



# **HLG-MOS Online Modernisation Workshop 2020**

10<sup>th</sup> Annual Workshop of the High-Level Group for the  
Modernisation of Official Statistics  
*18-19 November 2020*

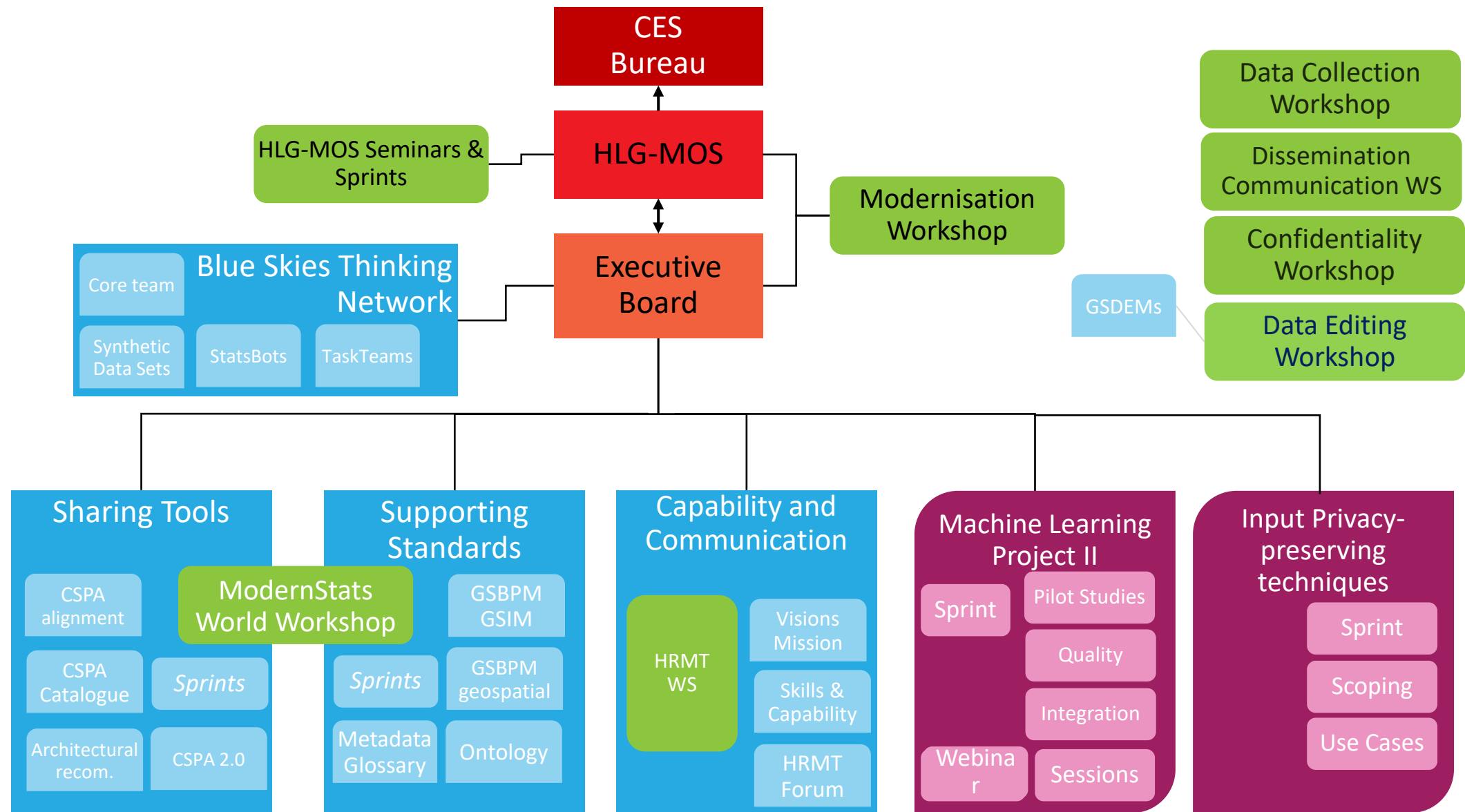


# HLG-MOS Video

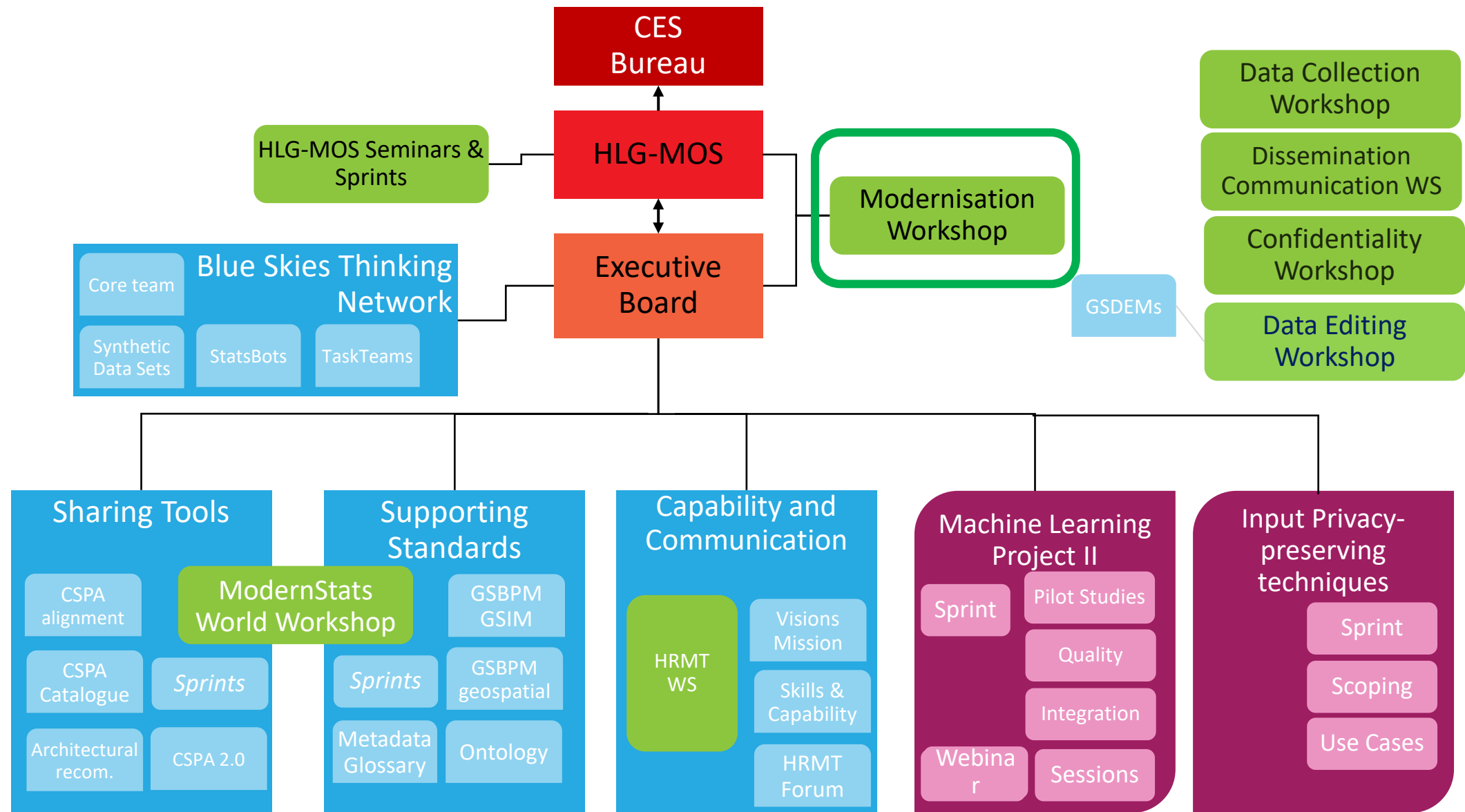


- <https://vimeo.com/393916225/4f139e62af>

# ModernStats World 2020



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# Why are we here today?

Share and showcase our work  
Celebrate our accomplishment  
Get feedback on results  
Impact of COVID pandemic



Identify and Prioritize future work  
Drive new developments  
Set our 2021 work programme

 modernstats  
by HLG - MOS  
2020

Involve the community  
Induce collaboration and participation  
Engage in an open discussion

 modernstats  
by HLG - MOS  
2021

# ModernStats 2020

# Then COVID-19 came...



- In person workshops and sprints cancelled
- Offices closed and staff occupied with managing the crisis
- Additionally: empty posts in Unit serving the HLG-MOS



- But: large part of the work continued as planned and several activities focused on COVID-19 responses



- And it creates opportunities as well for:
  - Showing the value of our work
  - New experiences, especially innovations

