WIR SCHAFFEN WISSEN – HEUTE FÜR MORGEN

Alun Ashton

Overview of ETH - ORD initiative goals and governance¶

ETH Open Research Data@PSI Information event

https://indico.psi.ch/event/12111/

ETH Open Research Data@PSI Information event

📅 Friday 14 Jan 2022, 10:00 → 12:00 Europe/Zurich

📍 https://psich.zoom.us/j/65613962214

📎 📄 ETH_ORD_Preanno... 🔗 Zoom Link

| 10:00 | → 10:15 | **Overview of ETH - ORD initiative goals and governance** | 🕐 15m |
| | | Speaker: Alun Ashton (PSI - Paul Scherrer Institut) | |

| 10:15 | → 10:35 | **Measure 2, 3, 4 and 5** | 🕐 20m |
| | | Speakers: Leonardo Sala (PSI - Paul Scherrer Institut), Spencer Edward Bliven (PSI - Paul Scherrer Institut), Alun Ashton (PSI - Paul Scherrer Institut) | |

| 10:35 | → 11:00 | **Measure 1, call, process for PSI, eligibility.....** | 🕐 25m |
| | | Speakers: Maarten Nachtegaal (PSI - Paul Scherrer Institut), Uwe Filges (PSI - Paul Scherrer Institut), Alun Ashton (PSI - Paul Scherrer Institut) | |

| 11:00 | → 11:20 | **Open Questions** | 🕐 20m |

| 11:20 | → 12:00 | **Breakout/In-depth disscussion** | 🕐 40m |
| | | Please request in advance. | |

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Gerd Mann:: Head IT:: Paul Scherrer Institut

Research Data Management @ PSI Governance and Directive

2022-01-14 ETH ORD Information Event

- DIRK has established following governance structures for RDM and ORD
  - Overall responsibility with DIRK
  - Steering Committee
    - Representative of DIRK: Alex Amato (Lead of SteCo)
    - Representatives of Facilities
      and Labs: Oliver Bunk (SLS)
                                     Michel Kenzelmann (SINQ),
                                     Andreas Suter (SµS),
                                     Klaus Kirch (CHRISP),
                                     Markus Ammann (ENE)
                                     Gregor Cicchetti (BIO)
                                     Didier Gavillet (NES)
    - Science IT: Alun Ashton
    - Coordination: Gerd Mann (Head IT) until 02/2022
    - Support and external liaison: Michèle Erat (Directors Staff)

DIRK Mandate and Update RDM Directive

- DIRK Mandate to RMD SteCo
  - Vision and targets for data curation and reuse of data defined
    - Data policy updated and related processes and tools established
    - Responsibilities for data curation and ORD assigned
  - Ensure RDM and ORD service are provided for LSRFs and "other Labs"
  - Ensure compliance with directive

- Update RDM Directive
  - Substantial update of the data policy from 2016. Main points are:
    - Shift the focus from the data related to large scale facilities to research data in general.
    - Reflect the Open Research Data requirements defined by SNF and other funding agencies (not existing in 2016).
    - Define processes with roles and responsibilities more clearly.
    - Pick up developments at other institutions (e.g. first Research Data Policy of ETHZ and data policies of European SLRFs).
  - The target is to present the consolidated directive in 02/2022 to the PSI board of directors for a first reading.

Kick off meeting

ETH Open Research Data program Expert Groups

Friday, 5th November 2021

Open Research Data – Position of the ETH Domain

"Science often benefits from multiple evaluations of the same data sets by researcherswith different backgrounds, perceptions and ideas. ORD allows – and stimulates – new research and discoveries"

"A governance framework that defines the rights and duties of data producers, data owners and data users is needed. Indeed, a culture that gives proper credit to data producers needs to be promoted, along with the requisite tools; and research communities need to develop best practices for data citation."

"A strategy should be formulated for the development of ORD-related infrastructure and services that responds to future demands and to develop funding schemes in order to support these infrastructures and services in the long-term."

ETHzürich   EPFL   PSI   WSL   Empa   eawag   ETH BOARD

The ETH-board together with the ETH domain have committed 15 MCHF for the promotion of open research data (ORD) research practices and services.

