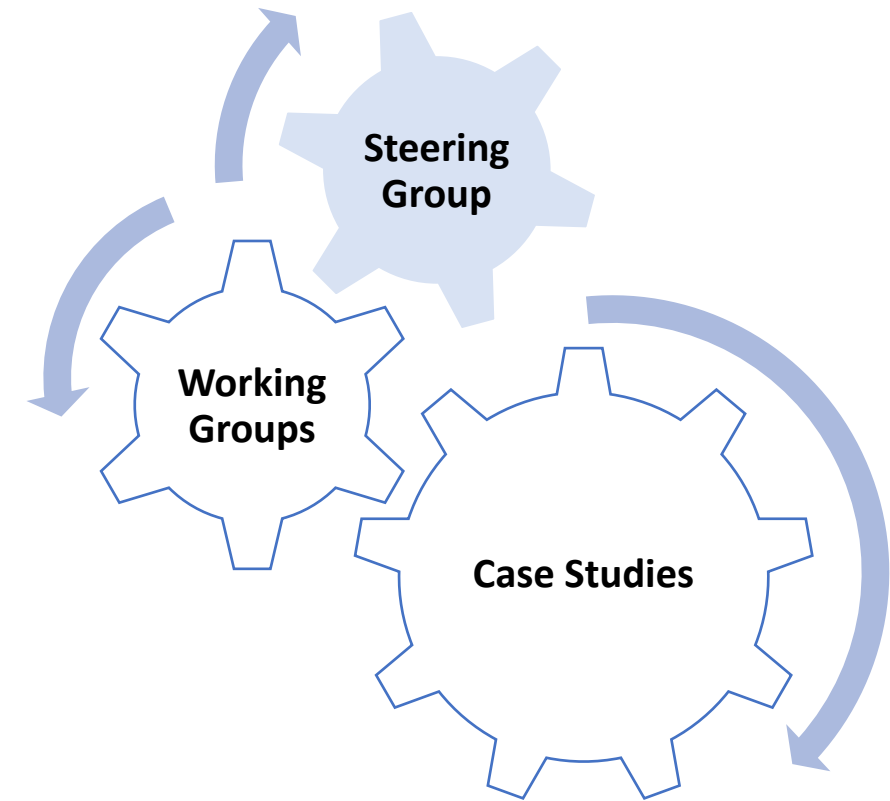# GOSC Working Groups:
Introduction and Discussion

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28 June 2021

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.

2. **Oct-Nov 2021: GOSC Workshops as part of fully virtual SciDataCon 2021.** WGs and Case Studies discuss and refine their mission, objectives, planned outputs and progress *and*

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.

- Initial contacts: Simon Hodson, CODATA, simon@codata.org; Lianglin HU, CNIC, hull@cnic.cn

Discussion!

- Responses to the approach?

- Suggestions for the scope of these WGs, questions to be tackled?

- Volunteers as co-chairs and participants?

- Information about the GOSC initiatives, WGs and Case Studies: https://bit.ly/GOSC-Information

- Sign up at: https://bit.ly/GOSC-Sign-Up