Unlocking Research Potential: Advancing Open Science in Eight ~~Easy~~ Steps

2025 CRKN Virtual Conference

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13 May 2025

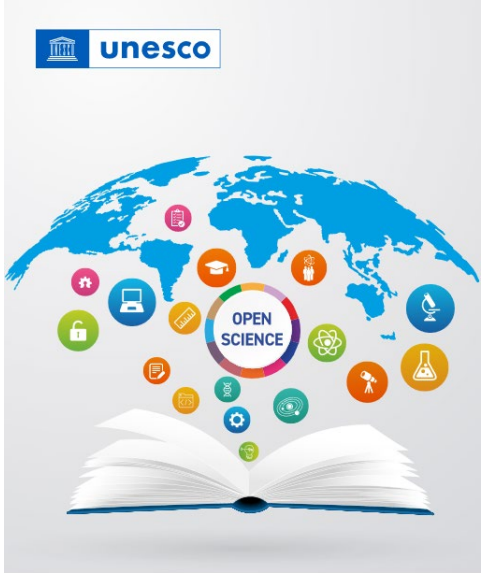
uOttawa
Bibliothèque
Library

Agenda

- → Definition and Context
- → UOttawa Open Science Working Group: Mandate and Approach
- → Open Science Roadmap : Eight Recommendations
- → Next Steps
  - → Two working groups, one vision
  - → Tackling the recommendations using a logic model approach
- → Discussion

Definition

Open science is defined as an inclusive construct that combines various movements and practices aiming to make multilingual scientific knowledge openly available, accessible and reusable for everyone, to increase scientific collaborations and sharing of information for the benefits of science and society, and to open the processes of scientific knowledge creation, evaluation and communication to societal actors beyond the traditional scientific community. It comprises all scientific disciplines and aspects of scholarly practices, including basic and applied sciences, natural and social sciences and the humanities, and it builds on the following key pillars: open scientific knowledge, open science infrastructures, science communication, open engagement of societal actors and open dialogue with other knowledge systems.



UNESCO Recommendation on Open Science

https://unesdoc.unesco.org/ark:/48223/pf0000379949

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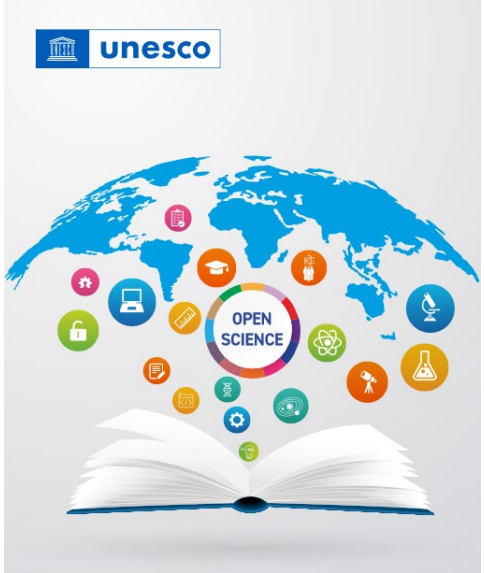

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UNESCO – Open Science Pillars

https://unesdoc.unesco.org/ark:/48223/pf0000383323

UOttawa's Open Science Working Group

uOttawa's formation of an Open Science Working Group aimed to contextualize global and regional developments, understand their implications for uOttawa, and develop recommendations the university can implement to advance open science practices and promote a culture of open science. Its mandate was to develop uOttawa's position as an open science leader and enhance its ability to produce cutting edge and impactful research

Members :

Talia Chung, University Librarian and Dean of Libraries, Co-Chair
Martine Lagacé, Associate Vice-President, Research, Promotion, and Development, Co-Chair
Stefanie Haustein (Arts), Special Advisor to the Chairs
Leigh-Ann Butler, Scholarly Communications Librarian (ex-officio)
Daniel Amyot (Faculty of Engineering)
Matthieu Boisgontier (Faculty of Health Sciences)
Kelly Cobey (Medicine and the University of Ottawa Heart Institute)
Éric Dionne (Faculty of Education)
Mistrale Goudreau (Faculty de Law – Common Law)
Sylvie Grosjean (Faculty of Arts)
Evelyn Micelotta (Telfer School of Management)
Jonathan Paquette (Faculty of Social Sciences and Director of the Collège des chaires de recherche sur le monde francophone)
Mark Salter (Faculty of Social Sciences)
Teresa Scassa (Faculty of Law – Common Law)
Lara Mainville (uO Press)
Gishleine Oukouomi Djouonang (PhD student, Faculty of Social Sciences)

