



High-Level Group for the Modernisation of Official Statistics: 2021 Work Programme

Introduction

1. The High-Level Group for the Modernisation of Official Statistics (HLG-MOS)¹ provides a collaborative platform for experts in statistics to develop strategies and solutions in a flexible and agile way. The work of the HLG-MOS is open to all who are willing to contribute. HLG-MOS must ensure that it remains adaptive to the changing environment and shifting landscape of challenges and opportunities. Its strategic vision is therefore regularly updated and new priorities are set. The annual work program has to reflect these changing needs, while at the same time continue to support or further develop previous outputs. To guarantee an optimal outcome, a process combining top-down and bottom-up approaches is followed.

2. Annually, the chair of the HLG-MOS sends out to all members of the Conference of European Statisticians (CES) an open call for submission of project and activity proposals for the next year². Since 2019, proposals can also be submitted to the Blue Skies Thinking Network (BSTN) at any time during the year. After an initial evaluation by the BSTN, the Executive Board of the HLG-MOS provides feedback and selects proposals that will be considered as projects or flagged for other types of follow-up. At the annual Workshop on the Modernisation of Official Statistics³ at the end of November, these proposals are presented and discussed by experts that are working on national and HLG-MOS modernization activities. Through small group discussions, project proposals are evaluated and ranked, and suggestions are made for follow-up on activity and other proposals. The Executive Board then discusses and further refines the proposals and the selected projects and activity proposals are finally submitted for endorsement by the HLG-MOS.

3. This document outlines the work program that was created as a result of the discussions at the Workshop on the Modernisation of Official Statistics that was exceptionally held online on 18-19 November 2020 and includes subsequent further refinements by the Executive Board. This paper provides summary information to the community on the work that will take place so they can participate in the activities that are of most benefit to them.

HLG-MOS Projects 2021

4. The following two project were selected and will be recommended for HLG-MOS approval for 2021: i) Input Privacy-Preserving Technics Project and ii) Practical Guide to the Use of Synthetic Data Project. Both projects are in the area of confidentiality and data protection. As the focus and approach differs between the two projects, specifically a focus on input versus a focus on output, it was decided after deliberations that the projects should not be merged. However, to create synergy and exchange ideas, regular joint meetings will be held.

5. **Input Privacy-Preservation Project:** The project on input privacy-preserving techniques had been selected for the 2020 HLG-MOS work programme. However, due to the Covid-19 pandemic, activities could only start in the second half of 2020 with a small group and limited scope. Lead by the project manager, this group further scoped the project proposal and started an inventory of use cases

¹ Refer to Annex 2 for the structure of the HLG-MOS.

² Due to the Covid-19 pandemic, in 2020 no open call was sent out. However, the BSTN kept welcoming proposals.

³ The participants of the workshop are the experts that were active under the various projects and groups under the auspicious of the HLG-MOS in 2020 and other experts sent by NSOs of CES member countries as well as members of the HLG-MOS and the Executive Board.





from participating NSOs. In 2021, the focus will be on progressing the work and gathering experiences from generalized use cases. Technical experts from outside official statistics will now be invited to join the project. The following work packages have been identified:

- WP1: To document, generalize and prioritize the use-cases: New participants will bring new use-cases that will be added to the inventory started in 2020. Generalized use case might be defined and a subset of the most prominent use-cases will be identified. Reference scenarios that are relevant for different types of source data and/or different NSOs will be drafted and prioritized for follow-up action in WP2.
- WP2: Setup and test the use-cases: Selected types of use-cases will be tested against different techniques. For use-cases for which a broader spectrum of technological solutions is available, we will launch a wider call for proposed solutions from external technical audiences. Use-case testing and comparison of different solutions based on benchmark conditions (e.g. with synthetic test data) will be conducted. The technology aspect will be considered as well as organizational, business and legal aspects. Due to the complexity of this work package, it might be structured into parallel sub-streams.
- WP3: Lessons learned and guidelines: The experiences from WP1 and WP2 will be used to make clear recommendations on which techniques are most suitable in which cases and where such techniques are not applicable. Although the focus will be on technical and methodological aspects of implementation in official statistics, lessons learned and recommendations with respect to organizational, business, and legal aspects will be documented as well.

6. The work of the project will be coordinated with the UN Global Working Group Task Team on Privacy Preserving Techniques and activities of Eurostat planned in the same area as well as the International Working Group for Machine Learning (continuation of the 2020 HLG-MOS Machine Learning Project) and the 2021 Expert Meeting on Statistical Data Confidentiality.

