

#### **Aalborg Universitet**

#### The Use of PIDs in Research Assessments

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PIDapalooza 2020

# The Use of PIDs in Research Assessments

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# **Background – OPEn REsearch Analytics**

*In the OPERA project we:* 

**Explore and review:** 

Reports and reviews soon to be published on https://deftopera.dk Opportunities and barriers to include Open Science and Oper in research analytics

**Identify:** 

the most relevant and promising indicators for data Open Science

**Examine:** 

relevant quantitative indicators for the societal impact of research in the humanities and social sciences

Metrics

Develop:

Research analytics systems with **Open**:

Software

**Systems** 

Code

Tools for visualization and analysis

**Indicators for Research Assessment** 



# **Background – OPEn REsearch Analytics**



Part of OPERA: A WP that aims at developing Open metrics and Open systems for a university's research assessment on university and department level. While the data will be traditional licensed bibliographic and bibliometric data, the concepts, metrics and system software will all be open, documented and freely available for reuse – including the adaptation to other data sets.

www.deffopera.dk

@DeffOPERA

Research Analytics Platform – Assessment Module (RAP Research Assessment)



# Research Assessments Today

Research assessment at universities is often a combination of quantitative analytical metrics and qualitative judgement by scientific peers.

 To generate and communicate such metrics well is quite a task – very human resource intensive.

#### For example

 At DTU, we only generate certain indepth metrics for researchers, their groups and departments, every five years – when a department is up for research assessment by international expert peers of its field. Based on data from closed and comercial vendors

Based on advanced but very static author/ affiliation searches

Hierarchical approach – management checks publication lists

#### **DISCLAIMER**

From the perspective of a technical university



# Responsible Research Assessments – it starts with data!

Be open and transparent by providing data and methods used to calculate all metrics

DORA, San Francisco Declaration on Research Assessment

The range of data sources and indicators available to practitioners are constantly changing (...)

Introducing SCOPE – a process for evaluating responsiby (The Bibliomagician)

Data sources should be clearly understood, accurate, up to date and have sufficient coverage for the purpose intended

Principle for the use of indicators in research assessment and management, St. Andrews University

Allow those evaluated to verify data and analysis

Leiden Manifesto for Research Metrics, Principle 5

How underlying data are collected and processed – and the extent to which they remain open to interrogation – is crucial.

The Metric Tide



# **RAP Research Assessment – motivation**

A shift from name/affiliation search to relying on PID's

A shift from a very human resource intensive task, to a more automated one

Engage the researchers in the research assessment process – giving them the control (somewhat) back

Making research assessment more flexible and hereby meeting the different needs of various scopes and stakeholders

Opening up the assessments and making them more researcher-centric. Hence meet the data requirements of responsible metrics

A more sustainable approach to research assessments also allocates resources to meet other perspectives of research assessment and impact



# **RAP Research Assessment – PID motivation**

A shift from name/affiliation search to relying on PID's

Engage the researchers in the research assessment process – giving them the control (somewhat) back

Opening up the assessments and making them more researcher-centric. Hence meet the data requirements of responsible metrics



Bottom-up approach

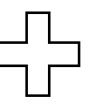
→ from affiliations to individuals Relying on PID's

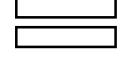
→ ORCID-based



# **Dynamic Research Assessments – bottom up data?**









#### **A University Research Analytics Platform**

Creating an assessment module where the researcher is involved more directly

- To do assessment metrics well, you must build them bottomup
  - From publication lists of individual researchers
    - Author identity challenge
  - Adding knowledge of the university's research organization
    - Organizational dynamics challenge
- To do such metrics with integrity, you must comply with the Leiden Manifesto
  - Principle 5: Allow those evaluated to verify data and analysis



→ Here's what we're planning for the next year



# **RAP Research Assessment – setup**



Single Researcher Info & Indicators Single Researcher Publication List

Research Group Info & Indicators

Depart.
Section
Info &
Indicators

Department Info & Indicators University Info & Indicators



Pull researcher **affiliations** from staff base/CRIS system

ID ORCID

Pull researcher **ORCIDs** from staff base/CRIS system

5

4

3

2

Pull indicators from InCites using WoS IDs

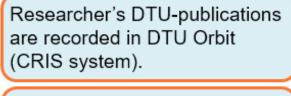


Pull publications from **WoS** using ORCIDs



# RAP Research Assessment – setup (ORCID)





DTU Orbit records are transferred to ORCID to become part of the global information flow.

