

LONG-TERM WORK TOWARDS OPEN SCIENCE AND RESEARCH REFLECTED IN THE FORM OF EXCELLENT RESULTS IN THE MONITORING ON OPEN SCIENCE AND RESEARCH

AUTHORS: **Anne Kärki**, (anne.karki@samk.fi) Satakunta University of Applied Sciences; **Hanna Lahtinen**, Laurea University of Applied Sciences; **Seliina Päällysaho** Seinäjoki University of Applied Sciences

Open Science Conference 2023, Berlin 29.6.2023



INTRODUCTION

In Finland **The Declaration for Open Science and Research 2020-2025** presenting a common vision for the Finnish research community was published in **2020**.

Monitoring is meant to support the development of open science and research in organisations, support and verify the achievement of the objectives agreed in the Declaration and policies and form an overall view of the state of openness in Finnish science and research.

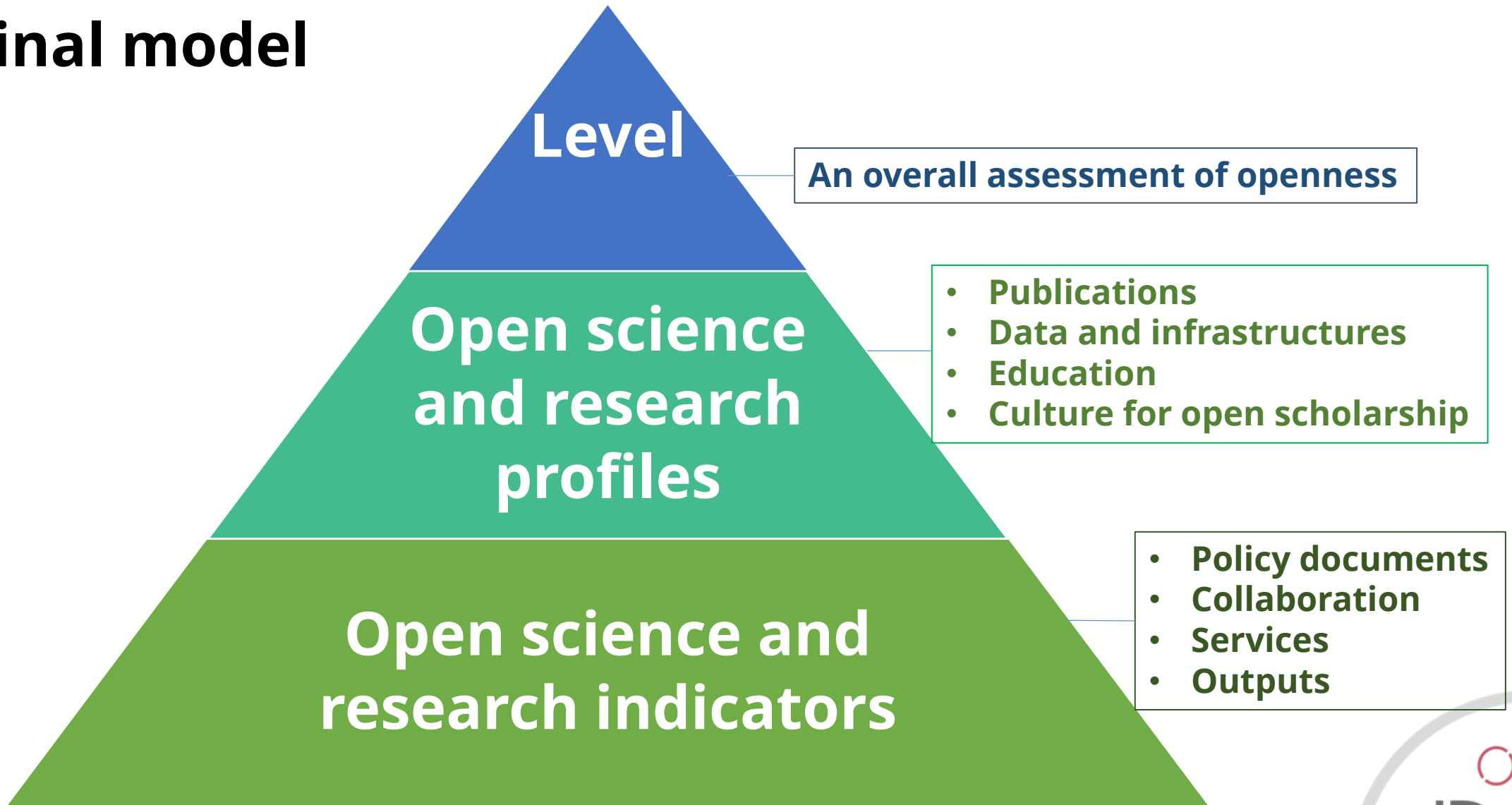
The monitoring was carried out for the first time in 2022. And it was light and largely based on existing and well-known indicators and the needs of European monitoring. Piloting the indicators was carried out by the coordination of Open Science and Research together with the Finnish research community.