7. Practical Guide to the Use of **Synthetic Data Project:** Building on the success and network of the Blue Sky Thinking Network's Working Group on Synthetic Data, 'the practical guide to Synthetic Data' project sets out to develop a hands-on guide for creating and using synthetic data primarily geared towards data protection and disclosure control. The target audience of this guide includes NSOs as well as their clients such as academia, the private sector and the general public. The guide will focus on how to use synthetic data in practical applications, considerations for implementation, and important aspects to share with users. This guide can serve as the foundation for future standards as synthetic data is more broadly adopted within NSOs and by their users. The project will be divided into four work packages, with the scoping work already completed through the 2020 BSTN Working Group on Synthetic Data.

• WP1: Use cases for synthetic data: The methods and measures of synthetic data are highly dependent on the reason for using synthetic data. The Working Group on Synthetic Data has identified four broad categories of uses for synthetic data: public data release, testing analysis, training and testing technology. This work package will detail the use case categories and highlight their specific methodology and measure requirements.





- WP2: Recommended methods for creating synthetic data: This work package will gather an inventory of methods for creating synthetic data both currently in use and in research. The core outcome of this work package will be the assessment of the inventory of methods and recommendations on the methods suitable for different use cases of synthetic data.
- WP3: Measuring the analytical value and/or disclosure risk of synthetic data sets: This work package will gather an inventory of utility and disclosure risk measures. This work will outline the circumstances in which the measures apply, associate them with the use case categories and provide clear explanations of what the measures signify and how they should be interpreted by those that create the synthetic data sets and those that use them.
- WP4: Experimenting with the recommendations: Since the focus of this guide is on practical applications of synthetic data, this final work package will test the recommendations of the guide with real life scenarios of synthetic data. Activities will include pilot projects from NSOs, presentations geared towards user needs and hands-on events such as hackathons or training workshops.

8. The work of the HLG-MOS projects is normally led by project managers that are either assigned by a member of the HLG-MOS (in kind) or contracted by UNECE using the HLG-MOS Trust Fund. Project manager have already been identified for both projects. As neither are available full time and given the nature of the two projects, lead substantive experts might be assigned. The UNECE wiki and web conference are used to monitor the progress of the projects and UNECE provides additional administrative and secretariat support.

9. Additional details on the two selected projects can be found in Annex 1.

Modernisation Groups

10. Modernisation Groups are organized around common themes and the selected activities are normally organized through Task Teams. Groups normally have frequent virtual plenary meetings and Task Teams typically have monthly virtual meetings. The groups may have additional meetings or organise sprint workshops to expedite the work. The chairs of the group provide monthly updates to the Executive Board.

11. The HLG MOS has mandated the Executive Board to regularly reflect on the structure and the areas of work of the Modernisation Groups and to evaluate whether the groups are aligned with the key priorities identified by the HLG MOS. It had already been decided that in 2021, the Sharing Tools Group would be merged with the Supporting Standards Group. Due to the uncertainty about the Covid-19 pandemic and lack of resources at the Unit supporting the work of the HLG-MOS, it was decided not to setup a new group in the first half of 2021. The HLG-MOS Executive Board will monitor the situation and might come with proposals in the second half of 2021.

12. The planned activities of the Modernisation Groups are briefly described below. More detailed descriptions of all activities can be found on the HLG-MOS site: <u>https://statswiki.unece.org/x/lwF-EQ</u>.



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Capability and Communication Group

13. The Modernisation Group on Capability and Communication focuses on the organisational changes and the communication challenges necessary to support modernization in statistical organizations. There were many activity proposals in this area that were all considered relevant. Rather than selecting only some, they were grouped into three thematic areas. This will create synergy and mitigate against risks of a mismatch between proposed topics and experts being available in the group. The group will setup task teams to consider the following substantive topics during their monthly web conference meetings:

- Future of work, future workplace and future skills The purpose of this proposed activity is to develop a framework/Operating Model on Skills, Capabilities and Training that is future proofed and can be adopted in any NSO. This Model will include complementary skills and capabilities which will be complementary to the technical skills applicable to roles including Statistical, HR, IT etc. The task team will research best practices, current models and practices adopted before and during COVID2020 and which were successful and can be adopted across NSOs.
- Ethical leadership as part of culture evolution –. The goal is to define a common vocabulary, a framework, and give concrete suggestions (sort of Handbook) to support NSOs' leadership in managing ethics and integrity as part of the Corporate Social Responsibility and an organisational culture aligned with this. To identify how many and which NSOs have implemented policies, procedures and programmes on ethics management, a short poll will be held. This will be used to involve colleagues and to collected feedback, insights and examples. Additionally, a collaborative platform and/or a meeting to exchange experiences and ideas is proposed to be organized.
- Role of market research, digital marketing & communication strategies and tools in managing a crisis communication situation and in promoting public engagement in surveys The pandemic has highlighted how important agile and responsive communication strategies are to allow NSI's manage emerging and fast-changing situations It is a follow-up on the Strategic Communication Framework to address and include the many issues that arose during the pandemic in the area of crisis communication. The key objective is to explore how NSO's can use the power and potential of digital communication to position themselves to respond to rapidly evolving communication and marketing requirements.

14. The Capability and Communication Group organise the biennial **Human Resources Management and Training workshop.** In 2021, the group setup an organisation committee to start organising the 2022 Workshop.



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Supporting Standards Group

15. The Supporting Standards Group provides support for the implementation of the "ModernStats" models (GAMSO, GSBPM, GSIM and since 2021, CSPA) through a range of activities which include development, promotion and maintenance of the models. Currently, this group is chaired by Hungary.

16. The group has plenary meetings every month via web conferences. The group may have additional meetings or organise a sprint workshop to expedite the work progress, as necessary.

17. In addition to the plenary meeting, separate task teams will progress work on the following topics:

- Linking GSBPM and GSIM This extension of a 2020 activity will continue to map the information objects of GSIM to the processes and sub-processes in GSBPM. The activity will create a model for GSIM-GSBPM mapping and create relevant documentation, including the clickable version.
- Core Ontology for Official Statistics This extension of an existing activity aims to create a common semantic model and vocabulary for official statistics. The core concepts that are cutting across different models were identified. The focus will now be on developing the links with vocabularies in other models and establish the management and governance of these different initiatives.
- Updating GSIM This activity aims to incorporate experiences from countries that have started to incorporate GSIM in their organization. Based on these experiences, a soft update of GSIM to clarify ambiguous points and fix minor errors as well as to update the GSIM documents.
- Application of GSBPM for Geospatial Information The activity will provide guidance on how to use GSBPM with geospatial information by extending the description in GSBPM focusing on activities needed for geospatial information.
- **GSBPM task** The activity will compile examples of lower-level GSBPM activities ("task"), identify commonalities among these and create a document summarise the finding. The output can be used as a supplementary document of GSBPM to support countries using GSBPM in more detailed level and used as an input for next GSBPM revision.

18. The Sharing Tools Group provided implementation support for the Common Statistical Production Architecture (CSPA). In 2021, it will be merged with the Supporting Standards group. Several activities on CSPA will be bundled to be covered by one task team:

• **CSPA** –. Due to the ever-changing environment, CSPA needs continuous updating. Furthermore, the outcome of the ESSnet project Implementing Shared Statistical Services (I3S)⁴ that plans to finish by mid-2021 needs to be integrated. Making the CSPA

⁴ The project is part of the Eurostat's European Statistical System Network program. More information is available from the CROS platform: https://ec.europa.eu/eurostat/cros/content/implementing-shared-statistical-services_en





document interactive and developing better communication material are other pending activities. Checking to what extend services are sufficiently described and to review how GSIM objects and GSBPM are used in CSPA, as well as evaluating whether further work on CSPA LIM is needed, are natural topics now that CSPA is added to the Supporting Standards group. The work is planned to start in the second half of the year, once the I3S project has finished as most of the potential task team members are active there.

19. By decision of the HLG-MOS Executive Board, all workshops will have a 24-month cycle⁵. During 2021, the Supporting Standards Group will setup an Organisation Committee to organise the 4th **ModernStats World Workshop** in 2022. The workshop aims to progress work on development and maintenance of the ModernStats models and provide a ModernStats models user platform.

Blue Skies Thinking Network

20. The Blue Skies Thinking Network is the ideas factory of the ModernStats community. It is led by an innovation manager and consist of a core group comprised of around twelve members from various NSOs and International Organisations. The core team aims at having in-depth as well as broad knowledge of innovation related aspects to facilitate the development of the work and of sufficient heterogeneity to allow for a variety of expertise and views. The core group draws from a flexible pool of resources to assist in the evaluation of proposals.