In addition, researchers may search, select, and add their pre-DTU-publications directly in ORCID.

Researchers may also choose to search, select, and add publications via other systems/ID's which can then be exported to ORCID.



**DTU Orbit** 

ORCID

publons

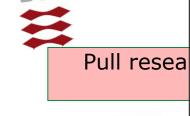
Crossref

Scopus

WoS IDs



ORCIDs

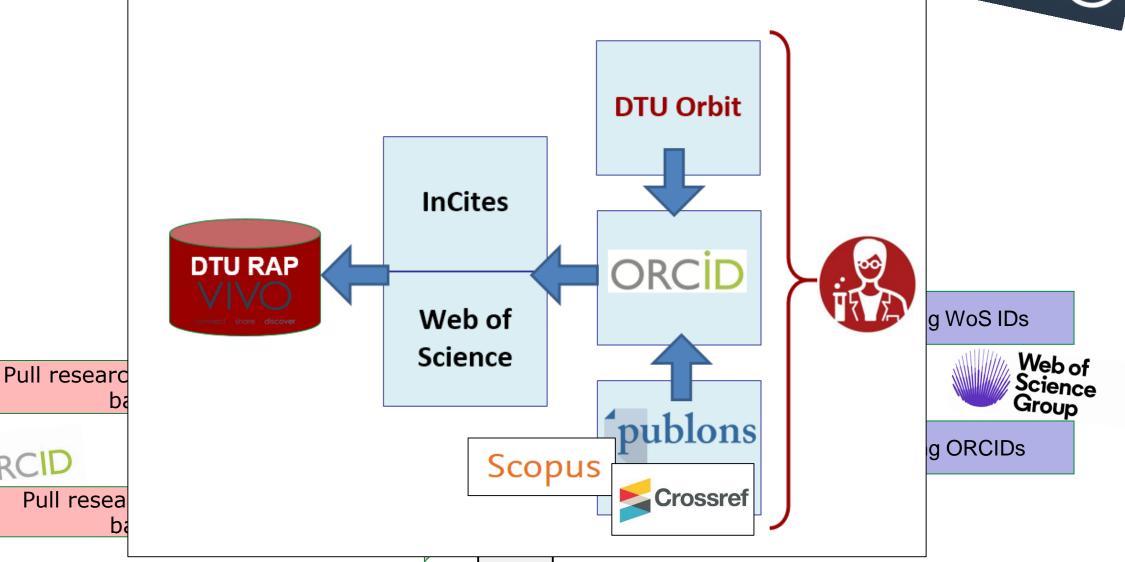






# RAP Research Assessment – setup (ORCID)

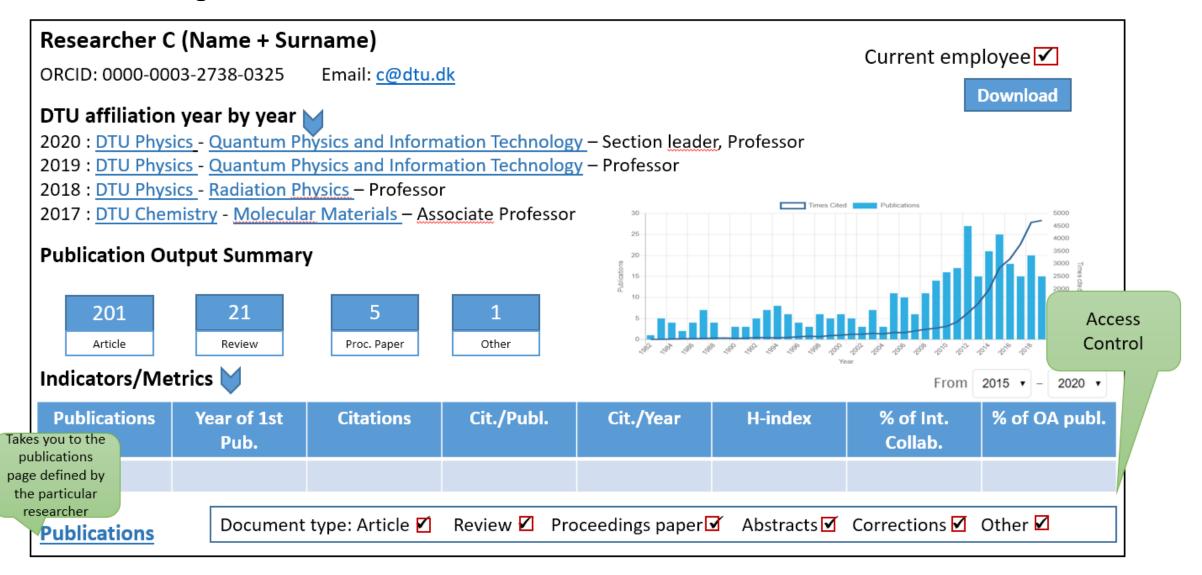






# How could RAP Research Assessment look like?

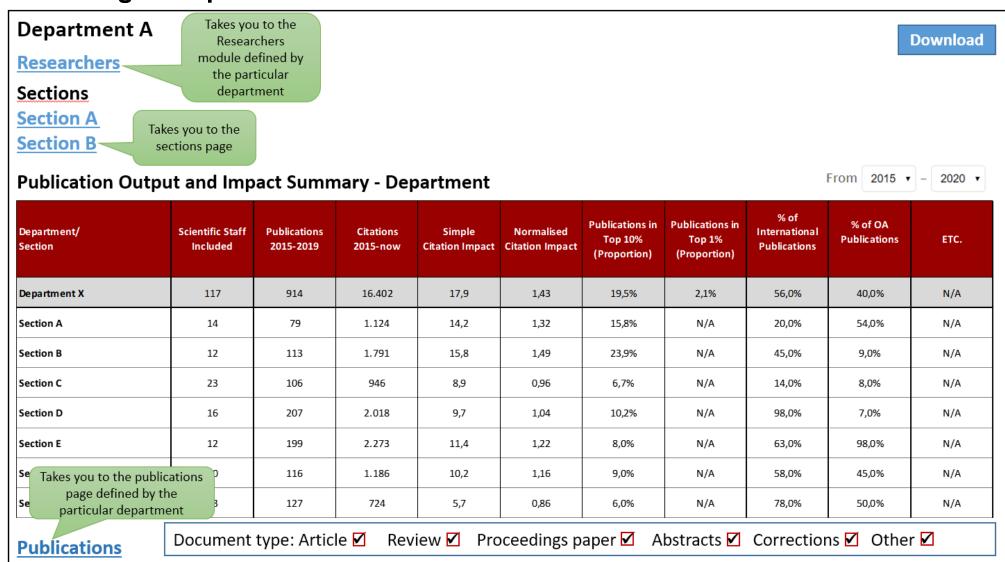
#### → Looking at researchers





# How could RAP Research Assessment look like?

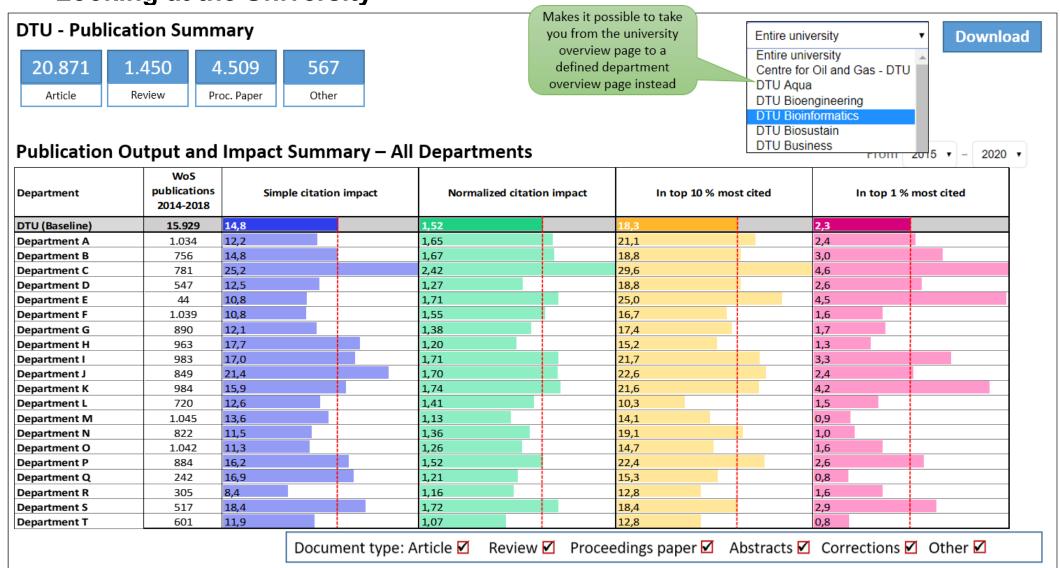
#### → Looking at Departments/Sections





# How could RAP Research Assessment look like?

#### → Looking at the University





## **RAP Research Assessment – where are we now?**

#### 1<sup>st</sup> test on selected departments:

- ORCID coverage in Web of Science
- ORCID identification and grouping of possible issues

### 2<sup>nd</sup> test looking in to indicators from InCites/API options

 Load data and see how we can work with the data in the RAP Assessment system

Publication Year:	All Years
Organization-Enhanced:	All Organizations
Overview Tab:	
Creates an overview of the total no. of publicatio	ns, citations and (if possible) h-index per ORCID requested.