Measure 1: Call for Field-Specific Actions

Measure 2: Coordination of Access to Research Data Management (RDM) Services & Infrastructures

Measure 3: Development of Online Course Material for RDM Training

Measure 4: Information on Legal Questions related to ORD

Measure 5: Career Paths for ORD Professionals

ETH ORD

Steering Committee

5 Measures to foster and improve ORD Practices

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Measure 1: Call for Field-Specific Actions

Measure 2: Coordination of Access to Research Data Management (RDM) Services & Infrastructures

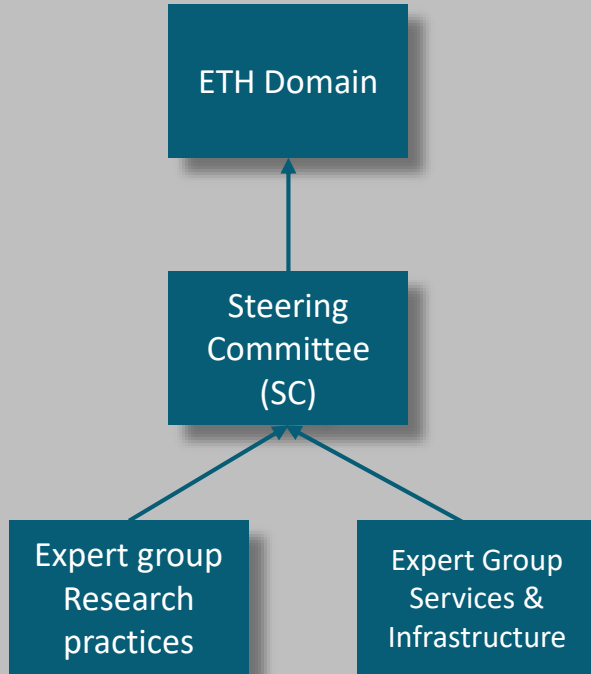**Measure 3**: Development of Online Course Material for RDM Training

Measure 4: Information on Legal Questions related to ORD

Measure 5: Career Paths for ORD Professionals

Expert group – Research practices

Expert group – Services and Infrastructure

ETH ORD

Steering Committee

5 Measures to foster and improve ORD Practices

ETH ORD

Steering Committee

Alun Ashton	*Head of Science IT Infrastructure and Services (AWI) Department*	PSI
Georg Fantner	*LBNI-Laboratory for Bio- and Nano-Instrumentation*	EPFL
Gian-Kasper Plattner	*Senior Scientist, Office of the Director, Head Program EnviDat*	WSL
Gilles Dubochet	*Head of Open Science (VPA-OS), Advisor to the President & Provost*	EPFL
Peter Reichert	*Group leader "Systems analysis and water management"*	EAWAG
Robert Finger	*Agricultural Economics and Policy Group*	ETHZ
Rui Brandao	*Director of IT Services*	ETHZ
Tanja Zimmermann	*Head of Department Functional Materials, Member of Directorate*	EMPA

ETH Domain

Steering Committee (SC)

Expert group Research practices

Expert Group Services & Infrastructure

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Expert Groups Members

Research Practices (EG-R)

Alexander Bast	Research Associate & Coordinator Research Programm CCAMM	WSL
Arne Seitz	Head of Biomicroscopy core platform in the School of Life Sciences	EPFL
Christoph Stadtfeld	Professor Social Networks	ETHZ
Dagmar Iber	Professor Computational Biology	ETHZ
Damien Bouffard	Scientific Group Leader Aquatic Physics	EAWAG
Elison Matioli	Associate Professor , Power and Wide-band-gap Electronics Research Laboratory	EPFL
Lavinia Heisenberg	Professor for theoretical physics (focus on cosmology)	ETHZ
Maarten Nachtegaal	Head Operando Spectroscopy Group	PSI
Michele Griffa	Senior Scientist	EMPA
Rafael Wüest Karpati	Researcher, Coordinator WSL Biodiversity Center	WSL
Sebastian Maerkl	Associate Professor	EPFL
Thomas Wüst	Group Leader, Computational & Data Science Support, Scientific IT Services (SIS)	ETHZ
Uwe Filges	Group Leader Neutron Optics and Scientific Computing Group	PSI
Viktor Kuncak	Associate Professor	EPFL

Services & Infrastructure (EG-SI)

Carlo Antonio Pignedoli	Senior Scientist	EMPA
Eliane BLUMER	Spécialiste en information documentaire	EPFL
Harald von Waldow	Senior System Specialist / IT Services	EAWAG
Henry Lütcke	Scientific Computing Lead, Scientific IT Services (SIS)	ETHZ
Ionut Iosifescu Enescu	Technical Coordinator EnviDat	WSL
Khadidja MALLECK	Head of IT – School of Engineering – EPFL	EPFL
Laurent Desimone	Head of IT - EPFL ENAC-IT	EPFL
Leonardo Sala	Data Analysis Research Infrastructure Group Head	PSI
Matthias Töwe	Group Leader Research Data Management and Digital Curation	ETHZ
Nicola Marzari	Faculty Member	EPFL
Patrick Gino Angelo Pedrioli	Senior Scientist	ETHZ
Rafael Corvalan	Director of the department of Information Systems	EPFL
Rok Roskar	Chief System Scientist & Head of Engineering	SDSC
Spencer Edward Bliven	Scientist, High Performance Computing and Emerging Technologies Group	PSI
Urs Beyerle	Head of IT at Institute for Atmospheric and Climate Science (IAC/ETH)	ETHZ

