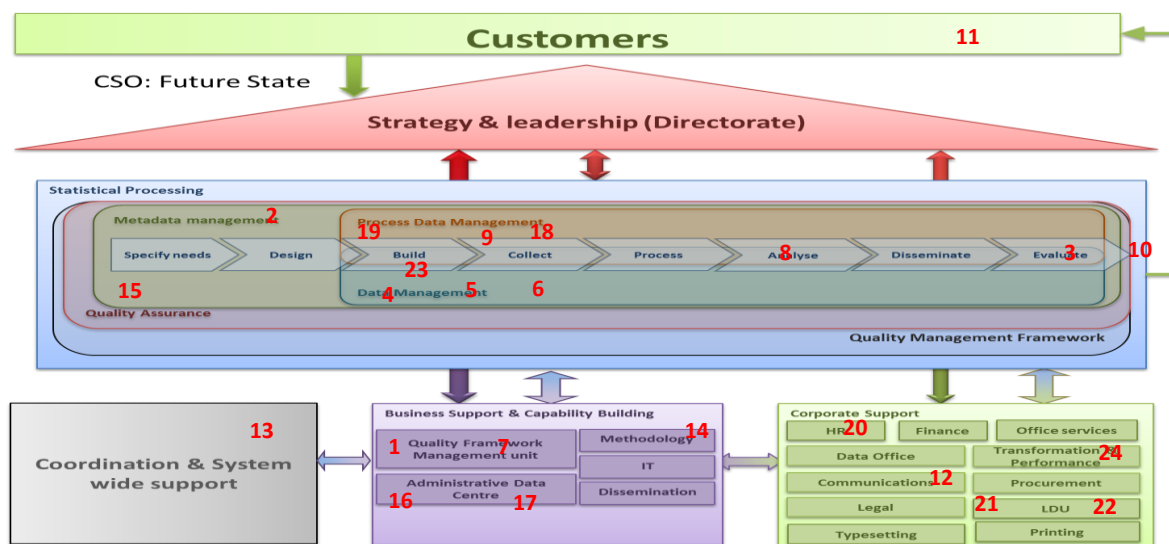
GAMSO extends and complements the GSBPM by adding other activities needed to support statistical production

Uses of GAMSO include:

- Resource planning
- Measuring costs
- Assessing readiness to implement different aspects of modernisation
- Supporting risk management systems
- Implementing enterprise architecture
- Measuring and communicating the value of statistical modernisation activities



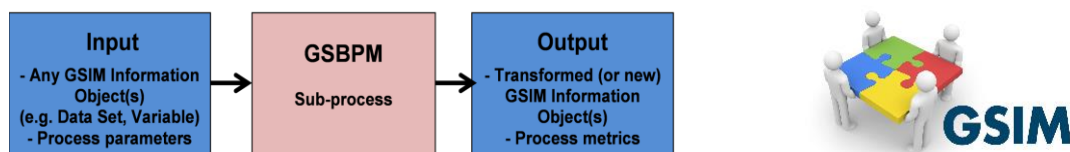
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Generic Statistical Information Model (GSIM)

GSIM describes the information objects and flows within the statistical business process.



It can use be used to consistently design processes and to more easily share software between statistical organisations



Common Statistical Production Architecture (CSPA)

- The CSPA has been developed to support the sharing and re-use of tools across statistical domains and between statistical organisations.
- It provides a blue-print for a new way of designing, building and implementing the tools needed to produce official statistics.
- It has been adopted as the basis for the European Statistical System SERV projects, which aim to develop common services as part of the Vision 2020 initiative.



Modernisation Maturity Model (MMM)

The MMM and its Roadmap focus on how to build organisational capabilities through implementation of the models and standards identified as key to statistical modernisation i.e. [GSBPM](#), [GAMSO](#), [GSIM](#) and [CSPA](#).

	Silo	Integrated	Componentised	Services	Composite	Virtualised	Dynamically Re-configurable
Business Activity View i.e. Collections	Isolated Collection Driven	Collection Business Process Defined	Componentised Business Activities	Business provides & consumes activities	Assemble to Order (design-time)	Provider-Independent Assemble to Order	Plug n Play (run-time) BPM & BAA
Business Capability View	Isolated Business Line Driven	Collection Business Functions Defined	Componentised Business Functions	Business provides & consumes services	Formal, Standardised Business Services	Provider-Independent Business Services	Business Capabilities via Run-time Configurable Services
Statistical Methodology	Isolated Business Line Driven	Collection Methods Defined	Common Methods	Service Oriented methods	Standardised, Configurable Methods	Standardised, Configurable Methods	Run-time Configurable Methods
Information	Application Specific Data Solution	Collection Specific - Data Subject Areas Established	Canonical Models	Information as a Service	Enterprise Business Data Dictionary & Repository	Virtualised Data Services	Semantic Information Representation
Application	Monolithic Solutions	Layered Solutions	Component Solutions	Emerging SOA	SOA	Cross Organisational SOA	Dynamically Re-configurable (Plug n Play) Solutions
Infrastructure & Management	Solution Specific	Enterprise Standards	Common Reusable Infrastructure	Project based SOA Environment	Common SOA Environment	Virtual SOA Environment: Sense & Respond	Real-time Event-based Sense & Respond
Governance & Organisation	Adhoc Strategy & Governance	Defined Governance processes	Common Governance Framework	Emerging business service governance	Business Service and IT Governance Aligned	Service and IT Governance Aligned	Governance via Embedded Policy
Design Practices	Isolated or Reusable Design	Centralised, non-standard Design	Common Design Objects	Service Oriented Modelling	Business Process and Capability Modelling	Business Process & Capability Modelling for Infrastructure	Run-time Business Process & Capability Modelling

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What did HLG MOS ever do for us?

