High-Level Group for the Modernisation of Official Statistics

HLG-MOS

ModernStats World Workshop

26-28 June 2019, Geneva, Switzerland

Official Statistics

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NSOs are facing many challenges

➡ Change how we work

Continuously changing environment

➡ Become agile and adaptive

We have to be more efficient

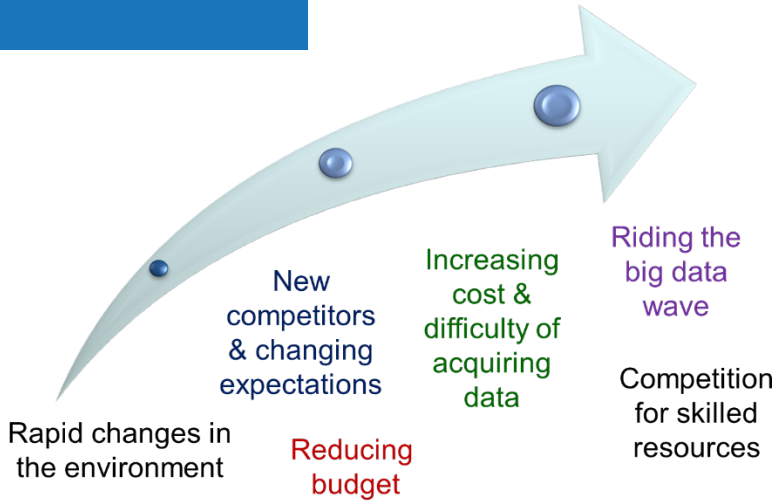
➡ **Share and Standardize**

Challenges too big to tackle on their own

➡ **Collaborate and Coordinate**

Official Statistics needs leadership

➡ Vision, Mission and Strategy



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HLG-MOS

Before the HLG-MOS	Now
Many expert groups	Clear vision
Little coordination	Agreed priorities
No overall strategy	Strategic leadership
Limited impact	Real progress

High-Level Group for the Modernisation of Official Statistics setup in 2010 under the Conference of European Statisticians (CES)

Statistical Modernisation Community – Statement of Intent (2015)

Since 2016 the community is branded as:

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Mission

Work collaboratively to identify trends, threats, and opportunities & provide common platform to develop solutions in a flexible and agile way.

Vision

Actively engage

Be a trusted data authority

Adopt a service oriented approach

Have an agile adaptive culture

Values

Developing innovative solutions

Demonstrating leadership and collaboration

Discussing challenges and opportunities openly

Ensuring that priorities are community driven

Supporting a flexible, result oriented and agile approach

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Priority & Emerging Topics

- **Active engagement**
  - Communicating our value
  - Role in the data ecosystem
- Trusted Data Authority
  - National Data Strategy
  - Data for better decision making
  - Data protection
  - Data access and ethics
- Agile and adaptive culture
  - Setting the vision
  - Culture evolution

Collaboration of the Willing

- Activities are voluntary and demand driven
- Actively steered by group of committed Chief Statisticians
- Four main principles:
  - Openness
  - Flexibility
  - Participation
  - Pragmatism

- Everybody can join and participation at all levels
- But: Strategic Vision and oversight by HLG-MOS the Executive Board

