GRANTS WEEK 2021: OPEN SCIENCE

∂ **MUNI**

12.10.2021

MUNI
ICS

Grants Weeks 2021: Open Science at MU

Jiří Marek
MU Open Science Manager

12.10.2021

Presentations goals

1. Horizon Europe and Open Science follow up

2. Open Science at MUNI

MUNI
ICS

MUNI
ICS

1. Horizon Europe

Horizon Europe Definitions

— **Open Access** = „*Online access to research outputs provided free of charge to the end-user*"

— **Open Science** = „*An approach to the scientific process based on open cooperative work, tools and diffusing knowledge.*"

MUNI
ICS

Horizon Europe approach towards Open Science

„Open science is an *approach* *based on open cooperative work and systematic sharing of knowledge and tools as early and widely as possible in the process. Open science practices include early and open sharing of research (for example through preregistration, registered reports, pre-prints, or crowd-sourcing); research output management; measures to ensure reproducibility of research outputs; providing open access to research outputs (such as publications, data, software, models, algorithms, and workflows); participation in open peer-review; and involving all relevant knowledge actors including citizens, civil society and end users in the co-creation of R&I agendas and contents (such as citizen science)."*

„Please note that this question does not refer to outreach actions that may be planned as part of communication, dissemination and exploitation activities. *These aspects should instead be described below under 'Impact'."*

MUNI
ICS

Basic assigment

- *„Describe how appropriate open science practices are implemented as an integral part of the proposed methodology. Show how the choice of practices and their implementation are adapted to the nature of your work, in a way that will increase the chances of the project delivering on its objectives. If you believe that none of these practices are appropriate for your project, please provide a justification here."*

- *„Research data management and management of other research outputs: Applicants generating/collecting data and/or other research outputs (except for publications) during the project must provide maximum 1/2 page on how the data/research outputs will be managed in line with the FAIR principles (Findable, Accessible, Interoperable, Reusable)."*

- ½-1 page of your proposal

MUNI
ICS

1.2. Methodology - DMP

– *„Writing a DMP is an activity directly linked to the methodology of the research, i.e. good data management will make the work more efficient/save time, contribute to safeguarding information and to increasing the impact and the value of the data among the beneficiaries and others, during and after the research."*

„AGMA Horizon Europe, p. 159"

MUNI
ICS

Roles of Open Science within your project (Definitions)

— Open Science as an enabler:
Impacts and **Objectives** *(„sharing knowledge among stakeholders on specific issues")*

— Open Science as a „marketing tool":
Outcomes *(„dissemination and exploitation")*

— Results published by Open Science principles:
Research output and **Results**

— (Milestones, Critical risk**, Pathways to impact**)

MUNI
ICS

Open Science in Part B-1 MSCA: Horizontal approach

– 1.2 – Methodology

– 1.3 – OS practices of your supervision (link to the university practices)

– 1.4 – your OS practice

– 2.1 – new skills for your carrier

– 2.2 – good OS practices enables the proper delivery of Impact (on society, IPR man.)

– 2.3 – little bit tricky, the link is in fostering the evidence-based decision-making (section „Expected societal impacts"), but only with direct link!

– 3.1 – risk: unappropriate IPR management hinders the possibilities of OS and thus lowers the impact and dissemination and exploitations activities

– 3.2 – what kind of OS support exists at university

– Part B-2: 4 – CV with OA articles (repositories/published) + DORA principles

– Part B-2: 5.2 – Key research support at MUNI for OS

MUNI
ICS

Open Science practices

– Povinné:
  – Open Access
  – Research Data Management

– Doporučené:
  – open sharing of research (for example through [pre-registration](), [registered reports](), [pre-prints]())
  – research output management (measures to ensure reproducibility of research outputs)
  – open access to software, models, algorithms, and workflows
  – participation in [open peer-review]();
  – involving all relevant knowledge actors (e.g. [citizen science]() or [crowd-sourcing](), [co-creation](), co-design, [co-assesment]()).

