

# Openness Profile:

mobilizing PIDs to increase visibility of open scholarship

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# outline

1. (mis)alignment of open science and research evaluation
2. Openness Profile, a bottom up (infrastructure) concept
3. RAiD: collecting and publishing contributions to open science
4. ORCID: priority placement and complementary features
5. Pilot configuration: contributors, evaluators, and functionality

(mis)alignment of OS and research evaluation



*The idea captures a **systemic change** to the way science and research have been carried out for the last fifty years [...] **towards sharing and using all available knowledge at an earlier stage in the research process.** (EC 2016)*

# Open Science Career Assessment Matrix (OS-CAM)

	Being a role model in practicing open science
<b>Academic standing</b>	Developing an international or national profile for open science activities Contributing as editor or advisor for open science journals or bodies
<b>Peer review</b>	Contributing to open peer review processes Examining or assessing open research
<b>Networking</b>	Participating in national and international networks relating to open science
<b>RESEARCH IMPACT</b>	
<b>Communication and Dissemination</b>	Participating in public engagement activities Sharing research results through non-academic dissemination channels Translating research into a language suitable for public understanding
<b>IP (patents, licenses)</b>	Being knowledgeable on the legal and ethical issues relating to IPR Transferring IP to the wider economy
<b>Societal impact</b>	Evidence of use of research by societal groups Recognition from societal groups or for societal activities
<b>Knowledge exchange</b>	Engaging in open innovation with partners beyond academia
<b>TEACHING AND SUPERVISION</b>	
<b>Teaching</b>	Training other researchers in open science principles and methods Developing curricula and programs in open science methods, including open science data management Raising awareness and understanding in open science in undergraduate and masters' programs
<b>Mentoring</b>	Mentoring and encouraging others in developing their open science capabilities
<b>Supervision</b>	Supporting early stage researchers to adopt an open science approach
<b>PROFESSIONAL EXPERIENCE</b>	
<b>Continuing professional development</b>	Investing in own professional development to build open science capabilities
<b>Project management</b>	Successfully delivering open science projects involving diverse research teams
<b>Personal qualities</b>	Demonstrating the personal qualities to engage society and research users with open science Showing the flexibility and perseverance to respond to the challenges of conducting open science

<b>Open Science Career Assessment Matrix (OS-CAM)</b>	
<i>Open Science activities</i>	<i>Possible evaluation criteria</i>
<b>RESEARCH OUTPUT</b>	
<b>Research activity</b>	Pushing forward the boundaries of open science as a research topic
<b>Publications</b>	Publishing in open access journals Self-archiving in open access repositories
<b>Datasets and research results</b>	Using the FAIR data principles Adopting quality standards in open data management and open datasets Making use of open data from other researchers
<b>Open source</b>	Using open source software and other open tools Developing new software and tools that are open to other users
<b>Funding</b>	Securing funding for open science activities
<b>RESEARCH PROCESS</b>	
<b>Stakeholder engagement / citizen science</b>	Actively engaging society and research users in the research process Sharing provisional research results with stakeholders through open platforms (e.g. Arxiv, Figshare) Involving stakeholders in peer review processes
<b>Collaboration and Interdisciplinarity</b>	Widening participation in research through open collaborative projects Engaging in team science through diverse cross-disciplinary teams
<b>Research integrity</b>	Being aware of the ethical and legal issues relating to data sharing, confidentiality, attribution and environmental impact of open science activities Fully recognizing the contribution of others in research projects, including collaborators, co-authors, citizens, open data providers
<b>Risk management</b>	Taking account of the risks involved in open science
<b>SERVICE AND LEADERSHIP</b>	
<b>Leadership</b>	Developing a vision and strategy on how to integrate OS practices in the normal practice of doing research Driving policy and practice in open science

**Evaluation of Research Careers fully acknowledging Open Science Practices (2017)**

[https://ec.europa.eu/research/openscience/pdf/os\\_rewards\\_wgreport\\_final.pdf](https://ec.europa.eu/research/openscience/pdf/os_rewards_wgreport_final.pdf)



## Mutual Learning Exercise: Open Science – Altmetrics and Rewards

Incentives and Rewards to engage in  
Open Science Activities

Thematic Report No 3



November 2017

Research and  
Innovation

*It is imperative that a balance is struck between top-down efforts to incentivise activities at the international, national and regional levels, and bottom-up tools devised by specific groups to take account of the needs, expectations and background knowledge of users on the ground.*  
(EC November 2017)