OI=ORCID	
ORCID Tabs:	
Each 'ORCID Tab' represents a publication list fou	and via the API for each ORCID represented in the 'Overview Tal
AU=Authors	
TI=Title	
SO=Source (journal title)	
DT=Document Type	
C1=Adress	
OI=ORCID	
TC=Times Cited (in WoS Core Collection)	
PY=Publication Year	
DI=DOI	
UT=Accession Number	



# **RAP Research Assessment – where are we now?**

Test o

Publica

Overvi

Create

#### 1<sup>st</sup> test on selected departments:

- ORCID coverage in Web of **Science**
- **ORCID** identification and grouping of possible issues

## 2<sup>nd</sup> test looking in to indicators from InCites/API options

Load data and see how we can work with the data in the RAP Assessment system

Results when looking at the departments being evaluated in 2019:

- Retrieving a researcher's publications using ORCID gives the Organi same result using the Web of Science UI as the Web of Science APL
- ORCID searches using the Web of Science API covers I=OR approx. 90% of the publication found by using advanced name- and affiliation searches in the Web of Science UI
  - Most missing results is because an ORCID profile is empty or incomplete (researcher motivation is important!)
  - Synchronization issues between ORCID→Web of Science is often because of poor metadata in ORCID or bad title match between the two systems

Each 'Q OI=OR TC=Tin PY=Pu

PIDapalooza, Lisbon



# **RAP Research Assessment – advantages**

#### Researcher advantages of metrics based on ORCIDs:

- Publication lists reflect the researcher's self-maintained list in ORCID.org
- Researcher involvement/control Leiden Manifesto compliance
- Publication lists are not the result of complicated/expert searching, which depends on the skills (or lack thereof) of an individual administrator – and rarely come out the same, if done by different individuals
- Publication list derived metrics become similar/comparable, no matter who does them and no matter where they are done (towards global validity)

#### System advantages of metrics based on ORCIDs:

ORCID-searching may be automated without loss of precision



# **RAP Research Assessment – challenges**

#### Researcher challenges of metrics based on ORCIDs:

- Researchers will have to actively choose to update their ORCID (and understand how!) which
  makes researcher encouragement essential
- ORCID profile and data has to be public in order to be adapted to other systems
- Lack of 'search control' and modifications better possibility of 'gaming' or disrupting the data basis?
- Sustainability in PID will some of the problems we see with author search transpire into PID searches?