MUNI
ICS

„Tips for your proposal"

1. Think also horizontally about your proposal, OS is a horizontal topic!

2. OS is enabler for your research, not over-administration

3. OS -> Science Communication -> Popularization -> Marketing of Research -> Science Diplomacy

4. Ask about your institutional support and write it in the proposal

5. Check the publishers conditions in advance and plan rough estimate of your outputs already during the project proposal phase

6. Research social networks such as Research Gate, Academia.edu are not considered as repositories

7. Check the Horizon Programme Guide (p. 38-54)

MUNI
ICS

Recomended literature

1. [Horizon Europe Programme Guide](#)

2. [Annotated Model Grant Agreement](#)

3. [MSCA template](#)

4. [Standard Application Form](#)

MUNI
ICS

2. Open Science at MU

Grants Weeks 2021: Open Science at MU, 12.10.2021

History of OA/OS at MUNI

— **2006** e-Archive of bachelor/master thesis

— **2010** MUNI signed the Berlin Declaration

— **2011** Rector´s Directive: Institutional Repository (mandatory)

— **2012** MUNI Repository (IS MU)

— **2013** Rector´s Directive: Institutional Repository revision (voluntary)

— …   Directives on Research Data, GDPR, Ethics; TTO brochures,…

— **2020** OA-HR4MUII – Institutional support restart for OA and

      development of Open/FAIR Data area

MUNI
ICS

Institutional support now

— Each Faculty/Institute has its own Methodologists to support Researchers

— University Core Team

— University Strategy 2022-2028 under development

— DMP tool support from 2022

— OA fund under development

MUNI
ICS

Open Science at MUNI

Open Access

FAIR Data

MUNI
ICS

Realization Team Open Science MUNI

Grants Weeks 2021: Open Science at MU, 12.10.2021
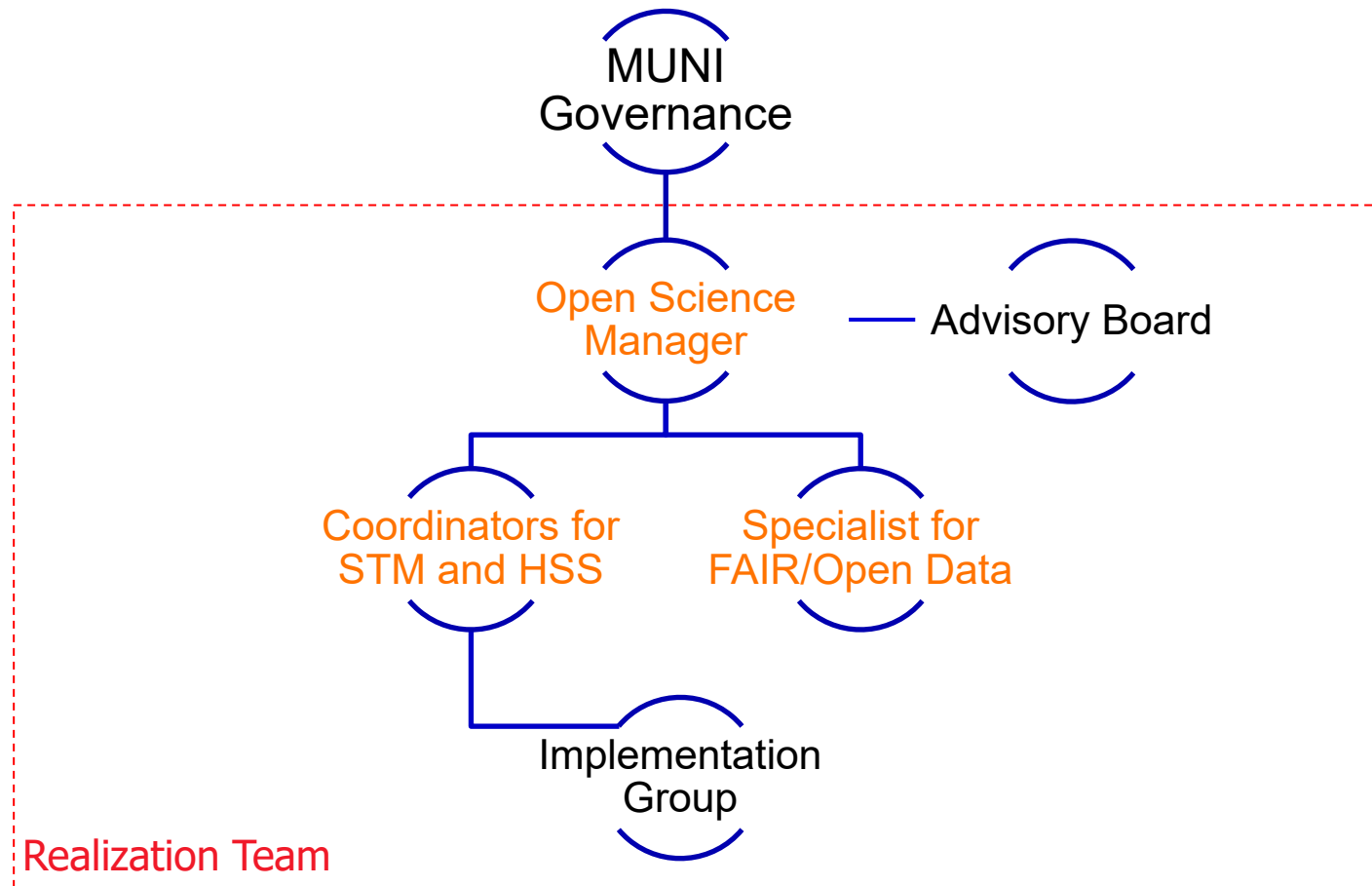
Open Science MUNI in Nutshell