Open science and research are divided into four areas and indicators cover up these;

- Culture for open scholarship
- Open access to research data and methods
- Open access to research publications
- Open education and educational resource



Final model



IMPLEMENTATION OF MONITORING

- ONLINE – survey was done 19.5.-30.6.2022 [Survey indicators](#)
- Data from the <https://research.fi/en/> portal was retrieved in June and it was the 2021 data
- Scoring was based on indicators, points are accrued from each indicators and can be either "base points" or "additional points"
 - Base points were central to the implementation of the guidelines
 - Additional points were for practices that are still new, evolving or produces added value

Openness level 5: The average degree of the profile's areas is 3.5. All areas reach at least degree 3.

Openness level 4: The average degree of the profile's areas is 3. All areas reach at least degree 2.

Openness level 3: The average degree of the profile's areas is 2.5. All areas reach at least degree 2.

Openness level 2: The average degree of the profile's areas is 2. At least two areas achieve degree 2.

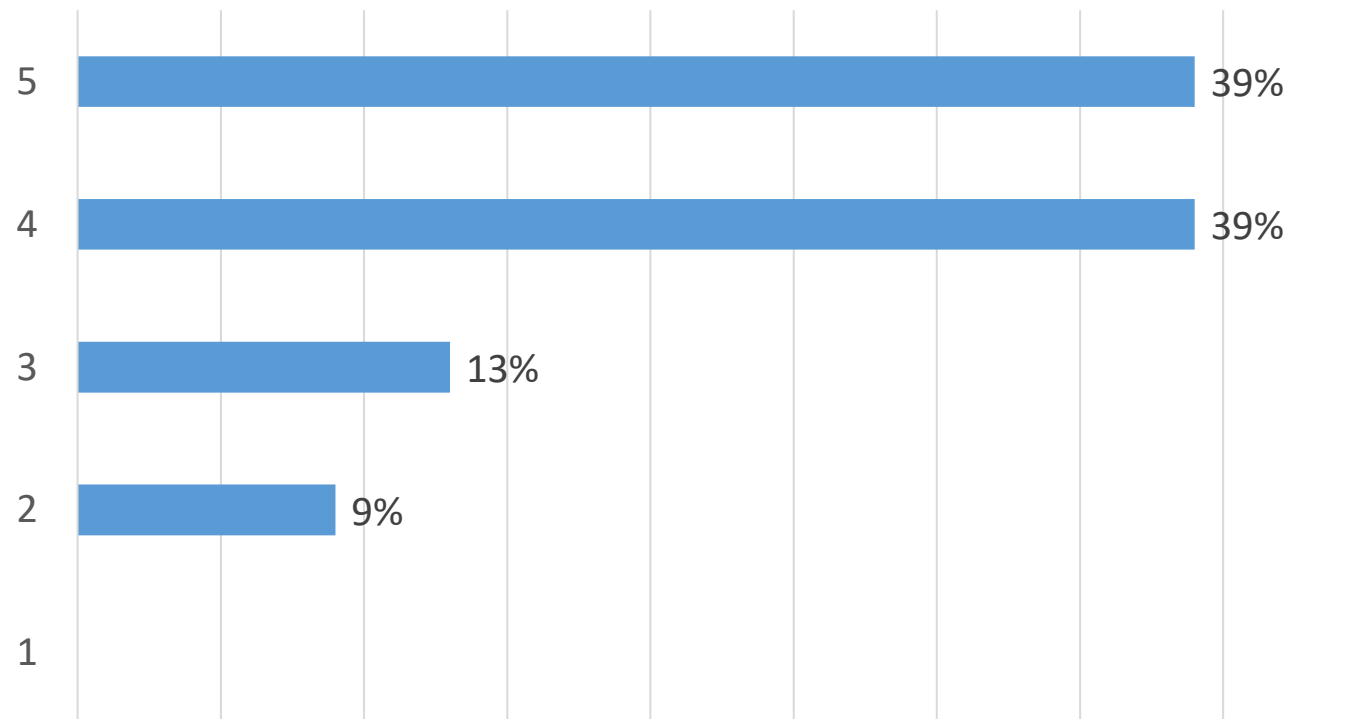
Openness level 1: The average degree of the profile's areas is 1.5.



