

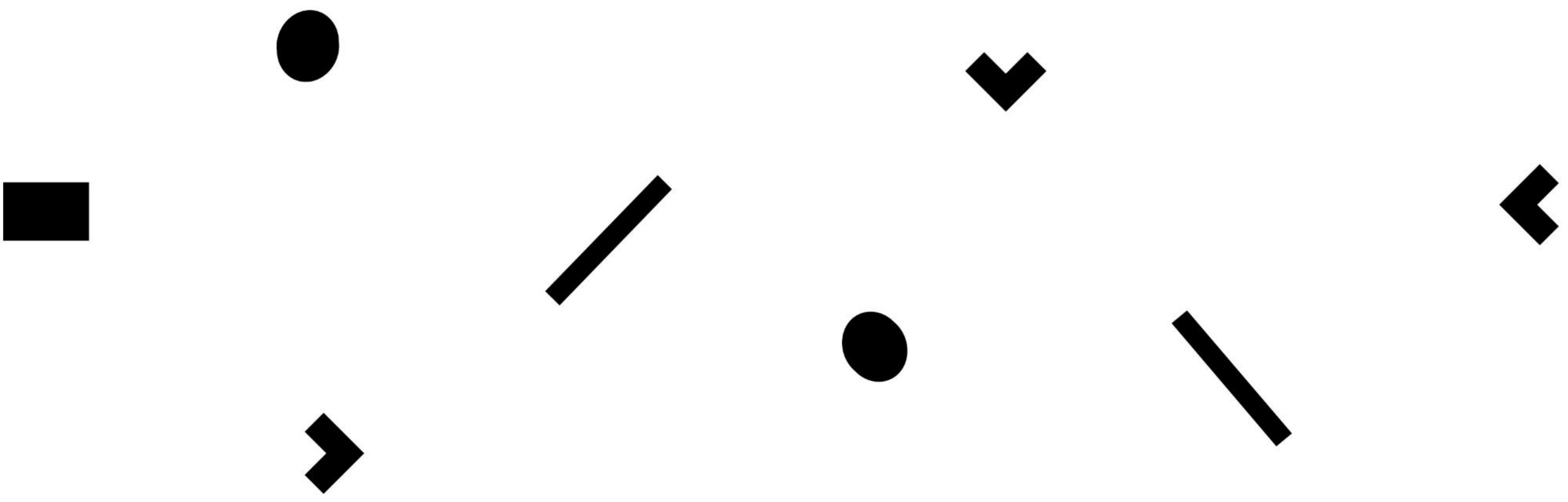
Information Specialist facing new
challenges:
open science and research and
scholarly publishing as new areas of
expertise

Johanna Kiviluoto & Riikka Sinisalo, Lahti University of Applied Sciences

Creating Knowledge IX
Vingsted | June 6-8 | 2018

About us

- [Lahti University of Applied Sciences](#) (Lahti UAS, LAMK)
 - international multidisciplinary higher education institution located in the city of Lahti
 - fields of study include culture, business and hospitality, social and health care and technology
 - around 5000 students and 400 faculty
- [Lahti Academic Library](#)
 - part of Lahti UAS
 - joint library for member universities of Lahti University Campus



Literature overview

Openness as a new professional landscape for academic librarians

- academic libraries support open dissemination of information
- the basic skills of librarians offer a strong starting point for understanding, developing and promoting the different aspects of open science
 - locating, organizing and disseminating information
 - creation, development and management of digital content in general
 - librarians with different academic backgrounds -> new angles and broader perspectives (Ogungbeni et al. 2016, Plutchak 2016)

Promoting openness: an agenda for libraries

- openness needs to be promoted in all organizational levels
(Ogungbeni et al 2016, 117)
- aspects of openness that are particularly important for libraries
 - their role in open publishing
 - the impact of openness on their collections and information service work
 - the rise of research data and methods as information materials alongside publications
(Keskitalo, 2015)