Collaborative Platform

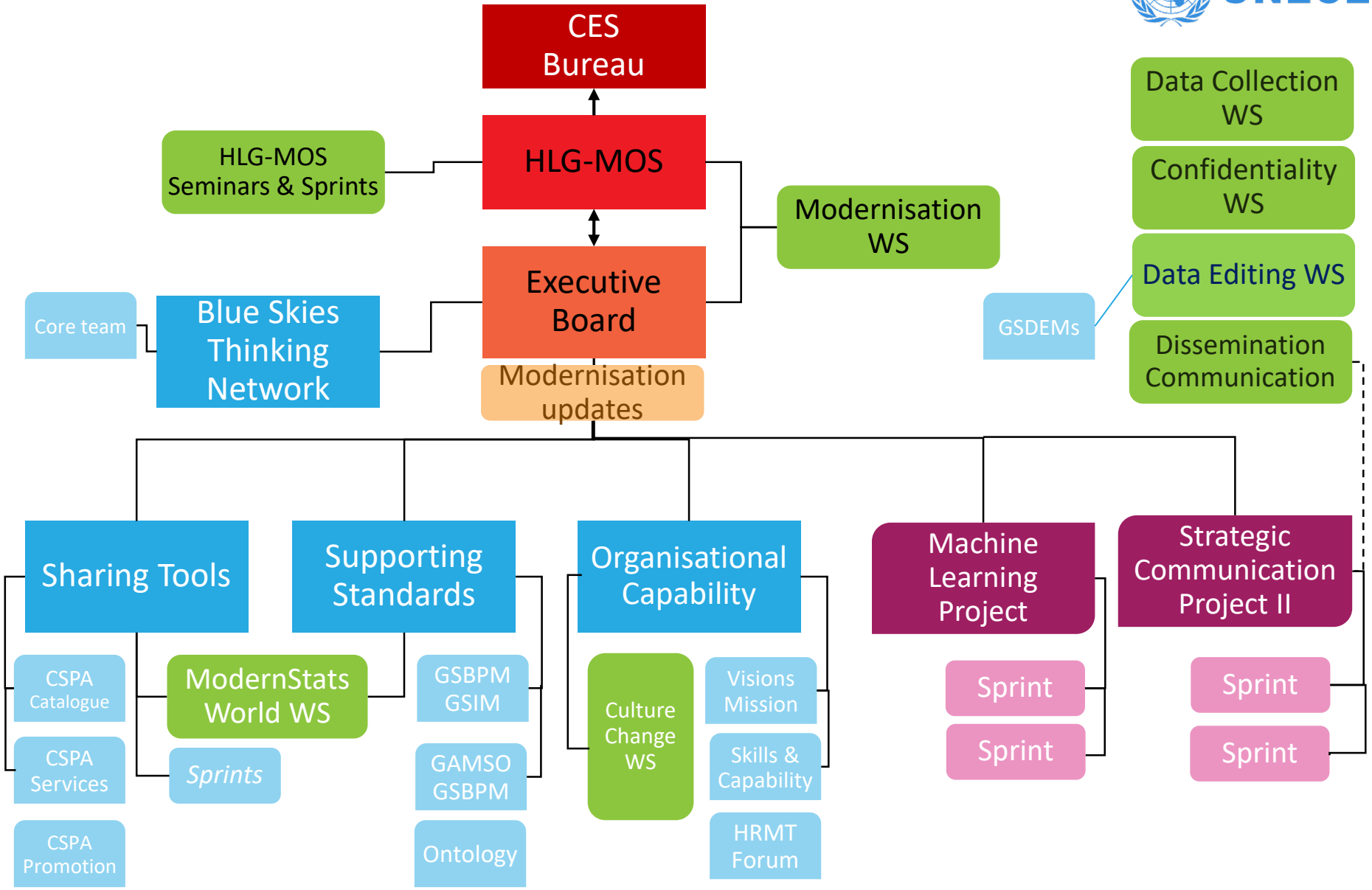
- Two modernisation projects per year
- Four expert groups (with 10-20 Task Teams)
- Several Modernisation Workshops
- Four thematic workshops
- HLG-MOS Wikis
- Catalogues: Sharing Investments Capability, and Statistical Services
- Many Sprint Workshops, face-to-face, virtual meetings

Community Involvement 2018

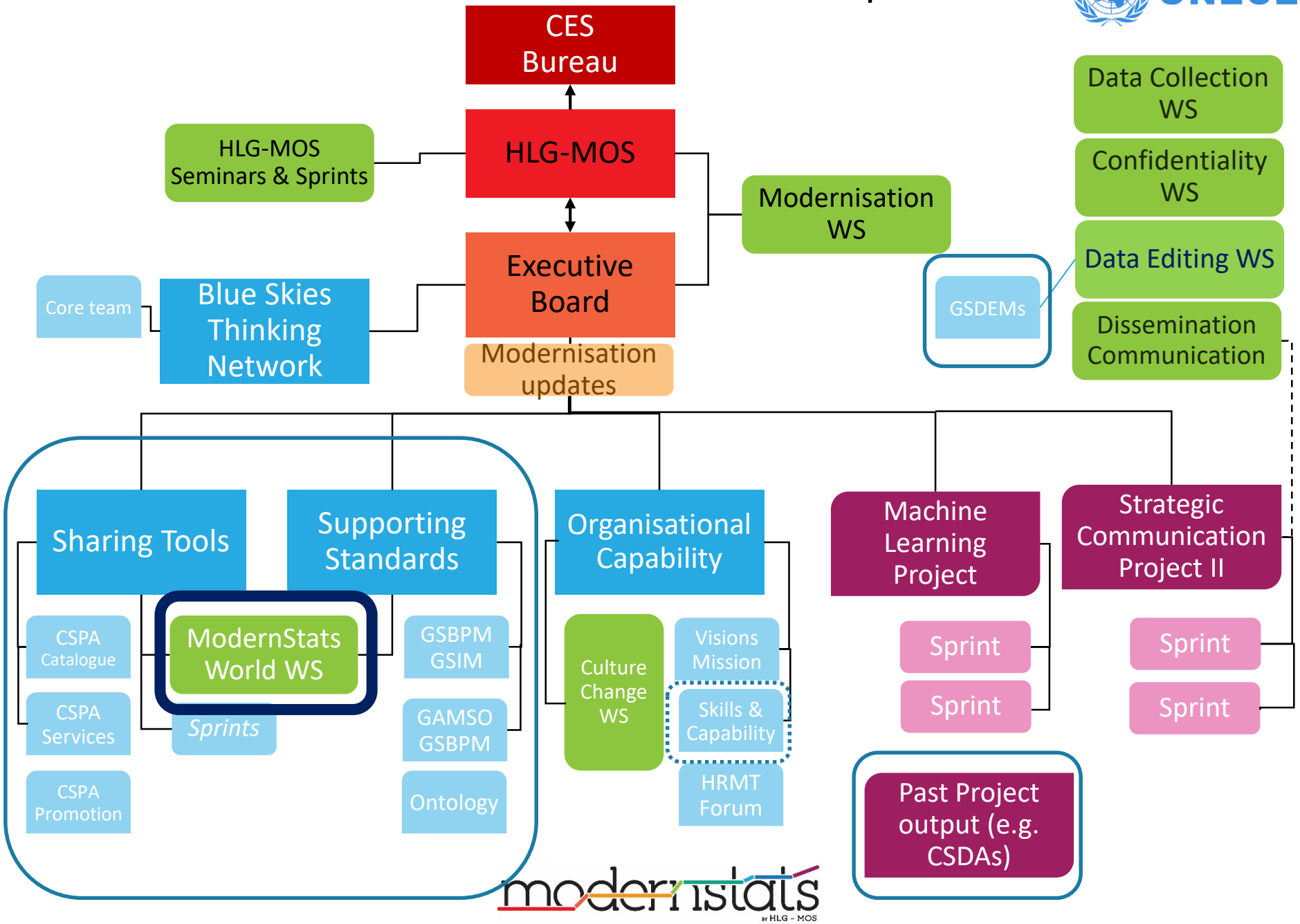
- Projects: 56 members from 19 countries and 2 International Organisations (IOs)
- Groups: 82 members from 19 countries and 5 IOs
- Steering Committees: 53 members from 19 countries and 4 IOs
- Workshops: 328 participants from 63 countries and 12 Ios