MONITORING RESULTS OF UAS

All universities of applied sciences (N=23) participated and open data can be found [Monitoring of open science and research](#)

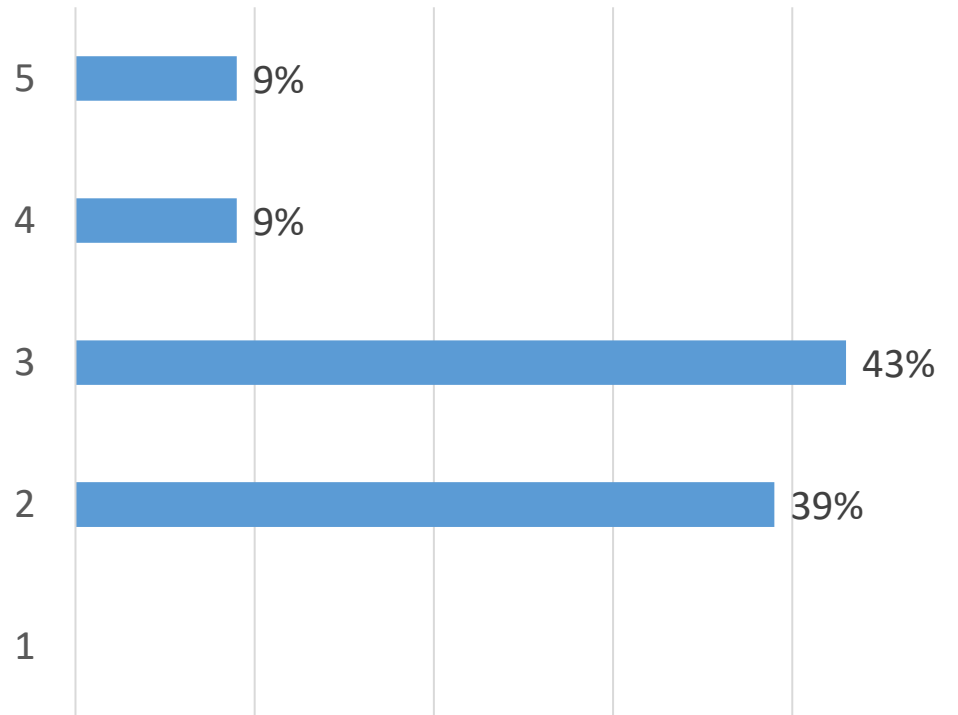
Overall assessment of openness level



Most (n=18) were on the highest level 5 and 4

3 universities were on the level 3 and 2 on the level 2

Culture for open scholarship

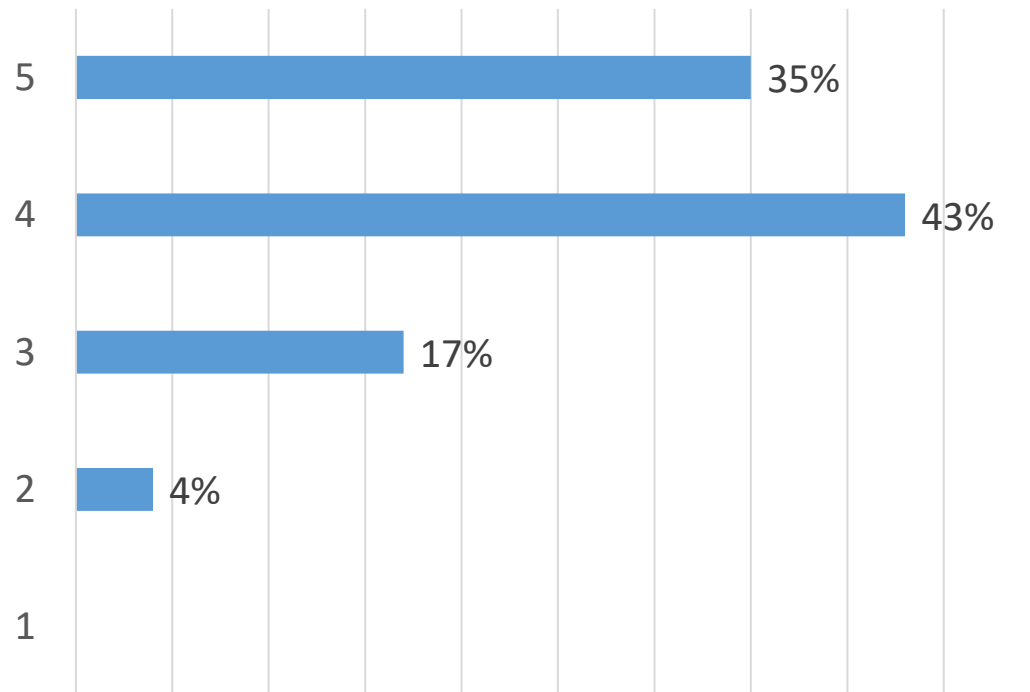


Two of UAS score on level 5 and level 4.
