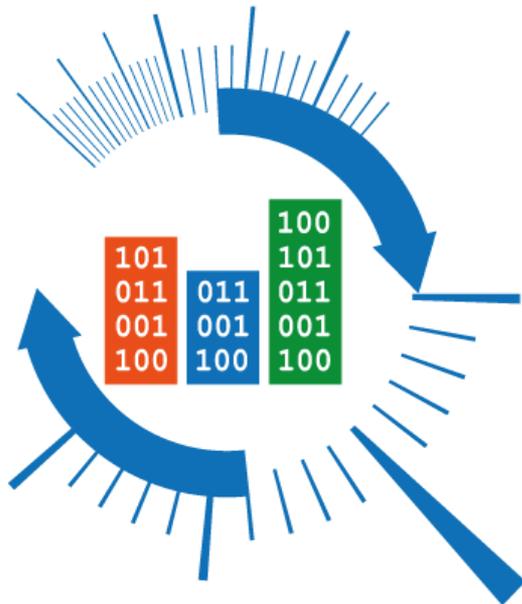


# Web Tutorial 1: Research data management in EPM projects



TC-IM 1449

Research data management in European metrology





# Disclaimers

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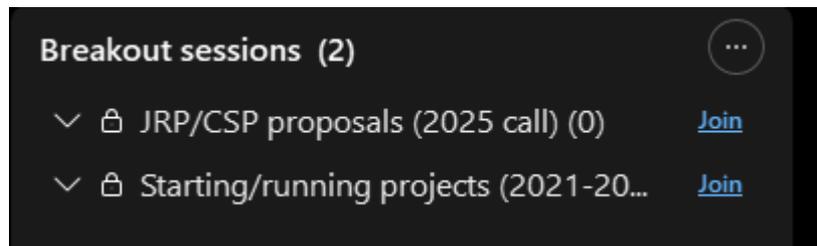
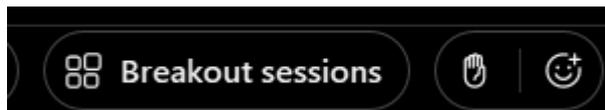
- We are recording the event!  
(for internal use only)



- Feedback welcome!



- Breakout sessions





# Motivation

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- Bring metrological expertise into RDM discourse
  - Traceability, reproducibility, ...
- Support metrologists perform good RDM
  - Funder obligations + scientific understanding
- Focus on EURAMET-EPM + Long-term awareness



### Participant Portal

Welcome to EURAMET's online home for participants in our **European Partnership on Metrology** research funding programme.

This portal:

- enables potential participants to [apply](#) for research funding.
- provides templates and guides for [coordinators and consortia](#), to assist in managing successful funded projects.
- enables experts to register as a [referee](#) for current and future calls.

For information related to EMPIR projects please visit [EMPIR participant portal](#).



# Who we are

<https://www.metrology-rdm.eu/>

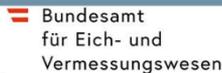
## COORDINATING INSTITUTE

PTB (Germany)



## PARTICIPATING PARTNERS

BEV (Austria)



CMI (Czechia)



DTI (Denmark)



IMBiH (Bosnia and Herzegovina)



INRIM (Italy)



IPQ (Portugal)



JV (Norway)



METAS (Switzerland)



MIKES (Finland)



NPL (United Kingdom)



RISE (Sweden)



SMD (Belgium)



VSL (Netherlands)



## TC-IM 1449:

### Research data management in European metrology

- 14 active NMIs + 7 in ML  
+ 4 overseas observers (NZ, TH, MX, AR)
- 20 active members + 35 in ML
- 4 presence workshops; 6 plenary meetings/year;  
WP meetings by necessity

**New participants are welcome anytime!**



TECHNICAL COMMITTEE  
“Interdisciplinary Metrology”

WG “Metrology for Digital  
Transformation”

TC-IM  
1448

TC-IM  
1551

TC-IM  
1449



# The team



**Åge Andreas Falnes Olsen, Justeverenet (NO)** has a PhD in physics (superconductivity) and worked with ultrasound measurements. He is responsible for the maintenance and development of Norway's national temperature standards and represents JV in TC-T, TC-IM and CCT. He contributes to JV's digitalisation activities, including comparisons and uncertainty evaluation.



**Thomas Wiedenhöfer, PTB (DE)** Member of the presidential staff at PTB with background in manufacturing metrology, quality management and industrial R&D. Vice Chair of IMEKO TC8; active in DCC and RDM with focus on digital traceability, sustainable data infrastructures and digital transformation.



**Michaela Kuepferling, INRiM (IT)** has a doctorate in Solid State Physics from the Vienna University of Technology and a wide experience in magnetic materials, from preparation to characterization. Since December 2005 she is working as a researcher at INRiM in the field of spintronics. Since 2023 she has been coordinating the Open Science working group at INRiM.



**Martin Koval, CMI (CZ)** graduated as an engineer in the field of metrology at the Slovak Technical University in Bratislava. Since 2015 he is working at CMI, dealing with software validation of metrological devices and digitalization applications in metrology. He is a member of several working groups focused on software and digitalization in metrology, such as WELMEC, OIML EURAMET and BIPM.

**Filippo Vasone, UniBO (IT)**

With an academic background in philosophy and data science, after an internship in FAIR Research Data Management at INRiM, he works as a Data Steward at the University of Bologna to support engineering and technology researchers in adopting Open Science and FAIR data practices. He previously worked as a freelance science communicator for a variety of audiences.



**Maitane Iturrate-García, METAS (CH)**

is an environmental scientist with a PhD (University of Zürich) and laboratory and field experience on climate research and environmental pollution, including crop greenhouse gas emissions and ecosystem vulnerability. Since 2018 she works at METAS, developing dynamic reference mixtures for atmospheric reactive gases (NO<sub>2</sub>, NH<sub>3</sub>, VOCs...) and assessing gas sensors in air quality applications.



