



CERN Open Science Policy

Background, elements and implementation

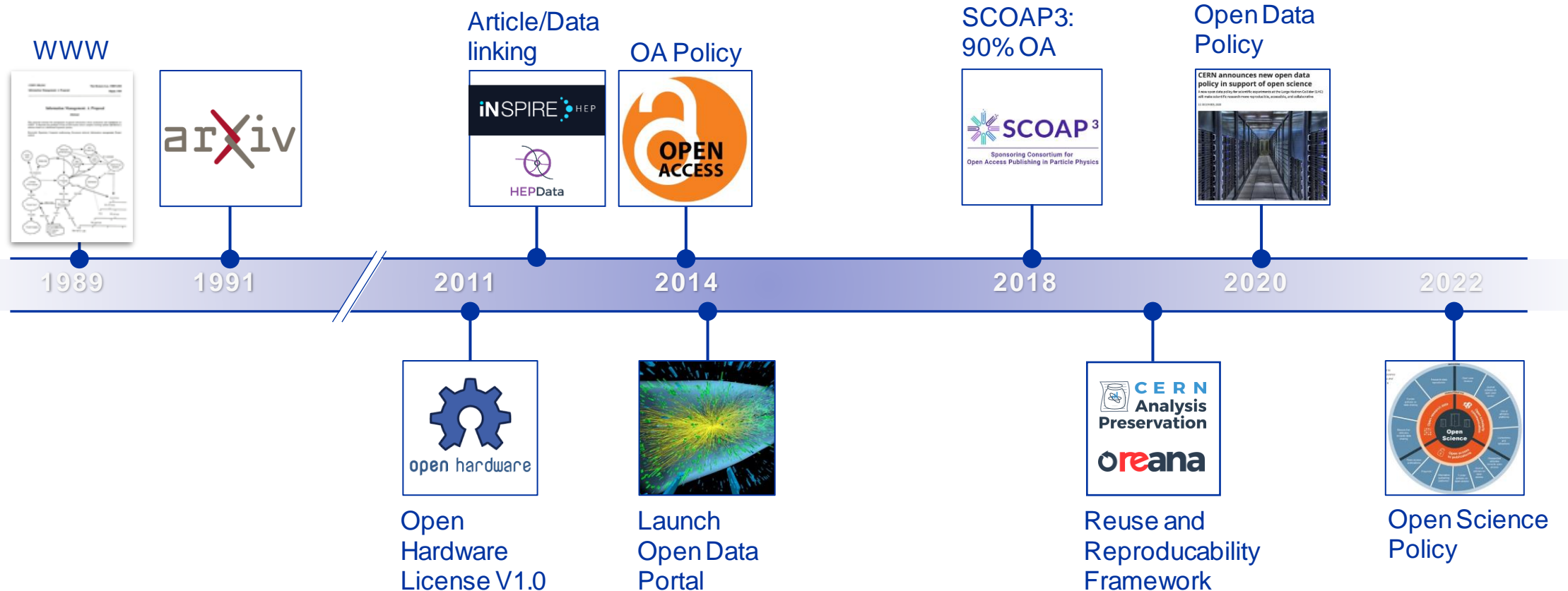
Sünje Dallmeier-Tiessen, Alex Kohls, Kamran Naim and many others at CERN

