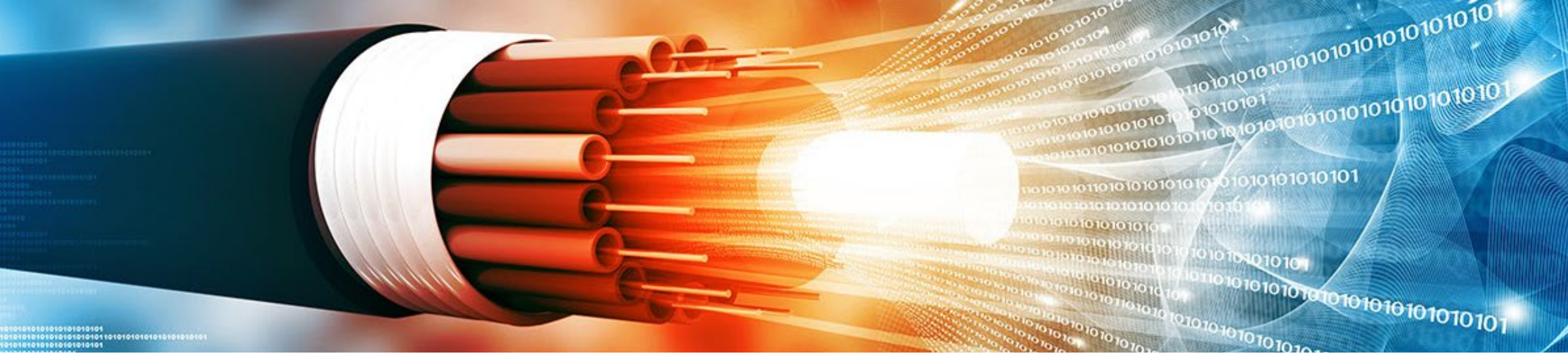


EOSC NORDIC

Outcomes of FAIR incentives study and expected impact

Josefine Nordling, CSC – IT Center for Science, Finland (WP4, task lead for FAIR incentives task)

EOSC-Nordic Final Event, Tallinn, 5 October 2022

EOSC-Nordic project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 857652

neic
NORDIC E-INFRASTRUCTURE COLLABORATION

Ambitions of FAIR incentives task

EOSC NORDIC

- Encourage researchers to comply with FAIR data practices in their research
- Demonstrate the perceived benefits and existing incentives in place for FAIR compliance
- Ultimate goal is to reach policy harmonisation in the region

Approach used in gathering input

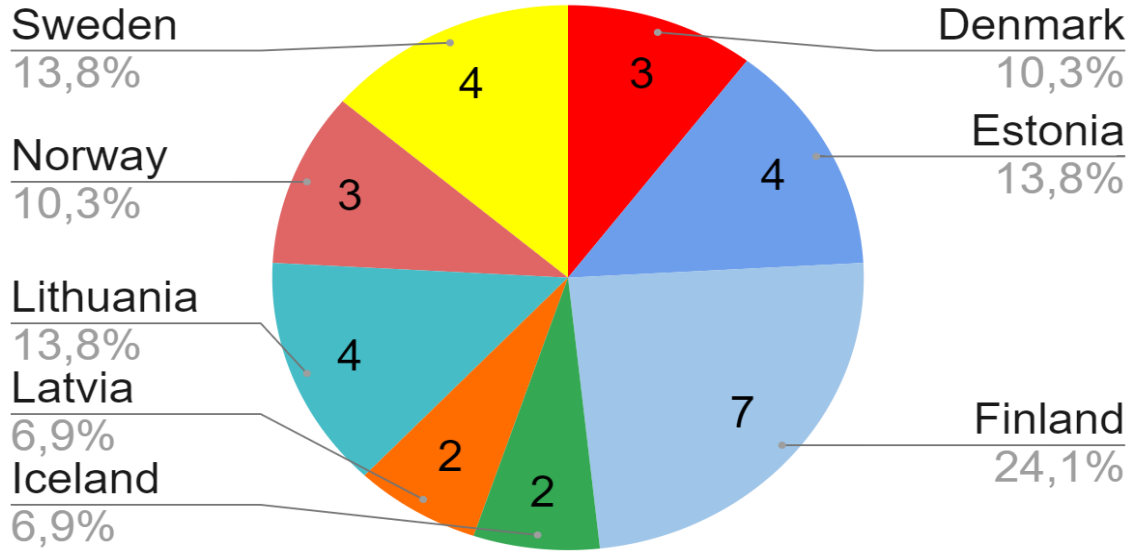
Mapping exercise of already established FAIR policy incentives and any gaps impeding FAIR adoption

