GOSC Working Groups: Introduction and Discussion

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Global Open Science Cloud (GOSC) Working Groups

- Thematic Working Groups and Domain Case Studies
- Mechanisms for encouraging communication, sharing of information, cooperation and ultimately alignment and interoperability (where needed).
- Regular interactions between the WGs and Case Studies.

- Four initial WGs, exploring key topics of shared concern:
  1. Strategy, governance and sustainability.
  2. Policy and legal.
  3. Technical infrastructure.
  4. Data interoperability.
Possible GOSC Working Group Activities

- **Understanding the landscape**: information sharing, what are the various OSC initiatives doing in this space?
- **Identifying the challenges**: what are the major issues and challenges from the perspectives of the various OSCs? Identify shared and different perspectives.
  - Output: Landscape report and presentation of challenges to be addressed?
- **Ideate possible solutions**: Discuss and brainstorm possible solutions and outputs.
- **Test and refine solutions**: Workshops, feedback on draft documents, recommendations.
  - Output: Recommendations to encourage cooperation and alignment?
Suggested GOSC Working Group Timeline

1. From 28 June 2021: WGs and Case Studies formed, co-chairs identified and approved by the GOSC SG, outputs scoped.


3. Oct 2021: EGI Conference (fully virtual), WGs and Case Studies (where on appropriate topics) report on and communicate activities to global eInfrastructure community.

4. June 2022: GOSC Workshops as part of International Data Week 2022, Seoul, Republic of Korea. WGs report on progress and outputs.

5. Sep 2020: International Symposium on Open Science Cloud, Beijing, China (TBC). WGs reports on progress and outputs.

6. Oct 2022: GOSC Workshops as part of 2nd FAIR Convergence Symposium, Leiden, Netherlands. Selected presentations on WGs progress.

7. Q4 2022: EGI Conference, report on progress and outputs to global eInfrastructure community.

8. Q2 2023 (TBC): WG report on final outputs as part of International Symposium on Open Science Clouds. WGs renewed, redirected or retired.
Strategy, Governance and Sustainability

- OSCs have shared challenges of governance, funding, sustainability, rules of participation, inclusivity, making their value proposition, and engagement with researchers and existing research infrastructures and other e-infrastructures.
- Exchange of information and experience.
- Identify topics to explore in more detail.
- Possible initial questions:
  - What are the governance and accountability structures?
  - What are the mechanisms for funding core OSC infrastructures?
  - How does the OSC present its value proposition in order to sustain operations?
  - What are the rules of engagement for public and private institutions?
- Initial contacts: Yu CHEN, CNIC, cy@cnic.cn; Hana Pergl, CODATA, hana@codata.org
Policy and Legal

- Building on many international policy and legal statements.
- Interest among OSCs to share experiences in policy development, legal issues.
- Potentially also to seek alignment of their policies, and even legal frameworks.
- Exchange of information and experience.
- Identify topics to explore in more detail.
- Possible initial questions:
  - What are the key policy instruments adopted by the OSCs?
  - To what extent do these align and do they map well to major international statements of principle or policy?
  - Are there any areas of policy misalignment that could hamper cooperation among OSCs and projects supported by OSCs?
  - What are the most significant issues of legal interoperability to be addressed?
- Initial contacts: Mark Leggott, CODATA Data Policy Committee, RDA Council, NDRIO mark.leggott@rdc-drc.ca; Lili ZHANG, CNIC, zhll@cnic.cn; Paul Uhlir, Consultant, pfuhlir@gmail.com
Technical Infrastructure

- Open Science Clouds necessarily build on existing global e-infrastructures, including provision of high-speed academic networks, high performance computing, cloud computing, and so on.
- Build on existing collaborations between these e-infrastructures.
- Identify topics to explore in more detail.
- Possible initial topics:
  - Network connectivity and protocols
  - Secure Authentication and Authorization Infrastructure (AAI)
  - Mechanisms for federation of computing and other services
  - Many others!
- Initial co-chairs: LI Jianhui, CNIC, lijh@cnic.cn; Mark Dietrich, EGI, mark.dietrich@egi.eu
- Initial contact: Yin CHEN, EGI, yin.chen@egi.eu
Data Interoperability

- Among the objectives of OSC initiatives is to provide infrastructure to support interoperability within and across domains.
- Building on existing RIs and supporting new cross-domain research areas.
- Exchange of information and experience.
- Identify topics to explore in more detail.
- Possible initial topics:
  - The emerging FAIR Digital Object Framework
  - The use of structural and provenance metadata to facilitate machine-actionability across data
  - The alignment and development of good FAIR practice for semantic artefacts (including scientific vocabularies)
  - The need for systematic approaches that ensure reusability of cross-walks etc.

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Discussion!

- Responses to the approach?
- Suggestions for the scope of these WGs, questions to be tackled?
- Volunteers as co-chairs and participants?