November-December 2019

Machine Learning

Progress

- A draft background document on the progress of the project and a proposal to extend it was written for the Workshop on Modernisation. Team members will have time to provide comments, changes and additions to the document that will then become a end of year report that will be delivered early in January 2020.
- A half-day meeting attended by 10 team members, some via Webex, took place on November 18.
  - Proposed project outputs and timelines were discussed and approved by work package and pilot study theme leaders.
  - The scope and definition of Work Package 3 on Integration of Machine Learning in Organisations was discussed, clarified and agreed.
  - A study on the use of ML to interpret aerial photos and combine them with satellite images was presented by the Switzerland Federal Statistical Office.
- Developments and results on pilot studies continue to be presented and discussed at the monthly update meeting. In November (25 attendees), Imputation of energy statistics at VITO was the topic. Following the discussion, the potential for this project to produce a shared dataset to practice and learn ML in the context of official statistics. In December (29 attendees), the Aeriel Imagery - Australia.pptx at the ABS was the topic. It may lead to collaboration with the Switzerland who are experimenting with ML for a similar purpose.
- Following suggestions expressed in discussions at the September sprint in Belgrade, some pilot studies have improved the results obtained with the use of ML. Some pilot study results are being presented to senior management in participating organisations.
- Some pilots studies and their results have been presented at Geo Week in Canberra and the Istat Advisory committee. Most of the pilot studies on E&I have been submitted to the UNECE Workshop on Statistical Data Editing.
- Following the November workshop and its support on the extension of the ML project, a review of participants was initiated. The vast majority of the team members have confirmed their engagement in the project. Several organisations have joined the project (Statistics Sweden, INSEE. Statistics New Zealand) and a few more people from participating organisations have joined the project as active members and collaborators/followers. After the review, some participants will be disconnected from the project. Other collaborations are being established.
- Istat have proposed a new pilot study on using ML to edit administrative data. This is a good addition and complement to the other studies on ML for E&I.
- The project's planned outputs and delivery dates have been established. A Plans for 2020 page has been initiated. More information will be provided in the next weeks.

Next Steps

- Complete the review of project participants, including the addition of new participants
- Identify the space where the project outputs will be shared. Discussions on the possibility of using the Global Working Group - Global Platform have resumed.
- Finalize the scope and planned activities for the work package on organisational aspects in the integration of ML.
- Finalize and communicate the expected content and structure of the pilot study reports due at the end of February
- Organize a sprint to be held likely in early April (between two key delivery dates)

Risks and Issues

<table>
<thead>
<tr>
<th>Issue</th>
<th>Mitigation</th>
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| Satisfying the needs and expectations of new participants and organisations, while ensuring the timely delivery the outputs based on all the work currently in progress. | • Strong continued engagement and focus from participants  
• Clear communication of expectations from new participants  
• Allow for review of outputs as any new work progresses and highlight new results, best practices, etc. |

Strategic Communication Framework phase 2
Progress

The content for the three work packages has been completed and produced in the two remaining components of the Strategic Communications Framework for Statistical Institutions. The two documents, Stakeholder Engagement and Internal Communications, were presented to the HLG-MOS Workshop in November. The presentation was well received and excellent comments during the discussion will be incorporated in the final update.

The documents are currently in the final editing stage as the project team members await comments from the HLG-MOS Executive Committee. Once this process is completed the documents will be updated and prepared for consultation with CES member countries.

Next Steps

Project members continue to seek additional case studies to include in the final output.

Documents will be updated with input received from the HLG-MOS Executive Committee. Once the consultation with CES member countries is completed, the final documents will be prepared for presentation to the CES in Summer 2020.

The communications work will continue under the direction of the Developing Organizational Resilience Working Group. Strategic Communications Project members have been encouraged to join this working group to ensure continuity and knowledge transfer. To date, the Project manager has received positive feedback from members regarding continued commitment to the HLG-MOS work and several will likely join the working group.

The project members have also been encouraged to participate in the virtual sprint (should it take place) to identify priority work for 2020 for the Developing Organizational Resilience Working Group. The project team is developing a list of activities to support the continued development of the Framework to be considered during this sprint session.

Risks and Issues

There is a risk that the excellent work of the communications community looses momentum now that project has ended. There is also a risk that the knowledge gained during the two-year project will disappear and the Framework will not evolve as a living document.

To mitigate these risks, all members of the project team have been encouraged to continue their participation by joining the Developing Organizational Resilience Working Group. Also, with endorsement by the CES of all components for the Framework, it will receive broader support and exposure internationally. The working group should continue to gather case studies of countries using the Strategic Framework to show how the framework is applied in various statistical environments.