- In summary:
  - Participants: 500+
  - Members: 100+
  - Organisations: 75+

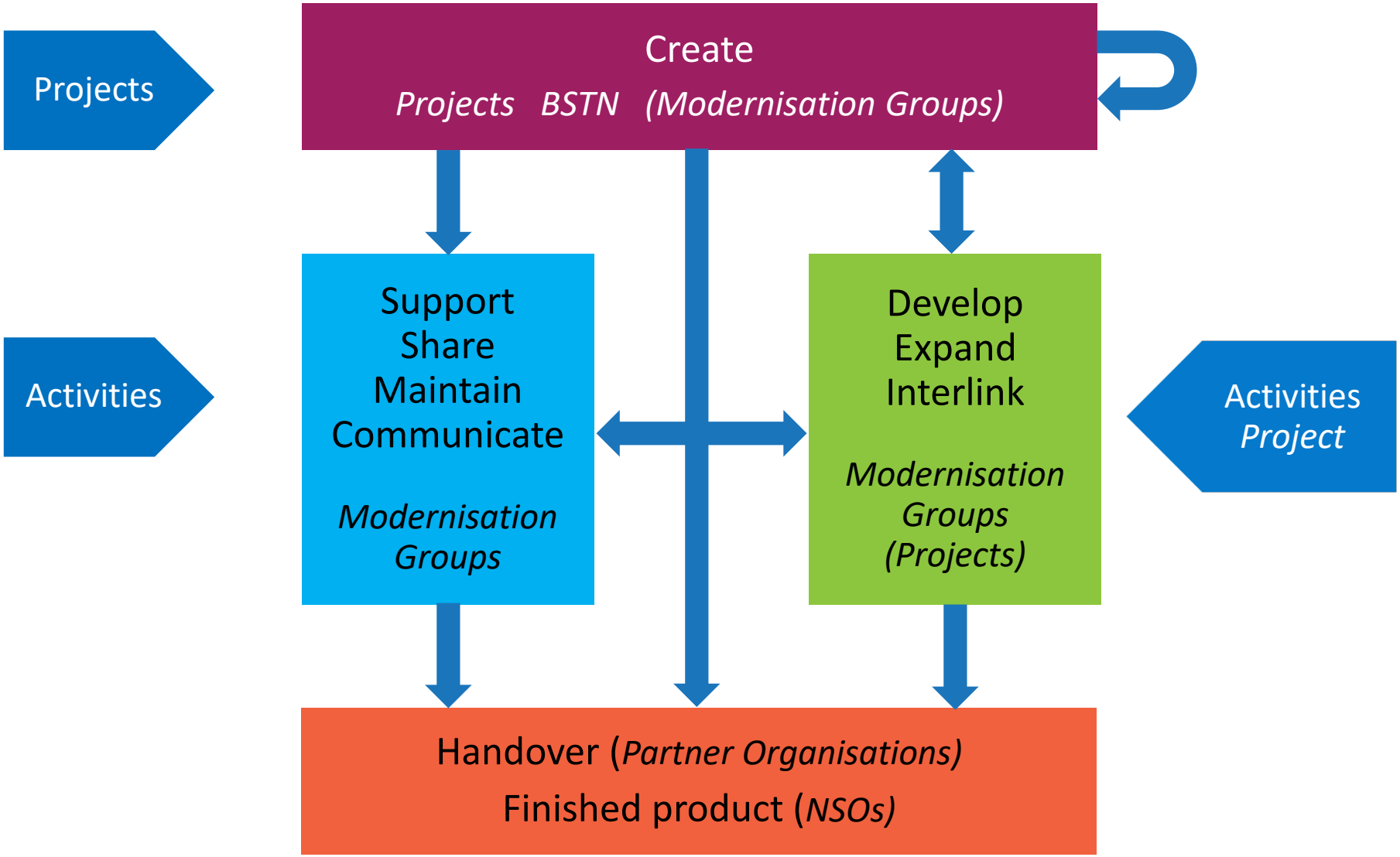
ModernStats World 2019



ModernStats World Workshop 2019



ModernStats Pillars

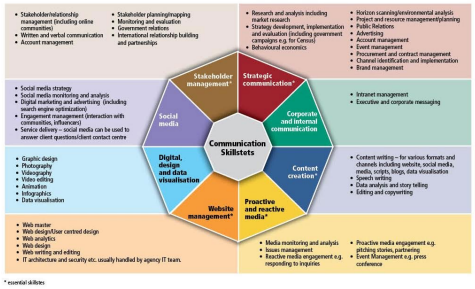


HLG-MOS Annual Projects

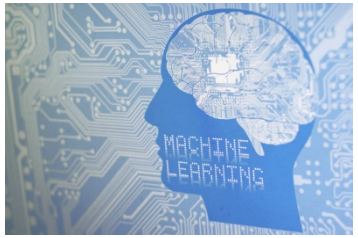
Strategic Communication Framework II

Organizational Vision and Strategic Staff Engagement, Stakeholder Engagement management Strategies, Engagement in Government-wide data strategies

Pt I: Communication issue management; maturity model; Skillsets & Branding



Machine Learning for Official Statistics



Pilot studies:

I) Classification & Coding

II) Edit and Imputation

III) Imagery

Quality issues: i) traditional processes and data ii) exploit non-traditional data

Lessons Learned

2012-2018: GSIM, CSPA I&II, Big Data I&II, Linked Metadata, Data Integration I&II, Data Architecture I&II, Strategic Communication Framework I

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Current Groups

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Developing Organisational Capability

Organisational aspects of collaboration and modernization how best to bring about the organisational changes necessary to support modernisation in statistical organisations

- Skills and Capability framework
- Forum for sharing
- *Setting Vision in NSOs*
- Workshops 2019 (11-13 September, Geneva): Culture Evolution

Continues the work of the Modernization Group on Capabilities and Communication

Human resources and more…

Publications

Compilation of good practices on HRMT in Statistical Offices - English (2013)

Guidelines for Managers - English (2015)

Guidelines for Managers - Russian (2016)

Guidelines on Risk Management Practices in Statistical Organisations - English (2016)

Guidelines on Risk Management Practices in Statistical Organisations - Russian (2017)

Workshops

- Workshop on Culture Evolution (2019)
- Workshop on Human Resources Management and Training, Building Resilience in Statistical Organisations (2018)
- Workshop on Human Resources Management and Training: Developing Capabilities for the Future (2016)
  - Earlier workshops on HRMT
- Workshop on Implementing Efficiencies and Quality of Output (2017)
- Workshop on Risk Management Practices in Statistical Organisations (2016)

Risk Management

All Risk Management documents could also be accessed from the Risk Management public page