# Network & Projects 2020 planned

## Blue Skies Thinking Network

- Synthetic Data Sets
- Data Science Lab
- Data-driven decision-making support
- Statsbots
- Identifying and evaluation new topics
- Evaluation submitted proposals

## Machine Learning Project

- 19 Pilot Studies on value added of ML
- Lessons Learned and recommendations in:
  - Coding & Classification
  - Edit and Imputation
  - Imagery
- Quality Framework
- Integration of ML
- ML code & practice data
- Learning & training material

## Input Privacy-Preservation Project

- Statistical use-cases
- Secure Multiparty Computation
- Homomorphic Encryption
- Identify implementation of methods and sharing solutions

# Network & Projects 2020 Actual

## Blue Skies Thinking Network

- Synthetic Data Sets
- Data Science Lab
- Data-driven decision-making support
- Statsbots
- Identifying and evaluation new topics: pitch talks
- Evaluation submitted proposals

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## Input Privacy-Preservation Project

- Statistical use-cases
  - Secure Multiparty Computation
  - Homomorphic Encryption
  - Identify implementation of methods and sharing
- Started 1 August with scoping group**

# Modernisation Groups 2020 planned

## Sharing Tools

- Finalizing CSPA 2.0 & Create interactive CSPA suite of documentation
- Review Architectural Recommendations