Literature review

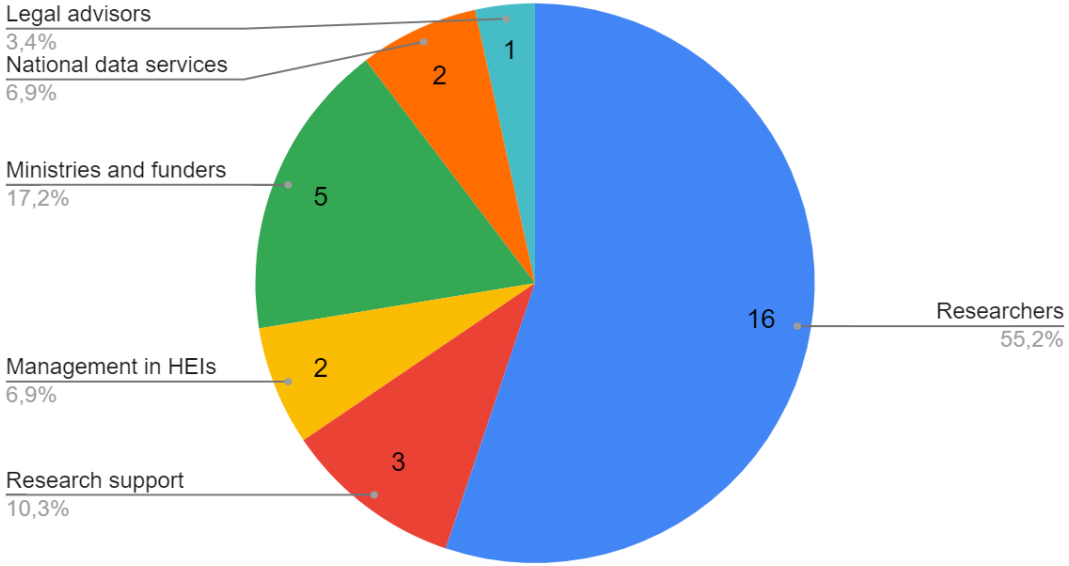
Qualitative study approach using semi-structured interviews. N= 29

Six stakeholder groups: researchers, research support, university management, RFOs & ministries of education and research, national data service providers, legal advisor

