The Digital Revolution: Scientific Infrastructure for SDGs

Geoffrey Boulton

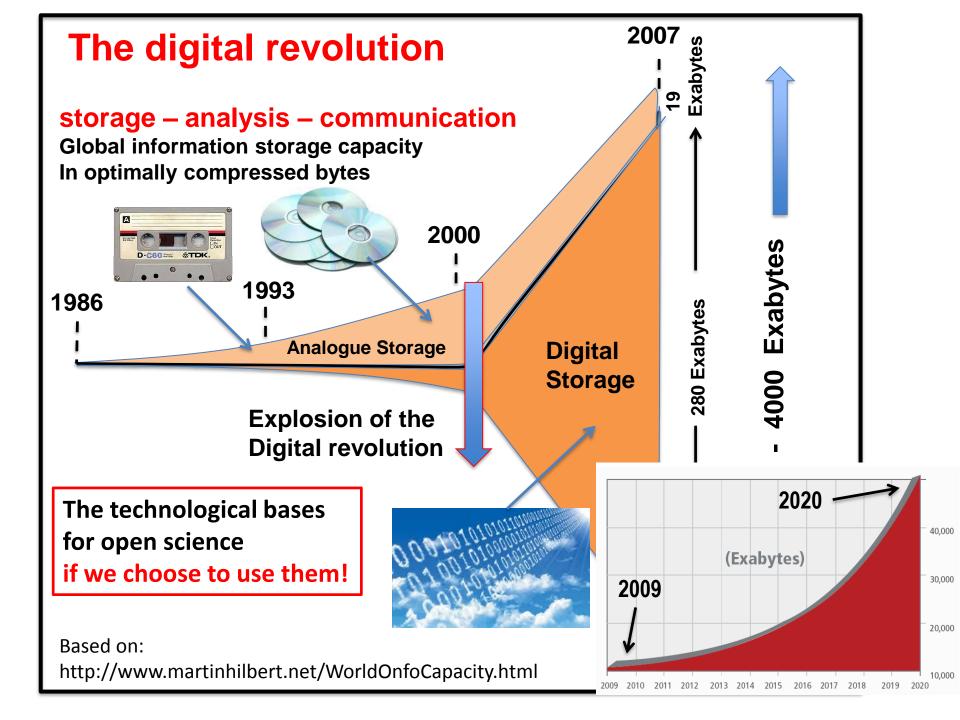
ICSU-CODATA & Edinburgh University

International Council for Science (ICSU)



Committee on Data for Science & Technology (CODATA)





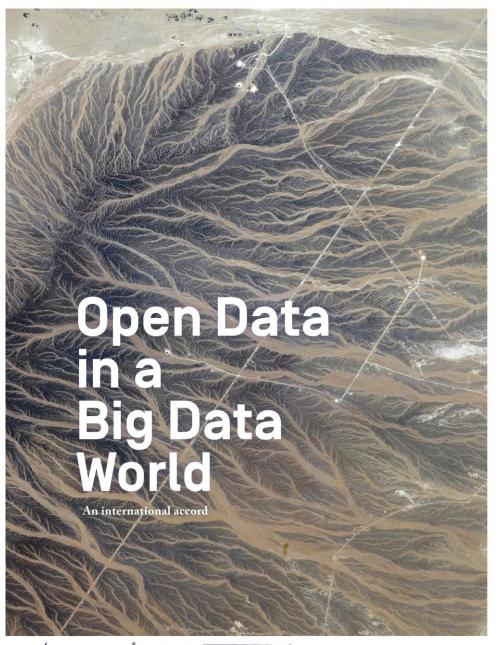
Accord:

Principles, policies, practices for the digital revolution

(www.icsu.org/science-international)

Science International

International Council for Science International Social Science Council The World Academy of Sciences The Inter-Academy Partnership







