

FAIR DATA AUSTRIA

AUFBAU VON DATA STEWARDS

DATA STEWARDS MODELLEN AN PARTNERUNIVERSITÄTEN

21.10.2020 10:00 – 18:00



AGENDA

10.00 – 10.15	Welcome & Vision Statement
10.15 - 10.30	Zusammenfassung IST Analyse
10.30 - 11.00	Data Steward Landscape Studien
11.00 - 11.30	Vorstellung & Diskussion – Data Steward Modellen
11.30 – 11.50	Kaffeepause
11.50 - 13.00	Einführung Research Data Lifecycle & Gruppenarbeit - Data Steward Tasks
13.00 - 14.10	Mittagspause
14.10 - 15.15	Präsentation/Zusammenführung – Data Steward Tasks
	Gruppenarbeit Mapping zwischen Modellen und Tasks
15.15 – 15.45	Kaffeepause
15.45 – 16.45	Präsentation, Diskussion & Zusammenfassung Gruppenarbeit - Modellen
16.45 – 17.00	Lüftungspause
17.00-17.40	Reflektionsrunde, Vorteile, Nachteile – Data Stewards Modellen
17.40 -18.00	Abschlussrunde & Closing

VISION – WHERE DO WE STAND REALLY?



OUTCOMES IST-ANALYSE (RECAP)

Process & Outcomes

- Small survey of 6 institutions yielded semi-structured qualitative data (text)
- Different models in the process of being implemented across the 6 institutions
 - Decentralized (e.g. data stewardship at the institute or group level) → centralized (e.g. data stewardship tasks are handled by a central OE) with implications for required background/training (generalists versus specialists)
 - Tasks of data stewards are spread across many persons/institutions
- Institutions surveyed are at radically different stages in the process
 - 2.5 – 8 on a scale of 10 (self-assessment)
 - Reasons: institutional trajectories, resources, aims, size

OUTCOMES IST-ANALYSE (RECAP)

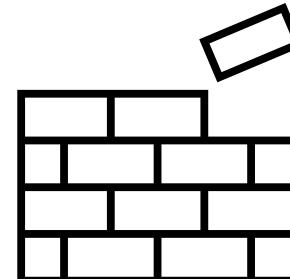
- Different priorities for data stewards (profile)
 - Infrastructure
 - Interface (of research and IT)
 - Policy
 - Training and PR
- Differences in expectations
 - What data stewards should be depends (among other things) on the scale/size of the uni (centralized – decentralized)

WO WOLLEN WIR HIN?

- **End of 2021**
 - Toolbox – **self-assessment toolkit with most important factors to be considered by universities/insitutions**
 - Find a match:
 - I have x resources
 - Y size of the university
 - Z number of DMPs/year
 - Sensible data
 - Answer questions:
 - Which model should I take?
 - How many DS?
 - Which profile?
 - What about training?
- **Today**
 - First substantial steps - building boxes/ basic structures
 - **Models** with set of **tasks** aligned to research data lifecycle



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DATA STEWARD LANDSCAPE STUDIES

Towards FAIR data steward as profession for the lifesciences [1]

Project deliverable:

“The project has worked towards a common function description (including responsibilities and **tasks**) and an agreement on the required competencies (knowledge, skills and abilities) for the data steward function”

Interesting for us: **mapping data steward function → working areas (stakeholder fields)**

Methodology

The content was defined in multiple iterative cycles, following the steps:

- Analysis of 40 international job descriptions for data specialists (e.g., data manager, data expert, data consultant)
- Analysing and mapping existing data stewardship competency frameworks and the FAIR data principles
- Discussions with Consultation Committee
- Consultation of persons with data steward functions, among others via the Dutch Data Stewards Interest Group and via knowledge exchange workshops

[1] S. Scholtens, M. Jetten, J. Böhmer, C. Staiger, I. Slouwerhof, M. van der Geest, C.W.G van Gelder (2019, October 5). Towards FAIR data steward as profession for the lifesciences. Report of a ZonMw funded collaborative approach built on existing expertise. Zenodo. <http://doi.org/10.5281/zenodo.3471708>

DATA STEWARD LANDSCAPE STUDIES

Towards FAIR data steward as profession for the lifesciences [1]

Key findings:

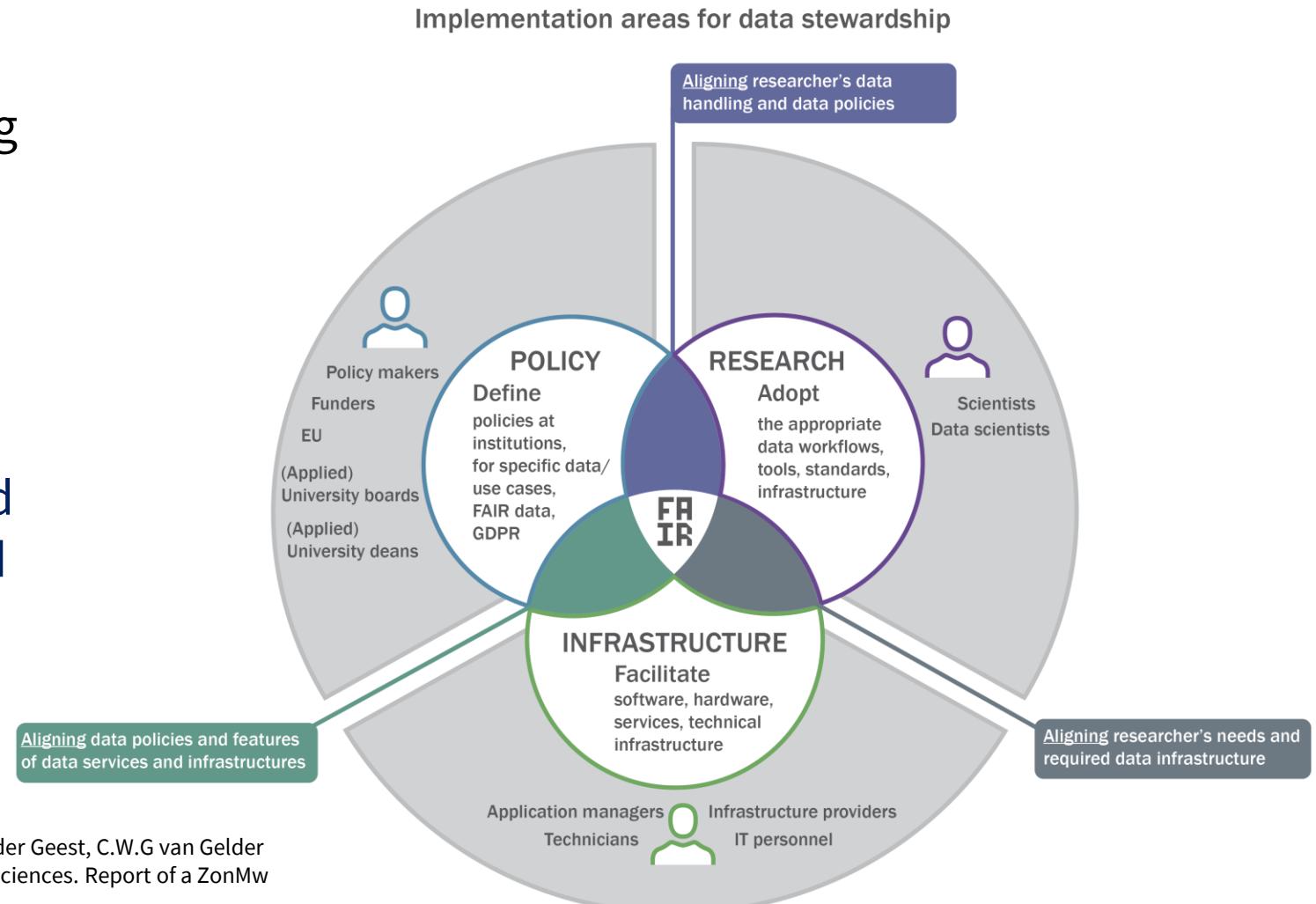
- Moving towards data stewardship (and roles, tasks and responsibilities) in an organization is **challenging**, particularly when it comes to **capacity and financing**
- Lack of consensus on **what a data steward is or does**
 - i.e., function of data stewards, including responsibilities and tasks, as well as their required knowledge, skills and abilities
- No job definitions/profiles available
 - Data steward function - as a role that **differs** from existing **data experts and research roles**
- The data steward role is often experienced as a role that is '**in between**' different disciplines and professionals
- **Translation between different stakeholders and professionals** is seen as a key element of the function of a data steward
- No/too little tailored education & **training**

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DATA STEWARD LANDSCAPE [1]

Partly overlapping working areas:

- Policy - institute and policy focused
- Research - project and research focused
- Infrastructure - data and e-infrastructure focused