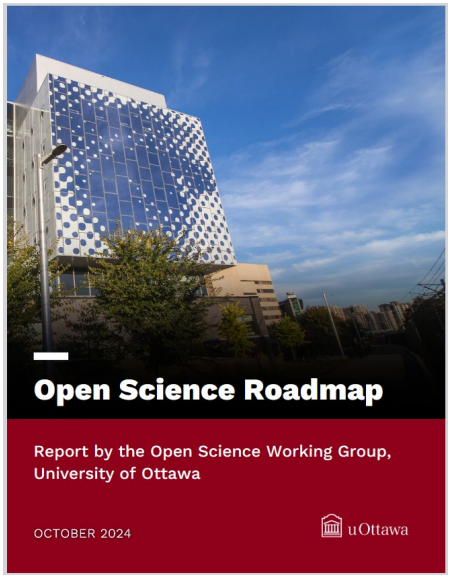
Questions examined by the Working Group

- → In order to achieve the vision set out in Transformation 2030, how can the university leverage existing open science strengths and further promote open practices?
- → What set of principles can the university develop to guide open practices and open access investments, to support uOttawa's research activities?
- → How can uOttawa support and incentivize open research practices via the creation, dissemination, and accessibility of research in French, which is fundamental to uOttawa's mandate?
- → What approaches and best practices are adopted by peer institutions, in Canada and internationally, to increase uptake of open science?

Themes

2023-24	Topic
October	Introduction – Open science at the University of Ottawa
November	Barriers to open science; Open Science policies (institutional, national, and international)
December	The open access publishing landscape (copyright, publication models, deceptive/predatory publishing)
January	Article processing charges and publishing agreements
February	Open practices (open data, open peer review), and research assessment (DORA)
March	A look at disciplinary open science practices (e.g., clinical trial registration, code, and software)
April	Open access and the francophonie
Cross-cutting themes:	La francophonie | disciplinary practices | academic careers and research assessment

uOttawa Open Science Roadmap



Four pillars, eight recommendations

A. Foster a culture of open science at uOttawa

- **A.1: Education:** training programs, workshops, and events
- **A.2: Capacity building:** dedicated roles and task forces

B. Value open science practices

- **B.1: Hiring, tenure & promotion:** integrate open science into the academic reward system and evaluation
- **B.2: Institutional incentives:** recognition and rewards that incentivize open science practices

C. Promote and invest in open infrastructure

- **C.1: Tools and resources:** tools and resources to build awareness, encourage best practices, and provide guidance
- **C.2: Evidence base:** evaluate progress towards making research outputs and practices open and transparent

D. Implement open science in uOttawa's strategic plan

- **D.1: Policy:** implement open science policies, and endorse relevant declarations and initiatives
- **D.2: Francophonie and bilingualism:** promote and support open research outputs by the francophone community

Report: https://doi.org/10.20381/ruor-30839
OVPRI website: https://www.uottawa.ca/research-innovation/impact-discoveries/open-science-roadmap

Next steps :

UOttawa Open Science Action Committee	Library Open Science Working Group
• Researchers, Library and OVPRI • Focus on institution-wide initiatives and coordination of efforts across campus	• Library staff • Focus on actions the Library can take to advance the recommendations • In some cases, the Library can lead while in others, the Library plays a supporting role

Recommendations

Pillars	A. Foster a culture of Open Science at uOttawa	B. Value open science practices	C. Promote and invest in open infrastructure	D. Implement open science into uOttawa's strategic plan
Priorities	A.1. Education	B.1. Hiring, Tenure & Promotion	C.1. Tools and resources	D.1. Policy
	A.2. Capacity building	B.2. Institutional incentives	C.2. Evaluating progress	D.2. Francophonie and bilingualism