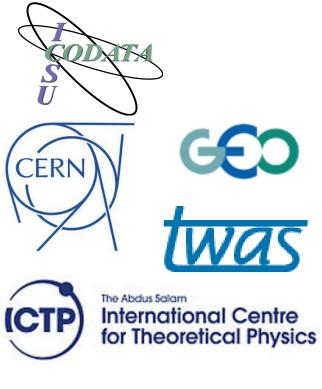




Open Science Platforms for Africa & Latin America

Digital ecosystems to:

- Develop capacities
- Policies, practices, services
- Shared computing resources (the cloud)
- Software tools
- Analytic approaches
- Networking with the international community for mutual support in best practice and innovation







DATA CARPENTRY

MAKING DATA SCIENCE MORE EFFICIENT

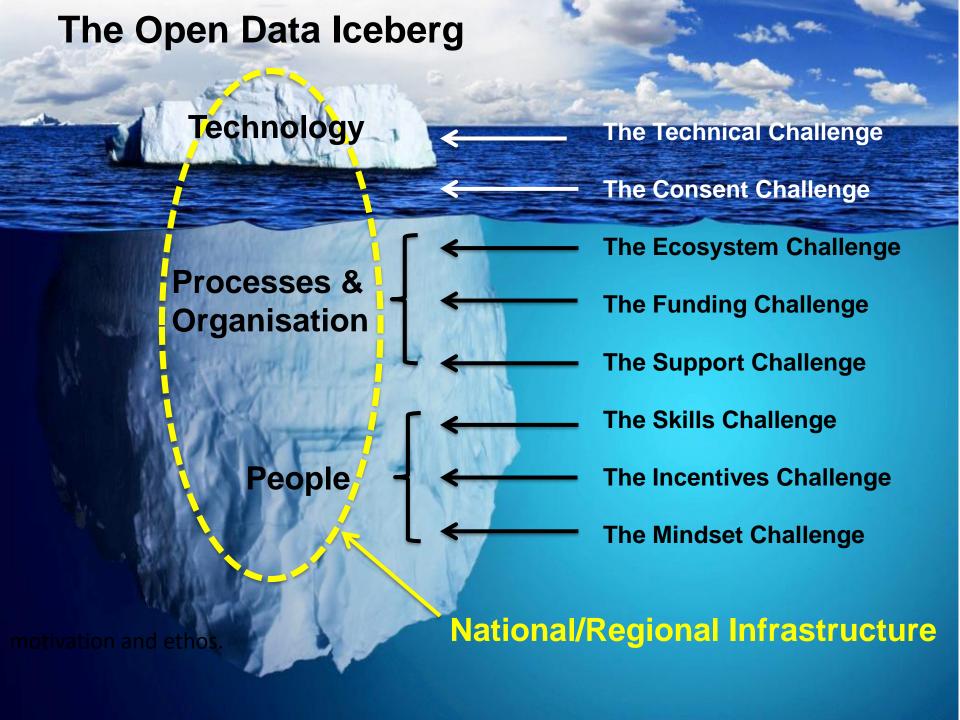


Research Data Science Short Courses Africa



CODATA-RDA Research Data Science Science Short Courses are:

- Address a recognised need: provide additional training in core data skills for PG and Early Career researchers, research support.
- Be Scalable and Global: work with partners internationally, open materials, training new teachers to create a network of schools: annual hub at Trieste, feeds the skills to put on schools at institutions worldwide.
- Provide a Pathway for Specialisation: introductory school in core data skills, then an advanced school or specialised school for specific disciplines.
- **Be Sustainable:** developing a business model with colleagues at the Cologne Business School, based on hub and node model with distributed funding.
- Accredited and Quality Course: working with EDISON and others to ensure that the course meets recognised objectives and can be mapped to credit systems.
- http://www.codata.org/working-groups/research-datascience-summer-schools



Take-home messages for the STI Forum

- 1. The Science Community is contributing its energies and skills to build SDG-relevant capacities. We know how to do it.
- 2. But high level, multi-stakeholder engagement is now needed.
- 3. Consortia of funders are needed to contribute to scaled-up roll-out.
- 4. Can the UN help? Technology Facilitation Mechanism as a means of engaging with member states?