

# FAIR incentives and expected impact in the Nordics, Baltics and EOSC

Josefine Nordling, CSC – IT Center for Science  
Senior Open Science Specialist  
Translating Open Science and FAIR policies into  
practice in Finland,  
29 May, 2023

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

# Ambitions of FAIR incentives task

- 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



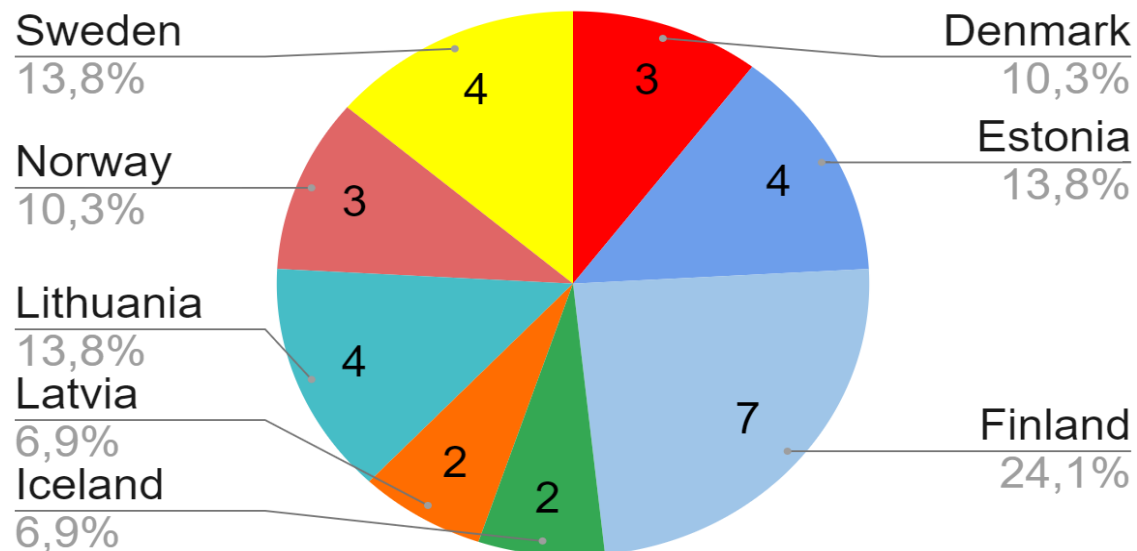
Literature review



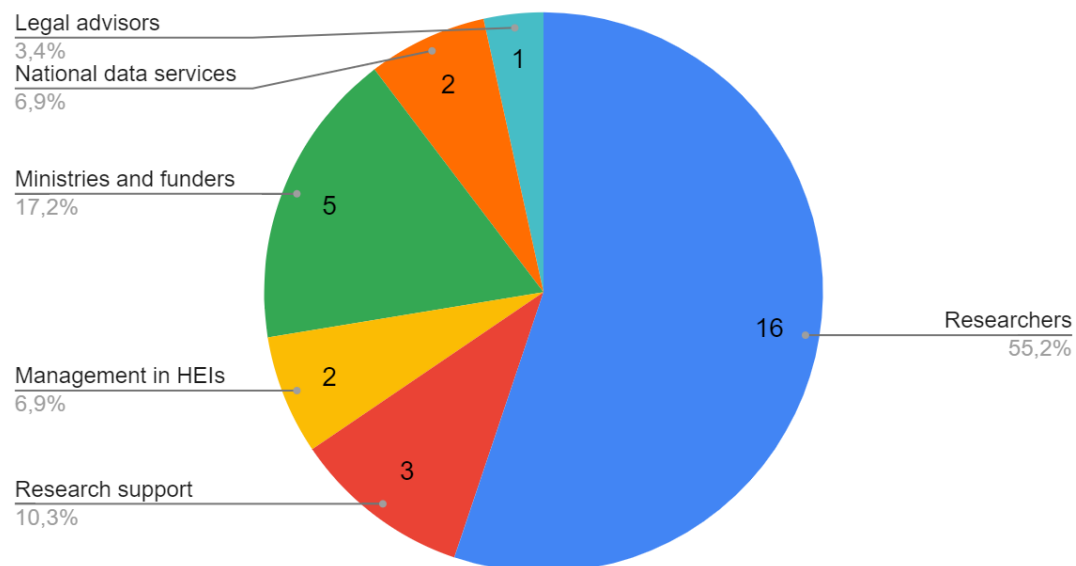
Qualitative study approach using semi-structured interviews. N= 29