# Openness Profile

bottom-up infrastructure meets top-down research policy

# Openness Profile

KE Working Group-

## ***Open Scholarship and Research Evaluation***

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Joonas Nikkanen (FI)

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Bas Cordewener(UK)

Sarah James (UK)

Rachel Bruce (UK)

Daniel Beucke (DE)

Clifford Tatum (NL)



The screenshot shows the homepage of the Knowledge Exchange website. At the top left is the logo for Knowledge Exchange, consisting of the letters 'KE' in a stylized font followed by the text 'Knowledge Exchange'. To the right of the logo is a navigation menu with links for 'Our work', 'About Us', 'News', and 'Contact'. The main content area features a large, colorful background image of people in a meeting. Overlaid on this image is the text: 'A European partnership to improve services for higher education and research'. Below this text is a short paragraph: 'Knowledge Exchange is a collaboration between six national organisations, each responsible for supporting the development of ICT infrastructure for higher education and research'. At the bottom of the page, there is a section titled 'A collaboration between' followed by logos for the six partner organizations: DFG (German Research Foundation), CSC (Canadian Science and Innovation), Jisc (Joint Information Systems Committee), CNRS (Centre National de la Recherche Scientifique), SURF (Surf Cooperative), and Deff (Denmark's Electronic Research Library).

<http://knowledge-exchange.info>



# Openness Profile (context)

- top down policy initiatives (e.g. OS-CAM) offer content and guidance
- alignment dependent upon vast cultural change across all aspects of science
- in spite of misalignment, many already contribute to open science today

# Openness Profile (concept)

- disrupts notion of authorship (the 'C' in ORCID = contributor)
- links contributions to contemporary RI infrastructure
- format for documenting contributions to open scholarship
- procedures for self-publishing contributions as a digital object with a persistent ID
- strategic use of ORCID record to increase human and machine visibility

RAiD (research activity ID)  
collecting and publishing contributions to openness

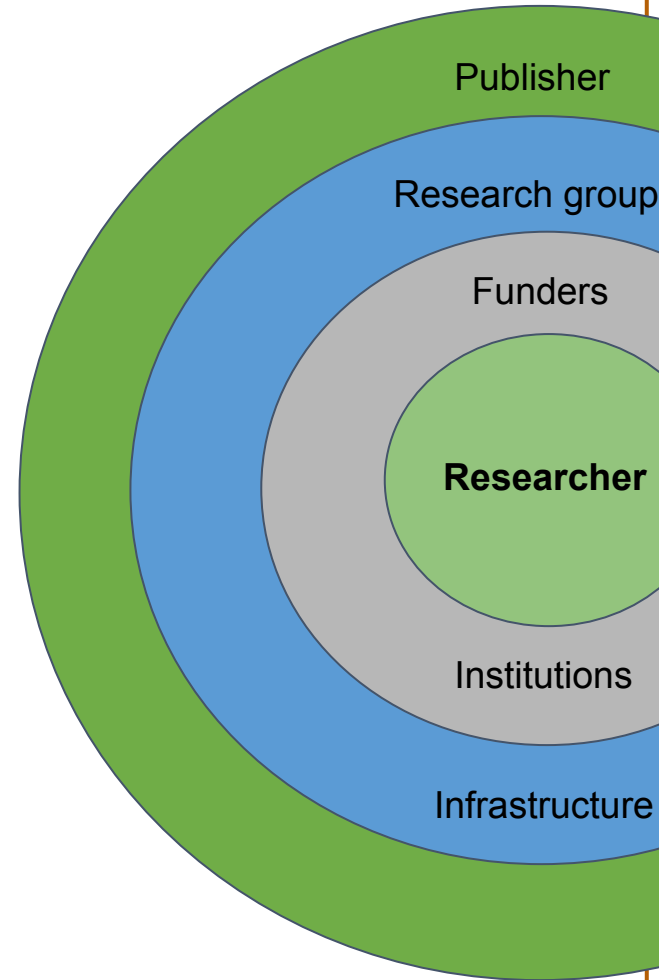
# RAiD: A PID for projects

- Audit mechanism
  - Records resource usage and location
  - Records group members and access
  - Associates collaborating entities with project activity
  - Mechanism for automated access and use
- 
- REST API
  - Handle via ANDS
  - Central metadata Store
  - RAiD Metadata Manifest /DMR