82% (n=19) got to the level 3 and level 2.

This part of the monitoring also affected to the overall results.

The Recommendation for the responsible evaluation of a researcher in Finland was evaluated in this section, and we can see from the results that this implementation was lacking.
Also the role of Citizen Science was not clear in UAS-sector.

Data and infrastructure



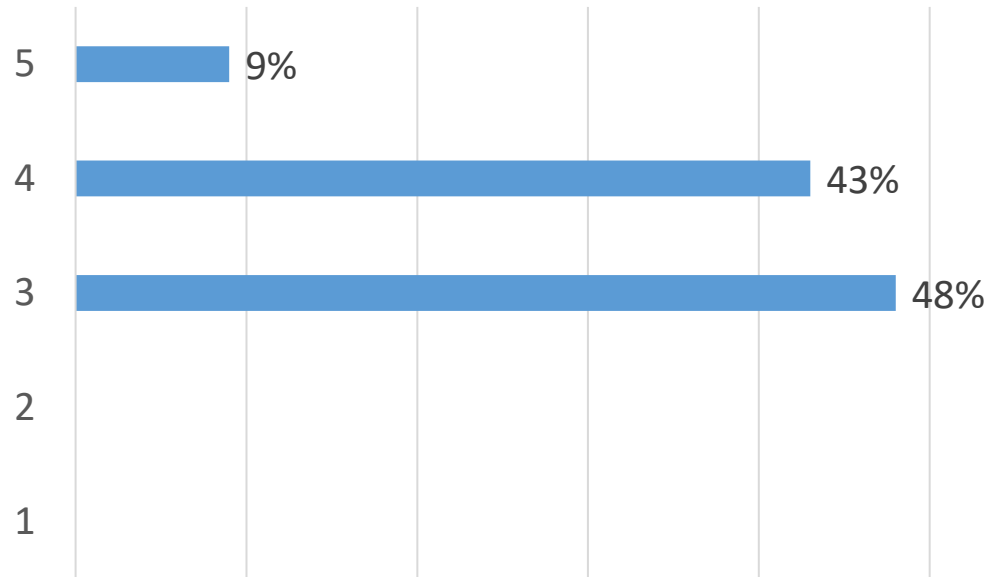
Major of the organisations were on a good level 4 and 5, 78% (n=18).

