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Work of the High-level Group for the Modernisation of Official Statistics

Report of the High-Level Group for the Modernisation of Official Statistics

Prepared by the Secretariat

Summary

The document summarizes the outcomes of the work of the High-Level Group for the Modernisation of Official Statistics (HLG-MOS) in 2020.

Among other activities, two priority projects were carried out under the auspices of HLG-MOS in 2020: the second phase of the Machine Learning project and the Input Privacy Preservation project. The summary of the work under the Machine Learning project and recommendations on how to advance the use of machine learning in statistical organizations are presented in document 11. The Input Privacy Preservation will continue in 2021. The work planned for 2021 is presented in document 10/Add.1.

At the February 2021 meeting, the CES Bureau reviewed the outcomes of work under HLG-MOS in 2020 and provided recommendations on the work planned for 2021. The Conference of European Statisticians is invited to take note of the outcomes of work and plans for further work in the area of statistical modernization.
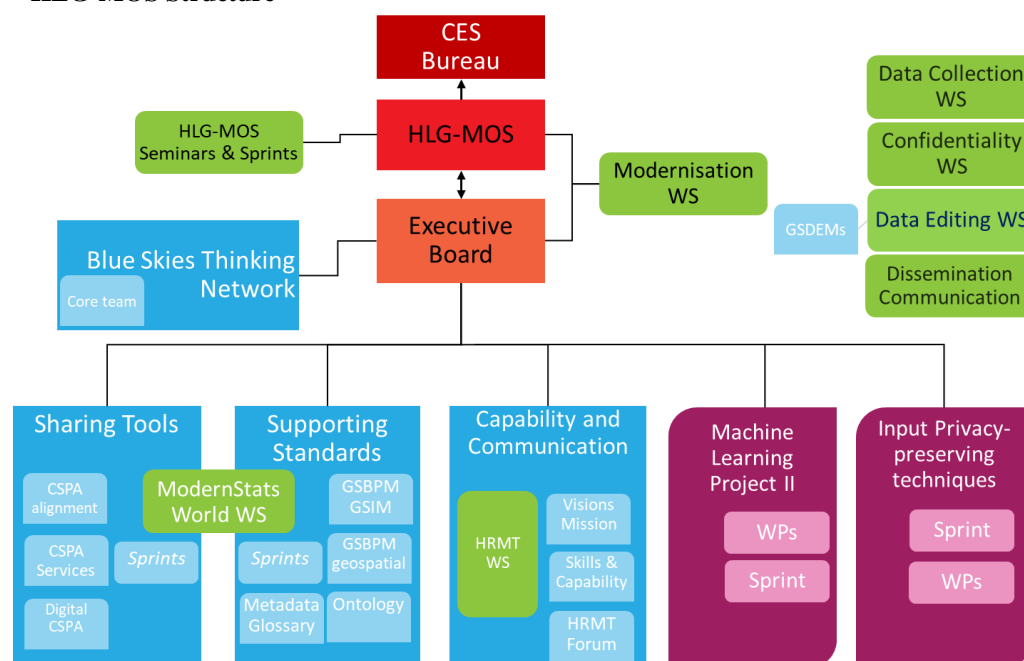
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I. Introduction

1.   This report summarizes the outcomes of the work of the High-Level Group for the Modernisation of Official Statistics (HLG-MOS) in 2020.

2.   HLG-MOS was established by the Conference of European Statisticians to advance the modernisation of official statistics. The members are Chief Statisticians of fourteen organizations that set the vision, mission and priority topics. The HLG-MOS Executive Board (EB) was set up to actively monitor the work and to adjust where necessary. Further information is available from the public HLG-MOS website.

3.   In 2020, the HLG-MOS work programme included two projects, four Expert Groups (each with additional task teams) and several meetings and workshops organized by Steering Committees. A schematic overview of the groups, network and projects active under HLG-MOS and workshops organised in 2020 can be seen in the figure below.