January 2023, Helmholtz Open Science Online Seminar

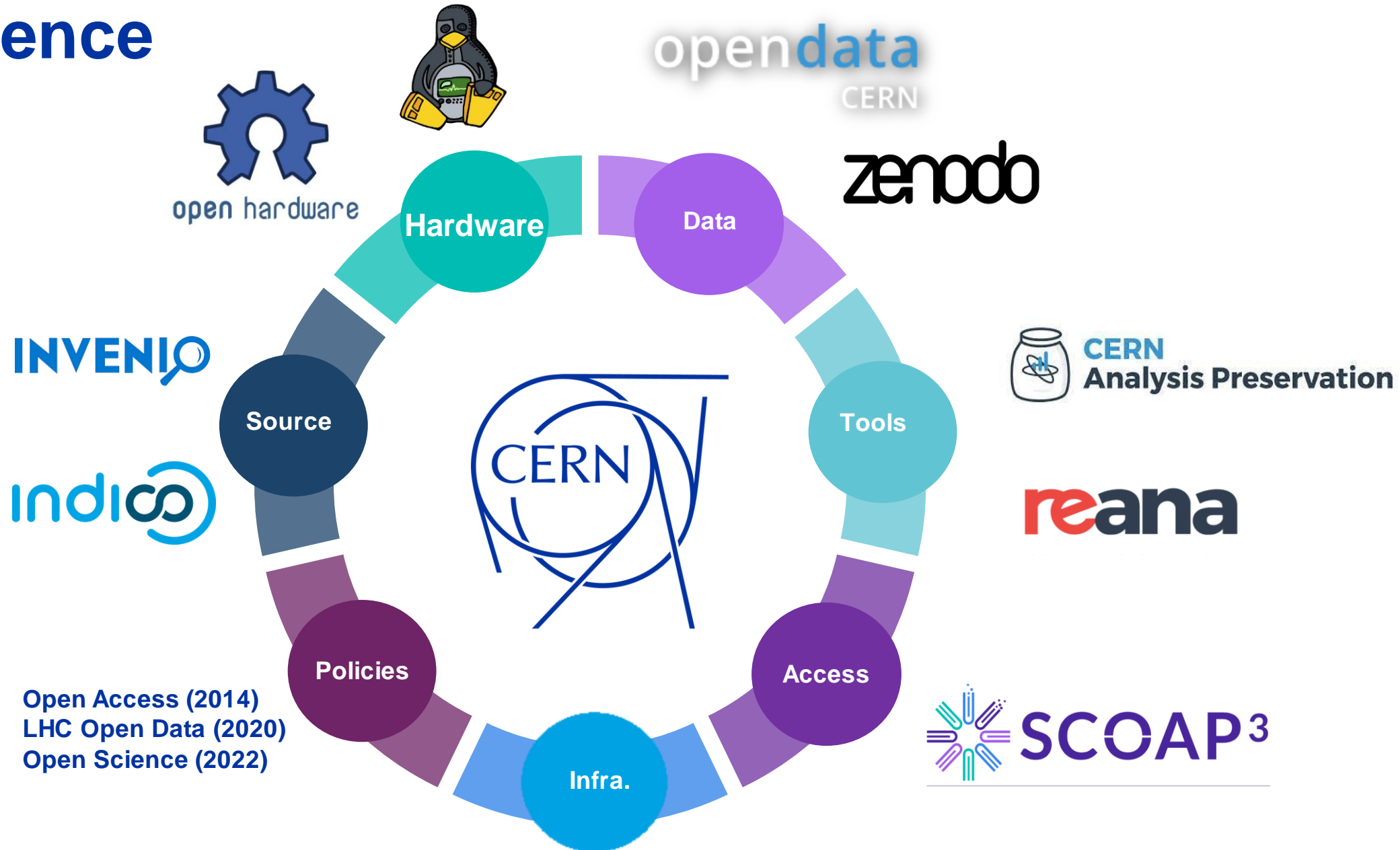
Agenda

- 1 | Background
- 2 | Open Science Policy
- 3 | Implementation

CERN – on the path to universal Open Science



Open Science at CERN



Policy framework for Open Science at CERN

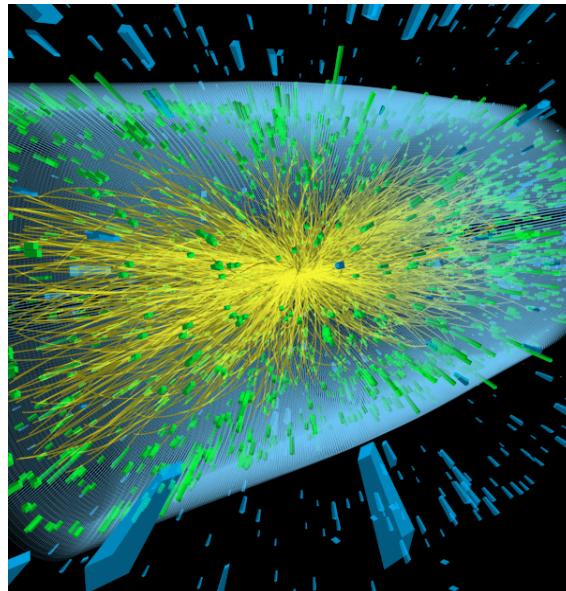
CERN Open Access Policy (2014)

- All CERN research articles published OA (CC-BY)
- Central fund available
- Different routes (SCOAP³, Read & Publish, APC payment)



LHC Open Data Policy (2020)

- 4 LHC collaborations will release all level 3 data (+ level 1 and 2)
- Gradual release will start ~5 years after collection
- Other experiments to follow



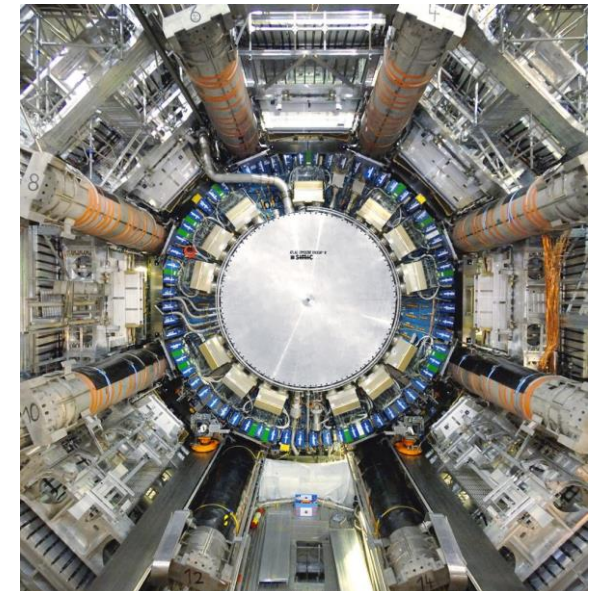
CERN Open Science Policy (2022)