More than 25 events

Approx. 60 persons involved

Strategy preparation

33 methodologists/
17 workshops

17 members of AB/
13 meetings

University
Open Science
Workshops

MUNI
ICS

Open Science Support at MUNI

Open Access	At every Faculty/Institute	1-3 methodologist/ Organizational unit
FAIR Data	Mainly provided by Core Team	Development in 2021
Communication	Web	Open Science Roadshow
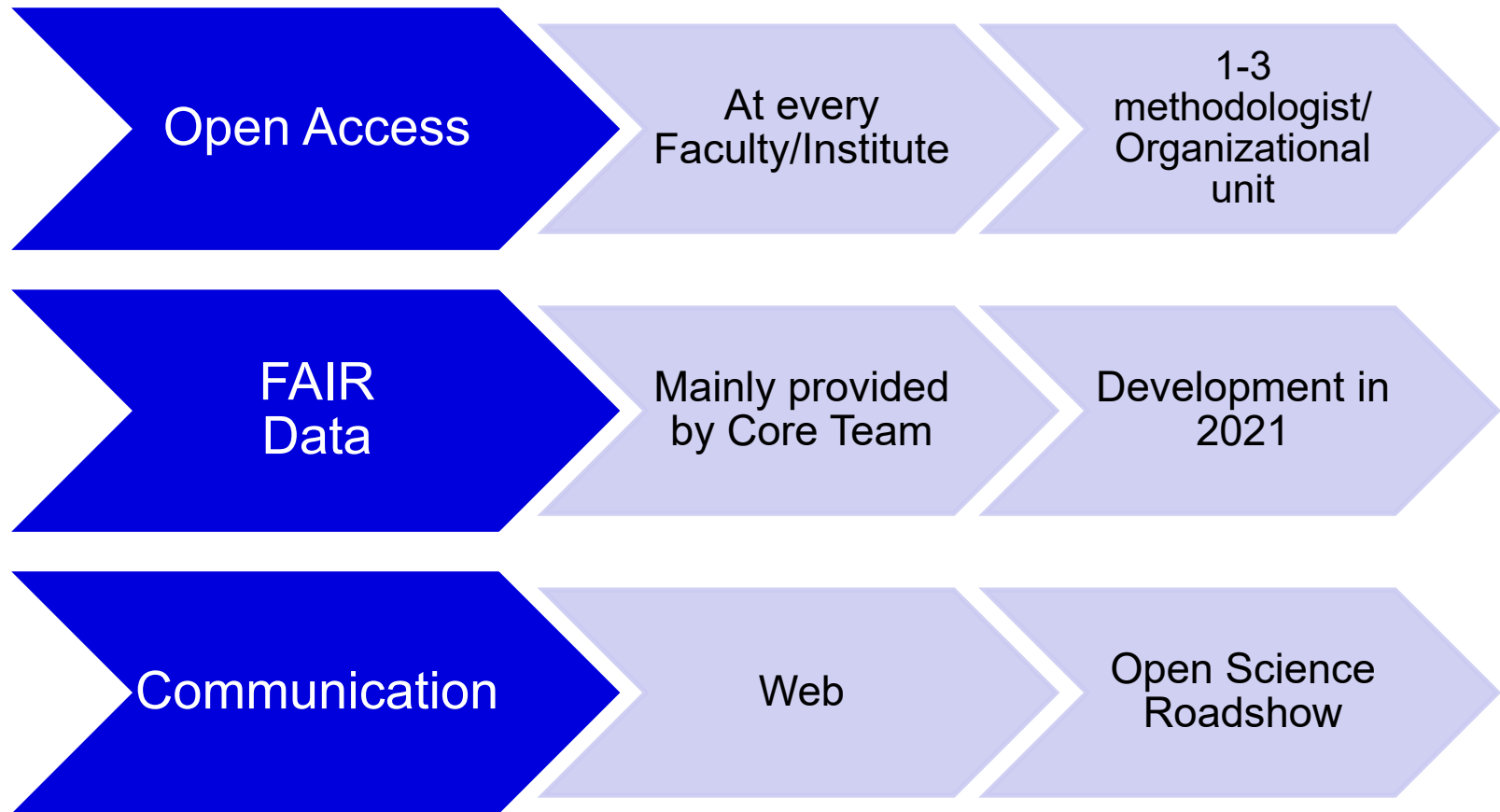
MUNI
ICS