**Marina Romanchikova, NPL (UK)**

has a degree in Medical Informatics (University of Heidelberg) and a PhD in medical physics (Institute of Cancer Research, Sutton, UK). They are specialized in method development for data quality assurance and metadata, including tools to support Digital Pathology, and in developing automated data processing pipelines for the traceable scientific data.



**Giacomo Lanza, PTB (DE)**

has a background in molecular biophysics (optical spectroscopy of fluorescent proteins) and environmental sciences (isotopical measurement stable isotopes of GHG in agriculture). Since 2018 he is working as a research data manager at PTB, focussing on metadata standards, data management plans and RDM in metrology.



<b>2025-06-03</b>	<b>"Research data management in EPM projects" Module 1: Motivation, obligations and support</b>
5 min	Greeting (hint to recording and data protection)
30+10 min	Plenary: Motivation and general information
10+10 min	Breakout session 1: RDM in JRP/CSP proposals
10+10 min	Breakout session 2: RDM in starting/running projects
10+10 min	Plenary: Obligations in EPM projects (EPM guides); Support
10 min	Questions and discussion
<b>2025-06-12</b>	<b>"Research data management in EPM projects" Module 2: Planning and data publication</b>
5 min	Greeting (hint to recording and data protection) Plenary: Obligations in EPM projects
20+10 min	Breakout session 1: Describing RDM in JRP/CSP proposals
20+10 min	Breakout session 2: Preparing a data management plan + RDMO
20+10 min	Plenary: Data publication + sensitive data + versioning
10 min	Questions and discussion
<b>2025-06-20</b>	<b>"Research data management in EPM projects" Module 3: Metadata and good practices</b>
5 min	Greeting (hint to recording and data protection)
20+10 min	Metadata: how to select them and how to record them
20+10 min	Breakout session: exploration of the SI dig.fr. + API query
20+10 min	Breakout session: Case study about lab notebooks
10 min	Questions and discussion

# Funder Requirements

## Section B: Overview of the research.....

- B1 Summary of the project.....
- B2 Excellence.....
  - B2.a Overview of the objectives.....
  - B2.b List of deliverables.....
  - B2.c Need for the project.....
  - B2.d Progress beyond the state of the art.....
  - B2.e Gender dimension.....
  - B2.f Open science.....
  - B2.g Research data management and management of other research outputs.....
- B3 Potential outcomes and impact from the project.....

- Project proposal (JRP)

- Open Science
- Management of data + other outputs

- Data management plan

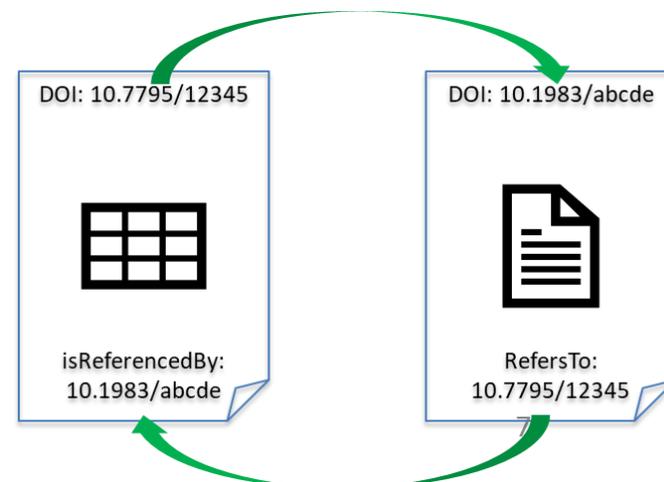
- FAIR principles; Security; Licenses; Responsibilities; Costs...

e.g. 21GRD01\_21NRM01-short-name



- Article & data publication

- Funder acknowledgement
- Metadata, identifiers...





# Outputs

WP	Subject	Help form	Target group	Validity	Status
1, 3	RDM in EPM projects	<ul style="list-style-type: none"> <li>Guideline</li> <li>Checklist</li> <li><a href="#">Website</a></li> <li>Trainings</li> </ul>	Project coordinators, Researchers	EPM	In progress Trainings: Q2 2025
4	RDM description in JRP/CSP proposals	<ul style="list-style-type: none"> <li><a href="#">Sample text</a></li> </ul>	Project coordinators	EPM	READY
4	Data management plans	<ul style="list-style-type: none"> <li><a href="#">Sample text</a></li> <li><a href="#">Guideline</a></li> <li><a href="#">Tool</a></li> </ul>	Project coordinators	EPM	READY 🔗 MSU guide
6	Metadata for data publication	<ul style="list-style-type: none"> <li><a href="#">Scheme</a></li> <li>Guideline</li> </ul>	Researchers	EPM	Scheme: READY Guide: in progress
5	Machine-readable representation of metrological information	<ul style="list-style-type: none"> <li><a href="#">Case study</a></li> <li>Guideline</li> </ul>	Researchers	universa l	Case study: READY Guide: in progress
2	RDM policy for metrology institutes	<ul style="list-style-type: none"> <li><a href="#">Sample policy</a></li> <li><a href="#">Presentation</a></li> </ul>	NMI leads	universa l	READY



EMPIR 2021 data outputs:

Thanks for your attention!

Measures/means:



**NEXT TUTORIAL:**

**planning and data publication**

**Thursday, June 12th, 14:00 CEST**



*Interest for our activities?*

Next meeting: **20yy-mm-dd**

**Feel welcome to join us!**

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-  <https://orcid.org/0000-0002-2239-3955>