Apart from

- Giving us GSPBM, GSIM, GAMSO & CSPA which provide the road-map for modernising organisations – a starting point
- Big data sandbox, Generic skills profile for data scientists, Data integration guidelines, Generic data editing models, Guidelines for Managers
- A new flexible approach to international collaboration that provides tangible outputs
- A forum that gives innovation and blue skies thinking a framework within which to flourish
- Etc.



Nothing!!!

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High-level Seminar on the Process-oriented Approach to Statistical Production

- Held in Seoul, 19 – 21 April 2017
- Attended by 27 chief statisticians and senior managers of national statistical organisations and international organisations
- The objective of the seminar was to discuss how best to organize a statistical office to ensure efficiency of processes as well as quality of outputs

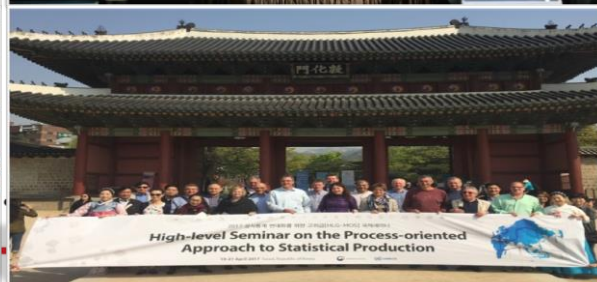


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PHOTO

HLG Seminar



Conclusions from the Seminar

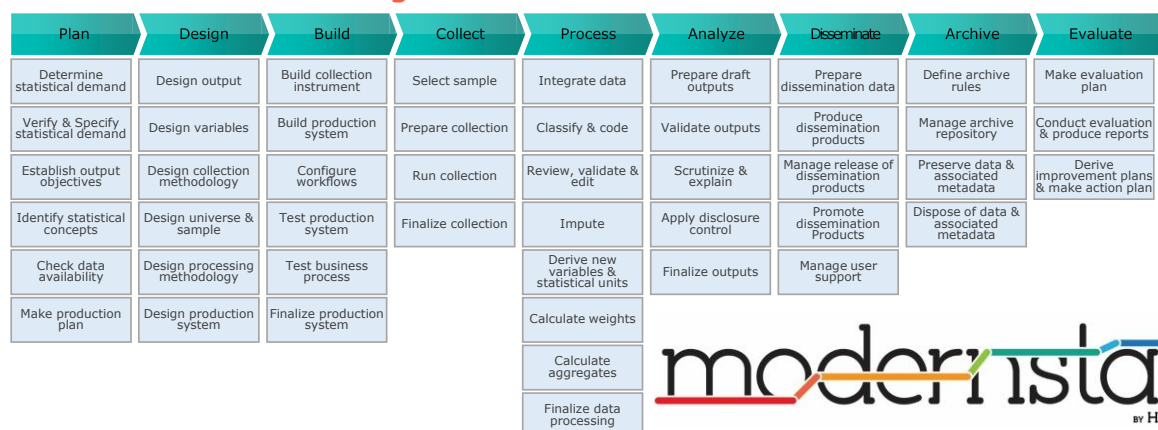
- We need to capitalise on opportunities presented
- There is a clear need for capacity building in non traditional skills
- The importance of creating modern working environment and a culture of continuous development
- Portfolio, programme and project management should support innovation not stifle it. How do you change the culture?
- Innovation for what? We need to be clear on the drivers for innovation and how we deploy the outputs
- Innovation Portals are a great way to release statistics that are innovative
- We are not just providing data, we are providing insight and services



Korea Case – ① KSBPM Introduction

- Establish trust and improve quality standards for national statistical production and management
 - Business process model from planning to evaluation redefined to fit the Korean statistical environment, with underlying basis in GSBPM.

" 9 Mega Processes 47 Sub Process"



Korea Case – ②NARA Pro(cont'd)

PC-based statistics data collection and processing system

- GUI (Graphic User Interface) configuration
 - made up of pictures and letters, and has good user accessibility and convenience
- Support essential functions for statistical survey such as questionnaire design, data collection, internal inspection, analysis and researcher management



Next Steps



"Telling stories with SDG data" Hackathon

A 3 day virtual hackathon will be held 5 - 7 September 2017.

Problem statement: *"Create a user-oriented product that puts youth data in context"*

Teams will be given SDG data related to the theme and challenged to create a product using it.



Chief Statistician Sprint

- Modernisation is not a destination, it is an ongoing process within a statistical organisation.
- 1 day event before the HLG-MOS Workshop (21 November), targeted at Chief Statisticians and senior managers
- A few thought provoking presentations combined with small group discussions on how statistical offices continue to evolve.
- A chance to discuss and share ideas with colleagues



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Feedback requested

- The Conference is invited to:
 - a) Discuss outcomes of recent HLG MOS work
 - b) Advise on future priorities
 - c) Endorse the modernstats frameworks (GSBPM, GAMSO, GSIM and CSPA)

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