21. The group can also setup temporary activities to follow-up on project proposals that were not selected or activity proposals that were not assigned to a Modernisation Group. In 2021, the Network will elaborate further on these topics (other topics might be added throughout the year):

- Network data (feasibility study): The immediate goal of this BSTN activity is to determine the methodological feasibility of deriving sufficiently valid inferences about networks from data aggregates in a manner that addresses most of these concerns. If methodological feasibility can be demonstrated, next steps will involve choosing suitable business applications that are of interest to all participants and consulting with network data providers and analysts on the feasibility of taking this forward.
- Covid-19 Hotspot Joint Biosecurity Centre Platform: The aim is to investigate how to setup a secure flexible analytical single platform for big data and data science collaboration. At ONS, the Covid-19 pandemic has shown the benefits of such an approach which merits investigating all aspects involved in setting up and further improve such a facility.
- User Research for Official Statistics: The activity focuses on concrete user-oriented research in an international context. It tries to find answers to questions such as Which are the users' problems we are trying to solve? What is our level of understanding of users and users' needs? Are we at edge of user research techniques available and used on the market? Further ideas for joint activities include developing a 'statistical personas' database, a research study on data journalists, and a toolkit to improve visibility in search engines.

⁵ The main reason is the lack of resources at the UNECE Management and Modernisation Unit that is supporting the work of the HLG-MOS



- **Rapid survey systems**: The COVID19 outbreak imposed many difficulties in regular data collection while at the same time policy makers needed more and different information. Successful implementations of rapid surveys systems to collect such timely and often new data of good quality and without overburden reporting units such as setup by Statistics Serbia, are worth sharing and common elements can be identified.
- From experimentation to implementation in official statistics: This activity will explore the environments of participating NSOs, the methods and technology they are adopting into their official statistics and the means they have used to make data science and analytics a part of the culture within their agency. The goal is to share experiences, lessons learned and open a discussion on ways to collaborate internationally to make it easier to adopt new methods and technologies within our own organizations in the future.
- Microdata for understanding declining response rates: NSOs across the world are facing the challenge of declining response rates, while demand for data is growing, and while admin data offers some reprise face-to-face interviewing will remain for a long-time to come; so it seems that sharing our experiences is critical if we are to deliver an effective and efficient service. The aim is to take research already done further and to support colleagues in their quest to get the microdata need to understand falling response rates⁶.

22. Depending on the interest of members and experts that are willing to get involved, topics might be worked out in detail or only receive a quick scan. The BSTN The Network will also monitor developments with respect to Statsbots and the International Working Group for Machine Learning that was setup as a pilot case of the Collaboration Platform concept proposed by the BSTN in 2020.

23. HLG-MOS members will continue to bring the Network to the attention of their national innovation groups and actively stimulate idea-generation for proposals to be submitted to the Network. To not only depend on proposals and ideas being brought to them, evaluate them and propose some to the Executive Board when they merit further consideration. The Network will actively engage with the statistical community to identify potential topics that merit further consideration.

Other Physical Meetings

24. As in the past, under the auspices of the HLG-MOS several Expert group meetings in several substantive areas. The focus is always on innovative developments and modernization. Another key output of these events is the identification of areas for future work and collaboration between countries. The target audience for these workshops includes senior and middle-level managers and they are organised by the UNECE secretariat in collaboration with expert Steering Committees. Due to the uncertainty with the Covid-19 pandemic, no meetings are planned for the first half of 2021. For the second half of 2021, the following physical meetings are being considered:

• Workshop on Statistical Data Dissemination and Communication

⁶ Survey Nonresponse Trends and Fieldwork Effort in the 21st Century: Results of an International Study across Countries and Surveys (Journal of Official Statistics, Vol. 36, No. 3, 2020, pp. 469–487, Annemieke Luiten, Joop Hox, and Edith de Leeuw)





- Workshop on Statistical Data Collection
- Expert Group on Statistical Data Confidentiality

25. These meetings are organized by Steering Committees and the programme will be aligned with the HLG-MOS activities where needed. The HLG-MOS Executive Board can also decide or the HLG-MOS can request to setup short, focused ad-hoc online workshops in emerging areas, for example, the Covid-19 response workshops organized in 2020.

Monitoring Progress and Coordination

26. The work of the Groups and Projects is reported on a monthly basis to the Executive board of the HLG-MOS. The Executive Board discusses the modernization updates and evaluates the progress together with the chairs of the groups and the project managers in their monthly meeting. If needed, the work program is adjusted. There is also a conscious effort to ensure that all activities are continuously aligned and coordinated with other international initiatives like the programs under the European Statistical System and the UN Global Platform. The modernisation updates are made available to the wider public every two months at the <u>ModernStats wiki</u> (<u>https://statswiki.unece.org/x/QY0HBg</u>).