For **leadership teams** it developed:

- A short paper outlining how organisations can approach the consideration of **risk appetite** as a framework for decision making.
- A video presentation which seeks to **make the case for risk management** in statistical organisations.

For **risk management practitioners** it developed:

- Material which can be used to deliver **training modules** in the various stages of risk management, in support of the UNECE Guidelines in Risk Management for Statistical Organisations.
  - Module 1: Concept of Risk
  - Module 2: The Risk Management Process
  - Module 3 Risk Appetite
  - Module 4: Identification and Treatment
- An overview of the **common risks faced by statistical organisations** from across the world, with example mitigating actions, to be used as a basis for risk identification and control.

Other outputs

Developing Organisational Resilience:

Paper on Visions, Missions and Target Operating Models

Green paper: Developing Organisational Resilience in Statistical Organisations

Statistical Training:

- Statistical and End User IT Training Framework - based on GSBPM Model (2017)
- Statistical Training Framework aligned to the GSBPM - paper (2018)

Organisational barriers to international collaboration (2016):

- Paper on organisational barriers to international cooperation

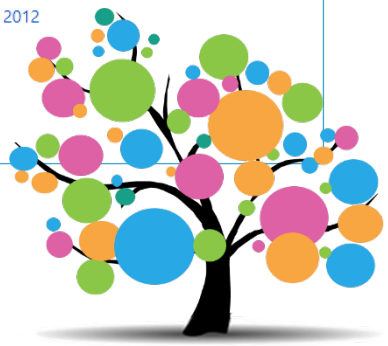
Competencies profiles (2015):

- Big Data Team
- Big Data Team Leader

Earlier outputs:

- Surveys before HRMT workshop 2010 and HRMT workshop in 2012
- Exit Interview forms
- Staff satisfaction survey questionnaires
- Conceptual approach to HR development - Destatis
- Results of the staff turnover survey 2010
- Training system in Statistics Lithuania

https://statswiki.unece.org/x/UgAMDQ



Agenda Culture Evolution WS

- **Mission and vision in shifting the organisational culture in NSOs**
- **Measuring culture**
- **Drivers of organisational culture**
- **Implementing culture change**
  - Importance of communicating culture change
- **Monitoring and evaluation**

Supporting Standards

Develop, enhance, integrate, promote, support and facilitate implementation of the range of standards needed for statistical modernization

- Linking GSBPM and GSIM
- Core Ontology for Official Statistics
- Alignment of overarching processes in GSBPM and GAMSO
- Metadata Glossary