- Streamlining CSPA and integration new concepts
- Adjust CSPA Catalogue & add services
- **ModernStats World Workshop 2020**



## Capabilities and Communication

- Competencies Training and Development
- Future Workplace
- Ethical Leadership Framework
- Culture Change and Internal Comms Strategy
- Skills and Capability Framework
- Social Media Strategy
- Staff Comms Training
- *HRMT workshop & sprint*



## Supporting Standards

- Linking GSBPM & GSIM
- Core Ontology for Official Statistics
- Metadata Glossary
- Updating GSIM
- GSBPM for Geospatial Information
- **ModernStats World Workshop 2020**



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# Workshops and Sprints 2020

## Planned

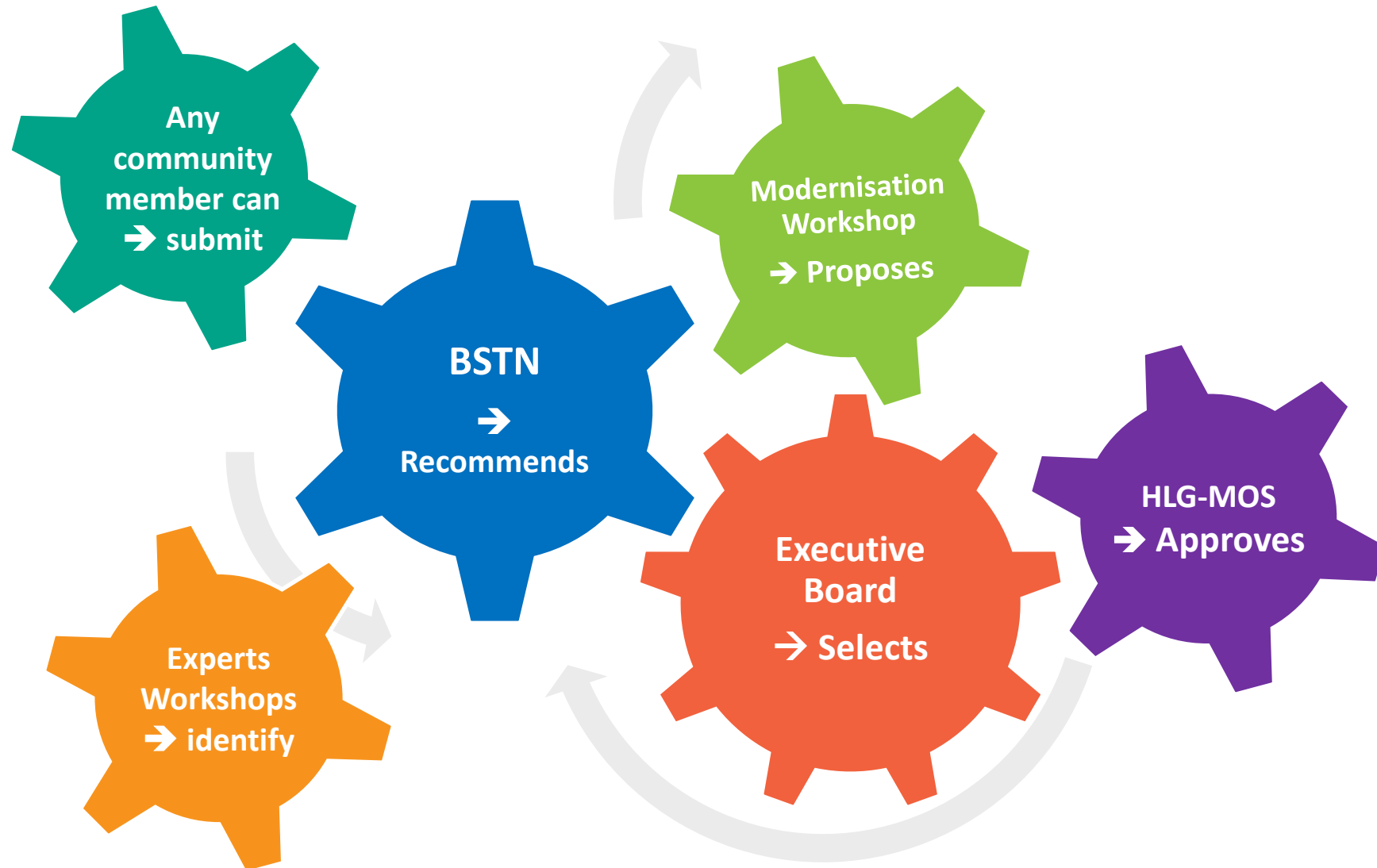
- HLG-MOS, 1 March, New York
- Workshop on Statistical Data Editing, 15 – 17 April, Geneva
- ModernStats World Workshop, 24-26 June, Belgrade
- Workshop on Statistical Data Dissemination and Communication, 7-9 September, Lisbon
- Workshop on Human Resources Management and Training, 9-11 September, Lisbon
- Workshop on Statistical Data Collection, 5-7 October, Geneva
- HLG-MOS Modernisation Workshop, 18-19 November, Geneva
- ~~Input-Privacy Preservation Project Sprint, 17-20 March~~
- Machine Learning Project Sprint, 1-3 April, Warsaw
- Machine Learning Sprint, September, Wiesbaden