4.   HLG-MOS discussed and agreed on its work programme in New York in the beginning of March 2020 at the side-lines of the UN Statistical Commission. Within two weeks from the meeting, the COVID-19 pandemic started to impact the work. Additionally, the unit supporting the work of HLG-MOS continued to have issues in terms of human resources[1]. Despite all of this, a large part of the work programme could be executed as planned. In several cases, adjustments were made to better support the response of NSOs to the pandemic.

5.   In total, the Expert Groups, Task Teams, Steering Committees and Projects had 300 members[2] from over fifty different organizations. Meetings and workshops were attended by over 1,200 participants.

6.   A summary and schematic overview of the impact of the crises on the work programme is provided in the annex.

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[1] The liquidity crisis at the United Nations continued and the hiring freeze remained in place, effectively blocking the recruitment against the two empty posts located in the unit supporting the HLG-MOS work programme. This meant that effectively only 3 out of 5 posts were available to support the HLG-MOS work.
[2] Several experts participate in multiple activities. There were over 250 unique participants.

Figure 1
HLG-MOS Structure

A. Executive Board

7. The Executive Board (EB) has been overseeing the work continuously and met every month, including with project managers and chairs of the groups. In consultation with the UNECE Secretariat, several steps to mitigate the impact of the Covid-19 pandemic and of the staff shortages at UNECE were taken. Despite various measures being taken, some activities were delayed, realigned, cancelled or put on hold. Where possible, activities relevant for the Covid-19 response of NSOs were prioritised.

8. The monthly virtual meetings alternate between modernisation update and meetings with strategic focus. At any time, chairs and project managers can request assistance or interventions from EB. The concept of EB members being 'champions' of specific activities and following the work in more detail was introduced. It will need further strengthening but it helps to ensure that the focus of the workshops and the output of the projects and groups is aligned with the mission, vision and priority topics of HLG-MOS. Together with the UNECE secretariat, the group is also responsible for organising the HLG-MOS Modernisation Workshop. Link: Modernisation Updates.

II. Projects

9. Two projects were selected for 2020: the second year of the Machine Learning project and an Input Privacy Preservation project.

A. Machine Learning Project

10. This Section presents a short summary of the Machine Learning (ML) Project. More detail is provided in document ECE/CES/2021/11.

11. The Machine Leaning (ML) project was led by Mr. Claude Julien (UNECE consultant), supported by the UNECE secretariat. Several project members led the work packages and sub-groups. There were 40 participants and another 80 collaborators and followers in the project. Project members had online meetings once a month and sub-groups met on a regular basis. Between 31 March and 16 April, an online sprint with 12 sessions was organized. On 13-15 October, the Machine Learning Sessions were organized to share and discuss the work of all the streams with participants, collaborators and other interested

colleagues. The work was presented at several international conferences, giving exposure of the HLG-MOS work to a wider audience. Results of the two years of the project were presented to over 200 attendees on 16-17 November during the Machine Learning Webinar as part of the HLG-MOS Modernisation Workshop.

12. The project was structured around three work packages:

    (a)   Pilot studies on:

        • Coding and classification

        • Edit and imputation

        • Imagery;

    (b)   Quality framework for statistical algorithms (QF4SA)

    (c)   Challenges in integration of machine learning.

13. The added value of ML was demonstrated through pilot studies. The participating organizations improved their capability to use ML. The shared outputs should further increase capabilities in more organizations. ML should be considered as a potential solution for business needs: it is definitely not a buzz but rather a must that adds value. Organizations should have access to a centre of expertise to assess and support the development of ML and have clear ownership and accountabilities in the implementation and maintenance of ML.

14. A Quality Framework for Statistical Algorithms (QF4SA) was produced to provide a guide to official statistics on the choice of algorithms to be used in the production process. Algorithms can both cover traditional and modern statistical methods. Accuracy, timeliness, efficiency, explainability and reproducibility are important dimensions of this framework that is meant to supplement existing quality frameworks. With respect to integrating ML into statistical production, more work is needed. Challenges and practices were identified and discussed.

15. All project reports and relevant documents can be found on the public ML wiki.

16. The interdisciplinary nature of ML and the need for acquisition of specific skills was recognized. This led to the broad agreement that knowledge sharing, through internal communities of practice and international organizations is valuable. It was therefore proposed to continue the work and create an ML community for official statistics as a follow-up of the project. The Data Science Campus at the UK Office for National Statistics stepped forward to support this initiative which led to the creation of the ONS/UNECE/HLG-MOS Group on Machine Learning 2021.