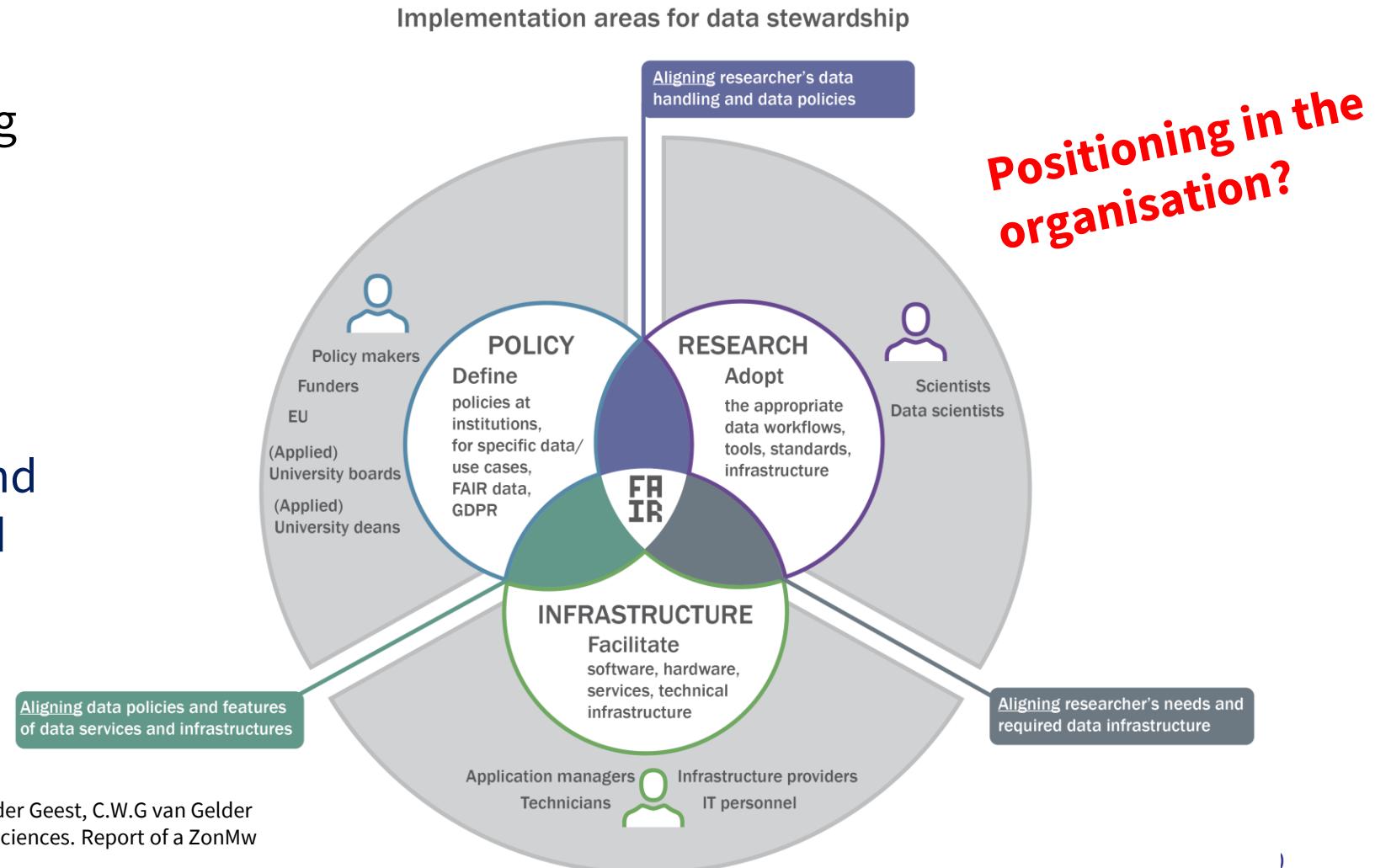


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- **Policy** - institute and policy focused
- **Research** - project and research focused
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DATA STEWARD LANDSCAPE STUDIES

Data stewardship on the map: A study of tasks and roles in Dutch research institute [2]

Deliverable – LCRDM Data Steward Working Group

“ Providing insight in what Dutch institutes currently demand of data stewards and also what has been implemented and developed by and for them with a focus in **classification in task areas**”

Interesting for us: focus – **positioning in the organization**

Methodology

This report was realized by:

- Studying (inter)national literature in this field,
- Collecting existing task surveys and charting current function requirements and competencies for diverse data stewardship roles at Dutch institutes
- Analysing job vacancies
- Questionnaire and interviews

[2] Verheul, I., Imming, M., Ringersma, J., Mordant, A., van der Ploeg, J. L., & Pronk, M. (2019). Data stewardship on the map: A study of tasks and roles in Dutch research institutes.
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DATA STEWARD LANDSCAPE STUDIES [2]

