



What is the Research Data Alliance and what will it do for you?

Nikola Vasiljević

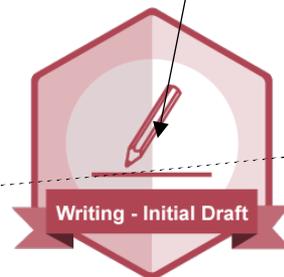
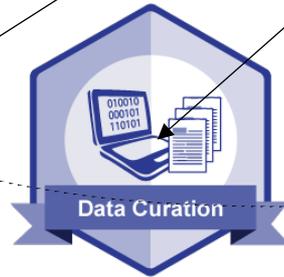
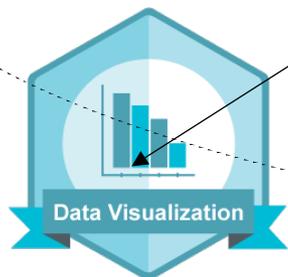
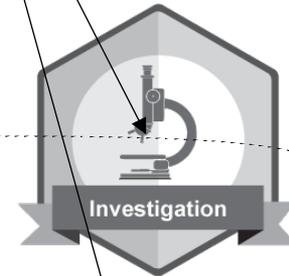
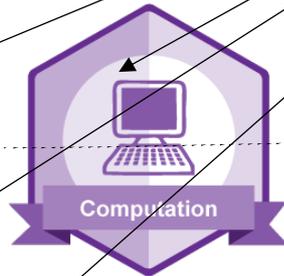
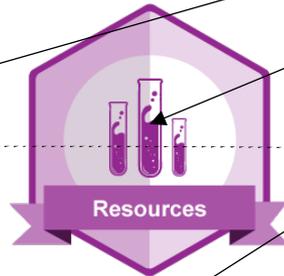
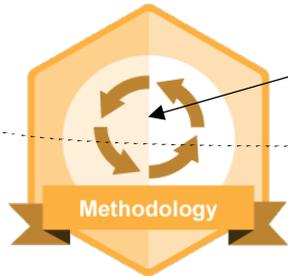
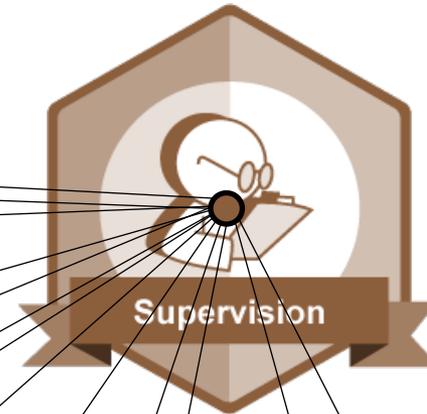
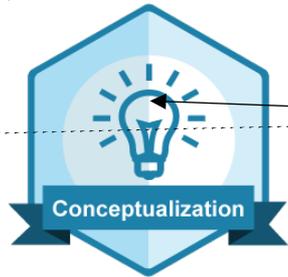
RDA Europe Ambassador for Engineering and Technology / Wind Energy
Researcher DTU Wind Energy

Disclaimer

This presentation contain personal opinions and views which not necessarily reflect the RDA neither DTU Wind Energy politics.