B. Input Privacy Preservation project

17. The Input Privacy Preservation project was strongly impacted by the crises. The (in-person) sprint to scope and start off the project planned for March was cancelled. Progress was further hampered because no in-kind project manager was made available by NSOs until July, largely due to the priorities related to the pandemic. Due to the staff shortages, UNECE could not take on these roles temporarily. From 1 July onward, Statistics Netherlands made Dennis Ramondt available as a part-time project manager. A substantive specialist to co-lead the project was not found in 2020.

18. The Executive Board decided that the project would slowly expand and progressively take in more participants. By August 2020, the group had 20 members from five organizations (Istat, Statistics Canada, Statistics Netherlands, ONS and Eurostat). The work in the second half of 2020 focused on scoping the proposal (WP0) and on documenting in an agreed format statistical use-cases relevant for application of privacy-preserving techniques by the participants (WP1). These will serve as a basis for creating reference scenarios for evaluating the various techniques.

III. Groups

19.   In 2020, four Groups were part of the HLG-MOS structure: the Supporting Standards Group, the Sharing Tools Group, the Capabilities and Communication Group and the Blue Skies Thinking Network. These groups were previously referred to as Modernization Groups but are now referred to as Expert Groups to align with the convention followed in other areas of the CES work.

A.   Blue Skies Thinking Network

20.   The Blue Skies Thinking Network (BSTN) is the ideas factory of HLG-MOS. This Expert Group was set up to generate and evaluate new ideas and to assess their potential to modernise statistics. It is led by the innovation manager Barteld Braaksma from Statistics Netherlands and supported by UNECE. The core expert group consisted of around fifteen members that met at least once a month. Additionally, pitch talk sessions were organized. These are a kind of mini sprints where members and outsiders can present briefly a modernisation idea or project which is subsequently discussed by the group. This concept turned out to be an effective way of identifying new topics. Additionally, Task Teams were set up with subject area experts to follow-up on specific topics.

21.   As a follow-up on last year's Modernisation Workshop, BSTN decided to set up four Task Teams:

        (a)   Chatbots: under the leadership of OECD, Statistics Netherlands and Statistics Canada joined to prepare a business case for StatsBot by working out a Proof of Concept for a scalable StatsBot. Results were presented at the StatsBot Webinar and in a project report document. Additionally, a project proposal was prepared and submitted to HLG-MOS.

        (b)   Data-driven decision-making support at local level: this stream was mainly inactive as it did not get other offices involved beyond Statistics Serbia. BSTN and the Executive Board continue to try to get more countries to join the sub-group as the idea turned out to be a very effective tool in response to the Covid-19 pandemic.

        (c)   Data Science Labs: was relabelled to Sustainable Communities for HLG-MOS initiatives. BSTN prepared a concept note in which it is proposed to use the Machine Learning project and the BSTN Synthetic Data Sets subgroup as pilots for creating dedicated communities of experts on new methodologies and technologies for modernizing official statistics. To facilitate this, a support team needs to be set up with information management and communication experts. ONS kindly offered to support the Machine Learning while a community for Synthetic Data was started (next item).

        (d)   Synthetic Data Sets: this work expanded rapidly, and the expert group that was set up grew to 30 members from 13 organizations. Two subgroups were established: i) on methods and tools, and ii) on utility measures and communication. Statistics Canada made a project lead available and UNECE provides additional support. This has increased the effectiveness and success of this group to a large extent. The group prepared and submitted a project proposal for consideration of HLG-MOS for the 2021 work programme.