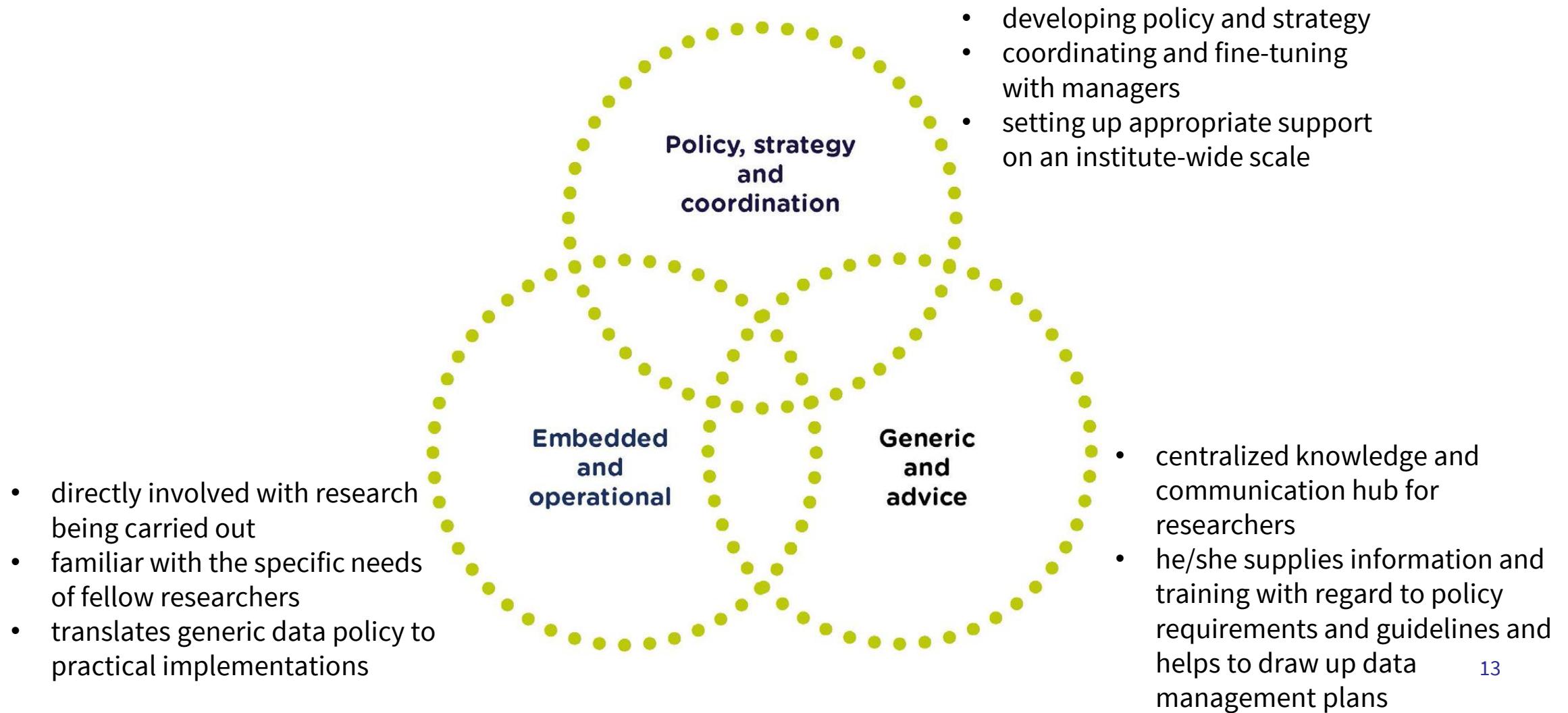
Data stewardship on the map: A study of tasks and roles in Dutch research institute [2]

Key findings

- The process of professionalization creates new roles, but **positioning of data stewards** within an organization still **varies significantly**
 - a data steward may occupy a central position (at a library or an ICT department) or be deployed at faculty level
 - sometimes he/ she is assigned to a certain project or fulfils a discipline-specific role
 - often it is a **mix of the above**
- Support for researchers is increasingly **delegated to specific staff members with a data profile**
 - Interpreting the role of data steward is not clear-cut
 - He/she is expected to perform a wide variety of tasks
- Consensus - **a mix of tasks works well for data stewards**
- Organizations find it hard to obtain suitable candidates for the role of data steward because of **discrepancies** between what a **job function demands** and what a potential employee is **capable of or what he/she has been trained for**

[2] Verheul, I., Imming, M., Ringersma, J., Mordant, A., van der Ploeg, J. L., & Pronk, M. (2019). Data stewardship on the map: A study of tasks and roles in Dutch research institutes. <https://doi.org/10.5281/zenodo.2669150>

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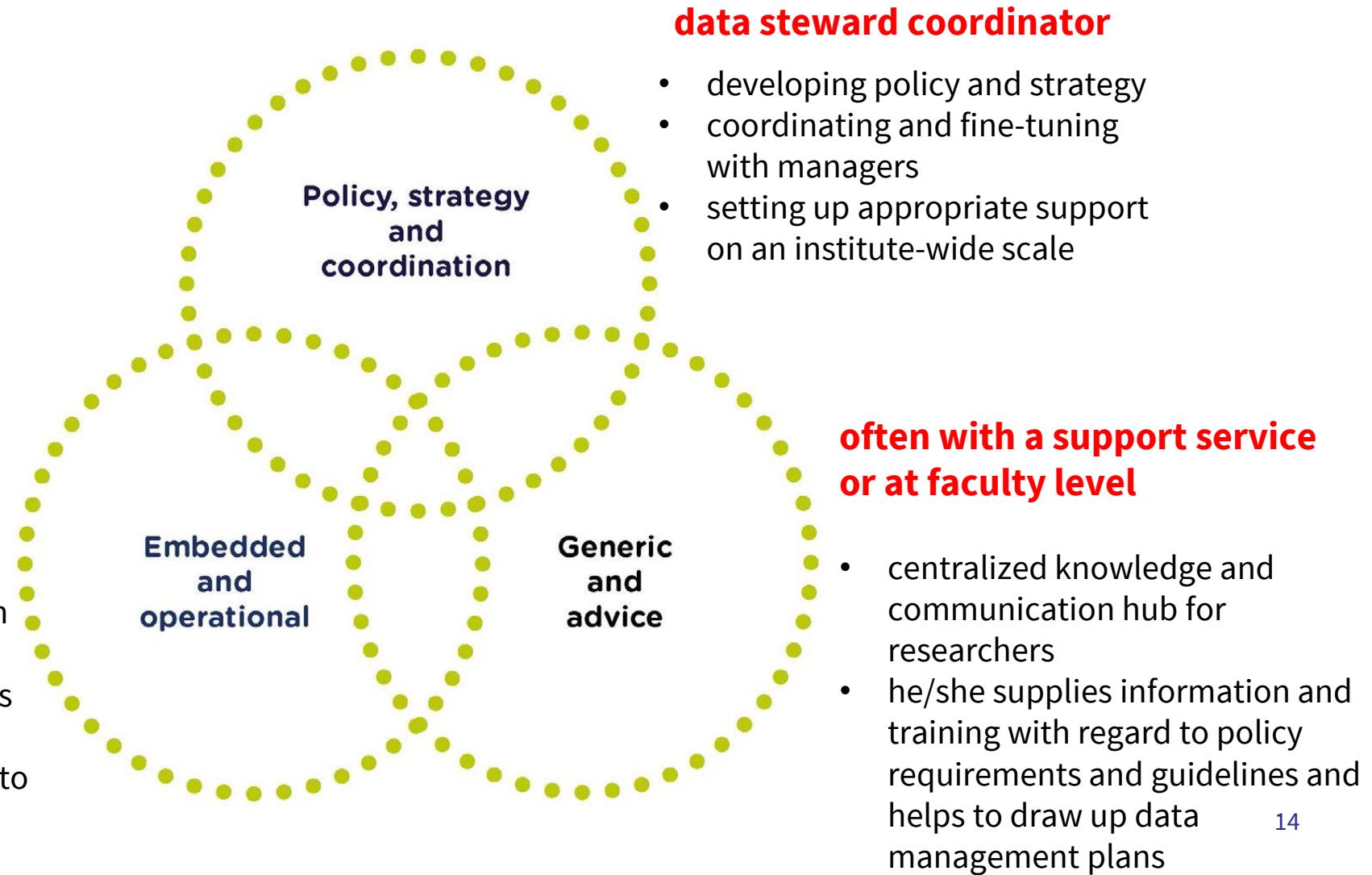


