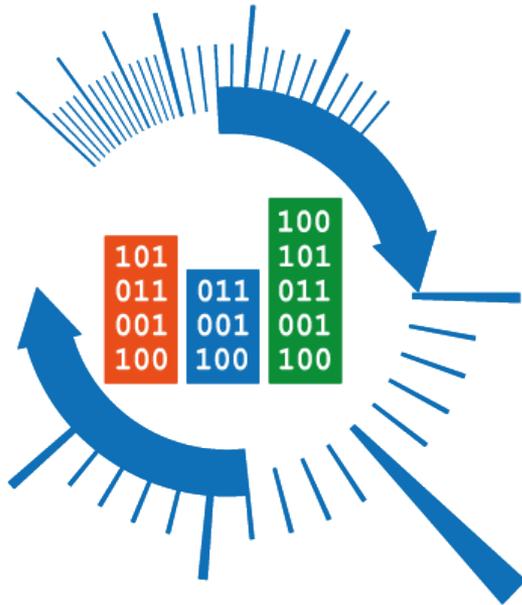


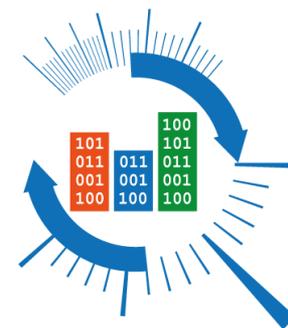
# Web Tutorial 1: Research data management in EPM projects

Maitane Iturrate-Garcia  
METAS



Research data management in European metrology





# RDM in start/ running projects

Breakout session 2

Maitane Iturrate-Garcia  
METAS



# EURAMET EPM requirements

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EPM projects are “co-financed from the EU Horizon Europe Research and Innovation Programme and by the Participating States”.

**Open science** practices as per Regulation (EU) 2021/695 (Horizon Europe): rules for participation and dissemination

Initial RDM included in JRP proposals (max. 2 pages) in sections

- B2.f (Open science): research outputs’ sharing, reproducibility and open access
- B2.g (RDM and management of other research outputs): types of data/research outputs generated and how data findability, accessibility, interoperability and reusability will be achieved



# EURAMET EPM requirements

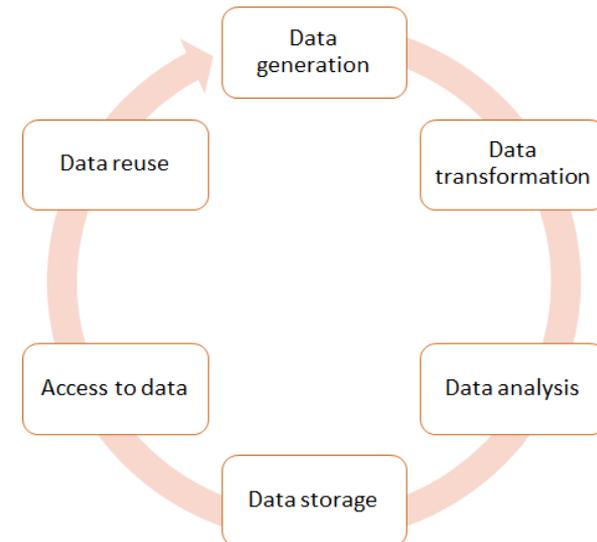
- JRP proposal: potential RDM description
- M6: RDM summarised in DMP submitted to EURAMET
- M18: DMP update
- M36: DMP update

EPM Grant Agreement  
Annex 5, Article 17

RDM ≠ DMP (not synonymous)

RDM: a collection of tasks, practices and decisions for the organization of data, from its generation until its dissemination and archiving (and eventually its destruction)

DMP: an evolving document and tool used to facilitate the implementation of a good RDM





# RDM in EPM projects

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RDM relates to **digital research data**:

“Information in digital form (in particular facts or numbers), collected to be examined and used as a basis for reasoning, discussion or calculation.”

Examples: statistics, results of experiments, measurements, observations from fieldwork, survey results, interview recordings, images and raw data where technically feasible (i.e. enables reanalysis, reproducibility and/or data re-use)



Source: Herovired

<https://herovired.com/learning-hub/blogs/what-is-data/>



# RDM in EPM projects

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## Aspects to be covered

Data sharing      Repository      Ontologies and mapping

Persistent identifiers

Data access      Data provenance      Curation and preservation

Licencing      Metadata      Qualified references

Dataset description      Costs



# RDM in starting projects

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- Requirements

- 6 months after start of the project, DMP submission to EURAMET
- 42 questions about access, metadata, restrictions, costs, ...

<https://metpart.eu/download.html>

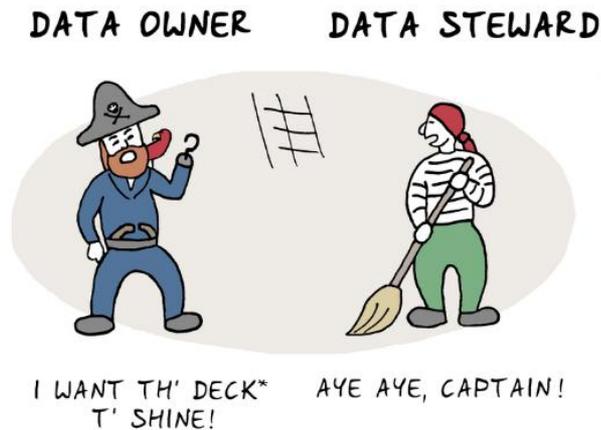
- Template: [Template 2](#) – Data management plan template
- Guide to fill DMP: [Part 2](#) – Preparing data management plans



# RDM in starting projects

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- Tips for coordinators (from personal experience)
  - If possible, put a data steward in your life



Source: Dataedo (Piotr)  
<https://dataedo.com/cartoon/data-owner-data-steward>

- Establish a small group/a person within the consortium (ideally with previous experience in RDM) responsible for drafting the RDM and, further in the project, for ensuring the quality of the data and its curation (including the project repository)



# RDM in starting projects

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- Tips for coordinators (from personal experience)
  - Early enough in the project, make sure all the partners are in the same pace and engage with the RDM.
  - Make the RDM drafting as collaborative as possible to increase engagement
  - Invest time on “training” the consortium: tutorials on licences, metadata, ontologies and other RDM aspects adapted to the project



# RDM in running projects

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- Requirements
  - M18: DMP update to be submitted to EURAMET
- Tips for coordinators (from personal experience)
  - Ensure the data “responsible” group/person and you as coordinator keep a clear overview of the generated datasets all across the project (particularly important for data publication)
  - Anticipate potential risks and ethics/privacy conflicts; search for help (legal departments) within the consortium to mitigate the effects
  - Harmonization will save you time (common ontology, metadata,...)



# RDM in finishing projects

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- Requirements
  - M36: DMP update to be submitted to EURAMET
- Tips for coordinators (from personal experience)
  - Ensure all the selected data (i.e. open data practices) are ready for publication with the correct formatting, metadata, ... before the end of the project. Data publication before the end of the project will make your life easier
  - Take actions on how to proceed once the project is over (unpublished data?, data curation?, project repository?...)



# Take-home messages

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- RDM requires (initial) great amount of resources, but a good RDM will save you many headaches
- Don't underestimate the power of communication
- You are not alone!!