# Why a Project ID?

- Projects are a stable entity
  - Researchers move, institutions change, but projects remain
- Removes the issue of the individual gatekeeper
- Reflects collaborative practices
- Low administration burden
- Improves reporting for infrastructure usage
- Provide clear lines of provenance
- Projects encounter each actor and action in the data life cycle



# RAiD DMR

# 13.1010/463  
UQDMR  
17/09/2017



# 3457.2300/107

#3457.2300/107

[j.smith@uq.edu.au](mailto:j.smith@uq.edu.au) (04/07/15 - 04/07/17)

[m.blogs@uoa.edu.nz](mailto:m.blogs@uoa.edu.nz) (01/07/15 - ....)

<http://orcid.org/0000-0002-3843> (04/07/15 - 04/07/17)

# [http: 10.1002/002-8231\(1976\)47:1](http://10.1002/002-8231(1976)47:1) - ANDS RDS Dataset

# [http: 10.1002/005-4721\(7214\)31:2](http://10.1002/005-4721(7214)31:2) - Figshare Dataset

<https://ror.org/00rqy9422>

Uni of QLD (04/07/15 -

....

<https://ror.org/03b94tp07>

Uni of Auckland (05/08/16 – 04/07/15)

• [uq.edu.au/114/32](http://uq.edu.au/114/32)

UQ local storage (04/07/15 – 17)

• 79.152.127.243

UQ local storage Nectar Instance (04/07/15 – 17)

• A.URL.WHEE.EDU

Cloudstor storage (04/07/15 –

....

# 12.4372/487

Subproject

# RAiD and Openness

- Tagging in RAiD DMR for Open Metadata and PIDS
  - RAiD DMR will include an open section (as configured by the integrated system)
  - PIDs tagged as open will be searchable and harvestable
  - PIDs Tagged to reflect selected OS-CAM activities. eg:
    - Mentor of/mentored by
    - Taught at/
    - Supervisor of/Supervised by
  - Leverage Contributors and Infrastructure PID use to open workflows (where appropriate)
- RAiD to push open Metadata to ORCID records

# 13.1010/463  
UQDMR  
17/09/2017



# [http: 10.1002/002-8231\(1976\)47:1](http://10.1002/002-8231(1976)47:1)  
# [http: 10.1002/005-4721\(7214\)31:2](http://10.1002/005-4721(7214)31:2)

<https://ror.org/00rqy9422>

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- [A.URL.WHEE.EDU](http://A.URL.WHEE.EDU) — Cloudstor storage (04/07/15 –

....

# 12.4372/487 — Subproject

- Orcid, emails, linkedin ID.
- Group IDs
- Open tags, Links to further MData

Open  
Metadata  
Section

Tag = Supervisor/Supervised  
Group ID = link to Group Service ID



# ORCID

priority placement and complementary features

# Openness Profile (mock-up)

The screenshot shows the ORCID profile for Clifford Tatum. The profile includes a search bar, navigation links (EDIT YOUR RECORD, ABOUT ORCID, CONTACT US, HELP), and a language selector (English). The profile header shows the name 'Clifford Tatum' and the ORCID ID 'https://orcid.org/0000-0002-2212-3197'. A 'Print view' button is available. The 'Websites' section lists 'Openness Profile', 'CWTS, Leiden University', and 'SURF'. The 'Employment (5)' section lists five entries, each with a 'Preferred source' checkbox and a 'Machine readable' icon. A red arrow points from the 'Openness Profile' link in the 'Websites' section to the 'Human readable' text on the right.

Search

English

EDIT YOUR RECORD ABOUT ORCID CONTACT US HELP

ORCID  
Connecting Research  
and Researchers

5,641,303 ORCID IDs and counting. See more...