DATA STEWARD LANDSCAPE STUDIES [2]

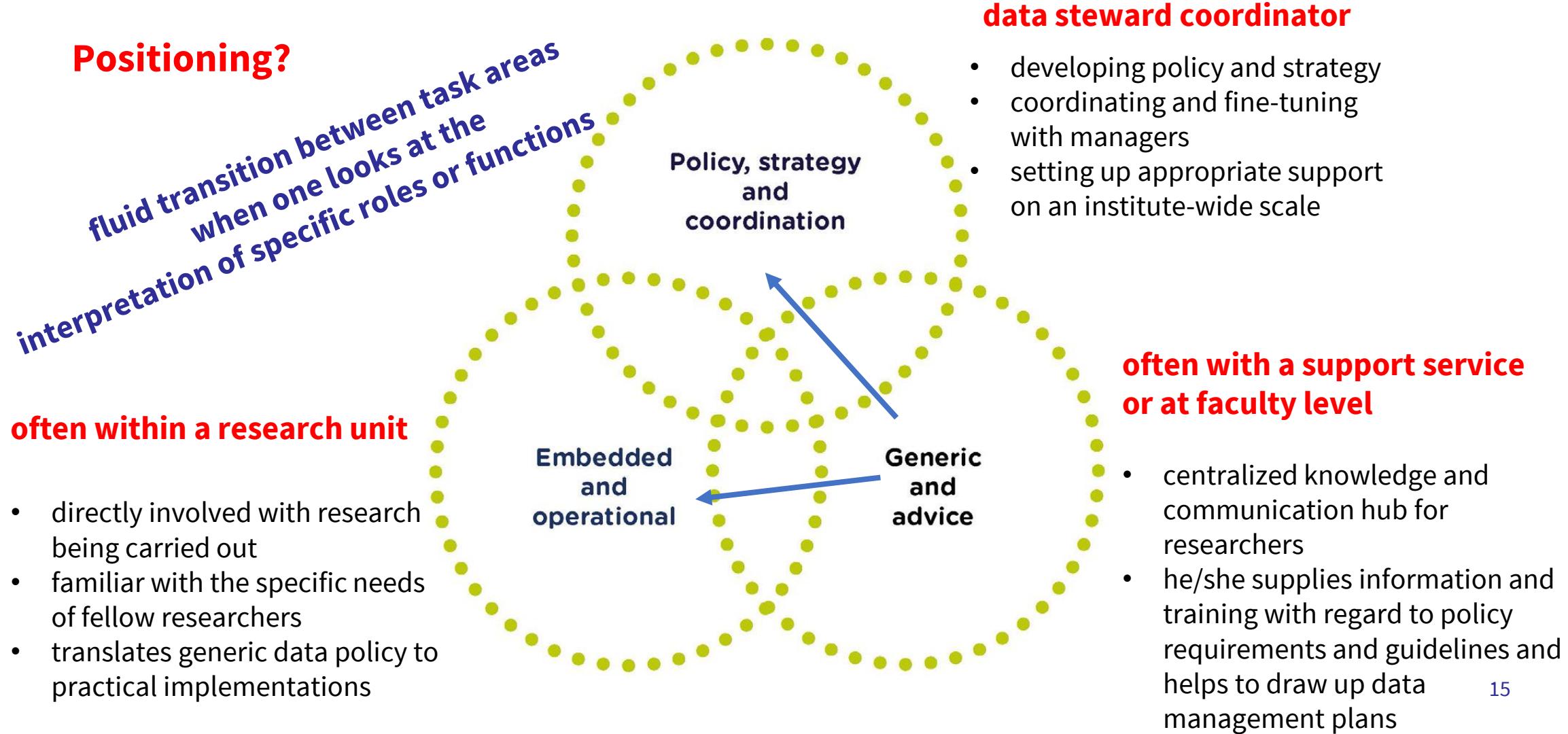
Positioning?