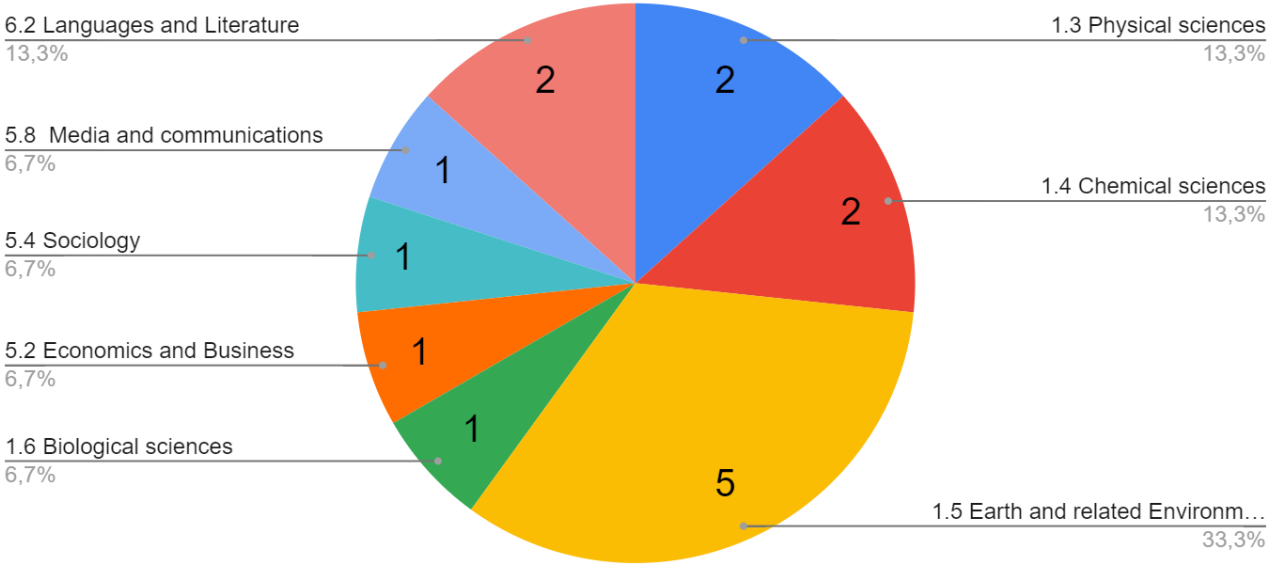
Respondents by country



Respondents by stakeholder group

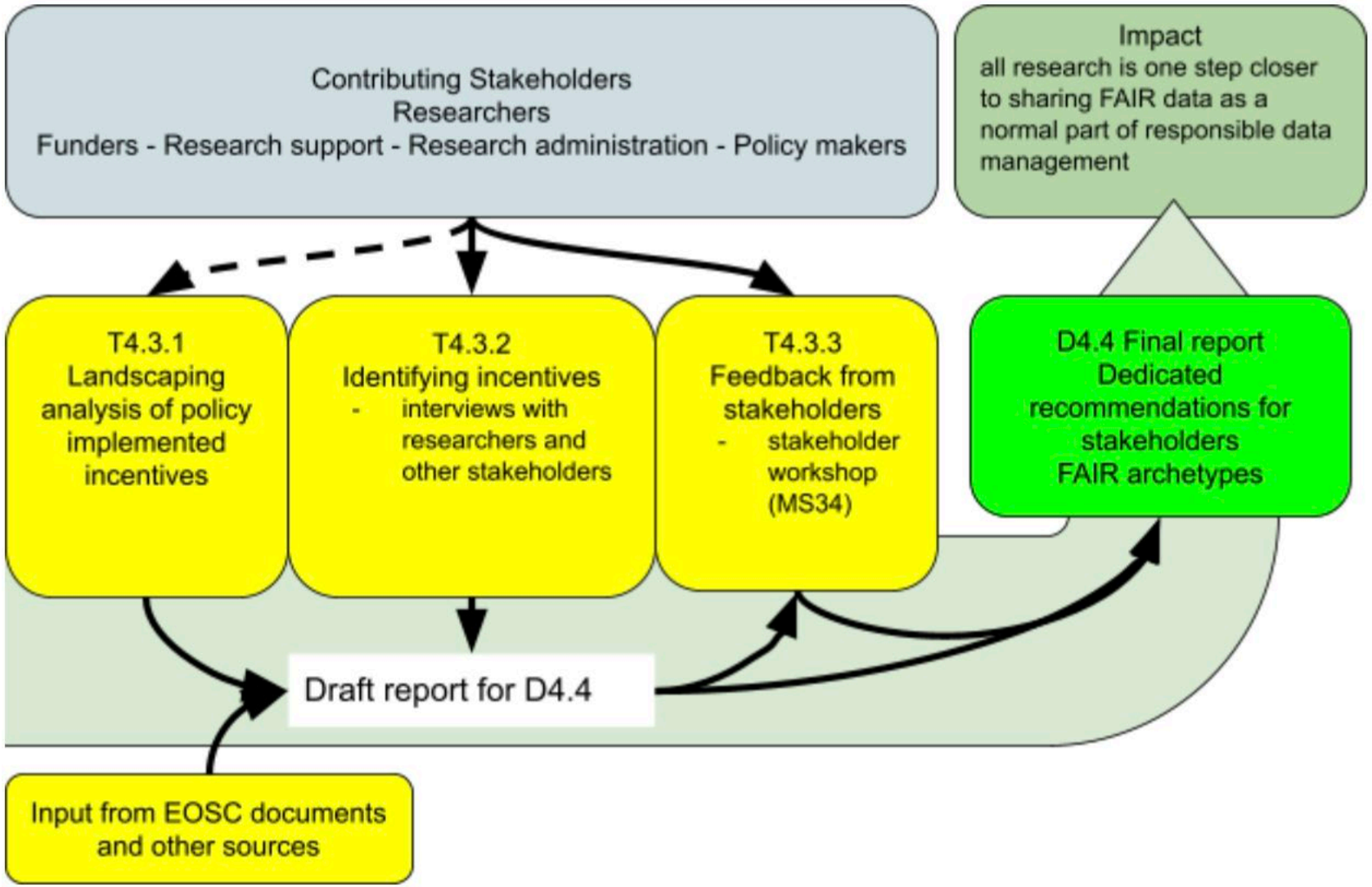


Researchers by OECD Field of Science



CC BY

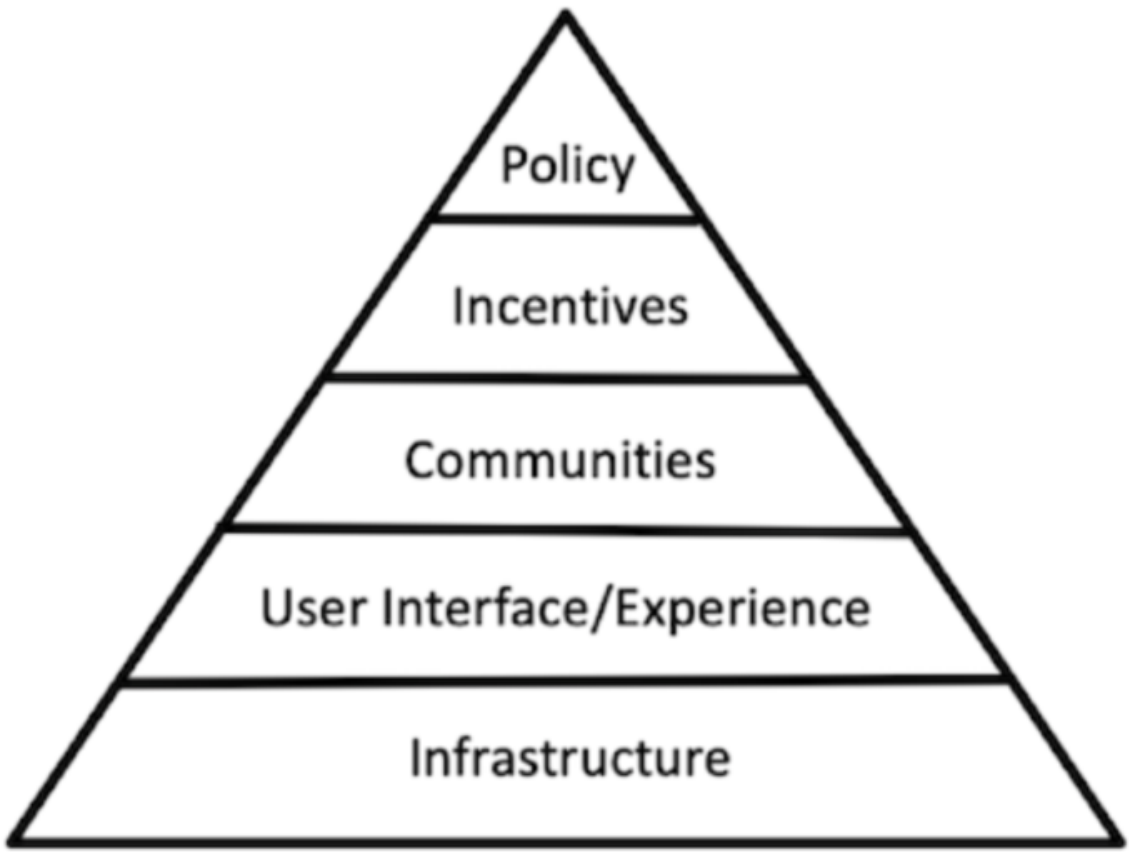
Input to activities and deliverable



A call for a Cultural Change

EOSC NORDIC

- Following the analysis of the interviews, it was discovered that there is a need for a cultural shift in research regarding FAIR data