Timeline

February 2021: Decision of the ETH Domain

March 2021 : Creation of the Steering Committee

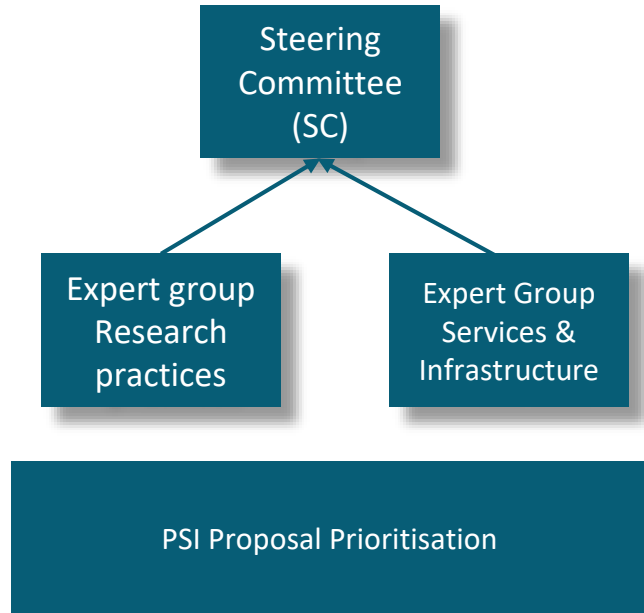**November 2021** : Creation of the Expert Groups

January 2022 : Submission of (pre-)proposals (Measure 1-EG-R)

April 2022 : First projects start (Measure 1-EG-R)

December 2024 : End of the program

Proposal approval (still to be confirmed)

- Due to limited funding and commitment of PSI resources, proposals from PSI are likely to need PSI support and prioritization.

- The mechanism for PSI proposals will be outlined with the measure calls.

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            Steering
            Committee
              (SC)
            /        \
Expert group        Expert Group
Research            Services &
practices           Infrastructure

        PSI Proposal Prioritisation
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EG-R Measures

– Connected to ORD's impact on how research is done

Measure 1:
Call for Field-Specific Actions - handled by EG-R

Goals

– Support ETH Domain actors to become ORD leaders in their field by funding bottom-up proposals for ORD initiatives.

– Strengthen (in synergy with Measure 2) the connections between research communities and services and infrastructures providers.

Projects with different maturity level:
– Explore projects
– Establish projects
– Contribute projects

Measure 3: Development of Online Course Material for RDM Training – handled by EG-R

Goal

Develop a training concept and online teaching material for RDM building on the existing expertise in the ETH Domain. The course material should be structured into small, freely reusable and modifiable modules (using Creative Commons CC-BY license and existing platforms) and free of costs.

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Measure 5:
Career Paths for ORD Professionals - handled by EG-R

Goal

Develop proposals for future career paths of ORD professionals in the ETH Domain. In order to offer top scientific IT services to ETH Domain researchers, it is crucial to recruit skilled professionals.

EG-SI Measures

– Connected to the institutional environment and resources that facilitate ORD

Measure 2:
Coordination of Access to Research Data Management (RDM) Services & Infrastructures – handled by EG-SI

Goal

Standardization, federation, or mutualization of existing services across the ETH Domain and the improvement of interoperability of existing services and filling of gaps in services.

The full data lifecycle will be considered:
(1) Data management planning,
(2) Data acquisition,
(3) Data processing and analysis,
(4) Data publication and re-use,
(5) Long-term preservation,
(6) Data disposal after the end of the retention period.

Also envision to increase standardization, federation and mutualization of ETH Domain hardware infrastructures and services.

Measure 4: Information on Legal Questions related to ORD – handled by EG-SI

Goal

Develop a consolidated legal document, which can be used as a common reference and guidance in understanding the legal situation of ORD within the ETH Domain.

Objectives and tasks

Collection of a question catalogue for legal questions related to ORD. Questionnaire to be answered by experts in digital law (i.e. https://ccdigitallaw.ch, swissuniversities P5 program or EMPA legal team).

Legal document to be drafted (in accordance with ETH Regulation) and harmonized with each institution. Training material to be elaborated for the onboarding of new employees.