often within a research unit

- directly involved with research being carried out
- familiar with the specific needs of fellow researchers
- translates generic data policy to practical implementations



DATA STEWARD LANDSCAPE STUDIES [2]



VORSTELLUNG & DISKUSSION – DATA STEWARD MODELLEN

- 3 Modelle
 - 1 Data Steward/Universität (eher bei kleinen Universitäten) - ***generisch***
 - Bis 3 Data Stewards/Universität – ***zentralisiert***
 - 1 Data Steward/Fakultät oder Field of Expertise – ***dezentralisiert***

VORSTELLUNG & DISKUSSION – DATA STEWARD MODELLEN

Fragen

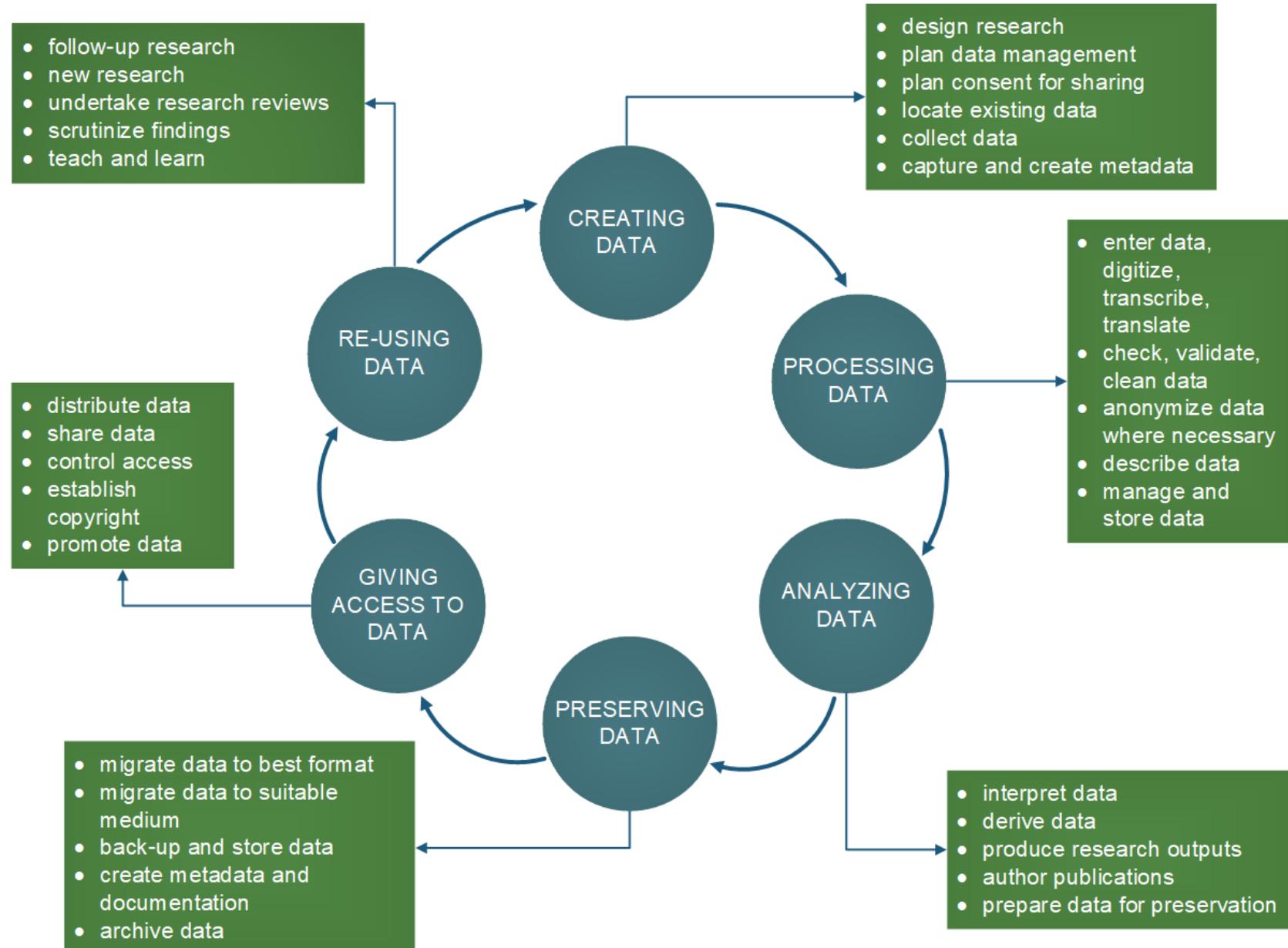
- Stimmt ihr mit diesen 3 Modellen überein? Fehlt aus eurer Erfahrung & Wissen ein wesentliches Modell?
(Differenzieren/neu Strukturieren?)
- Sollen wir die 3 Modelle in der Toolbox weiter verfolgen?
(ja/nein Frage)
- Wie sollen wir diese Modelle benennen? (Überschriften abfragen?)