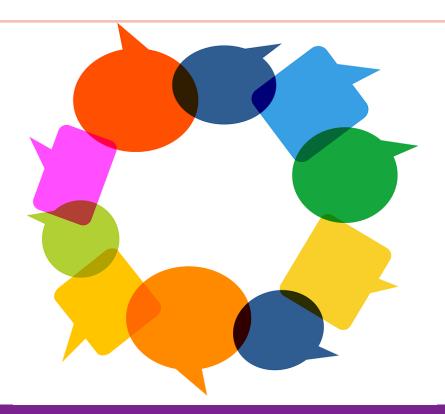
#### System challenges of metrics based on ORCIDs:

- Synchronization between different commercial vendors and ORCID.org and who is responsible?
- Could create a even more so a distance between the researcher being evaluated and the 'evaluator'
   could it become efficiency over customization?



# ... A LOT more – let's interact!

# Go to: PollEv.com/nikolinedohm030



# Do you think PIDs could improve Research Assessments?



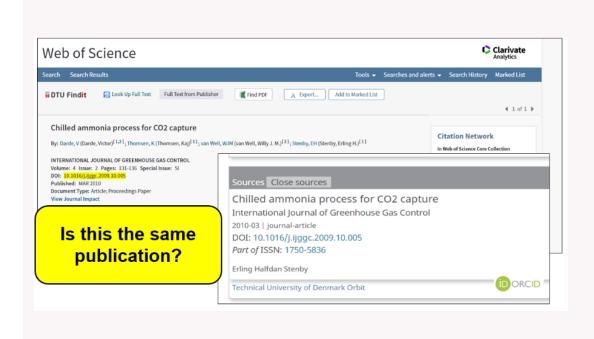
# How to best motivate researchers into maintaining their ORCID?

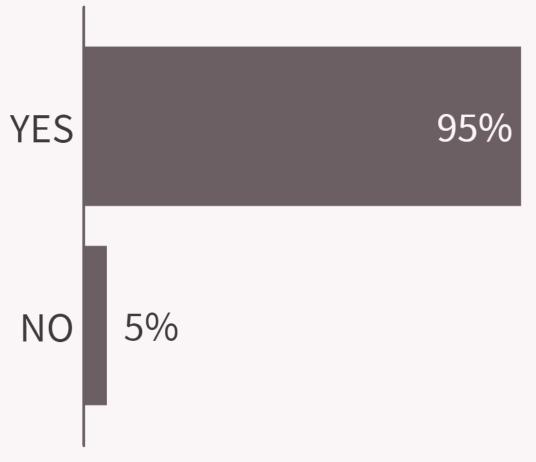
Тор	
5	Integrate into PDR / annual revo
4	Train them first then explain cost of not doing it
4	Show clear benefits, how their information is connected
3	By showing the benefits
2	do it for them - automate
2	Personal evaluation / tenure
2	Abolish research gate
2	Best motivation: members to build integrations that allow to import or export data

	2		Tenure and systems using ORCID
	2	-	demonstrate value through practical examples that contextually resonate with the researcher / domain / context
-	1	F	It will be less work once you start
	1	F	Show them the cool things you can do with PIDs / PID Graph
	1	F	More integrations at organizations! So the benefits are clear for them
=	0	F	integration with their preferred profile provider
	0	]	cookies
	0		Automatic update.



# Is this the same publication?





Poll Everywhere

Answers to this poll are anonymous



# How do we ensure that the commercial vendors integrate and keep the synergy with open and non-profit PIDs?





# Thank you!