Professional role of an open science librarian

- the role of the academic library has evolved together with the priorities of the academic institutions (Ogungbeni et al. 2016, 114)
- evolving roles place librarians in more intimate and embedded relationships with the surrounding research community (Plutchak 2016, 4)
- a shift in perspective:
thinking more what's best for the organization on whole, not what is best for the library itself (Plutchak 2016, 4)
- new role as ambassadors of change, influencing and persuading campus stakeholders (Jaguszewski & Williams, 2013)

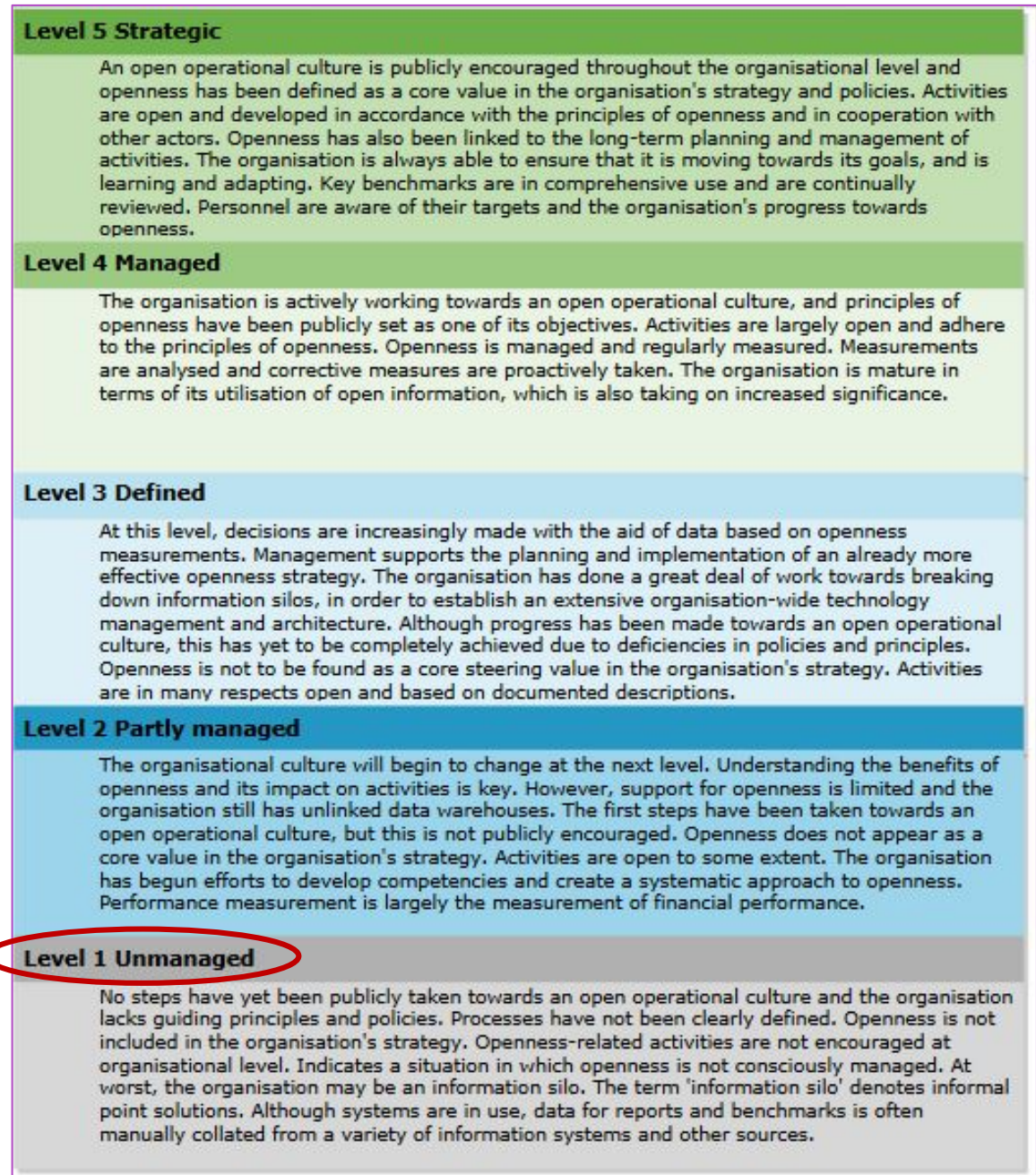


Information Specialists as
change agents for openness:
case Lahti UAS

How it all began...