Strategy in Nutshell

Period: 2022-2028

Strategic Document (2022-2028)

Action Plans (2022-24 and 2025-28)

Grants Weeks 2021: Open Science at MU, 12.10.2021

MUNI
ICS

Strategy Structure

```
                    ┌─────────────────────┐
                    │      Strategy       │
                    │  Open Science MUNI  │
                    └─────────────────────┘
                    ┌──────────┴──────────────────────────────┐
              ┌──────────┐                           ┌──────────┐
              │ Specific │                           │ Support  │
              │  Goals   │                           │ Actions  │
              └──────────┘                           └──────────┘
          ┌────────┴────────┐          ┌──────┬──────┴──────┬──────────┐
    ┌──────────┐    ┌──────────┐  ┌──────────┐ ┌──────────┐ ┌──────────┐ ┌──────────┐
    │  Open    │    │  FAIR    │  │ Support  │ │ Internal │ │Strandards│ │Cooperation│
    │  Access  │    │  Data    │  │   for    │ │Processes │ │   and    │ │          │
    │          │    │          │  │Scientists│ │          │ │Principles│ │          │
    └──────────┘    └──────────┘  └──────────┘ └──────────┘ └──────────┘ └──────────┘
```

Grants Weeks 2021: Open Science at MU, 12.10.2021
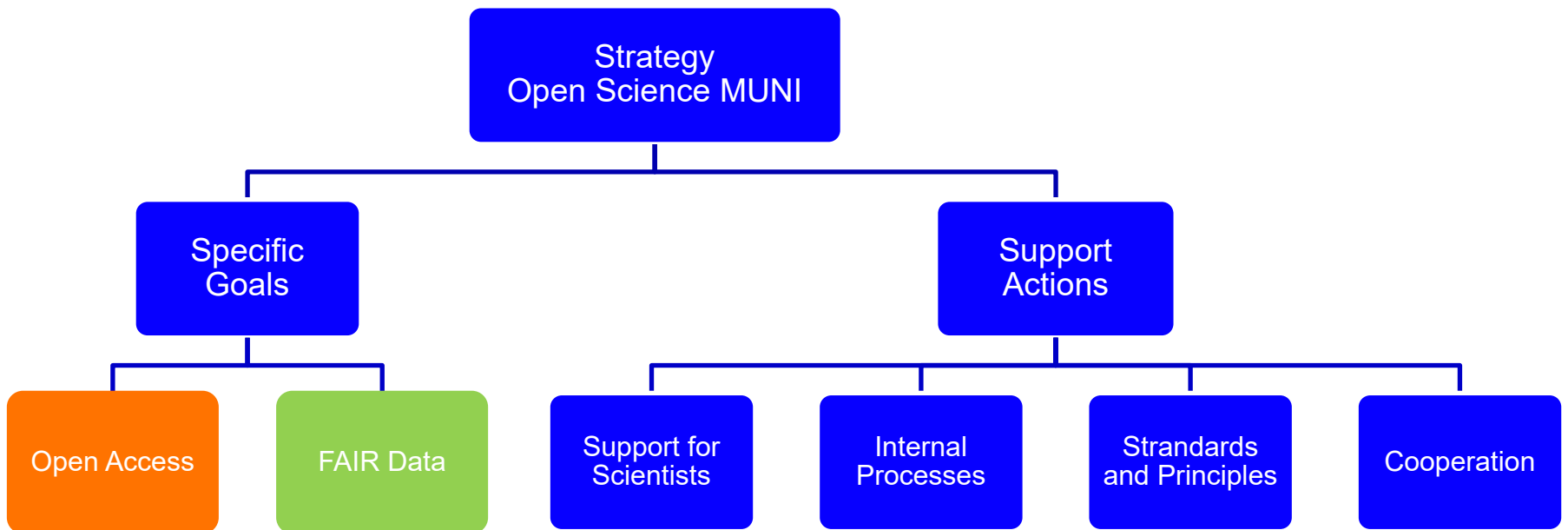
MUNI
ICS

Open Access Policy

- **OA1:** Publications archiving
- **OA2:** Publications availability

Open Access Support

- **OA3:** MUNI Repository
- **OA4:** Open Access Publishing

Open Access Financing

- **OA5:** OA Fund
- **OA6:** Electronic Resources Agreements

FAIR Data Policy

- **FD1:** FAIR Data Strategy
- **FD2:** Research Data Evidence

FAIR Data Support

- **FD3:** Research Data Repository
- **D4:** Research Data Management Support

FAIR Data Infrastructure

- **FD5:** Research Data Infrastructure

Support for Researchers

- **OS1:** DMP+
- **OS2:** Human Resources
- **OS3:** Education and Communication
- **OS4:** Open Science Services