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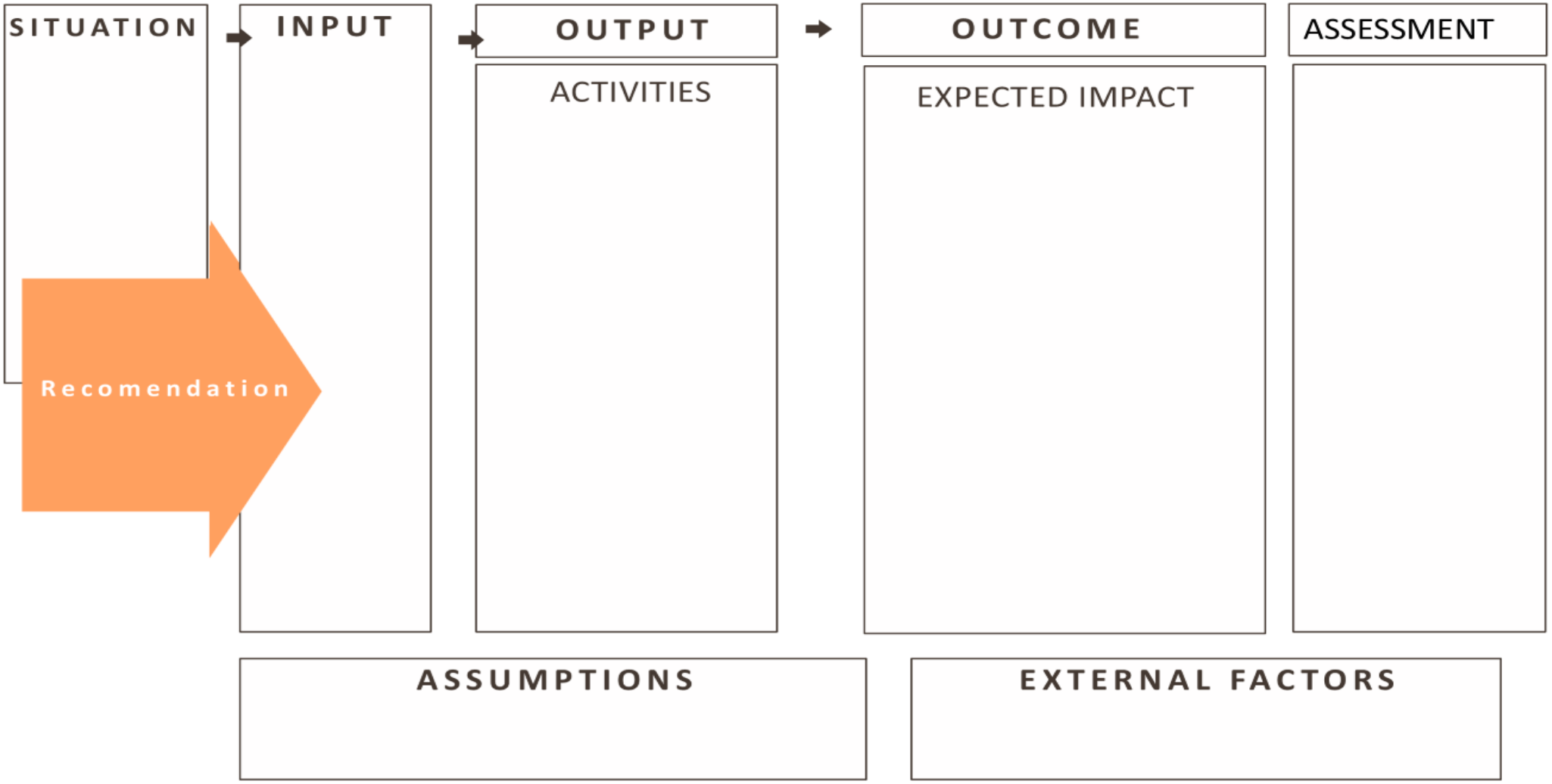
Taking a Logic Model Approach to Each Recommendation



Pre-learned Lessons

- Think ambitiously; act realistically
- Have a plan; be flexible
- Analyse and communicate the Library's value proposition
- Celebrate wins
- Assess and learn

Discussion questions

- How does your Library engage with open science?
- How is your network? Do you collaborate with researchers and OVPRI?
- Who are your champions?
- What wins can you already celebrate?
- When you think ambitiously, what is your vision?
- What can you realistically accomplish given the inputs available?
- What questions do you have for us or for eachother?

Merci - Thank you!