- Finland's Ministry of Education and Culture's Open Science and Research Initiative 2014-2017
- Evaluation of the openness of Finnish research organizations in 2015 and 2016
- First evaluation in 2015 placed Lahti UAS in Level 1 -> a much needed wake up call

(Ministry of Education and Culture. (2015), Image by Ministry of Education and Culture 2017)



Building blocks of an open culture

- library became the unit responsible for developing OSR functions and publication activities in the early 2016
- development plans for both OSR and publication functions, updated yearly
- the OSR principles incorporated into the Lahti UAS RDI programme for 2016 to 2018
- taking part in national level projects for promoting openness
 - Enhancing openness in the user driven innovation ecosystem of universities (2015-2017)

Professional development

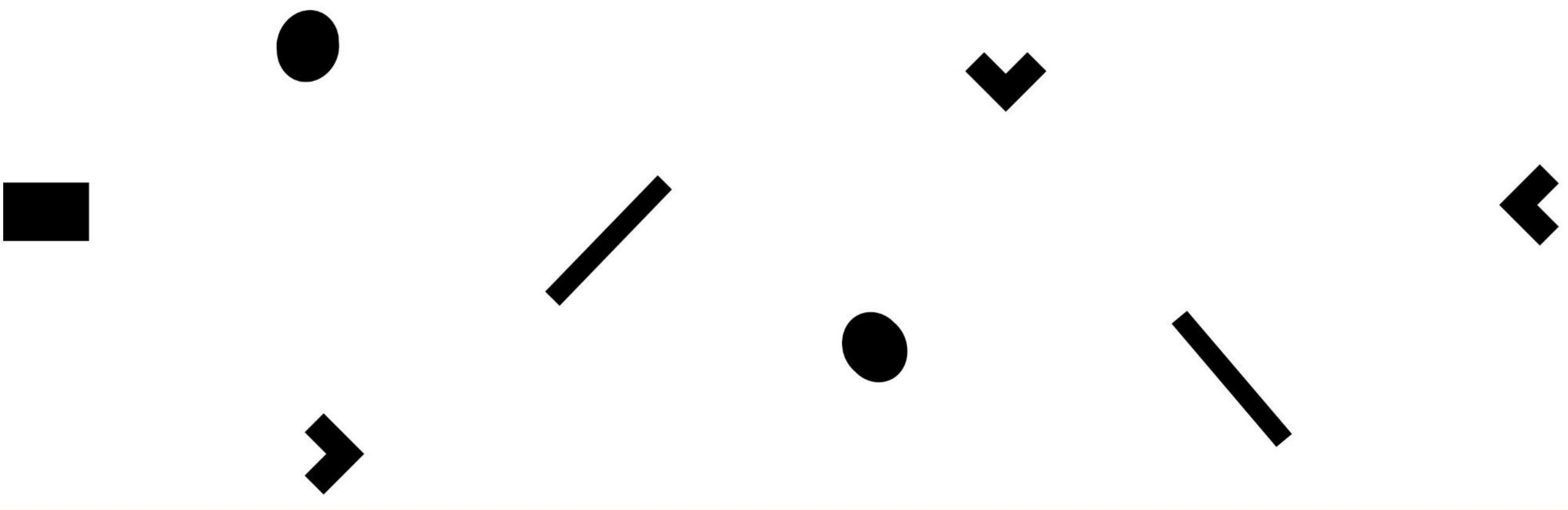
- New responsibilities, new skillset
 - OSR understanding
 - the familiarity with all the services linked to OSR
 - deeper expertise on copyright and data protection issues
 - scholarly publishing and communication
 - different technical skills
 - proactive and future oriented thinking

Ways of learning

- Open science and research training program, organized by National open science and research initiative (see Ministry of education and culture, 2018a)
- online courses and webinars
- benchmarking
 - several other universities of applied sciences and their OSR and publication processes were assessed
- trial-and-error
 - creating a solid set of guidelines as the work progressed to tackle gaps in processes