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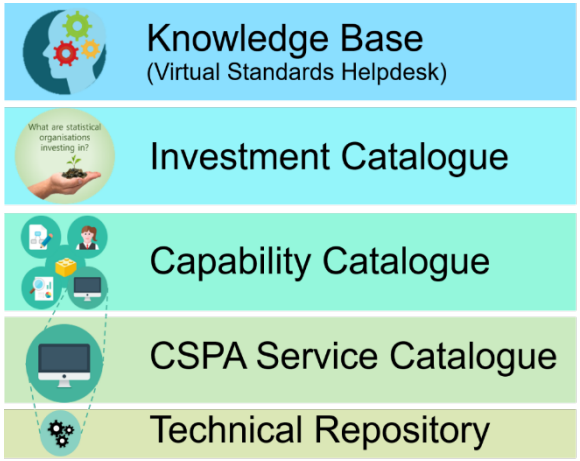
Sharing Tools

Activities related to the implementation of the Common Statistical Production Architecture (CSPA)

- Digitising/Editing CSPA document
- CSPA Service Catalogue
- Communicating the Restated CSPA Concept
- ➔Add Requirements-Features concept



Blue Sky Thinking Network

The ‘ideas factory’ for statistical modernization community. Core Team to Provide an environment scan on selected topics (what, value, state-of-the-art, collaboration opportunities).

- Machine Learning
- HLG Hackathon ‘Telling Stories with SDG data’

Blue Skies Thinking Network

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Key Questions

- What is the proposal covering?
- What does it mean for official statistics?
- What has already been done?
- What future work is needed?

Next:

- No business case
- Put on hold
- Proposal for future work (project, activity existing group)

Examples of topics considered:

- Secure multi-party computation
- Synthetic data sets
- Data science lab
- Overall technology strategy
- Metadata driven production system
- Integral IT platforms
- Chatbots
- 2018 Project Proposals

Submit your ideas!

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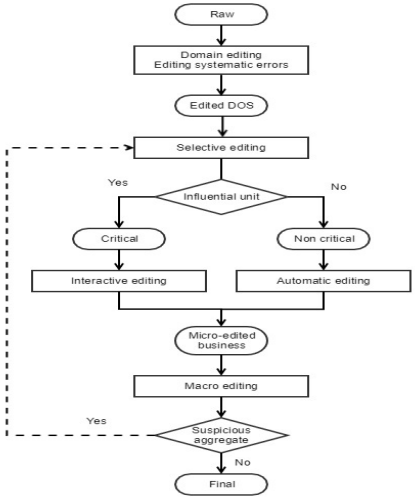
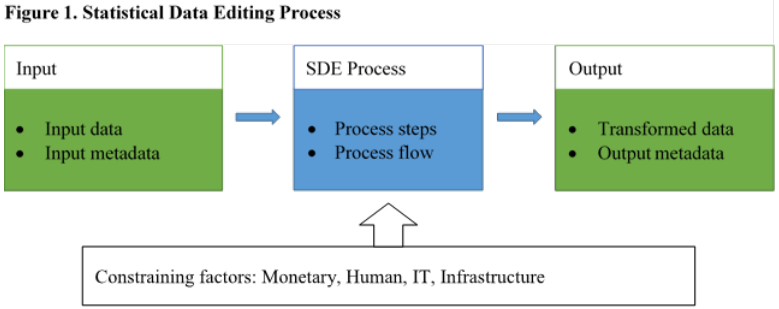
GSDEMs

- Generic Statistical Data Editing Model
- Common reference framework for the staff working in statistical data editing
- Designed to be consistent with GSBPM and GSIM
- Revision Task Team (SC Data Editing Workshop)
- Version 2.0 released in June 2019





HLG-MOS Outputs

- Standards and Models
- Guidelines and Best Practices
- Catalogues and Repositories
- Collaboration and Joint Products
- Identifying Challenges and Way Forward

- All Available from the UNECE HLG-MOS wikis

Four thematic workshops

- Workshop on Statistical Data Editing *2020* (*18-20 September 2018, Neuchâtel, Switzerland*)
- Communication and Dissemination of Statistics 12-14 June 2019, Gdańsk, Poland
- Work Session on Statistical Confidentiality *29-31 October* 2019, the Hague, The Netherlands
- Statistical Data Collection Workshop 9-11 October 2019, Geneva
- *Workshops on Culture Evolution (11-13 September 2019, Geneva)*
- Key Goals: Sharing innovative practices, identifying challenges and topics for future work

HLG-MOS vs CES

- HLG-MOS setup by CES and reports to CES (but large overlap in membership)
- 1) Approval HLG-MOS
  - New model/standard
  - Update
  - Review
  - Revision
- 2) Bureau of the CES
  - Endorsement without consultation
  - Broad CES Consultation
- 3) Endorsement Conference of European Statisticians