Roles according to CRediT taxonomy

Project proposal



Scientific paper

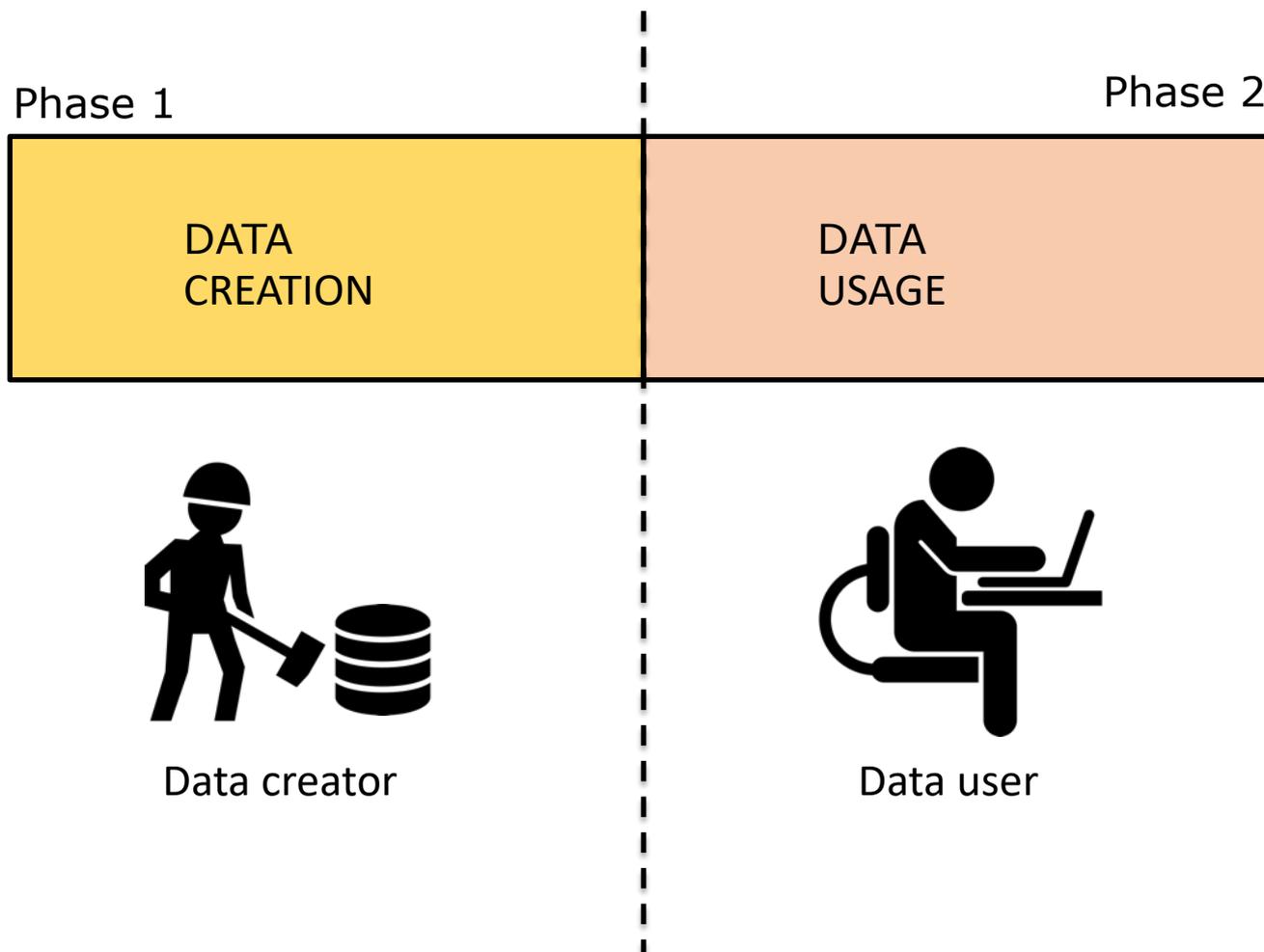
Project proposal



Scientific paper

Tendency to think that this is necessary evil.
Products derived here not considered as a first-class research outputs yet!

SIMPLISTIC VIEW OF RESEARCH



Digital objects underpinning scientific papers

START: **Project proposal**

- Data management plans
- Workflows
- Instrument(s)
- Model(s)
- Datasets
- Data collections
- Data processing code
- ...
- Data annotations
- Data annotation collections
- Data papers
- Data analysis code



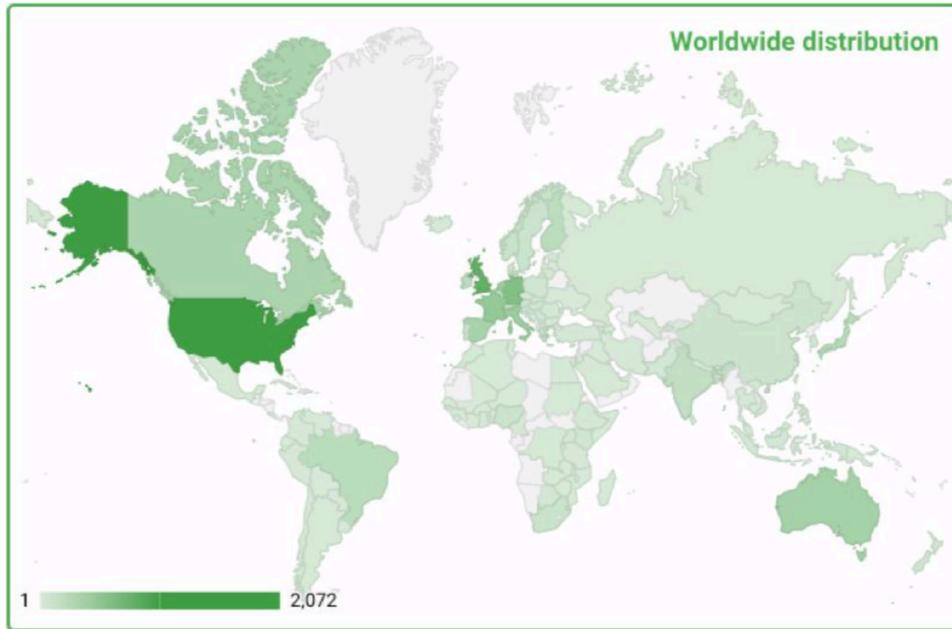
We in the RDA
care a lot about these!