Make it required

Make it rewarding

Make it normative

Make it easy

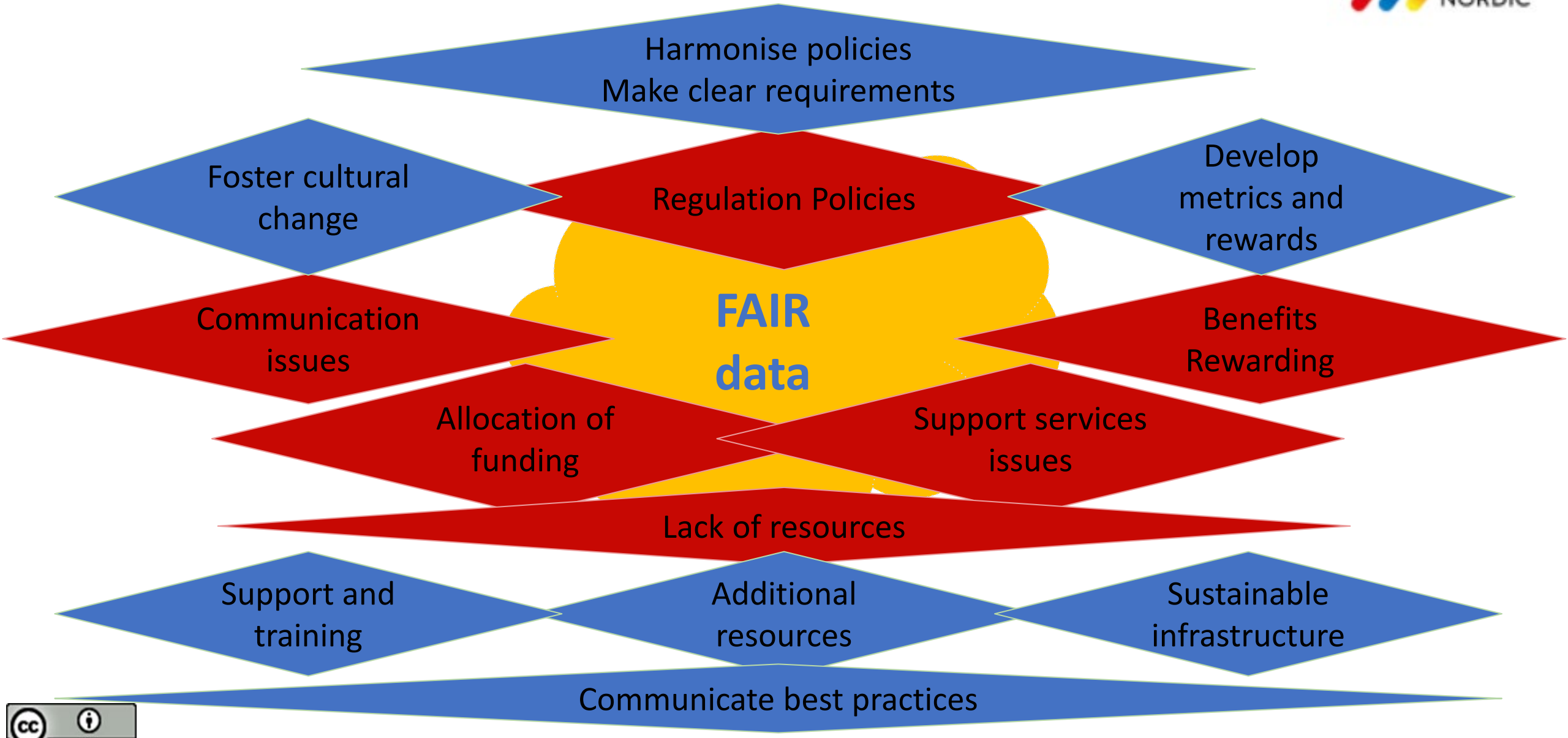
Make it possible

Finding of the qualitative study

Make it understandable and raise awareness

Stakeholder-specific action points presented for all levels

Source: Strategy for Culture Change, Nosek (2019)