Annex 1: 2020 Project Proposals

Business Case for Practical Guide to Synthetic Data

Type of Activity				
\boxtimes	New project		New activity	
	Extension of existing project		Extension of existing activity	
		These activities produce smaller, more detailed outputs to help achieve the HLG-MOS vision		

See here for more details: <u>https://statswiki.unece.org/x/nwEzCw</u>

Purpose

Data has become a valuable commodity, providing information for statisticians, economists, and data scientists to generate more timely and granular insights. National statistical offices (NSOs) are striving to provide greater transparency and openness and so are looking to expand safely sharing of data, expertise and best practices both internally as well as with external partners. In addition, different types of users are increasingly searching for quality data sets to support testing, evaluation, education and development purposes. These aspects provide more value to users and bring the need to uphold data integrity and confidentiality to the forefront.

The demands for timely, integrated data compiled from ever-growing sources of increased complexity, along with the unequivocal commitment to trusted data protection call for a modernized, interoperable approach to mobilizing these large and complex data sources. Synthetic data can be a solution to providing rich data while respecting integrity and confidentiality imperatives.

Synthetic data can find its roots in edit and imputation methods, however synthetic data uses are becoming broader and increasing in complexity. New methods are emerging for generating and evaluating confidentiality of synthetic data, and more guidance is needed to maximize utility while ensuring confidentiality. Utility is seen as the value that a data set brings to a particular usage, for example, systems testing or model testing. Increasingly, utility also encompasses the desire that distributions or results of the synthetic data closely approximate those found in the real data. For example, extracting more detailed insights using increasingly big data sets requires new methods such as machine learning and modeling techniques. The integrity of these new methods requires that, as much as possible, data sets (both those from survey or non-survey sources) preserve the structure, characteristics and often the distributions of the original data as much as possible. However, the more closely the synthetic data set emulates the real data, the higher the risk that confidential information in the original data set could be disclosed. As governments become more open with their data and work, the confidentiality aspect remains a top priority. Once properly explored and understood, synthetic data can play an important role in the way that NSOs share data while maintaining public trust.

Synthetic data is a relatively new topic, particularly its use by NSOs. A better understanding of not only the theoretical methods of how to create synthetic data are needed, but an international consensus on practical applications and best practices is required for consistency, transparency and comparability within statistical agencies, and with users in academia and the private sector. Additionally, in order for synthetic data to be a viable option for NSOs to distribute and disseminate microdata, clear methods of communication on the utility and risk of using this type of data must be well available to stakeholders and users. In order for





synthetic data to be used to its potential, an international consensus on practical methods and uses must be achieved.

Description of the project

Building on the success and network of the Blue Sky Thinking Network's Working Group on Synthetic Data, 'the practical guide to synthetic data' project sets out to develop a hands-on guide for creating and using synthetic data primarily geared towards data protection and disclosure control. The target audience of this guide includes NSOs as well as their clients such as academia, the private sector and the general public. The guide will focus on how to use synthetic data in practical applications, considerations for implementation, and important aspects to share with users. This guide can serve as the foundation for future standards as synthetic data is more broadly adopted within NSOs and by their users.

The project will be divided into four work packages, with the scoping work already completed through the Working Group on Synthetic Data.

WP1: Use cases for synthetic data: The methods and measures of synthetic data are highly dependent on the reason for using synthetic data. The Working Group on Synthetic Data has identified four broad categories of uses for synthetic data: public data release, testing analysis, training and testing technology. This work package will detail the use case categories and highlight their specific methodology and measure requirements.

WP2: Recommended methods for creating synthetic data: This work package will gather an inventory of methods for creating synthetic data both currently in use and in research. The core outcome of this work package will be the assessment of the inventory of methods and recommendations on the methods suitable for different use cases of synthetic data.

WP3: Measuring the analytical value and/or disclosure risk of synthetic data sets: This work package will gather an inventory of utility and disclosure risk measures. This work will outline the circumstances in which the measures apply, associate them with the use case categories and provide clear explanations of what the measures signify and how they should be interpreted by those that create the synthetic data sets and those that use them.

WP4: Experimenting with the recommendations: Since the focus of this guide is on practical applications of synthetic data, this final work package will test the recommendations of the guide with real life scenarios of synthetic data. Activities will include pilot projects from NSOs, presentations geared towards user needs and hands-on events such as hackathons or training workshops.