22.   Through the pitch talks and further discussions, several topics were identified for 2021 (see document 9/Add.1). The HLG-MOS Executive Board oversees the work and can request assessment of topics that might be relevant for modernisation of statistics. The group keeps being ready to evaluate activity and project proposals submitted from the statistical community. Link: General info (public)

B.   Supporting Standards Group

23.   The Supporting Standards Group is responsible for supporting, integrating and further development of the modernisation models and standards by HLG-MOS. The group was chaired by Marina Signore from Istat and supported by the UNECE secretariat. Beside the monthly plenary expert group meetings, five task teams met on a frequent basis. Over fifty

experts participated in the various activities of this group. The main activities and outcomes in 2020 were:

(a)   Linking GSBPM and GSIM: Two templates that capture all necessary information were used to map 20 sub-processes. New mapping diagrams showing information flows were produced. In 2021, the group will finalize the mapping and information flows and continue the collaboration with the GSIM task team on the minor update of GSIM.

(b)   Geospatial information for GSBPM: Five use cases were identified. In 2020, the focus was on: use of geospatial information to produce geospatially-enabled statistics and use of geospatial information to support statistical production. Additionally, the relation of geospatial information with the subprocesses of five of the eight phases of GSBPM was identified. The group plans to finish the work in 2021.

(c)   Metadata glossary: The work was completed in May 2020. The glossary is available from the main HLG-MOS site (https://statswiki.unece.org/x/4ADrDw) and contains a list of definitions and explanatory texts for main terms used in ModernStats Models: GAMSO, GSBPM, GSIM and CSPA. For GSIM, which already has its own glossary, the Metadata Glossary team reviewed terms and made proposals for changes.

(d)   GSIM update: the communication paper was completed. The group will continue working to update and clarify ambiguous points and correct errors. Findings from the activities listed above and from experiences implementing GSIM provided input for this process.

(e)   Core ontology for official statistics: The work on the ontology was frozen due to the Covid-19 pandemic.

(f)   ModernStats World workshop: The workshop was organized jointly with the Sharing Tools group. As a result of the Covid-19 pandemic, it was turned into an online workshop. This led to a wider audience being able to attend (140 participants from 40 organizations). The main focus was on sharing experiences with using the modernisation models. The work of the Supporting Standards group and CSPA was shared while countries presented their experiences in using the models. Presentations, documents and the meeting report is available from the meeting website.

C.   Sharing Tools Group

24.   The group supports further developing the Common Statistical Production Architecture (CSPA) and its implementation. The Sharing Tools Group was mainly inactive in 2020. The group traditionally works through in-person sprints to advance the work which were impossible due to the Covid-19 pandemic. The planned work under the ESSnet project Implementing Shared Statistical Services (I3S) could not progress either as it was impacted by the crisis. Starting from 2021, CSPA will be part of the Supporting Standards group. The output created by the Sharing Tools group is available from the CSPA webspace. The activities in 2020 can be summarized as:

(a)   CSPA 2.0 was finalized and made available from the public wiki of the Common Statistical Production Architecture site;.

(b)   2020 ModernStats World Workshop, prepared together with the Supporting Standards (see above).

D.   Capabilities and Communication Group

25.   The Capabilities and Communication Group was created by adding Communication to the Expert Group on Developing Organizational Resilience. The group is responsible for aspects of Human Resource Management and Training as well as Communication in Statistical Organizations.

26.   The work of the Expert Group on Capabilities and Communication group nearly came to a full stop. Human Resources (HR) and communication departments were strongly involved in the Covid-19 response in most offices. On a monthly basis, the group kept meeting to evaluate if any task team could commence their activities. In July, the task team on Ethical Leadership has (re)started but only with a few members. The task team doing the follow up on the Strategic Communication Framework initially switched to collecting examples of the response of NSOs to the pandemic and changed focus towards updating and expanding the crisis communication management section of the framework. Due to staff shortages at UNECE and the pandemic, the HRMT workshop was initially cancelled, but eventually replaced with an online Covid-19 response event. The activities in 2020 can be summarized as:

       (a)   Ethical leadership: the work was further scoped. A short poll to countries about their ethics management policies was prepared and the team will be working on a survey in 2021.

       (b)   Strategic Communication Framework: a digital platform was created and extended with examples from Covid-19 responses in communication. The various outputs of the 2018 and 2019 Strategic Communication Framework projects are being integrated and will be submitted as a United Nations publication in early 2021.

