Modernization Maturity Model
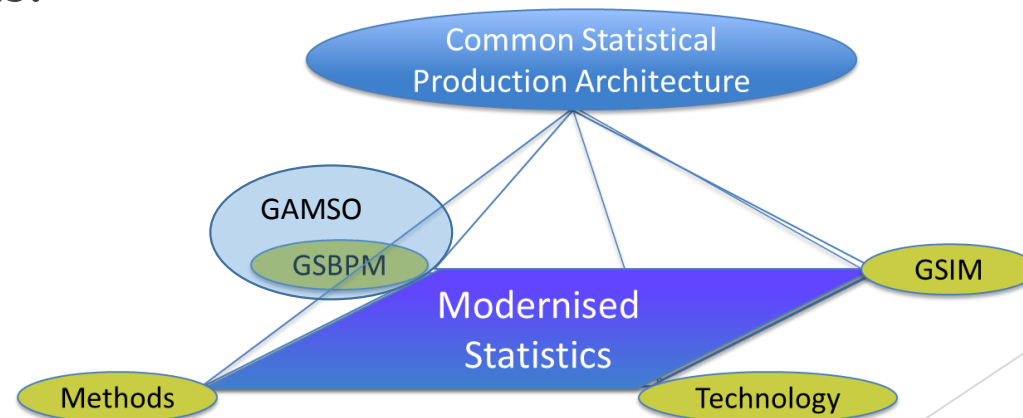
Joint work of Modernisation Committee on Standards and

Modernisation Committee on Organizational Frameworks and Evaluation

Introduction

▶ **Implementing Modernstats Standards** is the topic of a project under the High-Level Group for the Modernisation of Official Statistics (HLG-MOS).

▶ Workpackage 3 Modernisation Roadmap includes participants from two of the subordinate Modernisation Committees (Standards, and Organizational Frameworks and Evaluation):

   ▶ Statistics Canada, Statistics Estonia, Statistics Finland, French National Institute of Statistics and Economic Studies, Hellenic Statistical Authority, Central Statistics Office Ireland, Central Bureau of Statistics Israel, Italian National Institute of Statistics, National Institute of Statistics and Geography of Mexico, Statistics Norway, Office for National Statistics UK.

▶ Part of the scope is to :

   ▶ Provide the means for statistical organizations to evaluate their levels of maturity against a standard framework with the aid of a Modernisation Maturity Model (MMM).

   ▶ Help them determine the priorities for the next steps based on a roadmap.

▶ The workpackage began in January 2016 and will end in December 2016. [2]

Workpackage 3 deliverables

▶ Create a draft modernisation maturity model (MMM).

▶ A trial of the draft MMM amongst the participants in the project.

▶ Updated version that can be used by all statistical organisations.

▶ A roadmap, indicating paths and milestones, to guide organisations on how to implement the standards (GSBPM / GSIM / GAMSO / CSPA) in the context of the modernisation maturity model.

   ▶ The roadmap should also indicate types of support that NSOs, at different maturity levels, would need in order to implement the different standards.

Definition of success

▶ The MMM is developed and promoted by the international statistical community.

▶ The MMM is used as one of the best practices required for the modernization process to achieve efficient production of high quality official statistics, oriented to satisfy the needs of its users.

▶ Statistical organisations are able to use the roadmap to help them to move to a higher maturity level.

▶ Statistical organisations are supported in implementing the standards in a coherent and comprehensive framework/approach.

Modernisation Maturity Model (MMM)

▶ There are multiple aspects of maturity in the context of modernisation

Levels Dimensions	Initial implementation	Pre-implementation	Early implementation	Corporate implementation	Mature implementation
Business					
Methods					
Information					
Applications					
Technology					

There are a number of distinct *dimensions*

Within each dimension, different organisations may have different *levels* of maturity

▶ A set of self-assessment criteria has been formulated that is specific to each *dimension* x *level* combination, as well as being specific to each of the standards

Modernisation Maturity Model - Maturity Levels

Level Name	Level Description
Initial implementation	✓ A few individuals are becoming interested in the potential value of the standard. ✓ The organisation as a whole is unaware of the standard.
Pre-implementation	✓ Use of the standard is basic and limited to a few individuals. ✓ Parts of the organisation are becoming interested in the potential value of the standard.
Early implementation	✓ Use of the standard is spreading, but it is used in an inconsistent manner by individuals and single business units. ✓ A corporate-wide programme/strategy for use of the standard is being prepared.

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Modernisation Maturity Model - Maturity Levels (cont'd)

Level Name	Level Description
Corporate implementation	✓ A corporate-wide programme/strategy for use of the standard exists. ✓ There is a widespread awareness of the standard and it is used in a consistent way across the organisation.
Mature implementation	✓ The standard is perceived as an important part of business operations/management, delivering value across the organisation. ✓ The standard is well understood, integrated into business processes & practices and used in a consistent manner across the organisation.

Modernisation Maturity Model - Dimensions

Name	Description
Business	✓ This dimension focuses on the business activity domain i.e. the organisation's core business practices and policies.
Methods	✓ This dimension focuses on the management of methods i.e. how methods are designed, structured, implemented and executed. ✓ It includes statistical methodology, quality, IT methods, process methods e.g. data collection methods and any other methods needed to support the business.