## Actual

- **HLG-MOS, 1 March, New York**
- Workshop on Statistical Data Editing, 31 August- 4 September, online
- ModernStats World Workshop, 27-30 October, online
- COVID-19 response in the area of Communication, 7-9 September, online
- COVID-19 response in the area of Communication and HRMT, 9-11 September, online & ECCAA session
- Data Collection in times of COVID-19, 5-8 October, online
- HLG-MOS Modernisation Workshop, 18-19 November, online
- Differential Privacy workshop, 30 October, online
- Machine Learning Webinars, 16-17 November, online
- StatsBots Webinar, 20 November, online
- Machine Learning Project Sprint, 31 March - 16 April, online
- Machine Learning Project Online sessions, 13-15 October

# ModernStats 2021

# Selection Projects and Activities

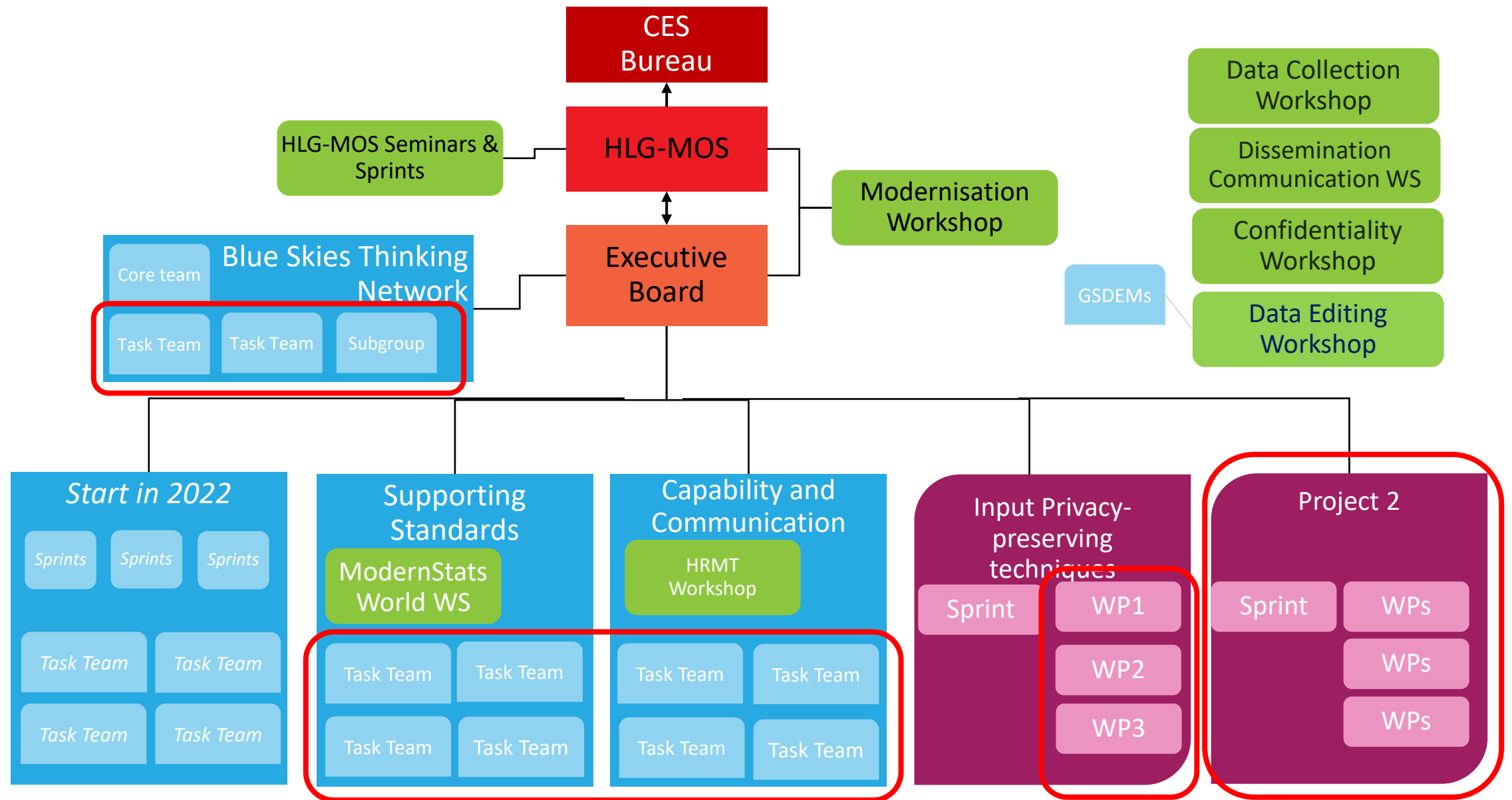


# Executive Board Proposals for 2021

- Input Privacy-Preservation Project will fully start in 2021
- No replacement for Sharing Tools Group → during 2021 EB will monitor and decide when CSPA activities can resume
- Modernisation Groups each get support for maximum 3 Task Teams
- Workshops will have 24-month cycle for in person events (in alternate years, focused online events on emerging issues might be organized)
- No workshops in first half of 2021 (but sprints and webinars might be organized)
- Machine Learning Project will be turned into a ML Community (supported by ONS)
- And: all Modernisation Groups follow closely the impact and lessons learned from the COVID-19 pandemic (response and legacy)

**HLG-MOS Executive Board will oversee and guide this on a continuous basis**

# ModernStats World 2020



# Get Involved! Join the Force!



Consult  
Contribute  
Collaborate



# Questions



Agile and  
adaptive culture

Developing  
innovative  
solutions

Trusted data  
authority

Active  
engagement

Flexibility and  
result orientation

Voluntary  
collaboration of  
the willing

Service  
orientation

Community  
driven priorities

Leadership and  
collaboration

Common  
platform for  
experts



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



Actively engage

Be a trusted data authority

Adopt a service-oriented approach

Have an agile adaptive culture

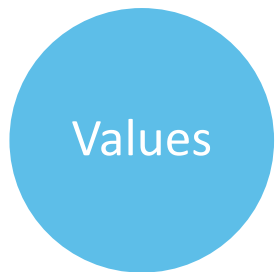
Developing innovative solutions

Demonstrating leadership and collaboration

Discussing challenges and opportunities openly

Ensuring that priorities are community driven

Supporting a flexible, result oriented and agile approach



# “Collaboration of the Willing”

- Activities are voluntary and demand driven
- Strategic Vision and oversight by HLG-MOS



- Actively steered by an Executive Board



- Four main principles:

- Openness
- Flexibility
- Participation
- Pragmatism



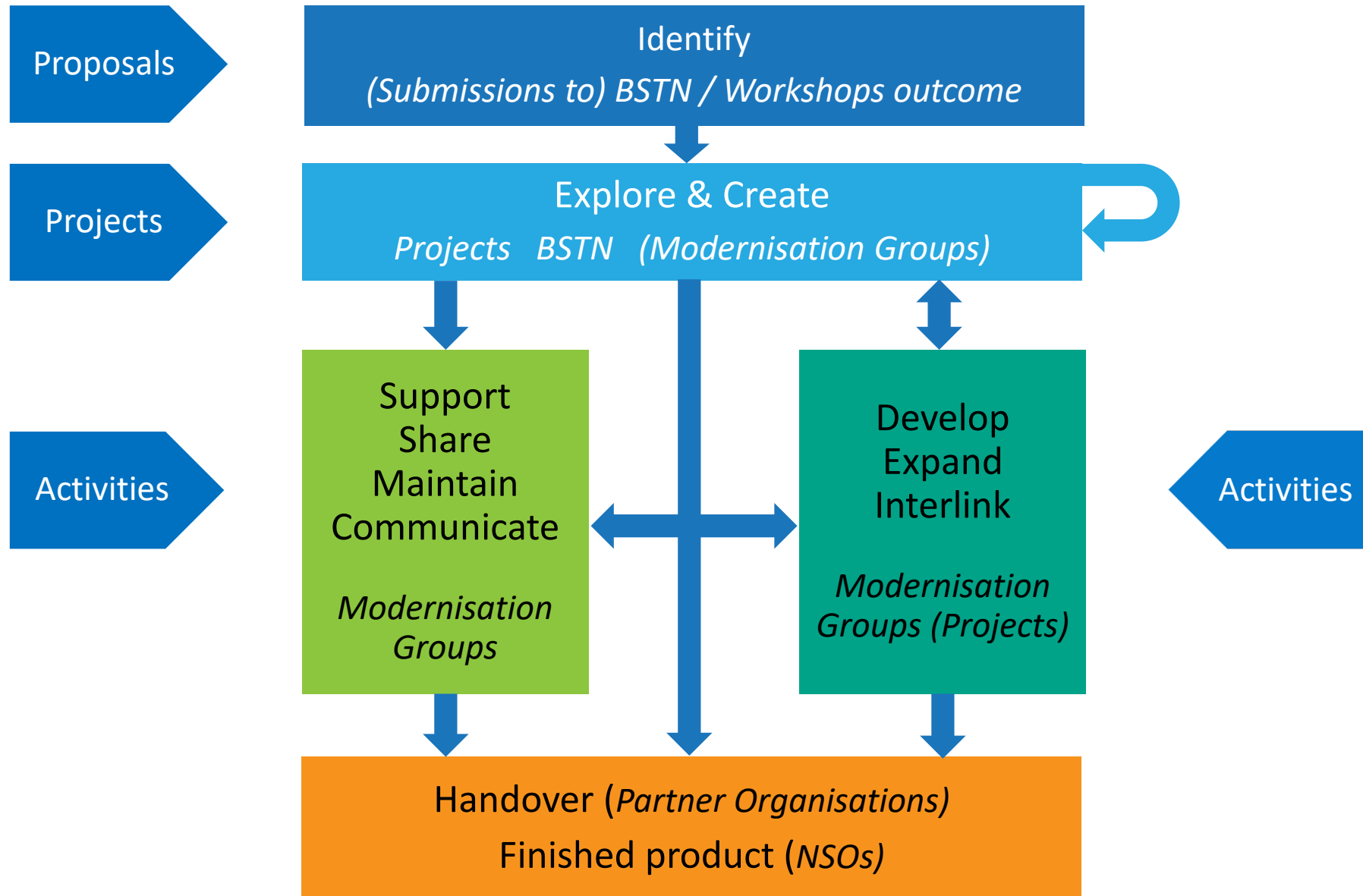
- Everybody can join and participation at all levels  
***but....Level of Commitment is expected***

# Collaborative Platform

- Two modernisation projects per year
- Four expert groups (with 10-20 Task Teams)
- Several Modernisation Workshops
- Four thematic workshops
- HLG-MOS Wikis
- Many Sprint Workshops, face-to-face, virtual meetings



# ModernStats Pillars



# Projects

- What/how/when
  - New areas of work
  - Too big for modernisation groups
  - Cross-group/multi-disciplinary topics
- Lead by Project manager (HLG-MOS Trust Fund)
- Members: open to staff of any statistical organisation
- Coordination:
  - Cross membership work other related groups (ESSnet, Modernisation Groups etc.)
  - Report to Executive Board

