OPERA Workshop Report

The DEFF funded project, OPERA - Open research Analytics, hosted its first workshop at **DTU - Technical University of Denmark Wednesday 28th March 2019**. In this report we present highlights from the presentations, photos and tweets.

Photo: Vibeke Hempler

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Katrine Krogh Andersen, Senior VP & Dean of research at DTU welcomed the participants to DTU and addressed the need for Open research analytics as part of the Open Science agenda, highlighting Open Science initiatives at DTU.

Keynote - Merle Jacob (Lund University):
Engaging with Open Knowledge Practices: Present and Future Considerations for the Research Community

With a profound background in research policy and governance in higher education and research, Merle Jacob opened the day with a stimulating review of the present state of Open Science. She mentioned benefits but also the discontents represented by tradeoffs. The move towards Open Science is not without implications for the various stakeholders. Merle Jacob challenged the audience by implying that "Open is neither cheaper nor necessarily better" for the researcher.

Keynote - Katja Mayer (University of Vienna):
Monitoring = Power

Katja Mayer discussed that in order to change to Open Science we need to change the questions and focus on what we want to achieve with research through Open Science. Changed questions call for new types of infrastructure to steer away from the fundamental challenge of commercial providers deciding how and what to monitor. Hence, the need for open research analytics, with transparent well-documented infrastructure, open methods, open interfaces and open data. Katja Mayer urged the participants to discuss how to engage with open infrastructure and concluded her keynote by stating: "We must own the pipes".

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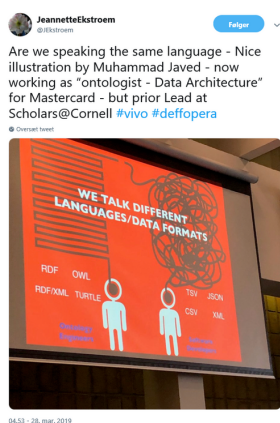
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Workshop track: Analytics Data & Systems (WP1)

The session started with an update from OPERA's WP1, including a demonstration of the VIVO/Web of Science-based DTU Research Analytics Platform developed as part of the OPERA project. The WP1 workshop track then had the pleasure of welcoming three OPERA project partners each providing insights on open data, analytics and systems.

The first speaker was **Ludo Waltman (CWTS, Leiden University)**, whose presentation "Analytics data – New options, quality and coverage" covered developments in scientometric data sources, including document coverage of Scopus, Web of Science and Dimensions. Ludo Waltman discussed the completeness and accuracy of citation links of the three data sources and advocated for the Initiative for Open Citations and open metadata and presented participation reports from Crossref including data on availability of abstracts and affiliation information.

Christian Hauschke (German National Library of Science and Technology, TIB) followed with a presentation on "ROSI – Reference Implementation for Open Scientometric Indicators". Christian Hauschke explained that the motivation for the ROSI project was to base research assessments on open scientometric data and indicators as well as to involve the scientific community. Christian presented the project roadmap, which includes the development of a reusable prototype for customizable scientometric indicators in VIVO. Finally, Christian introduced the Registry of Open Scientometric Data Sources that collects metadata openly allowing for reuse and collaboration.

Muhammed Javed (previously Cornell University, now Mastercard) explained that the VIVO-based Scholars@Cornell system was envisioned as a research information management system as opposed to a faculty profile system, which has been the traditional VIVO use case. Javed presented the VIVO/Scholars infographics after which he shifted focus to data, illustrating how uberization works as a mechanism to merge scholarship data from different sources. Finally, Javed explained how OpenHarvester could be used as a generic author disambiguation tool by harvesting metadata from different sources for an author.
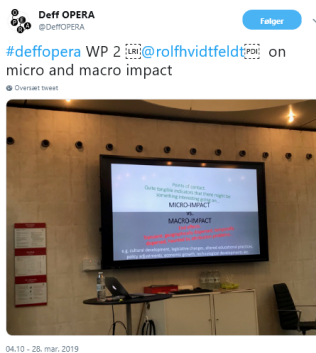
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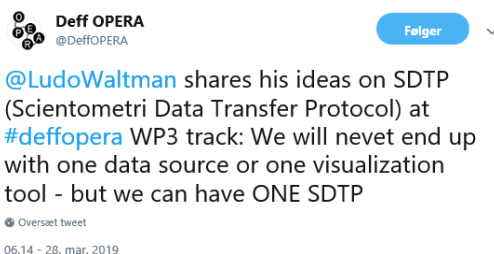## Workshop track: Impact Taxonomies and Pathways in the Humanities (WP2)

The WP2 track consisted of four presentations by **David Budtz Pedersen (Aalborg University), Rolf Hvidtfeldt (Aalborg University), Louise Armstrup (Aalborg University) and Katja Mayer - discussant (University of Vienna).** The presentations introduced key building blocks for designing a Responsible Impact Indicator for Open Science by allowing researchers to have significant influence on how their impact is represented and communicated.