Practical steps

- the launch of a new open access publishing platform [LAMKpub](#)
 - LAMK Pro
 - LAMK RDI Journal
 - LAMK publication series (Theseus)
- OSR workshops and lectures for the staff of Lahti UAS
 - On-demand teaching and guidance bookable via web form ([fin](#))
- Guides for hands-on guidance
 - Guide to publishing ([fin](#) and [eng](#))
 - Guide to Open Science and Research ([fin](#))

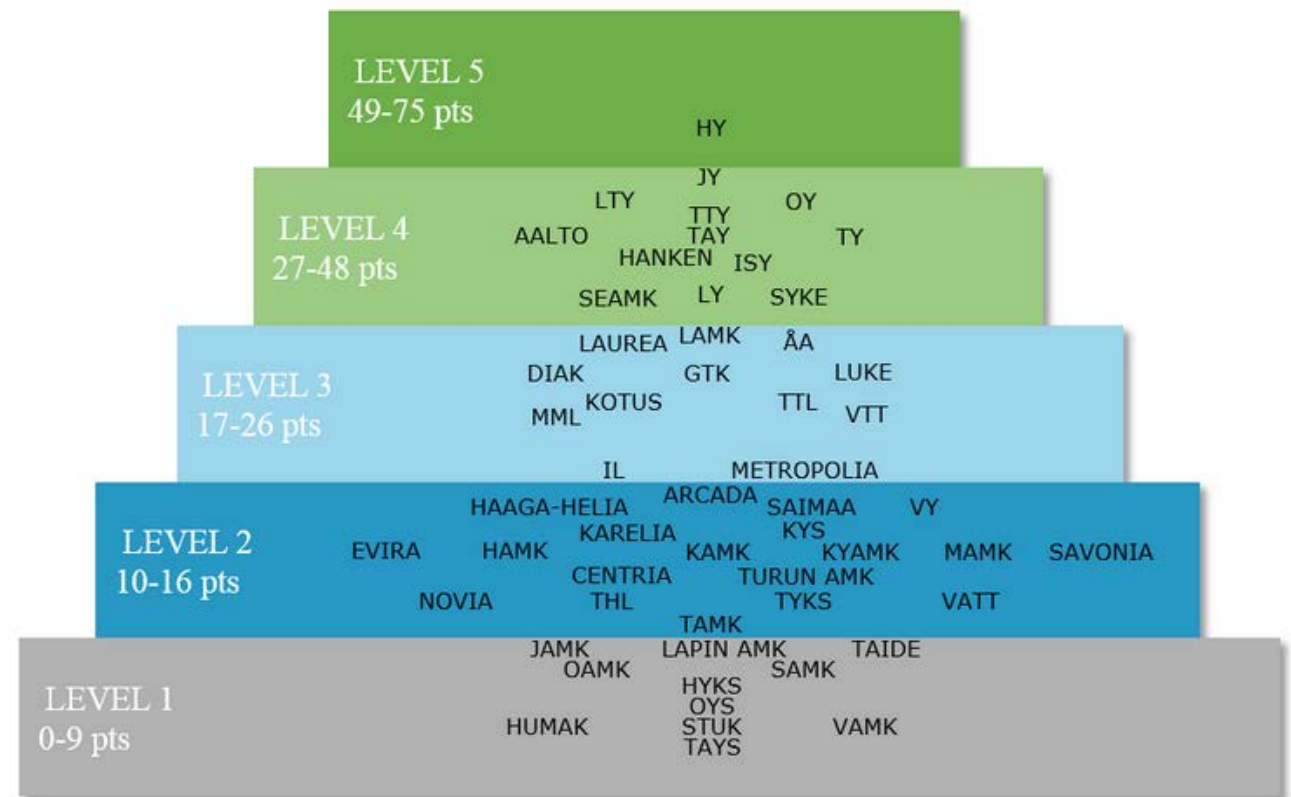


Results

Second evaluation of operational culture maturity of research organizations

- Lahti UAS climbed two levels up
 - 1 (unmanaged)
-> 3 (defined)
- the second highest UAS in Finland

(Ministry of Education and Culture 2017, 2018b)



What has changed organizationally?