In the moderate level 3 there were 4 organisations and on the lower level 2 only one.

The data management practises are well supported and included in research processes.

At this first monitoring the amount of open data sets was not reviewed.

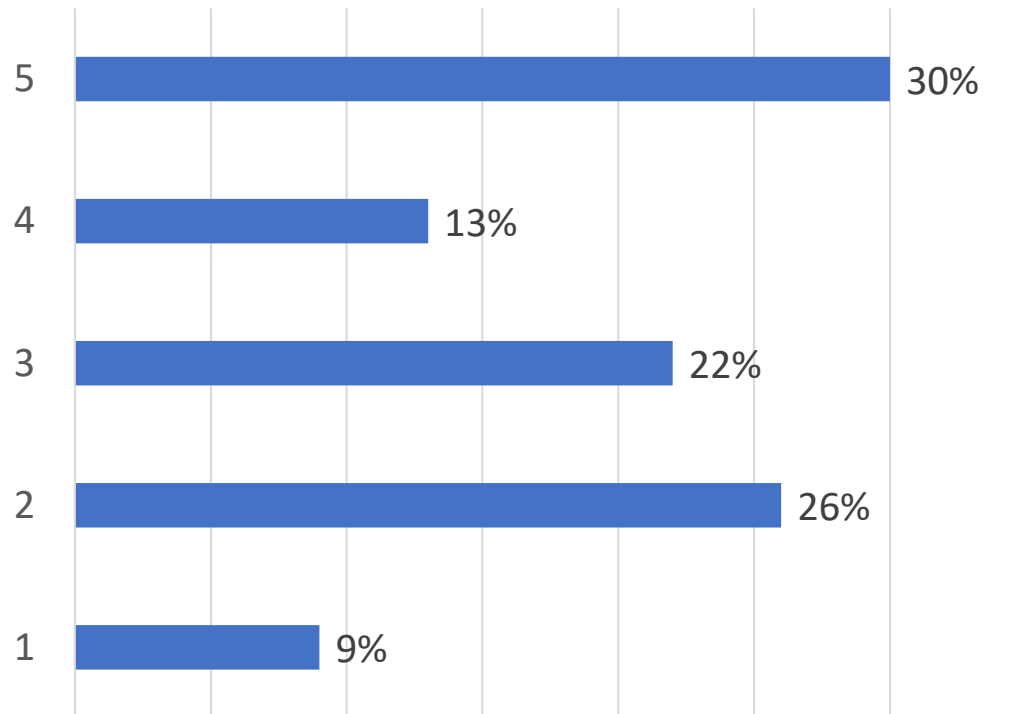
Publications



The results show that two of the organisations were on the level 5 and 43% (n=10) on the level 4. Most of the UASs (48%) were on level 3.

The monitoring gave lots of points to those organisations, who did parallel publishing. The parallel publishing is not the normal procedure in UAS sector while most of the organisation already use open publishing or open access channels for publishing.

Education



In the Open education UAS sector has already developed well, though there were variation among organisations.

On the levels 5 and 4 there were 10 organisations.
On the lower level 1 there two.
On the levels 2 and 3 there were 11.

The results showed that many organisations have a willingness to open education resources.
And practices of opening material are developed, though in this monitoring the number of OER was not reported.

Conclusion

The monitoring revealed that Universities of Applied Sciences in Finland are committed to the Declaration of Open Science and Research and have worked to promote open science practices in national and organisational level.

THANK YOU VERY MUCH!

Seliina Päällysaho (seliina.paallysaho@seamk.fi), Seinäjoki University of Applied Sciences,
Finland

Anne Kärki (anne.karki@samk.fi), Satakunta University of Applied Sciences, Finland

Hanna Lahtinen (hanna.lahtinen@laurea.fi), Laurea University of Applied Sciences, Finland