- Open... ○ Access ○ Hardware ○ Data ○ Software
- Reusability & reproducibility
- Research Assessment
- Education & Outreach



Funder Open Science Policies

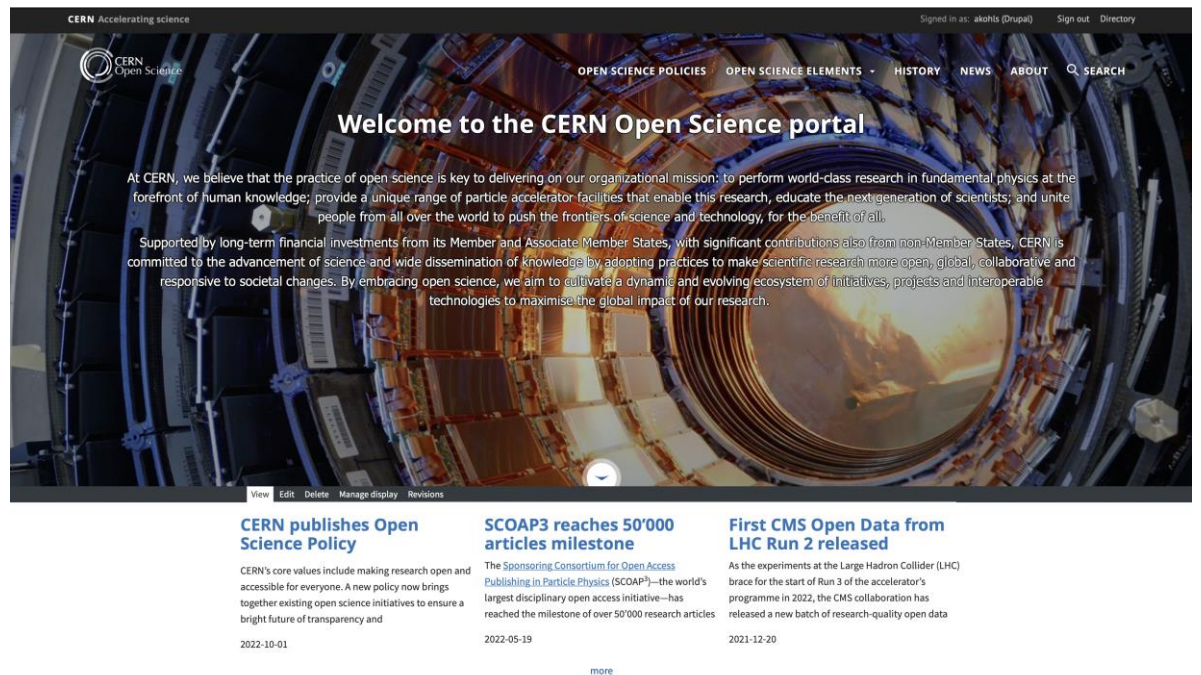
- Funding agencies supporting experimental collaborations have specific open data requirements
- CERN will establish central support office for compliance



October 2022: CERN Open Science Policy in place

After 12 months of consultations and collaborative drafting, CERN's first institutional Open Science Policy was formally adopted.

- August/September: Presentations and discussions with directorate
- 29th September: Policy presented to CERN Council
- 1st October: Policy formally in place



More information: <https://openscience.cern>

CERN Open Science Policy

- **Captures current practice and states progressive vision across multiple Open Science domains:**
 - Open Access to Publications
 - Open Research Data
 - Open Software
 - Open Hardware
 - Research Integrity, Reuse & Reproducibility
 - Infrastructure for Open Science
 - Research Assessment & Evaluation
 - Education, Training & Outreach
 - Citizen Science
- **Policy to be regularly updated to reflect changes in landscape, practices, funder requirements & community demands**
- **Policy and its implementation plan are developed and governed by the community.**
- **V1.0, Oct 2022: <https://cds.cern.ch/record/2835057>**

Implementation Plan to support the policy

- **Actionable measures to support the policy's implementation across the organization and in the experiments@CERN**
- **Each chapter with editors/shepherds of the OSWG, but everyone within the WG could contribute to the development of each part**
- **Draft reviewed by member of directorate. Revision submitted.**
- **Challenges:**
 - Domains vary in their maturity and adoption. Different measures needed from grassroots activities to fully operational services
 - Different mandates, histories and understandings of topics
 - Roles, responsibilities, funding and sustainability
 - How to scale and coordinate the measures over the course of the next two years?

Conclusion

- **Open Science Policy since October 2022**
- **V1.1 of a corresponding implementation plan completed**
 - Will be openly accessible as well
 - Versioned implementation plan
- **Roadmap ahead is ambitious and requires coordination and (new) collaboration on almost all topics of the policy**



Thank you!

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