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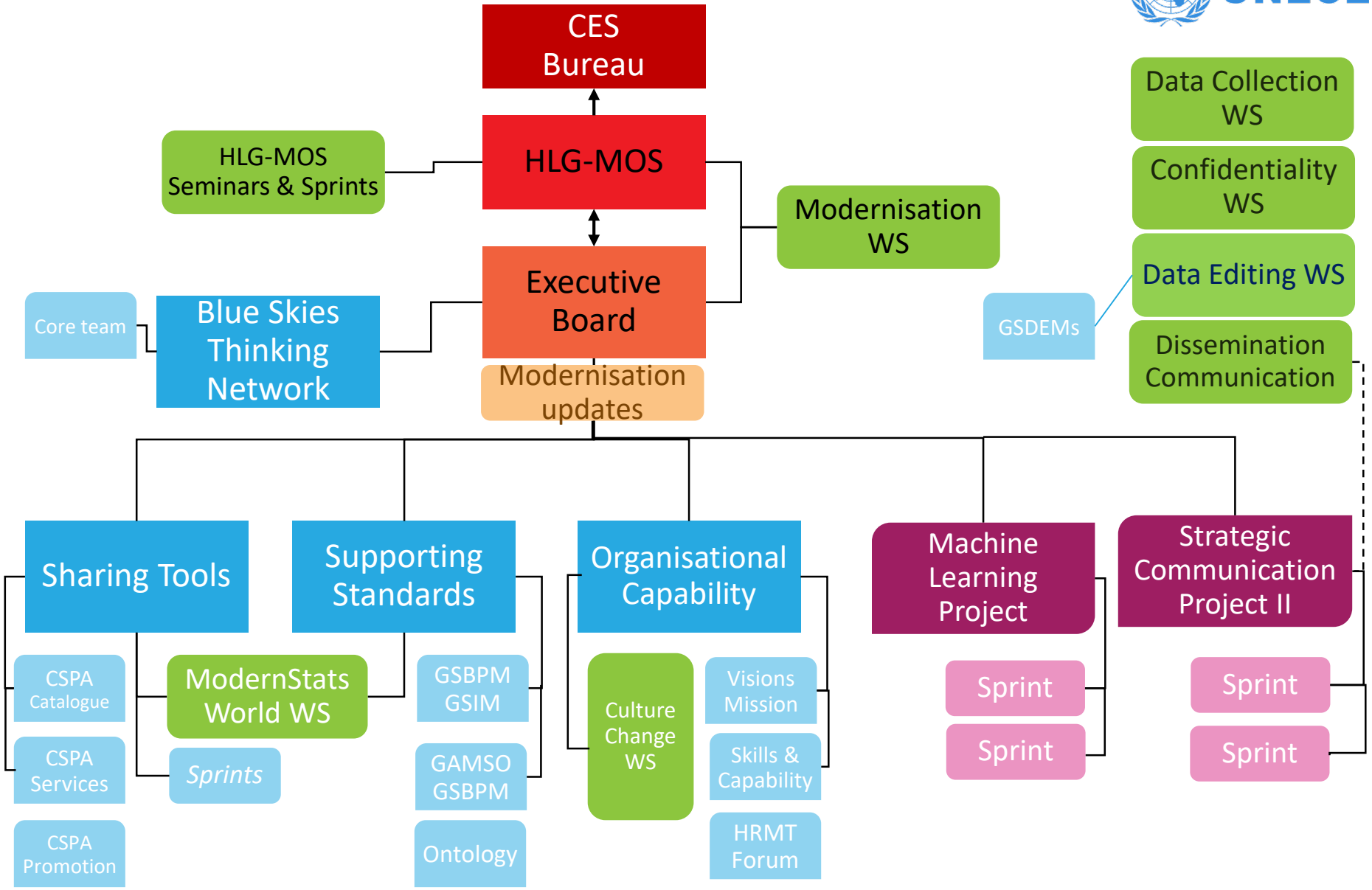


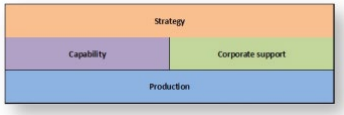
ModernStats Achievements:

- **G**eneric **S**tatistical **B**usiness **P**rocess **M**odel (GSBPM)

- **G**eneric **S**tatistical **I**nformation **M**odel (GSIM)

- **C**ommon **S**tatistical **P**roduction **A**rchitecture (CSPA)

- **G**eneric **A**ctivity **M**odel for **S**tatistical **O**rganizations (GAMSO)