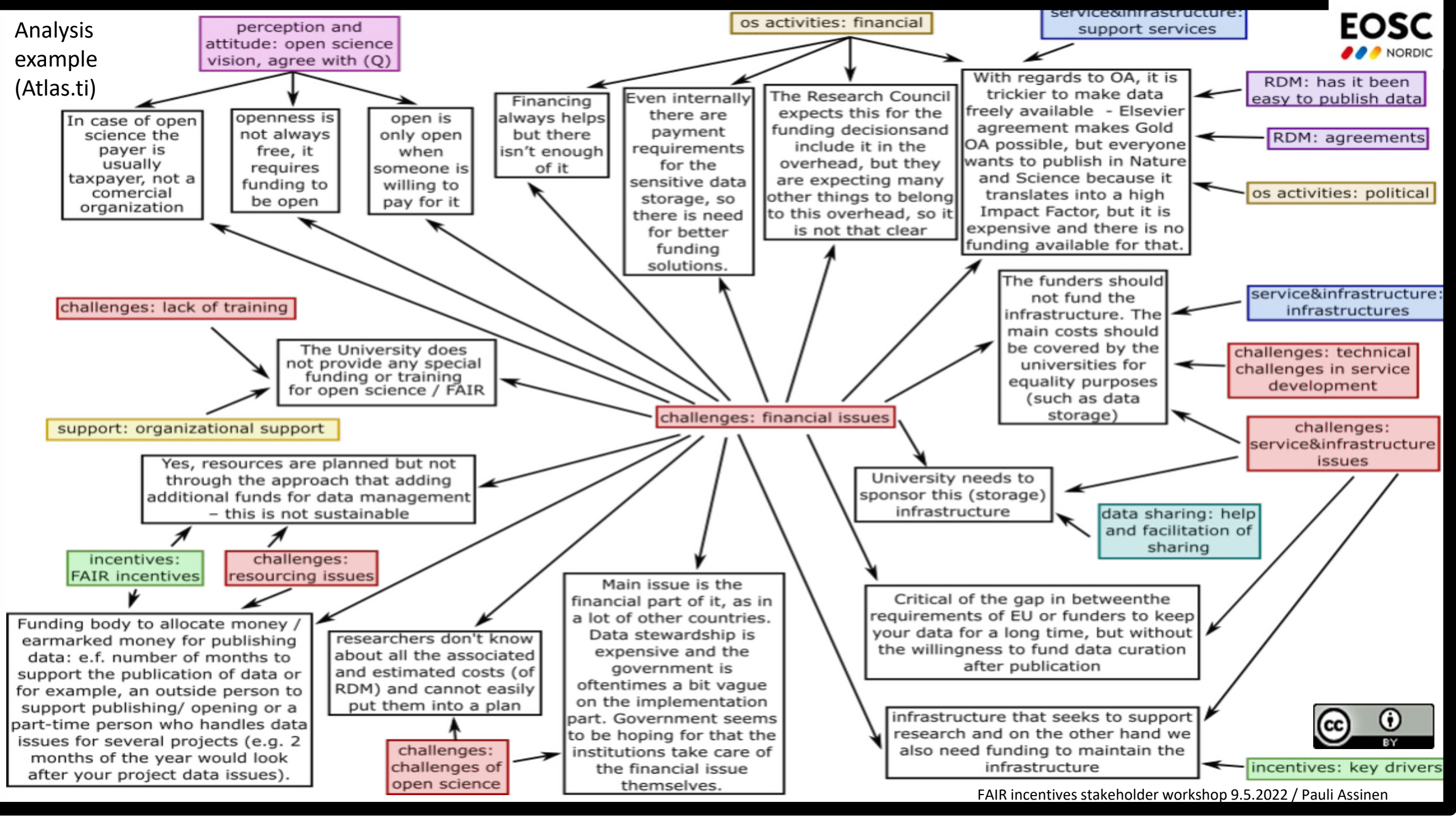

Harmonise policies
Make clear requirements
Foster cultural change
Regulation Policies
Develop metrics and rewards
FAIR data
Communication issues
Benefits Rewarding
Allocation of funding
Support services issues
Lack of resources
Support and training
Additional resources
Sustainable infrastructure
Communicate best practices