Internal Processes

- **OS5:** Faculty /Institutes Strategies
- **OS6:** Evaluation of Science
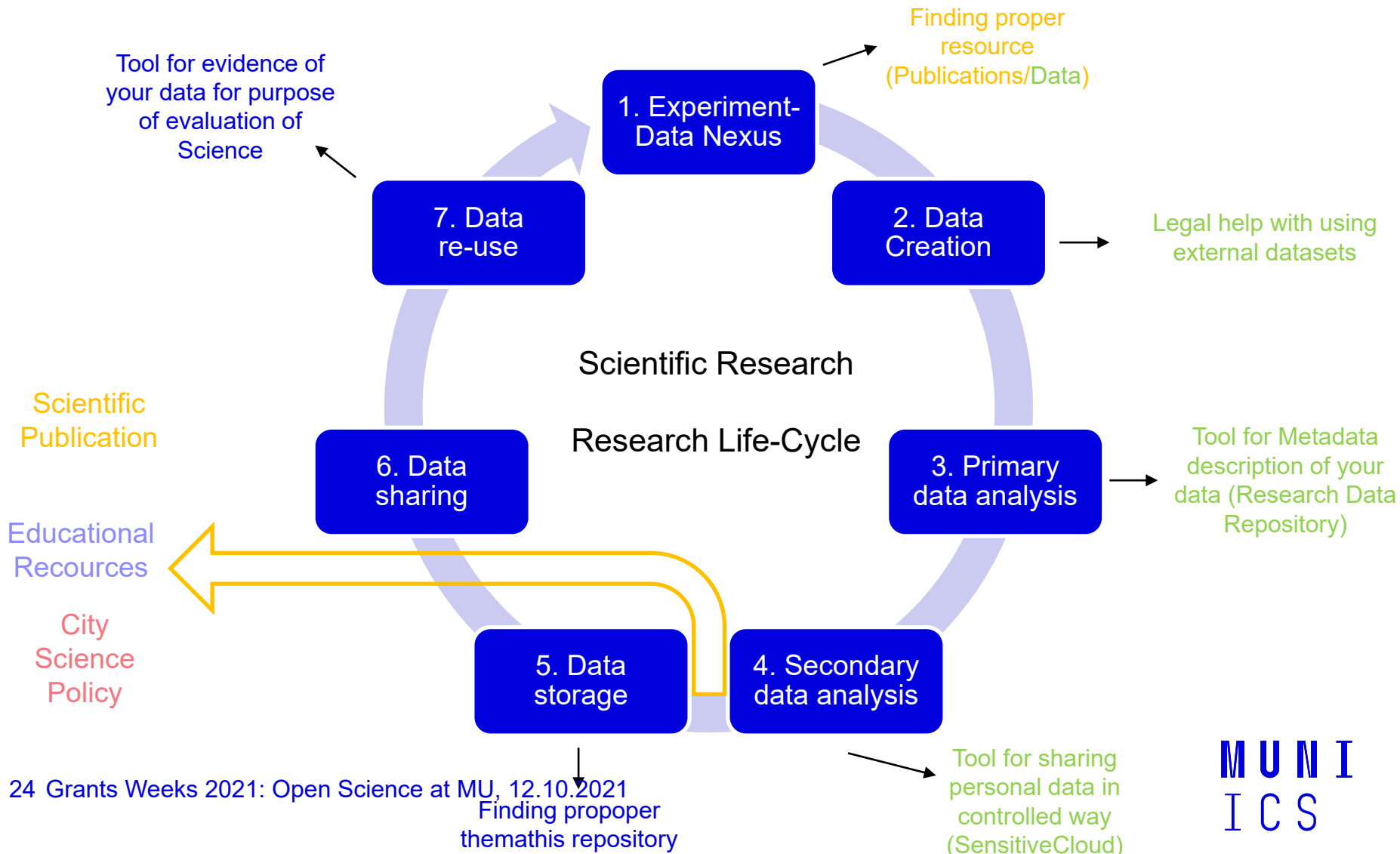- **OS7:** MUNI Grants Scheme

Standards and Principles

- **OS8:** DOI
- **OS9:** ORCID
- **OS10:** OpenAIRE
- **OS11:** FAIR

Cooperation

- **OS12:** National Initiatives
- **OS13:** International Initiatives

Grants Weeks 2021: Open Science at MU, 12.10.2021

MUNI
ICS

Open Science Services Concept

Finding proper resource (Publications/Data)

1. Experiment-Data Nexus

2. Data Creation

Legal help with using external datasets

Tool for evidence of your data for purpose of evaluation of Science

7. Data re-use

Scientific Research

Research Life-Cycle

3. Primary data analysis

Tool for Metadata description of your data (Research Data Repository)

Scientific Publication

6. Data sharing

Educational Recources

5. Data storage

4. Secondary data analysis

City Science Policy

Tool for sharing personal data in controlled way (SensitiveCloud)

Finding propoper themathis repository

24 Grants Weeks 2021: Open Science at MU, 12.10.2021

MUNI
ICS

Don't hesitate to ask your Open Science Methodologist!

Grants Weeks 2021: Open Science at MU, 12.10.2021

MUNI
ICS

GRANTS
WEEK
2021:
OPEN
SCIENCE
THANK YOU FOR
YOUR ATTENTION

12.10.2021

MUNI