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

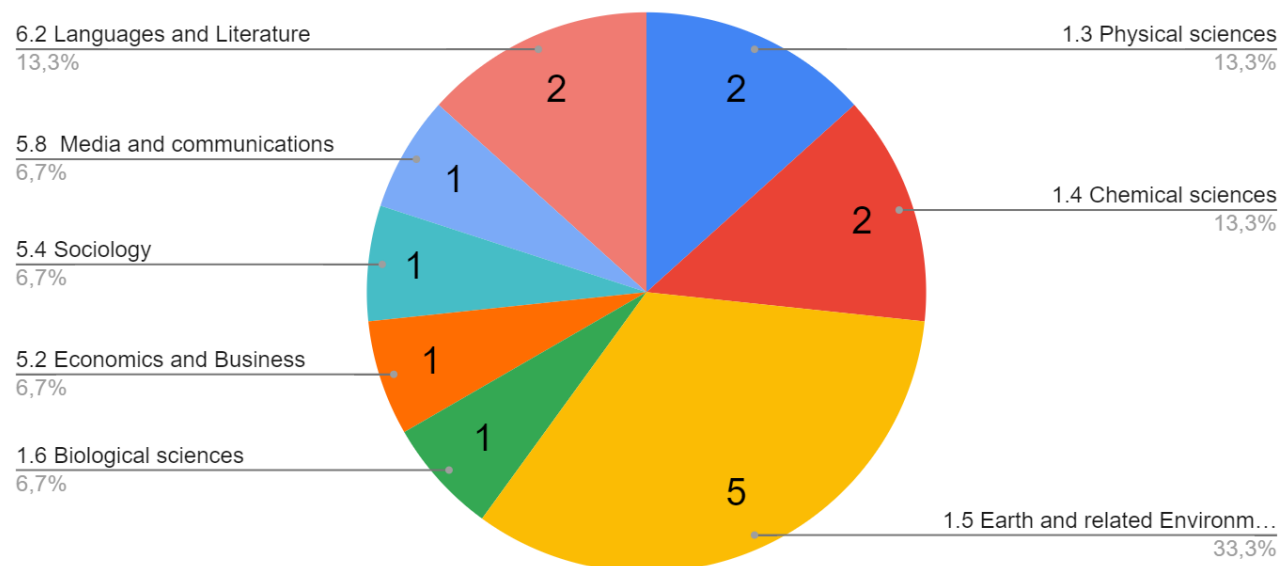
## Respondents by country



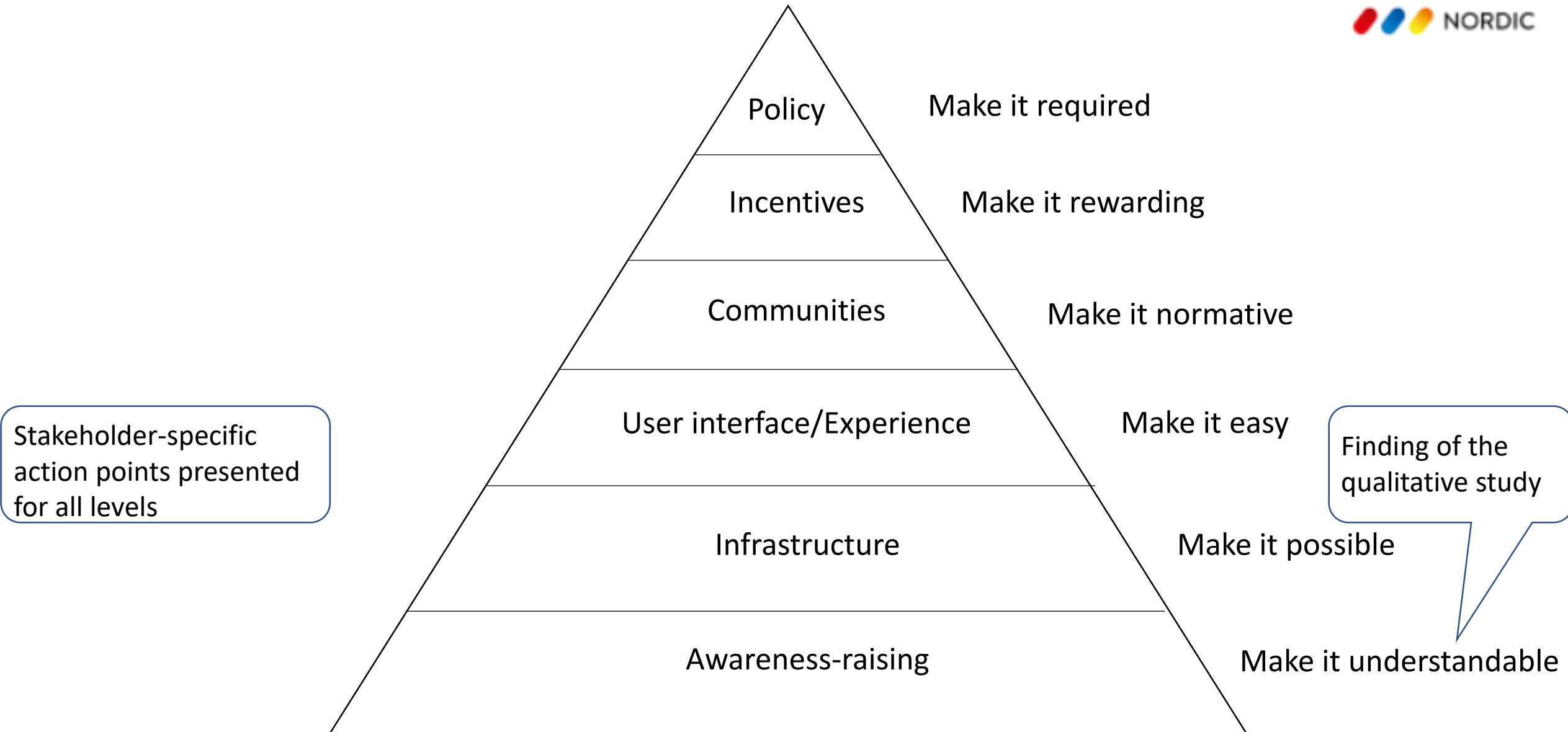
## Respondents by stakeholder group



## Researchers by OECD Field of Science



# A call for a Cultural Change



# Action points – Research Funding Orga

**Follow** EU-level developments.  
**Require** FAIR compliance and a DMP.  
**Monitor** the amount of data and data publications produced/published by the beneficiary using a PID.

Policy

Make it

**Assign** proper funding covering FAIR data management and needed resources.  
**Consider** setting aside a dedicated pot of funding for publishing FAIR data.  
**Assure** proper funding of the changes.

Incentives

Make it reward

**Assign** proper funding for FAIR DM.  
**Promote** using Machine Actionable DMPs and DMP tools.

Communities

Make it

**Promote** a general "cultural change".  
**Require** FAIRness of data as a condition to receive research grants.

User interface/Experience

Make it easy

**Provide** easy-to-use DMP templates and guidance.  
**Evaluate** and **give feedback** about data management planning.  
**Allow** merits for DM experience in funding evaluations.  
**Monitor** FAIR compliance.