STOP: **Scientific paper**

The RDA is the right place for you!

- *Challenges while creating, collecting and managing data?*
- *Work as a data creator, data manager, data steward or data curator is not properly recognized and valued?*
- **The Research Data Alliance (RDA) is the right place for you!**
- The RDA is a research community organization started in **2013** by the European Commission, the American National Science Foundation and National Institute of Standards and Technology, and the Australian Department of Innovation.
- The RDA provides a forum where **members** come together to develop and adopt solutions that promote **data-driven research, data sharing and accelerate the growth of a cohesive data community.**

The RDA is a global community



<https://www.rd-alliance.org/about-rda>

<https://www.rd-alliance.org/get-involved.html>

- All are welcome
- Over 8400 individual members (>50% from Europe)
- 137 countries
- 50 organizational members
- 8 affiliate members

How the RDA tackles challenges

WORKING GROUPS (WG)

Develop and implement tools, policies, practices and products for data management that are adopted and used by projects, organizations and communities.

Timing: 12-18 months

TOTAL: 36 Working Groups

Recommendations: Concrete deliverables – tools, standards, etc.

INTEREST GROUPS (IG)

Focus on a specific data sharing problem or community and identifying what kind of infrastructure is needed.

Timing: as long as the group is active

TOTAL: 66 Interest Groups

Output: Possibly case statement for new Working Group, guidelines, etc.

A selection of WGs and IGs of interest for wind energy:

<https://zenodo.org/record/3246264#.XQZqBi2Q2L8>

RDA outputs across the Workflow

Scientific
Community
Engagement

Data Search/Reuse

Data Management Plan

Active Data
Management
Plans

Dynamic
Data
Citation

Publisher
Commitments

Collection

Develop &
Explore
Vocabularies

Data
Sharing
Workflows

Data
Storage

Description

Scholix

Promotion

Analysis

PID
management

Repository
Interoperability

Retention

Reproducibility

Repository
Trust

FAIR principles

- › We need to make our (meta)data **Findable**
- › Humans and machines should be able to gain **Access** to our (meta)data (not necessary 100% OPEN, as open as possible as close as necessary)
- › (Meta)Data should be **Interoperable**, i.e. data should conform to recognized formats and standards
- › Additional documentation describing (meta)data should be provide to support interpretation and **Reuse** of data.

Wilkinson et al., Sci. Data 3:160018 (2016)

FAIR Data Maturity Model WG

Develops a common set of core assessment criteria or FAIRness and a generic and expandable selfassessment model or measuring the maturity level of a dataset. Builds on existing initiatives, looking at common elements and allowing the group to identify core elements or the evaluation of FAIRness.

- Analysis of Existing FAIR Assessment Tools:
<https://rd-alliance.org/group/fair-data-maturity-model-wg/outcomes/results-analysis-existing-fair-assessment-tools> (request for comments open)

<https://rd-alliance.org/groups/fair-data-maturity-model-wg>

Aims:

- Raise awareness about data management in engineering
- Change the culture of handling data
- Bridge engineering communities and existing initiatives

Objectives:

- Bring together scientific and industrial stakeholders from all relevant sectors to discuss their legal and technological challenges around RDM practices.
- Provide a forum for exchanging knowledge, options and experiences on a national and international level.
- Bring light to the issue of contract- and mission-oriented engineering research from global and national points of view.
- Disseminate the IG results within other relevant engineering organisations on a global, European and national scale.
- Evaluate RDA outputs and recommendations and consider them with the focus on engineering.

<https://rd-alliance.org/groups/research-data-management-engineering-ig>

Join us, because we need you!!!



M DATA K THE DIFFERENCE S



RDA 14th Plenary

Helsinki | Espoo
Finland
23-25 October 2019





<https://www.rd-alliance.org/groups/rda-denmark>

THANK YOU!

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Acknowledgements:

[RDA Secretariat](#)

[RDA Europe Ambassadors](#)

[RDA DK node](#)

[RDM in Engineering IG](#)