# Modernisation Groups & Network

- Members: staff NSOs & IOs (*academia and others*)
    - Experts and Learning while doing
  - Cross membership with other similar groups
  - Lead by Chair, secretariat support UNECE
  - Task Teams for various activities
  - Monthly or more frequent virtual meetings
  - Sprint workshops and Surveys if needed
  - Workshops (HRMT, CSPA, Standards, ModernStats)
  - Wiki (restricted) to support activities
- 
- Topics can only be executed if there are enough active members

# Mode of working

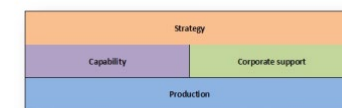
- Online meetings mostly monthly more frequent
- Wikis: collaboration and sharing information
- Sprint workshops: conceptualize & output
- Project and Group lead Workshops:
  - Sharing information
  - Getting input
- Regular workshops: future work discussions

# HLG-MOS Outputs

- Standards and Models
  - Guidelines and Best Practices
  - Catalogues and Repositories
  - Collaboration and Joint Products
  - Identifying Challenges and Way Forward
- 
- AND: sharing and collaboration between members and offices

# ModernStats Achievements:

- **Generic Statistical Business Process Model** (GSBPM)
- **Generic Statistical Information Model** (GSIM)
- **Common Statistical Production Architecture** (CSPA)
- **Generic Activity Model for Statistical Organizations** (GAMSO)
- **Generic Statistical Data Editing Model** (GSDEM)



# Some of the other output

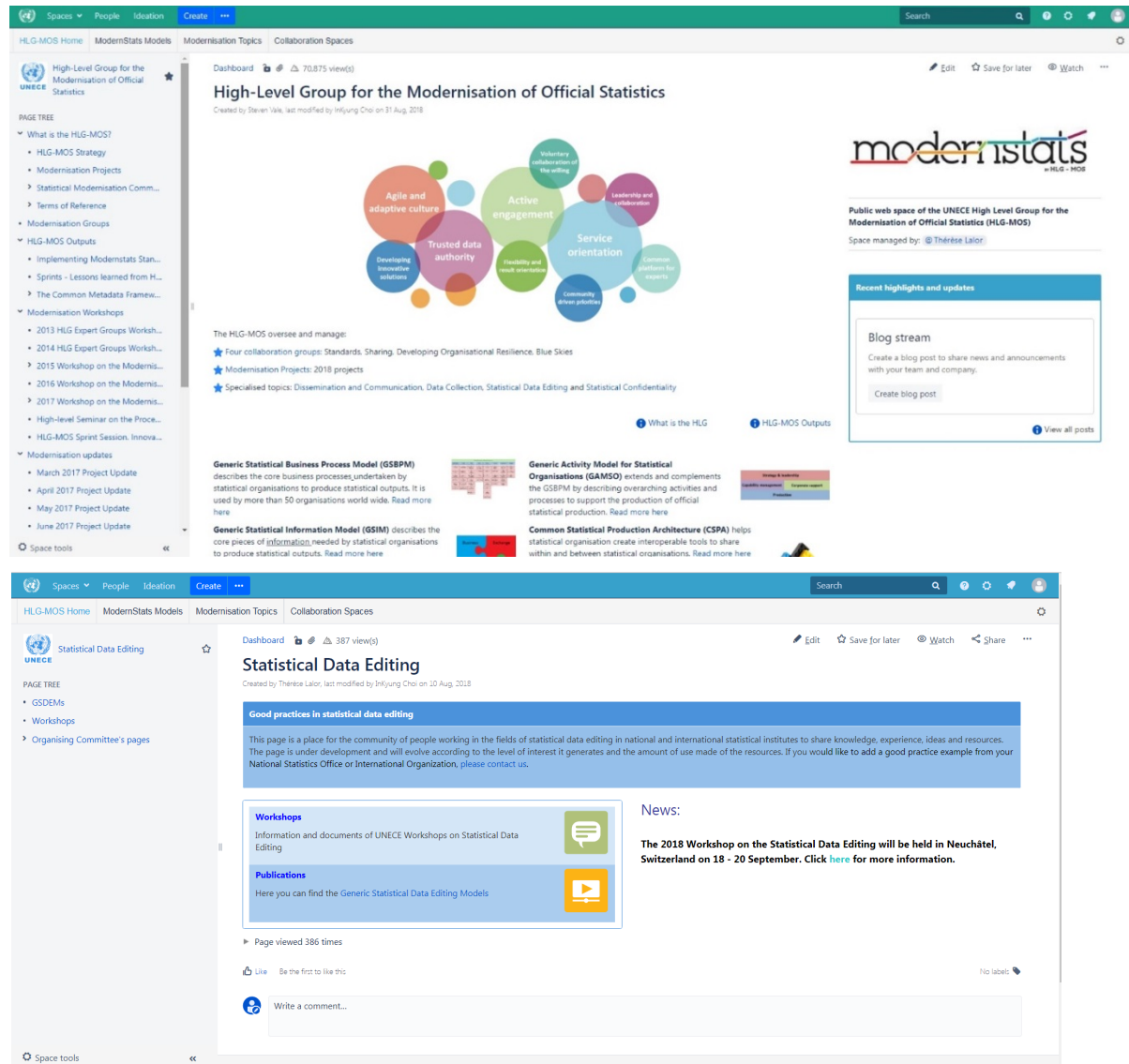
- Common Statistical Data Architecture 1.0 ([CSDA](#))
- Data Integration Guidelines [link](#)
- Common Metadata Framework [link](#)
- Linked Open Metadata [link](#)
- Strategic Communications Framework [link](#)
- Guidelines on Risk Management [link](#)
- Guidelines for Managers [link](#)
- Big Data Inventory [link](#)
- Investment Catalogue [link](#)
- CSPA Catalogue [link](#)