EINFÜHRUNG RESEARCH DATA LIFECYCLE

Research data lifecycle



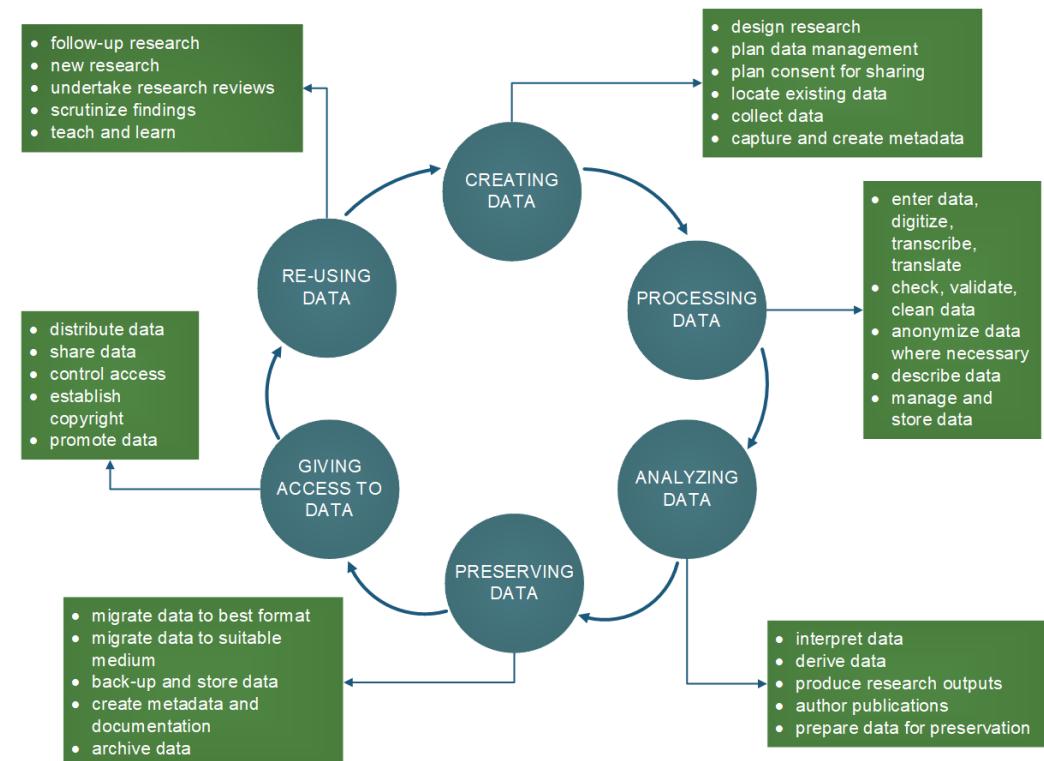
EINFÜHRUNG RESEARCH DATA LIFECYCLE



EINFÜHRUNG RESEARCH DATA LIFECYCLE

Data management concerns all actual, operational data-related activities in any phase of the data lifecycle

Data stewardship refers to the assignment of responsibilities in, and planning of, data management



<http://doi.org/10.5281/zenodo.3471708>

<https://libguides.mines.edu/c.php?g=949816&p=6850016>

DATA STEWARD DEFINITION

Data stewardship is the responsible planning and executing of all actions on digital data before, during and after a research project, with the aim of optimising the usability, reusability and reproducibility of the resulting data.

“It differs from data management, in the sense that **data management concerns all actual, operational data-related activities in any phase of the data lifecycle**, while data stewardship refers to the **assignment of responsibilities in, and planning of, data management**.”

[1] S. Scholtens, M. Jetten, J. Böhmer, C. Staiger, I. Slouwerhof, M. van der Geest, C.W.G van Gelder (2019, October 5). Towards FAIR data steward as profession for the lifesciences. Report of a ZonMw funded collaborative approach built on existing expertise. Zenodo.
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GRUPPENARBEIT - DATA STEWARD TASKS