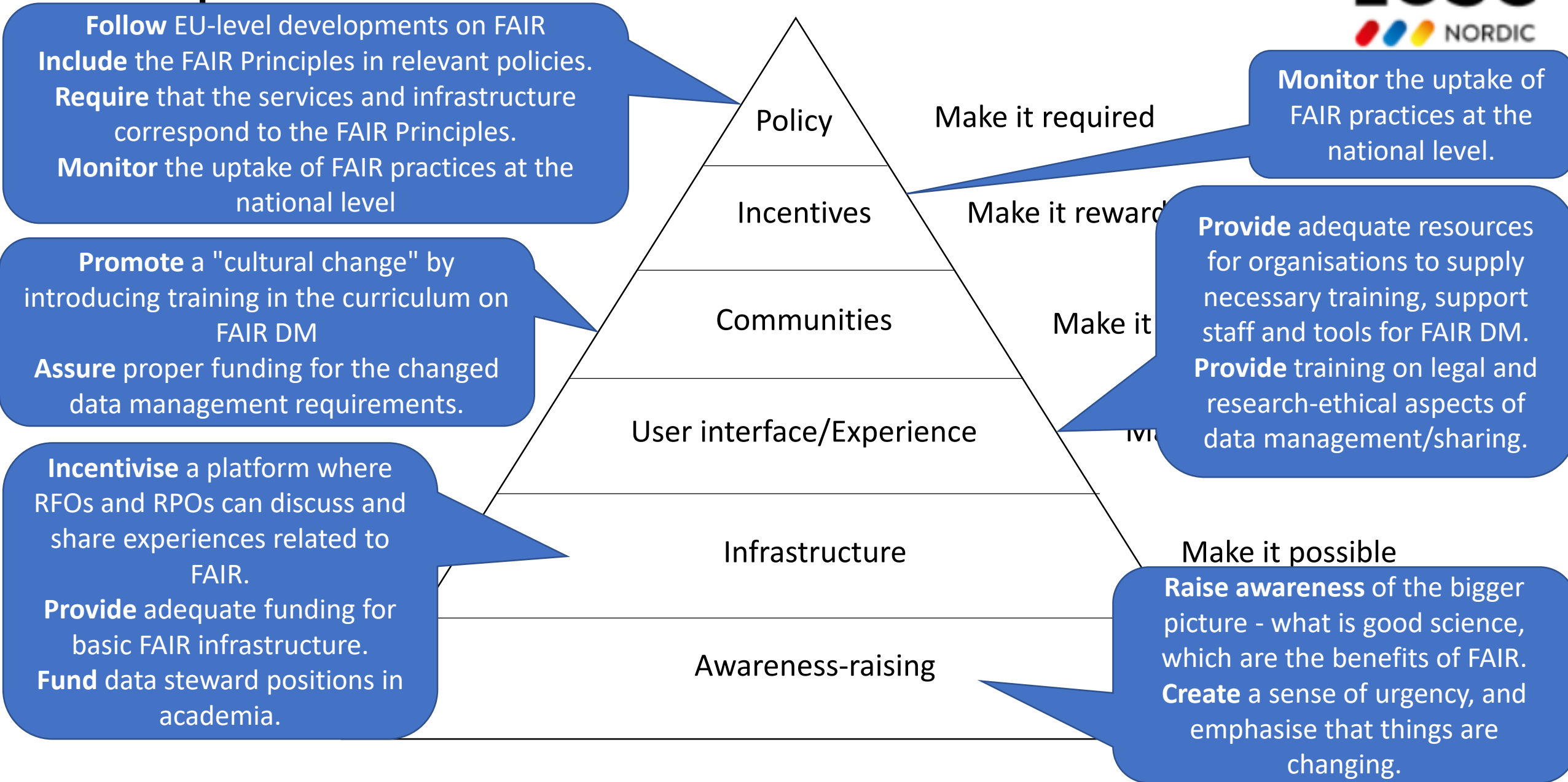
Infrastructure

**Recommend** and **promote** data repositories.  
**Structure** DMP templates in consultation with the research community.  
**Demand** DMPs for all applications to help make FAIR data by design and make the DMP part of the assessment.