Alternatives considered

The work to build consensus and understanding of creating and using synthetic data could continue as a Blue Sky Thinking Network (BSTN) working group, however with membership over25 participants, spanning 9 national statistics offices, academia and the private sector, this initiative has outgrown the scope of the BSTN. In addition, the target audience for synthetic data and the planned products are beyond the current methods of BSTN communication. A formal project would provide the proper scope, oversight and communications for the intended deliverables.

How does it relate to the HLG-MOS vision and other activities under the HLG-MOS?

The Synthetic Data project relates to all HLG-MOS visions and values by creating a collaborative initiative to promote sound methods and practices of synthetic data while upholding statistical integrity of those methods and the confidentiality of the data in question.

Proposed start and end dates

Start: January 2021

End: December 2021





Business Case for Input Privacy-preserving Techniques

Type of Activity					
	New project		New activity		
\boxtimes	Extension of existing project		Extension of existing activity		
The project is an extension of the 2020 Input Privacy-Preserving Techniques project sponsored by the HLG- MOS.					
For an overview of the progress of the current IPP project, refer to the meeting documents:					
https://statswiki.unece.org/display/IPPP/Meeting+Documents					
Purpose					
Statistical organizations are more and more investing on becoming part of a data ecosystem where they acquire and integrate data from multiple sources and provide richer statistical products.					
In this scenario, the issue of privacy preservation is particularly relevant: the more sources are acquired and integrated, the higher are the risks of disclosing information violating individual privacy rights. Hence, from a legislative perspective there are indications to take privacy into account throughout the whole data treatment process, through the 'privacy by design' concept.					
National Statistical Organizations (NSOs) are used to apply techniques for enforcing privacy by design on the output side , i.e. when publishing aggregated statistical data for dissemination purposes and when sharing microdata for research purposes with statistical disclosure control (SDC) and other output privacy-preserving techniques.					
However, NSOs have still to invest on dealing with privacy protection on the input side , in a complementary but distinct way with respect to output privacy preservation investments ⁷ .					
Different classes of techniques can be used to deal with input privacy ⁸ . Among them Secure Multiparty Computation (SMC) and Homomorphic Encryption (HE) play a relevant role.					
These methods are particularly suitable for use in a non-trusted environments such as access to private data, interconnectivity of highly sensitive data for the purpose of scientific research, data analytics in Cloud and AI. The goal of this project is to investigate statistical use cases that require protection on the input side, assess and determine applicability of selected classes of techniques for main scenarios, identify opportunities for sharing across statistical community and create community of practice across statistical organizations and external partners (academia, private sector).					
Description of the activity					

¹ F. Ricciato, A. Bujnowska, A. Wirthmann, M. Hahn, E. Barredo-Capelot, A reflection on privacy and data confidentiality in Official Statistics, ISI 2019. ⁸ UN Handbook on Privacy-Preserving Computation Techniques, <u>http://publications.officialstatistics.org/handbooks/privacy-preserving-techniques-handbook/UN%20Handbook%20for%20Privacy-Preserving%20Techniques.pdf</u>





After a late start, a number of use cases in the field of input Privacy-preserving techniques were inventoried and documented in 2020. In 2021, the focus will be on gathering experiences from generalized use cases. External technical audiences will be called for help. The following work packages have been identified:

- WP1: To document, generalize and prioritize the use-cases: New participants will bring new use-cases that will be added to the inventory and possibly generalized. A subset of most prominent use-cases will be identified. Reference scenarios that are relevant for different types of source data and/or different NSOs will be drafted and prioritized for follow-up action in WP2.
- WP2: Setup and test the use-cases: For selected use-cases (or groups thereof) that are amenable to be implemented with different technology approaches, set up benchmarking instances and compare different technological solutions. For use-cases for which a broader spectrum of technological solutions, is available, we will launch wider call for proposed options from external technical audiences. Use-case testing and comparison of different solutions based on benchmark conditions (e.g. with synthetic test data) will be conducted, considering the technology aspect jointly with organizational, business and legal aspects. Due to the complexity of this WP, it will be possible to structure WP2 into distinct substreams running in parallel.
- WP3: Lessons learned: The experiences from WP1 and WP2, will be used to make clear recommendations of which techniques are most suitable in which cases and where such techniques are not applicable. Although the focus will be on technical and methodological aspects of implementation in official statistics, lessons learned and recommendations with respect to organizational, business, and legal aspects will be documented as well.



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Annex 2: 2021 Structure of the HLG-MOS