- Openness becoming a new norm, rather than a peculiarity
- 94 percent of Lahti UAS publications were available open access in 2017
- The library is stretching out to organizational level strategies and goals in new ways

Open Science or Open RDI?

- Finnish higher education operates on a dual structure, which consists of universities and universities of applied sciences (UAS)
- universities conduct basic and applied research with an academic focus, while the universities of applied sciences have a more working life oriented approach in their teaching and research
- the principles of open science apply to UAS research, development and innovation (RDI) activities -> Open RDI

What has changed professionally?

- library personnel as partners in
 - organizational strategy work
 - RDI activities
 - projects
 - in-company training program
- diversifying the library's role

Future goals

- Working towards a level 4 (managed) maturity
- Concentrating on improving openness in teaching materials and open data provision and usage
- Promoting openness in projects
 - Opetus- ja tutkimusaineistojen laaja avoimuus key project, Ministry of Education and Culture (2017-2020)
 - Open RDI, learning and innovation ecosystem in Universities of Applied Sciences (Ammattikorkeakoulujen avoin TKI-toiminta, oppiminen & innovaatioekosysteemi, 2018-2020)
 - Strengthening the culture of openness (Avoimen toimintakulttuurin vahvistaminen)
 - Setting up an openness helpdesk (Avoimuuden palveluverkoston (helpdesk) käynnistäminen)
 - Opening RDI integrated learning (TKI integroidun oppimisen avaaminen)

Thank you!



Johanna Kiviluoto

johanna.kiviluoto@lamk.fi

+358 44 708 0701

Riikka Sinisalo

riikka.sinisalo@lamk.fi

+358 44 708 5016

References

- Jaguszewski, J. and Williams, K. (2013), New Roles for New Times: Transforming Liaison Roles in Research Libraries, Association of Research Libraries, Washington, DC. [Cited 25.4.2018]. Available at: <http://www.arl.org/storage/documents/publications/nrnt-liaison-roles-revised.pdf>
- Keskitalo, E-P. (2015). Open science opens up the library. [Online Document]. The National Library of Finland Bulletin 2015. Helsinki: The National Library of Finland. [Cited 21 May 2018]. Available at: <https://www.kansalliskirjasto.fi/extra/bulletin/2015/The%20National%20Library%20of%20Finland%20Bulletin%202015pdf.pdf>
- Ministry of Education and Culture. (2015). Avoin tiede ja tutkimus Suomessa : Toimintakulttuurin avoimuus korkeakouluissa vuonna 2015. [Online Document]. Helsinki: Ministry of Education and Culture, Open Science and Research Initiative. [Cited 25.4.2018]. Available at: <http://urn.fi/URN:NBN:fi-fe2016122731708>
- Ministry of Education and Culture. (2017). Evaluation of Openness in the Activities of Research Organisations and Research Funding Organisations in 2016. [Online document]. Helsinki: Ministry of Education and Culture, Open Science and Research Initiative. [Cited 25.4.2018]. Available at: <http://urn.fi/URN:NBN:fi-fe2016111829246>
- Ministry of Education and Culture. (2018a). Open Science and Research Training. [Cited 24.5.2018]. Available at: <https://openscience.fi/training>
- Ministry of Education and Culture. (2018b). Vipunen. Education statistics Finland. UAS Education, Publications. [Cited 1.6.2018]. Available at: <https://vipunen.fi/en-gb/polytechnic/Pages/Julkaisut.aspx>
- Ogungbeni, J.I., Obiamalu, A.R., Ssemambo, S. & Bazibu, C.M. (2018). The roles of academic libraries in propagating open science: A qualitative literature review. Information Development. [Online Journal]. Vol. 34(2), 113–121. [Cited 21 May 2018]. Available at: <https://doi.org/10.1177/0266666916678444>
- Plutchak, T. (2016). A Librarian Out of the Library. Journal of eScience Librarianship. [Online journal]. Vol. 5 (1). [Cited 16 May 2018]. Available at: <http://dx.doi.org/10.7191/ jeslib.2016.1106>