       (c)   Workshop on Human Resource Management and Training for Statistical Offices: the planned regular HRMT Workshop was changed into an online workshop on Covid-19 response in HRMT. It brought together statistical organisations to discuss how they are managing unprecedented crisis situation during the pandemic and to share useful experiences and practices. Presentations and papers are available from the meeting website.

IV.   Meetings and workshops

27.   Originally, at least ten in-person meetings, workshops and sprints were planned for 2020[3]. However, as a result of the Covid-19 pandemic, some workshops were converted to online events (Data Editing Workshop, ModernStats World Workshop and HLG-MOS Workshop on Modernization of Official Statistics) and the remaining workshops (Workshop on Dissemination and Communication of Statistics, Workshop on Human Resources Management and Training, and Workshop on Statistical Data Collection) were replaced with online Covid-19 response events as they were in areas where the impact of the pandemic was strongest.

28.   In the end, twelve larger events attended by over 1,200 participants were organized in 2020 despite the staff shortage. The events are listed below in chronological order:

       (a)   HLG-MOS meeting (1 March, New York): As usual, the HLG-MOS members met before the Statistical Commission in New York. This year, due to the liquidity crisis at the United Nations, the meeting had to be shortened to a half day event. The results of 2019 and work programme for 2020 were discussed and approved. The mission and vision statement did not need an update as the priority topics were still valid. The Executive Board got further tasks to lead and guide the work under HLG-MOS in 2020.

       (b)   Machine Learning Sprint (31 March-16 April, online): Statistics Poland planned to host the sprint but due to the pandemic, the event took place online. The main objective was to advance the production of the pilot study theme reports based on the pilot study reports (WP 1 of the ML project). Quality and integration of ML in official statistics was also discussed and several recent pilot studies were presented. In total 12 online sessions were held. Most presentations and other material shared at the sprint are available from the ML for Official Statistics site.

       (c)   Workshop on Statistical Data Editing (31 August-4 September, online): The original workshop was postponed and turned into an online event. Because of the online format, group discussions were limited, so alternative approaches were followed to determine

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[3] Statistics Poland, Statistics Portugal, Statistics Serbia and Destatis Germany had already started preparations to host one of these events.

the future work in this area. Over 200 participants were able to participate in the event rather than the usual 60-70 participants. The meeting covered the following topics: Methods: for machine learning and time series data, and new/emerging methods; Data: 2021 Census, administrative data, geospatial data, big data and other alternative data; Software: open-source software and software demonstrations; Quality: assessing data quality and indicators; Imputation Methods: machine learning and new/emerging methods; Processes: editing in a process-oriented setup, standardisation and meta-data driven processes. Papers, presentations and the outcome are available at the meeting site: 2020 SDE Workshop.

(d)   Workshop on the Covid-19 response in statistical data dissemination and communication (7-9 September, online): The workshop focused on sharing experiences with responding to the Covid-19 pandemic in the area of communication. Topics discussed included: Emergency communication and innovation in communication; Communicating new products developed during the crisis; Internal communication during the pandemic. There were 21 presentations (of which seven on the joint day with the HRMT Workshop) where experiences with responding to the pandemic were shared. HLG-MOS member and president of Statistics Poland, Dominik Rozkrut, provided a keynote presentation. Over 110 colleagues joined the workshop. It included small group discussions to share experiences and discuss lessons learned. Results are available at the meeting site.

(e)   Workshop on the Covid-19 response in human resources, management and training (HRMT) (9-11 September, online): With 20 presentations (seven on the joint day), it brought together statistical organizations to discuss how they are managing unprecedented crisis situation during the pandemic and to share useful experiences and practices. Over 90 colleagues participated in the workshop. It included small group discussions to share experiences and to discuss lessons learned. Presentations, papers and other meeting documents are available from the meeting website. A special session for countries from Eastern Europe, the Caucasus and Central Asia with Russian interpretation was jointly organized and funded by EFTA.