Moving beyond simplistic notions of bibliometric and economic impact, the presentations outlined the ReACT Taxonomy as one among several possible routes to tracking and assessing the broader impact of research upon society. The research project "Responsible Impact" (2016-2020) led by David Budtz Pedersen is an explorative study aiming at developing new metrics and impact indicators for Open Human Science. Katja Mayer responded with contributory reflections and remarks and there was an open and lively Q&A session with the audience

Workshop track: Network Analysis and Visualization (WP3)

The WP3 workshop track had the pleasure of welcoming three OPERA project partners, who gave their different perspectives on the development of indicators in the context of research analytics

First **Ludo Waltman (CWTS, Leiden University**) gave insight to the upcoming VOSviewer developments. Ludo Waltman also introduced a new idea of simplifying data exchange between scientometric data sources and scientometric tools with use of a 'Scientometric Data Transfer Protocol (SDTP)' concluding: "we will never end up with one data source or one visualization tool, BUT we can have one SDTP".

Pedro Parraguez (Dataverz) followed up by presenting a problem-driven approach when working with the development of indicators. This approach was set in to play with Pedro exemplifying how one could use bibliometric data to explore the potential of research ecosystems, complementing and unfolding the traditional scientometric indicators.
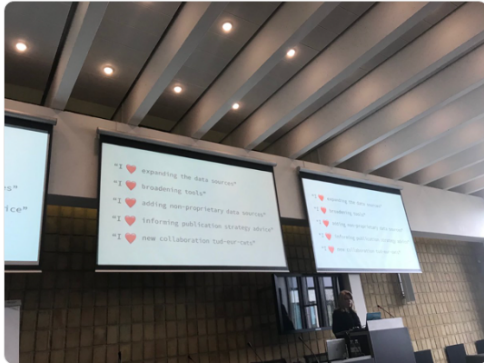
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Love from TU Delft by Alenka Princic WP3 Track at #DeffOpera

Oversæt tweet

06.58 - 28. mar. 2019

Alenka Prinčič (TU Delft Library) put the two previous talks into a more practice-oriented perspective, detailing the experiences TU Delft has made through the AIDA project, which explored the possibilities of VOSviewer when analyzing research areas and trends. Her recommendations when working with new indicators are: always look at the same challenge from different perspectives; make sure you have the required skills represented within your team; and make sure that the appropriate data is available.

There were two common threads throughout the WP3 track. The first one addressed the need to move from a 'retrospective-characterized' to a more 'predictor-characterized' perspective when working with research analytics and scientometric indicators. The second one addresses the need for the research eco-system to evolve before introducing new indicators, as closed/restricted data makes new indicators difficult to explore.

Workshop Track: Open Science Support (WP5)

The workshop track from WP5 on 'Open Science Support' was led by **Birger Larsen (Aalborg University).**

First speaker was **Merle Jakob (Lund University),** who presented and gave an update on work of the EU Expert Group on Indicators for Researchers' Engagement with Open Science and its Impacts. Merle Jacob discussed some of the reflections of the working group and the challenges of coming up with recommendations of clear, well defined indicators.

Christian Herzog (Digital Science) discussed how the Dimensions platform attempts to open and broaden research assessment practices, which traditionally has been focusing on publications and citations. With the launch of Dimensions, an attempt has been made, opening the indicators to a wider set of metrics; including grants, data sets, social media,

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Now another keynote at #deffopera by Christian Herzog of @DSDimensions about "Open Science – Should commercial Organisations be banned from contributing?"

Oversæt tweet

07.44 - 28. mar. 2019

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patents and policy papers. Broadening the range of metrics will enable researchers to demonstrate their impact in the scientific community and the public. Christian Herzog also discussed how Dimensions is constructed by illustrating how grants get converted into publications, which in turn get converted into clinical trials and patents, which lead to new grant applications.

Ivo Grigorov (DTU Aqua) presented the Foster Open Science Clinique discussing how re-thinking the research cycle could help researchers improve their research and secure grants. This can be done by focusing on the end user and how the research can reach these, empowering the public through research.

The WP5 session finished with a brainstorm on how to identify and evaluate ways that Open Science efforts may form part of research analytics, metrics and evaluation.

Keynote: Christian Herzog:
Should Commercial Organizations be Banned from Contributing?

Christian Herzog (Digital Science) addressed the seemingly adversarial relationship between Open Science and commercial stakeholders in his keynote. As in the "Open Science Support" WP5 track, Christian Herzog presented the idea behind Dimensions as an alternative to the established citation databases and an infrastructure provider for the research community – providing data and API access to data in order to enable more analytical use of the data – without commercially defined proprietary indicators. Christian Herzog concluded by encouraging the open science movement not to exclude – per default – commercial partners in the transition towards open science.

Thank you

To all the **presenters** at the OPERA workshop for giving thought-provoking and valuable insights into the complexities of Open Research Analytics.

To the **WP leads** for discussing the results of the OPERA project so far.

To all the **participants** for their engagement in the discussions.

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