Awareness-raising



# Action points – Ministries of education & research

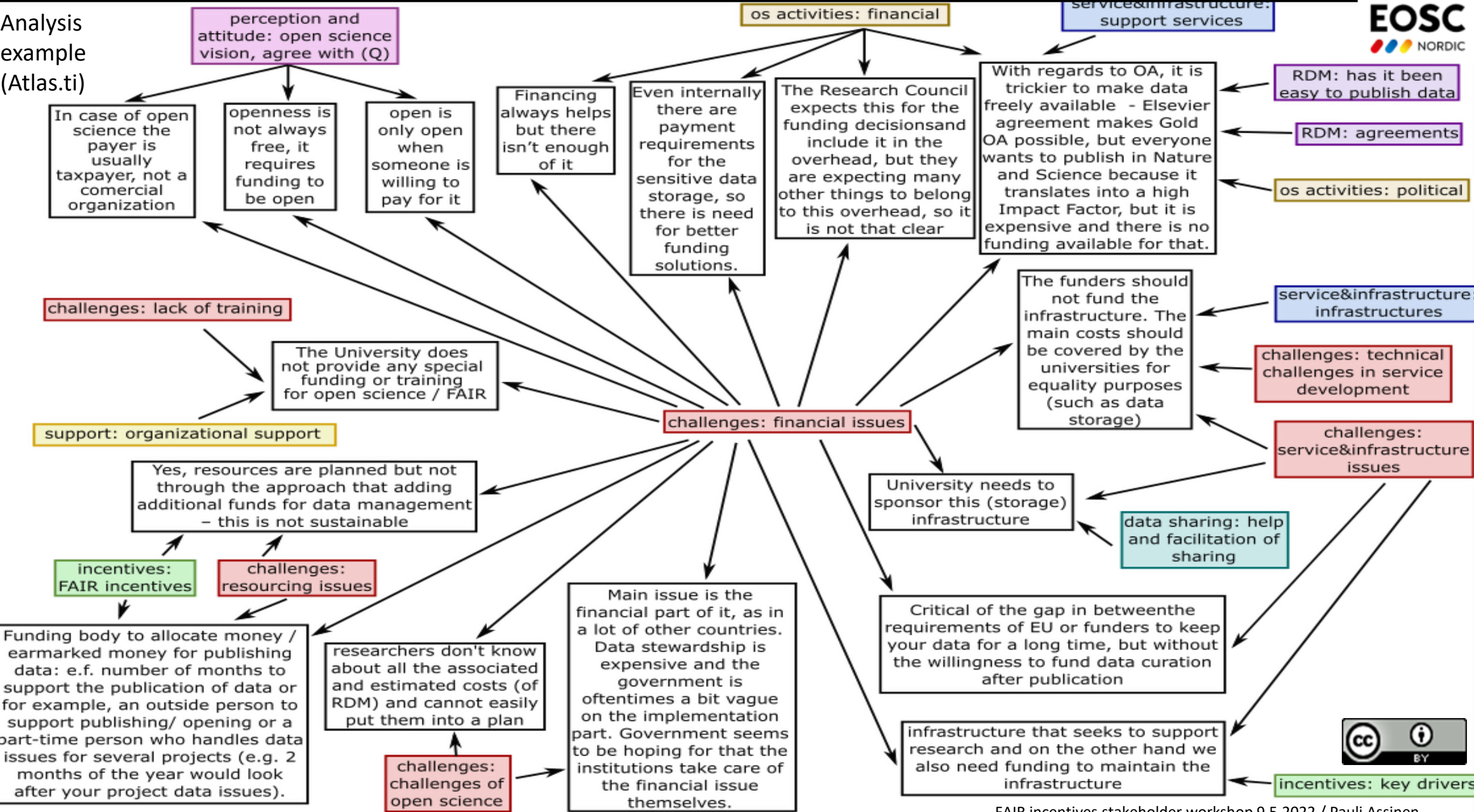


# Seven FAIR incentives themes

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

CC BY

Mikael Niku

# Expected impact of increased FAIR uptake



## **Organisational FAIR data policies**

Increase in motivation to conduct qualitative, transparent research

Increase in scientific impact



## **Properly funded RDM**

Improved effectiveness of research

Increased awareness of FAIR data management and skills development

Trustworthiness of research outputs



## **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



## **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

Increase in scientific impact



## **Properly funded RDM**

Improved effectiveness of research

Increased awareness of FAIR data management and skills development

Trustworthiness of research outputs



## **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



## **Monitoring mechanisms for FAIR research**

Enables following up on how publicly funded research is being used

Has a positive effect on compliance levels