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Modernisation Maturity Model – Dimensions (cont'd)

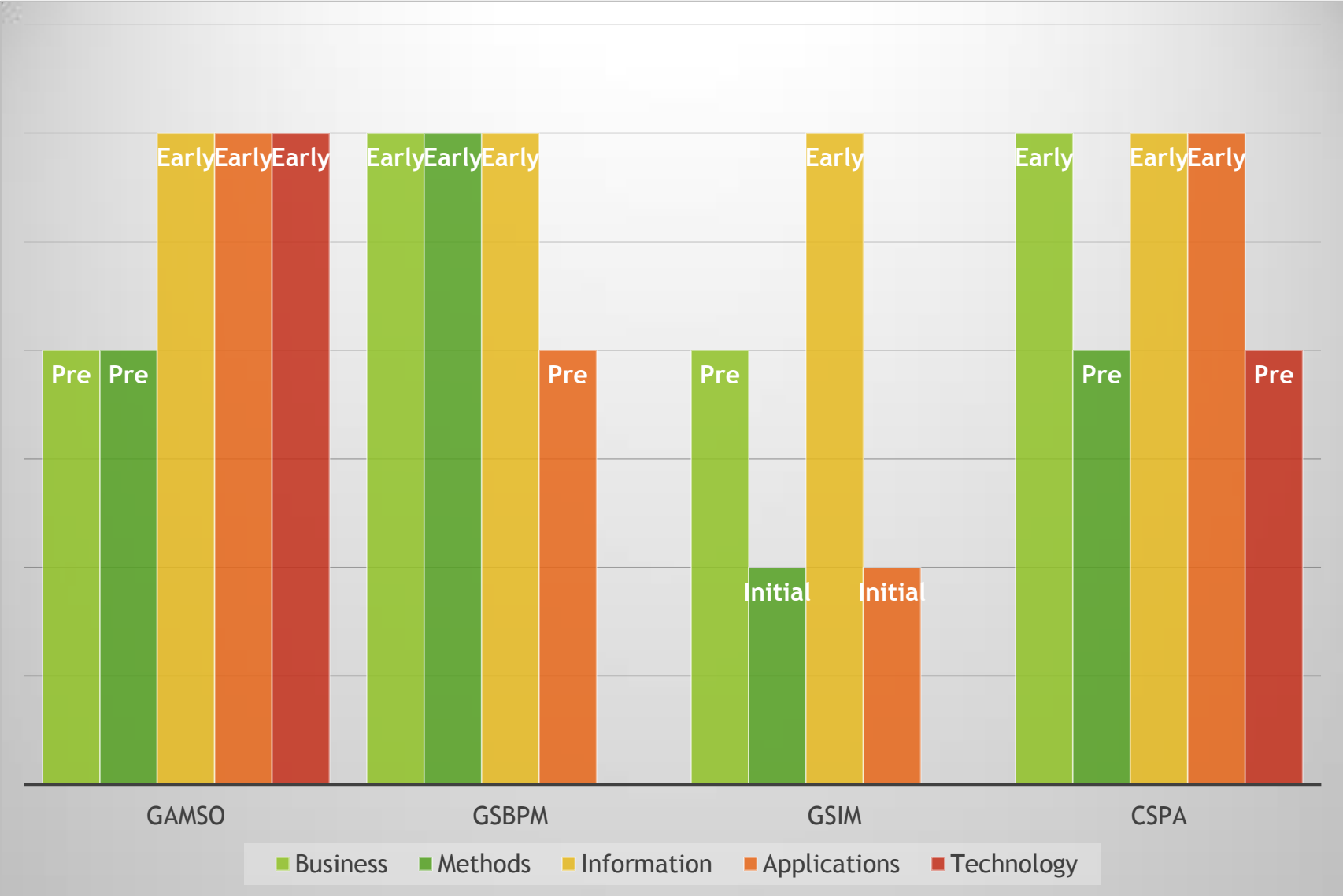| Name	Description
Information	✓ This dimension focuses on how information is structured and integrated, how information is modelled, the method of access to data, abstraction of the data access from the functional aspects, data characteristics, data transformation capabilities, service and process definitions, handling of identifiers and the information model.
Applications	✓ This dimension focuses on the structure and interaction of applications to provide business functionality using the information/data assets needed to deliver this functionality.
Technology	✓ This dimension focuses on the logical software and hardware capabilities that are required to support the deployment of business, information, and application services. This includes IT infrastructure, middleware, networks, etc.

Progress to date – testing process

Testers were asked to evaluate:

- ▶ Are the level and dimension descriptions **sufficiently distinct** and **easy to understand**?

- ▶ Are there any self-assessment criteria that were **particularly difficult to understand**?

- ▶ Are the Levels **sufficiently distinct** per Dimension?

- ▶ Any general feedback/suggestions to help us make the completion of this maturity assessment easier?

Progress to date – preliminary testing results

- ▶ Most said descriptions are easy to understand, levels are sufficiently distinct

- ▶ Constructive feedback on fine tuning of wording in each of the GAMSO, GSIM, GSBPM and CSPA

- ▶ Feedback incorporated, and MMM version 0.8 generated

(Most frequent) Current maturity levels based upon testers self-assessments

Next step:
Group work session led by Jenny Linnerud

Thank you for your input!

Ideas

Feedback

Better product!