<table>
<thead>
<tr>
<th>News from the Groups</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Blue-skies Thinking</strong></td>
</tr>
<tr>
<td>Unknown Attachment</td>
</tr>
<tr>
<td><strong>Other</strong></td>
</tr>
<tr>
<td>Follow-up selected topics</td>
</tr>
<tr>
<td>Identifying Topics</td>
</tr>
</tbody>
</table>
### Developing Organisational Capability

**Skills and Capability Framework**

As far as you know we will be merged with communication group. So we need to discuss and prioritize our activities. The former DOC group presented several activities proposals during November workshop. It was decided that in January or at latest at early February we will have sprint session together with communication colleagues. After this event it will be possible to indicate our activities for 2020. For sure we will organize two workshops (on communication and on HRMT) in September in Lisbon with one common day.

The majority of DOC group participants confirmed their participation for next year. As for communication experts we will have still wait for their confirmation as communication project phase 2 was concluded.

### Promotion Forum

**In Progress**

See above

### Setting vision in NSOs

**In Progress**

See above

### Culture Evolution Workshop

**Finished**

### Other

### Supporting Standards

#### Linking GSBPM and GSIM

The task team is finalising a document describing the work done in 2019.

The mapping has been done for GSBPM sub-processes of phase 5 “Process” according to a conceptual schema and definitions developed by the task team. The mapping is done at two different levels of GSIM: a) a more conceptual level, corresponding to the specification level in GSIM; b) a less conceptual level, corresponding to the execution level in GSIM.

The work done was presented at the HLG Workshop in November.

The task team will continue its work in 2020.

#### Core Ontology

A first version of the ontology was presented at the HLG meeting in November and will then submitted to public review.

The task team will complete its work during 2020.

#### Alignment GSBPM and GAMSO

The task team has concluded its activities.

The achieved results are described in the document **A model to support the synergistic implementation of GAMSO Activities and GSBPM Overarching Processes**

The activities done and the achieved results were presented at the HLG Workshop in November.
<table>
<thead>
<tr>
<th>Issue</th>
<th>Status</th>
<th>Description</th>
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<tbody>
<tr>
<td>Metadata Glossary</td>
<td>IN PROGRESS</td>
<td>The work is on-going at a regular pace both through web meetings and off line work. The task team is currently reviewing the definitions for GSIM v1.2 information objects. In case a definition shows some inconsistency or need for revision, the task team provides suggestions for changes but do not actually change them. The activity was presented at the HLG Workshop in November. The task team will continue its work in 2020 and plans to conclude it by April 2020.</td>
</tr>
<tr>
<td>Sharing Tools</td>
<td>IN PROGRESS</td>
<td>The online version of CSPA 2.0 will be ready by the end of this year. It will be saved as a word document as well. The next step will be to submit it to the Bureau of the CES to decide how it can be endorsed by the CES. The CSPA 2.0 will not be a static document. The foundational part will be relatively stable but for example the application architecture part needs continuous updates to incorporate new developments in IT/Architecture. We will therefore include a roadmap for future updates to keep it up to date with recent developments. The Wiki version will be turned into a Word document as well. The aim is to create an interactive version that can be navigated easily depending on your level and role. It will be aligned with the work done under the ESS Sharing Tools project. The building representation from Jakobs (Prezi) presentation might be a good structure to be used for this.</td>
</tr>
<tr>
<td>Adding Services to Catalogue</td>
<td>IN PROGRESS</td>
<td>The CSPA catalogue now has over 30 services listed. The Sharing Tools group will keep on adding services and assist others to do so.</td>
</tr>
<tr>
<td>Communication restarting CSPA</td>
<td>POSTPONED</td>
<td>Postponed to 2020. Depends on the availability of communication experts as well. Rosemary McGrath will step down as a chair by the end of 2019. The group is still looking for a new chair (or co-chairs).</td>
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**Other**

<table>
<thead>
<tr>
<th>Event</th>
<th>Details</th>
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<tbody>
<tr>
<td>HLG-MOS (3 March, NYC)</td>
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<tr>
<td>Strategic Communication sprint (30 April-2 May, Geneva)</td>
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<td>Machine Learning Sprint (13-15 May, UK)</td>
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<td>Date Integration Workshop (21-23 May, Belgrade)</td>
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<td>Strategic Communication Sprint 2 (10-11 June, Gdansk)</td>
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<td>DissComm Workshop (12-14 June, Gdansk)</td>
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<td>ModernStats World Workshop (28 June, Geneva)</td>
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