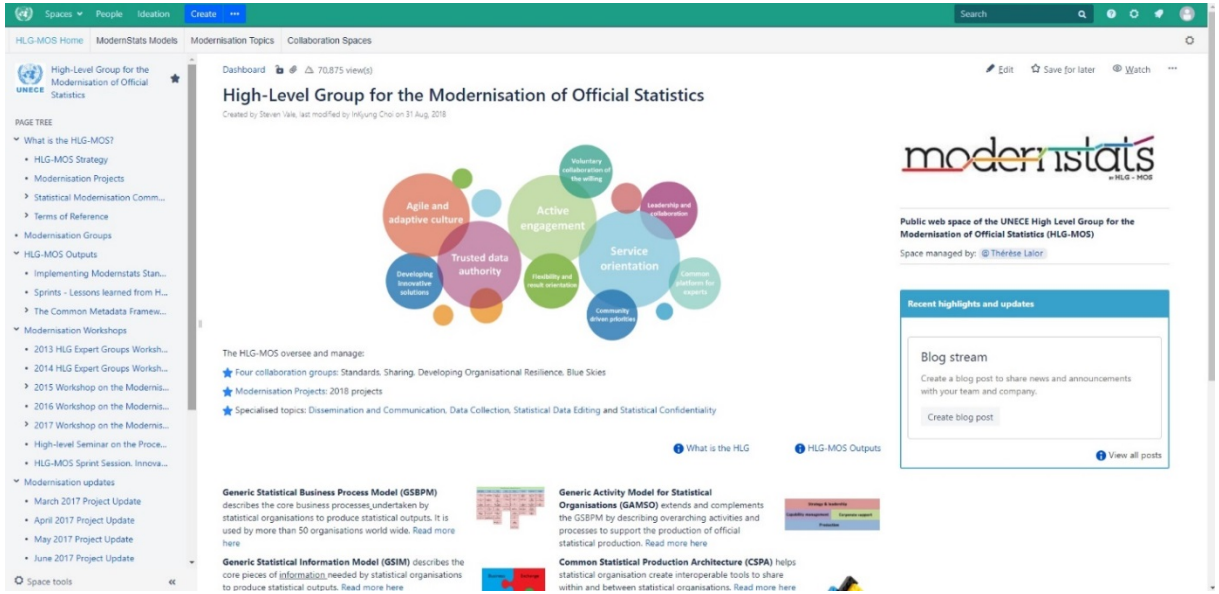


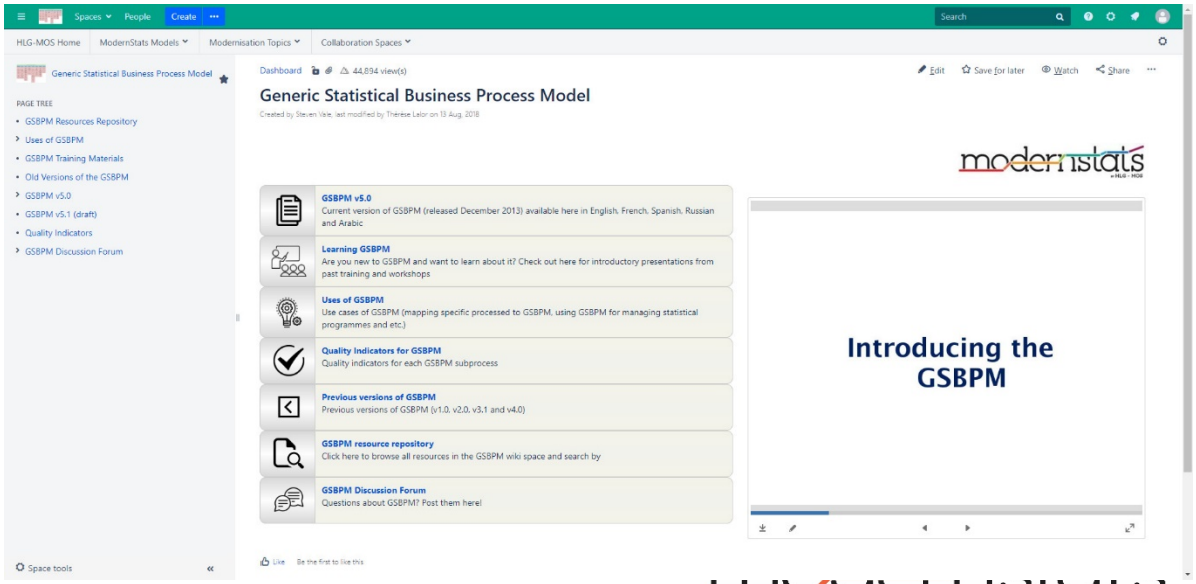
- **G**eneric **S**tatistical **D**ata **E**diting **M**odels (GSDEMs)