(f)   Data collection and the impact, challenges and opportunities of the Covid-19 pandemic (5-9 October, online): This online Covid-19 response event was attended by 129 participants. It included 25 presentations and small group discussions to share the impact of the pandemic on data collection activities and to discuss the legacy of the pandemic on data collection practices. The focus was on sharing the impact of the pandemic in the area of data collection and to challenges it posed to existing data collection activities but also on the opportunities it provided to introduce new modes, new data sources and new roles for NSOs. Presentations, papers and outcomes area available at the meeting website.

(g)   Machine learning sessions (13-15 October, online): in this three-day event about twenty-five talks were organized on four broad themes: project output, study updates, new applications in official statistics, as well as on preparations for continuation of the ML project as a community in 2021. The sessions were open to all project participants, collaborators and others interested in the work. About seventy different experts attended the sessions. Most of the material presented is integrated and available at the ML for Official Statistics website.

(h)   The ModernStats World workshop (27-30 October, online), organized jointly by the Supporting Standards and the Sharing Tools groups was held online with an adjusted programme and reduced interactive elements. As there were fewer new outputs to present, there was more time to present the models (specifically GSBPM) to a broader audience. Link: 2020 Workshop.

(i)   Differential privacy workshop (30 October, online): this short workshop was organized by the Synthetic Data Sets group of BSTN. Participants in the Synthetic Data Sets group shared and discussed their experiences in differential privacy and the interlinkages with synthetic data. Conclusions will be included in the work of the group.

(j)   Machine learning webinar (16-17 November, online) was organized to share the project outputs with a wider audience. Over two-hundred persons attended the event where the outputs of the project were communicated. This included study reports, shared code and data, analysis of value added, recommended ML practices, quality framework elements and examples of organizational practices to address integration challenges.

Presentations, papers and other material is available from the webinar pages on the public ML for Official Statistics website.

(k) HLG-MOS Workshop on modernization of official statistics (18-19 November, online) was held online with an adjusted programme. As several topics will be carried over to 2021, fewer new topics can be taken on board in 2021. Significantly more time was allocated to present the results and to discuss the project and activity proposals. Four rounds of (online) discussion groups in simultaneous virtual outbreak rooms were held where participants discussed the merits and potential scoping of the proposals and activities. At side events, webinars were organized to share the work of the Machine Learning project and of the Statsbots activity of BSTN. Presentations, papers and activity and project proposals are available from the meeting website.

(l) Statsbot Webinar (20 November, online): the webinar focused on sharing the results of the BSTN subgroup on StatsBot. Representatives from OECD, that lead the activity, and the contracted parties presented two proofs of concept and lessons learned. A second main idea shared during the Webinar was on joint user research to drive value and innovation. Over fifty participants joined the discussions. Documents and presentations are available from the webinar pages.

29.   Some project sprint workshops that were planned had to be cancelled (on Input Privacy Preservation and one on Machine Learning) while the Machine Learning Sprint planned in Warsaw was turned into an online event. Several other Machine Learning events were added as well (ML Sessions and ML Webinar). BSTN group also organized several Pitch Talk events, a Workshop on Differential Privacy and a webinar on the Statsbot activity. On several occasions, outputs and activities of groups and projects were presented at relevant HLG-MOS workshops or at external meetings. For example, results of the Machine Learning project were presented at various international events on Machine Learning, in addition to the UNECE Workshop on Statistical Data Editing.

V.   Other activities

30.   The work of HLG-MOS is facilitated by a large number of wiki sites and web pages. In total, the secretariat is managing and maintaining over fifty different public and restricted access wiki sites available for collaborative purposes or for sharing output from HLG-MOS activities. Furthermore, several presentations on the work of HLG-MOS were given at national and international events. Additionally, news articles and various reports on the work were prepared within UN. Moreover, the secretariat responded to various requests for publications, sharing information, presentation of work or requests for assistance by colleagues from within and outside the UNECE region.

31.   The work was also coordinated within the Statistical Division, UNECE and with other international organizations working on the modernisation of official statistics (e.g. Eurostat, European Central Bank, OECD, UNDESA, World Bank). Coordination was assured and linkages were made with international activities in similar areas, for example with the Global Working Group for Big Data, the ESSnet Big Data from exploration to exploitation, the ESSnet Implementing Shared Statistical Services (I3S) project, the EU MAKSWELL project and UN-GGIM.