# Past HLG-MOS Projects

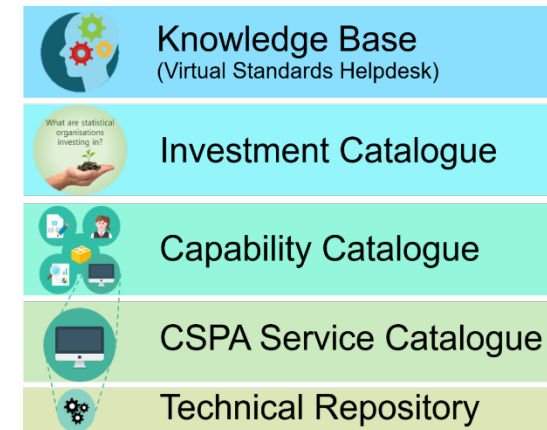


- 2020: Machine Learning II & Input Privacy Preservation Techniques
- 2019: Strategic Communication Framework II & Machine Learning
- 2018: Strategic Communication Framework I & Data Architecture Project II
- 2017: Data Integration Project II & Data Architecture Project I
- 2016: Implementing ModernStats 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

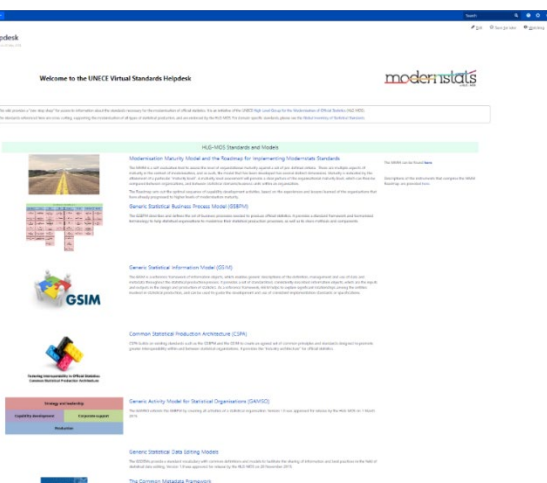
# HLG-MOS Informative Wikis



The screenshot shows the 'High-Level Group for the Modernisation of Official Statistics' dashboard. It features a sidebar with a page tree, a main content area with a central diagram of modernstats values (Agile and adaptive culture, Active engagement, Trusted data authority, Service orientation, etc.), and a 'Recent highlights and updates' section. Below the main content, there are links to various models like GSBPM, GAMSO, and CSQA.



This block contains two horizontal banners. The top banner is blue and features a head icon with gears, labeled 'Knowledge Base (Virtual Standards Helpdesk)'. The bottom banner is light blue and features a hand holding a coin, labeled 'Investment Catalogue'.



This block contains three horizontal banners. The top banner is light green and features a person icon, labeled 'Capability Catalogue'. The middle banner is light green and features a computer monitor icon, labeled 'CSPA Service Catalogue'. The bottom banner is light green and features a gear icon, labeled 'Technical Repository'.