**Erarbeiten Sie aufgrund des Research Data Lifecycle die
TASKS eines Data Steward pro Schritt im DLC**

Präsentation/Zusammenführung – Data Steward Tasks

GRUPPENARBEIT MAPPING ZWISCHEN MODELLEN UND TASKS

Mapping zwischen Modellen und Tasks in Research Data Lifecycle

**Ziel – herausfinden welchen Anteil von Research Data Lifecycle
jedes Modell abdecken kann**

PRÄSENTATION, DISKUSSION & ZUSAMMENFASSUNG GRUPPENARBEIT - MODELLEN

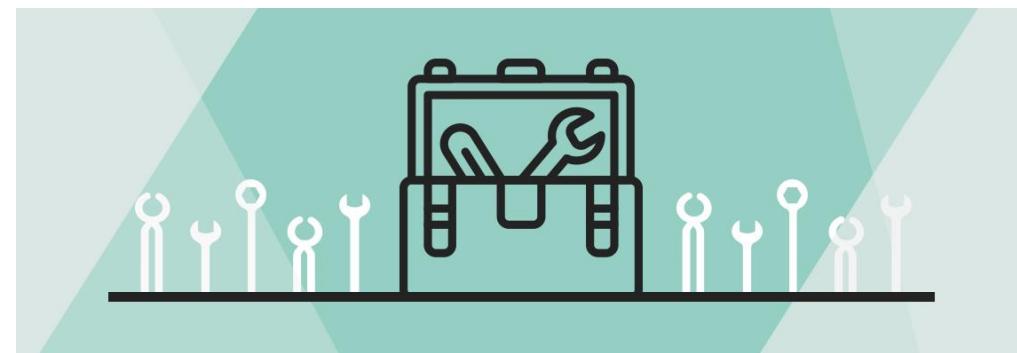
REFLEKTIONSRUNDE VORTEILE, NACHTEILE – DATA STEWARDS MODELLEN

- Zusammenfassend nach dem ersten gemeinsamen Ringen am Verständnis nach Modellen und Aufgaben von Data Stewards
- Wenn wir jemanden JETZT eine Empfehlung für DS aussprechen müssten:
- **G1:** *Was sind die Vorteile dieser Modelle und deren Rolle/Aufgaben von DS?*
 - *Welche Chancen birgt dieses Modell und die jeweilige Rolle/Aufgaben von DS für die Universitäten/Forschung an Universitäten?*
- **G2:** *Was sind die Nachteile dieser Modelle und deren Rolle/Aufgaben von DS?*
 - *Welche Risiken birgt dieses Modell und die jeweilige Rolle/Aufgaben von DS für die Universitäten/Forschung an Universitäten?*

ABSCHLUSSRUNDE & CLOSING

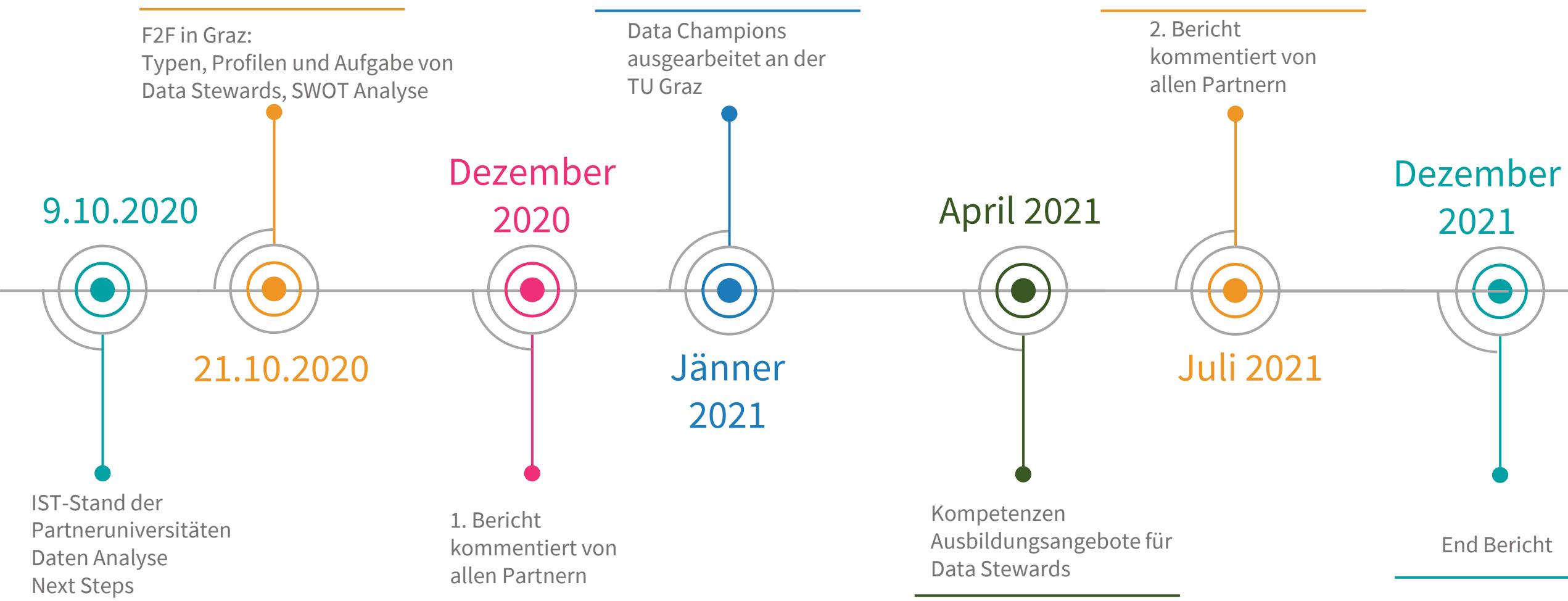
NÄCHSTE SCHRITTE

- Mitte November – 1. Bericht V 1.0
- Mitte Dezember - 1. Bericht kommentiert von allen Partnern
- Nächster Workshop – Frühjahr 2021
 - Weiterentwicklung des Toolboxes
 - Kompetenzen (knowledge, skills and abilities)
 - Ausbildungsangebote



TASK 5.2 AUFBAU VON DATA STEWARDS

TIMELINE



KONTAKT

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forschungsdaten.at/projekte/fda/

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