Clifford Tatum

ORCID ID  
https://orcid.org/0000-0002-2212-3197

Print view

Country  
Netherlands

Websites  
Openness Profile  
CWTS, Leiden University  
SURF

Employment (5) Sort

Universiteit Leiden: Leiden, Zuid-Holland  
2015-05-01 to present | Researcher (Centre for Science and Technology Studies )  
Employment  
Source: Clifford Tatum Preferred source

SURFmarket: Utrecht  
2015 to present | Project Manager  
Employment  
Source: Clifford Tatum Preferred source

Universiteit Leiden: Leiden  
2011 to 2014 | Project Manager - ACUMEN (Centre for Science and Technology Studies)  
Employment  
Source: Clifford Tatum Preferred source

eHumanities Group: Amsterdam  
2011 to 2011 | Associate Researcher (Royal Netherlands Academy of Arts and Sciences (KNAW))  
Employment  
Source: Clifford Tatum Preferred source

Virtual Knowledge Studio for the Humanities and Social Sciences:  
Amsterdam  
2008 to 2010 | Digital Scholarship Fellow (Royal Netherlands Academy of Arts and Sciences (KNAW))  
Employment  
Source: Clifford Tatum Preferred source

Human readable

Machine readable

- repository/DOI
- ORCID record (works)
- ORCID ingested in CRIS
- RAiD data documentation

# The “O” and the “C”

Wouldn't it be ironic if information about a person's contributions to open research ended up closed?

Openness isn't just about access, it's about transparency.

# ORCID evolving

We're adding new ways to describe relationships between people and organisation:

- Qualifications
- Invited positions and Distinctions
- Membership and Service

Now available in the user interface and forthcoming API versions (3.0 rc1)+

Type	Subtypes	Definition	Examples
<b>Employment</b>		A formal employment affiliation with an organization - paid or unpaid	Formal positions including faculty, postgraduate researchers, internships, society employee, other staff and contractors
<b>Education and Qualifications</b>	Education	Participation in an academic higher education program. May be designated as in progress or unfinished	Undergraduate, graduate, masters, doctorate
	Qualification	Professional or vocational accreditation, certification or training undertaken by an individual. May be designated as in progress or unfinished	Professional and continuing education qualifications, training and other certification
<b>Invited Positions and Distinctions</b>	Invited Position	An invited non-employment affiliation. The individual may be based at a different organization  This category includes formal acknowledgements of an individual's academic efforts through honorary titles and/or positions which require no specific service  May be paid or unpaid	Honorary fellow, guest researcher, emeritus professor, visiting lecturer
	Distinction	This category is for honorary and other awards, distinctions, and prizes made by an organization in recognition of an individual's academic or other achievements	Trophies, cash prizes, non-cash prizes, medals, honorary degrees
<b>Membership and Service</b>	Membership	Paid or gratis membership of a society or association (i.e. does not include honorary memberships and fellowships as defined under Invited Position and Distinctions)	Member of an association or society
	Service	Significant donations of time, money, or other resources to an organization or community  Includes volunteer work such as society officer positions, agricultural extension work, other voluntary work	Standards body, expert panel, editorial board, study group, conference organizer, conference panel chair, committee work, project work, volunteer society officer, elected board position

**“More finely-grained information will help make the ordering of authors less important and will facilitate a shift in focus for tenure and promotion committees – and other evaluators – away from how many times an individual is a first-or last-named author and toward their specific contributions to the scholarly record.”**



<http://blogs.plos.org/plos/2016/07/author-credit-plos-and-credit-update/>

# Representing and rewarding careers

Information about every aspect of research should be free because it provides both the strongest foundation for future research, and because it provides the *first and most important* basis for others to build upon that foundation:

**Trust.**

# Representing and rewarding careers

ORCID can facilitate the openness profile, but more than that there's a philosophical match: it's about recognising a whole research career, not a snapshot or a slice of one.

**What you reward sends a powerful message about what is valuable.**

**If you can't SEE the thing you want to encourage, you can't reward it.**

Pilot configuration  
contributors, evaluators, functionality



# Pilot participants: contributors to OS

- Researchers (output)
- Data analysts/stewards
- Software developers
- Library/ICT infrastructure
- PID systems

# Pilot participants: Evaluators of OS

- funders
- research managers
- hiring committees

# Pilot Functionality

**Human readability:** prominent placement and profile resolver

**Machine readability:**

- repository/DOI: publishing openness profile
- interaction between PIDs: reciprocal auto-update policies
- content aggregation: access to corpus of all openness profiles

By intervening at the level of infrastructure, the openness profile is situated to provide resources that are useful to those presently contributing to open scholarship while also being available for and adaptable to future changes enacted by top-down research policy initiatives.

Thanks!