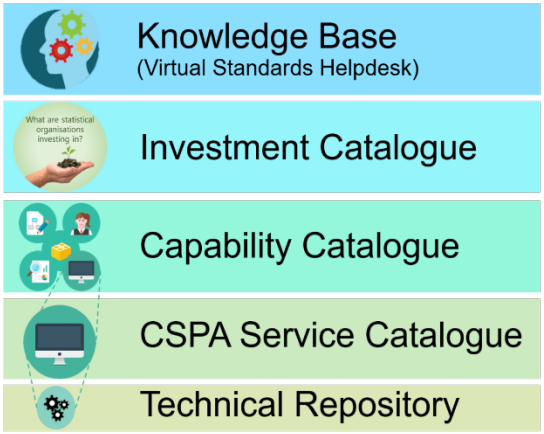
Some of the other output

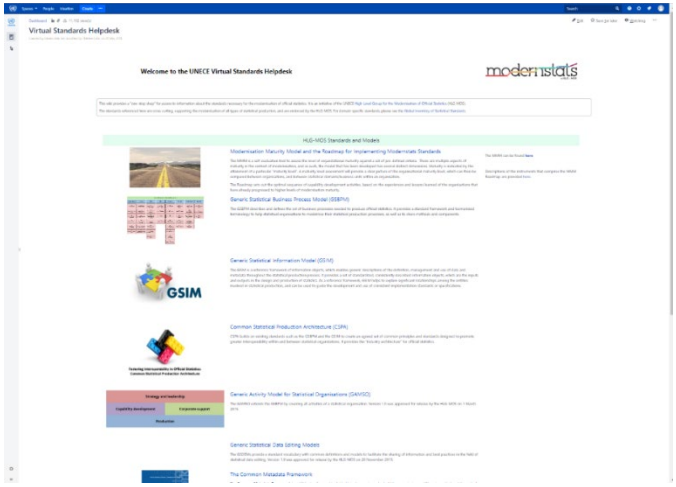
- Common Statistical Data Architecture 1.0 (CSDA)
- Data Integration Guidelines *link*
- Common Metadata Framework *link*
- Linked Open Metadata *link*
- Strategic Communication Framework (*soon*)
- Guidelines on Risk Management *link*
- Guidelines for Managers *link*
- Big Data Quality Framework, Classifications, Inventory *link*
- Investment Catalogue *link*
- CSPA Catalogue *link*

HLG-MOS Wikis









Get Involved!
Join the Force!

Consult
Contribute
Collaborate

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Annex: Links

- HLG-MOS https://statswiki.unece.org/x/xIR8Aw
- Modernisation Groups https://statswiki.unece.org/display/hlgbas/Modernisation+Groups
- HLG Outputs https://statswiki.unece.org/x/7AQpBw
- Modernisation Workshops https://statswiki.unece.org/x/bAhLBg
- Modernisation Updates https://statswiki.unece.org/x/QY0HBg
- Data Editing https://statswiki.unece.org/x/5wCvCg

Modernisation Workshops

- Annual HLG-MOS Workshop in November (19-21 Novermber 2019, Geneva)
- Annual ModernStats World Workshop (April 2019)
- Developing Organizational Capability:
  - Workshop on Culture Evolution (11-13 September, Geneva, Switzerland)
  - Workshop on Human Resources Management and Training (12-14 September 2018, Oslo, Norway)
  - Workshop on Implementing Efficiencies and Quality of Output (27 - 29 September 2017 Geneva, Switzerland)
  - Workshop on Human Resources Management and Training: Developing Capabilities for the Future (7-9 September 2016, Krakow, Poland)
  - Workshop on Risk Management practices in Statistical Organisations (25-26 April 2016, Geneva, Switzerland)
- CSPA:
  - 2017 CSPA Workshop: *CSPA for Digital Transformation* (3-5 July 2017, Wiesbaden, Germany)
  - 2016 CSPA Workshop: *Implementing CSPA* (3 -5 October 2016, Geneva, Switzerland)
- Other
  - Workshop on Data Integration: Realising the Potential of Statistical and Geospatial Data (21-23 May 2019, Belgrade, Serbia)
  - HLG Seminar on the Process Oriented Apprach (19-21 April 2017, Republic of Korea)
  - Workshop on Integrating Geospatial and Statistical Standards (6 - 8 November 2017)
  - HLG-MOS Sprint Session: Strategies to stay relevant 21 November 2017, Geneva, Switzerland

Annex: HLG-MOS members & history

- Australia
- Canada - Chair
- Ireland
- Italy
- Mexico
- Netherlands
- New Zealand
- Republic of Korea
- Slovenia
- United Kingdom
- Eurostat
- OECD
- UNECE

- High-Level Group for the Modernisation of Official Statistics setup in 2010* under the Conference of European Statisticians (CES)
- Statistical Modernisation Community – Statement of Intent (2015)
- Since 2016 the community is branded as: modernstats by HLG - MOS

*originally as HLG for the Modernisation of Statistical Production and Services & HLG Group for strategic Developments in Business Architecture in Statistics (HLG-BAS)

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Annex: Statement of Intent Endorsed

- Australian Bureau of Statistics
- Central Bureau of Statistics (Netherlands)
- Central Statistics Office (Ireland)
- Eurostat
- Hungarian Central Statistical Office
- INEGI (Mexico)
- Istat (Italy)
- OECD Statistics Directorate
- Puerto Rico Institute of Statistics
- Statistical Office of the Republic of Serbia
- Statistical Office of the Republic of Slovenia
- Statistics Canada
- Statistics Korea
- Statistics New Zealand
- Statistics Poland
- Statistics Sweden
- Statistical Office of Montenegro
- UNECE Statistical Division

Annex: HLG-MOS Groups

- Developing Organizational Capabilities: 2019 onward
- Developing Organizational Resilience Group: 2018 onward
- Sharing Tools Group: 2017 onward
- Supporting Standards Group: 2017 onward
- Blue Sky Thinking Network: 2017 onward
- Modernisation Committee Products and Sources: 2014-2016
- MC Organisational Frameworks and Evaluation 2014-2016
- MC Production and Methods 2014-2016
- MC Standards 2014-2016
- CSPA Implementation Group 2015

Annex: HLG-MOS Projects

- 2019: Strategic Communication Framework II & Machine Learning
- 2018: Strategic Communication Framework I & Data Architecture Project II
- 2017: Data Integration Project II & Data Architecture Project I
- 2016: Implementing ModernStats Standards & Data Integration Project I
- 2015: Big Data II & Common Statistical Production Architecture II
- 2014: Big Data I & Common Statistical Production Architecture I
- 2013: Frameworks and Standards for Statistical Modernization
- 2012: GSIM