32.   On many occasions, chairs, project managers and other group members represented and coordinated the work done under HLG-MOS with other national and international activities. Several colleagues and offices have also been active at providing technical assistance to other countries on implementing the modernisation models or other guidelines, frameworks and recommendations produced under HLG-MOS.

33.   Further information is available on the main HLG-MOS online portal. The UNECE secretariat can be contacted for further information.

Annex   **English only**

Summary of status of activities under the High-Level Group on Modernization of Statistics

A. **Key impact of the Covid-19 pandemic and staffing issues on the HLG-MOS work programme:**

Limited impact:

- The Machine Learning project
- Blue Skies Thinking network
- Supporting Standards group
- Data Editing and ModernStats World workshop

Major reduction of activities:

- Input Privacy-Preservation project
- Sharing Tools Group

Major reduction and refocus on Covid-19 response:

- Capabilities and Communication Group
- Dissemination and Communication, HRMT, Data Collection workshops.

Table (English only)
Detailed summary overview of impact

Status of HLG-MOS Activities 2020		
Activity	**Status**	**Note**
Modernisation Groups		
Executive Board	+ +	Monthly meetings as scheduled
Blue Skies Thinking Network	+	Monthly meetings as scheduled
Identification of new topics	+ +	Identification of new topics finished
Synthetic Data Sets	+ +	Expanded into 30+ expert group. Will continue as project
Chatbots	+ +	Proof of Concept finished
Data Science Labs/Expert Communities	+	Note produced. ML pilot will start with support from ONS. Synthetic Data now project.
Data-driven decision-making support at local level	-	Statistics Serbia waiting for countries to collaborate
Supporting Standards	+	
Linking GSBPM and GSIM (conti.)	+	Significant progress was made but continues in 2021 (with additional output)
Core Ontology for Official Statistics (conti.)	- -	not started/continued
Metadata Glossary (conti.)	+ +	Finished June 2020
Geospatial: Home	+	Most work was done, the remaining work is planned to finish by April 2021
GSIM	-	Start delayed to July 2020. Work will continue in 2021
Organisation ModernStats World workshop	+ +	Finished with adjusted programme
Sharing Tools	- -	Inactive but subgroup setup under Supporting Standards Group

CSPA 2.0	+	Finalized by 2 January	
Digitising of CSPA document & Promotion	- -	Inactive	
Adding Services to the CSPA Catalogue	- -	Inactive	
Communicating the Restated CSPA Concept	- -	Inactive	
Organisation ModernStats World workshop	+ +	Finished with adjusted programme	
Capabilities and Communication Group			
Culture Change and Internal Communications Strategy	- -	Inactive due to Covid pandemic	
Competencies Training and Development	- -	Inactive due to Covid pandemic	
Future of work in the context of Modernisation of the workplace	- -	Inactive due to Covid pandemic	
Social Media Strategy and other follow up on the Strategic Communication Framework	-	Started in July, focus first on crisis communication management	
Ethical leadership		Started in July will continue in 2021	
HRMT workshop organization	+ +	Workshop cancelled but replaced with virtual Covid-19 response workshop	

Projects

Machine Learning Project	+ +	All outputs delivered
Sprints (2x)	+ +	Moved to virtual (and one replaced by ML sessions)
Input-Privacy Preservation Project	-	Start postponed to July; will slowly expand the scope and participation
Sprints (2x)	- -	Cancelled

Workshops

Data Editing Workshop	+ +	Postponed and changed to virtual event of original workshop
Data Collection Workshop	+	Cancelled, replaced by Covid-19 response workshop
Dissemination and Communication WS	+	Cancelled, replaced by Covid-19 response workshop
Confidentiality Workshop	*2021*	*24-month cycle next planned for 2021*
HRMT WS	+	Cancelled, replaced by Covid-19 response workshop
ModernStats World Workshop	+ +	Modified original workshop
Modernisation Workshop (November)	+ +	Planned to be virtual; more presentation of results, less on future work

Finished ++		Postponed/Strong impact -
On Track/limited impact +		Cancelled - -