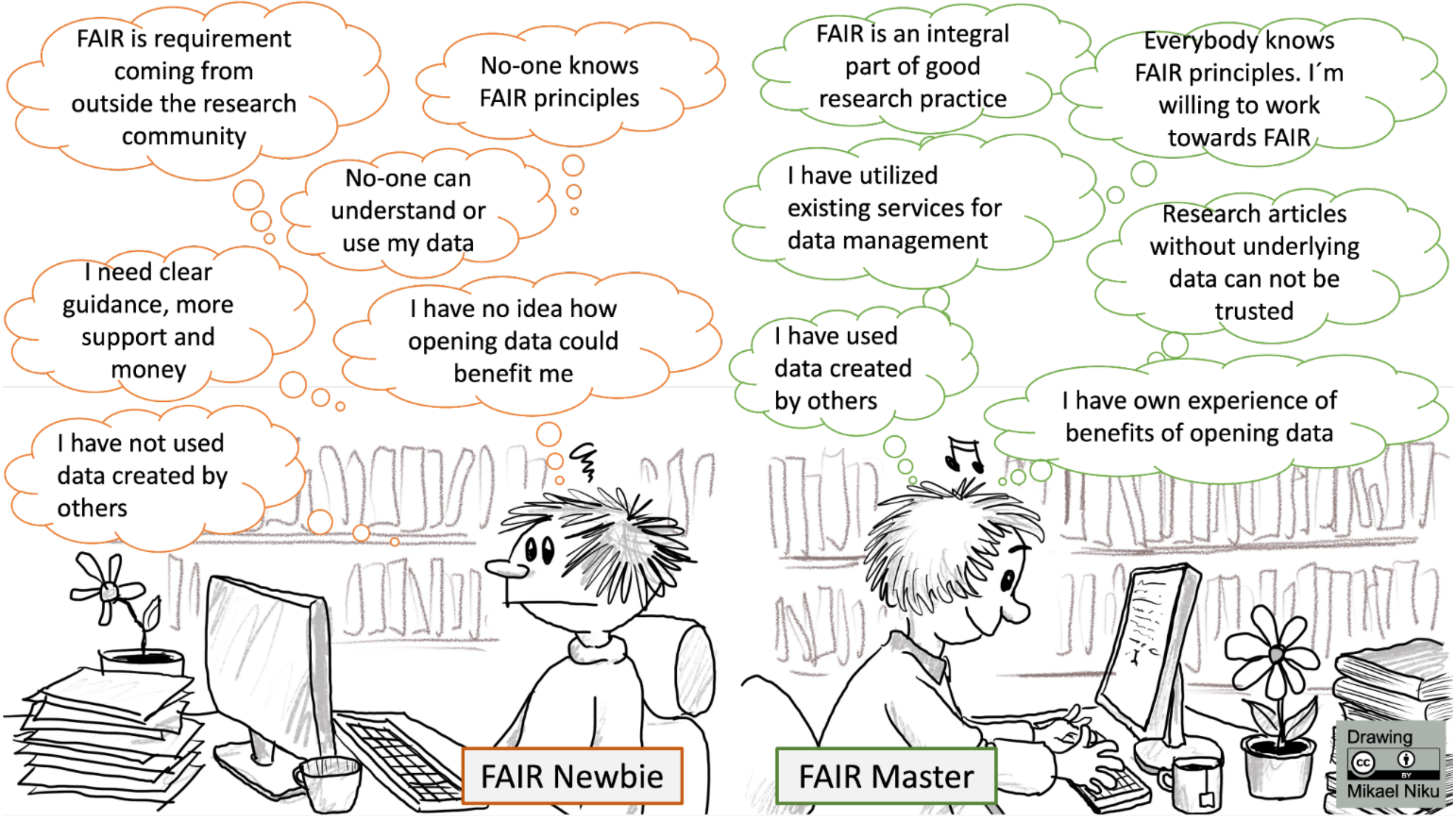
CC BY

Seven FAIR incentives themes

1. Offer additional resources for data curation and sharing (money and time)
2. Have a sustainable infrastructure in place for sharing and publishing data
3. Improve research support services and offer training
4. Develop data sharing metrics and a system based on merits
5. Develop clear requirements for data sharing and FAIR compliance
6. Foster a cultural change towards FAIR research
7. Communicate best practices

Analysis example (Atlas.ti)




FAIR is requirement coming from outside the research community
No-one knows FAIR principles
No-one can understand or use my data
I need clear guidance, more support and money
I have no idea how opening data could benefit me
I have not used data created by others
FAIR Newbie
FAIR is an integral part of good research practice
Everybody knows FAIR principles. I´m willing to work towards FAIR
I have utilized existing services for data management
Research articles without underlying data can not be trusted
I have used data created by others
I have own experience of benefits of opening data
FAIR Master
Drawing
Mikael Niku

Expected impact of increased FAIR uptake

EOSC NORDIC

Organisational FAIR data policies

Increase in motivation to conduct qualitative, transparent research

Increase in scientific impact

Machine-actionable DMPs

Easy and seamless information workflow between systems (RPOs–service providers–RFOs)

Supporting FAIR adoption in everyday research work

Enhances communication between the researcher and support staff. Facilitates planning and risk management

Properly funded RDM

Improved effectiveness of research

Increased awareness of FAIR data managememt and skills development

Trustworthiness of research outputs

Monitoring mechanisms for FAIR research

Enables following up on how publicly funded research is being used

Has a positive effect on compliance levels

Expected impact of increased FAIR uptake

EOSC NORDIC

Organisational FAIR data policies

Increase in motivation to conduct qualitative, transparent research

Machine-actionable DMPs

Easy and seamless information workflow between systems (RPOs–service providers–RFOs)

Supporting FAIR adoption in everyday

To significantly increase the uptake of FAIR, we need to take the next step from raising awareness and promoting understanding to start acting towards an environment that makes it **easy and rewarding** for researchers to comply with the FAIR principles

Properly funded RDM

Improved effectiveness of research

Increased awareness of FAIR data managememt and skills development

Trustworthiness of research outputs

Monitoring mechanisms for FAIR research

Enables following up on how publicly funded research is being used

Has a positive effect on compliance levels