

## Innovation and Open Research

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### Music Researcher



Lab and Centre Director

Open Research Advocate

Research Musician



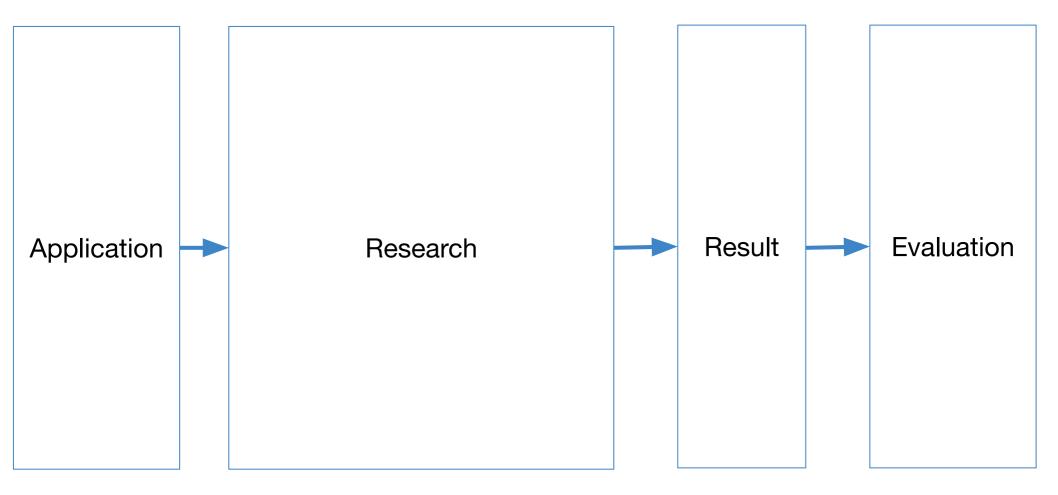
Expert Group on Open Science European University Association

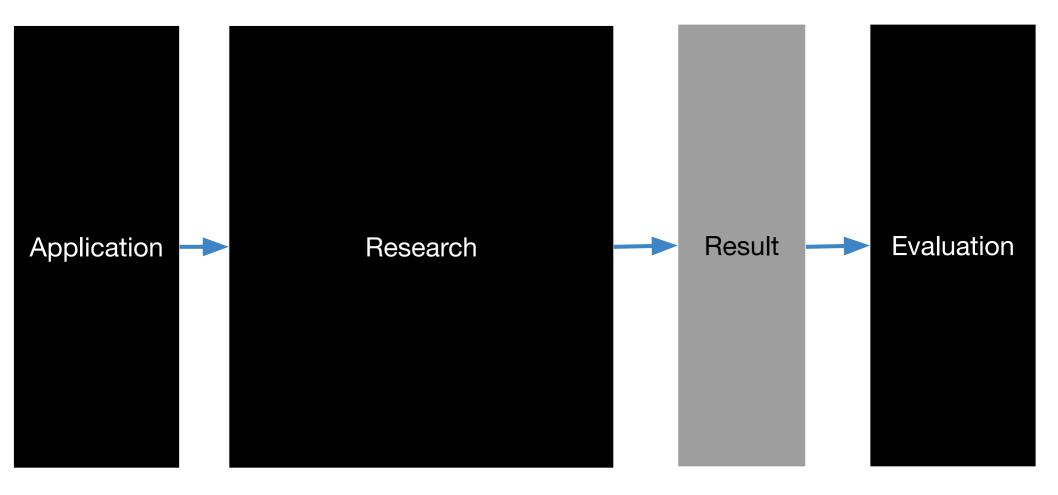


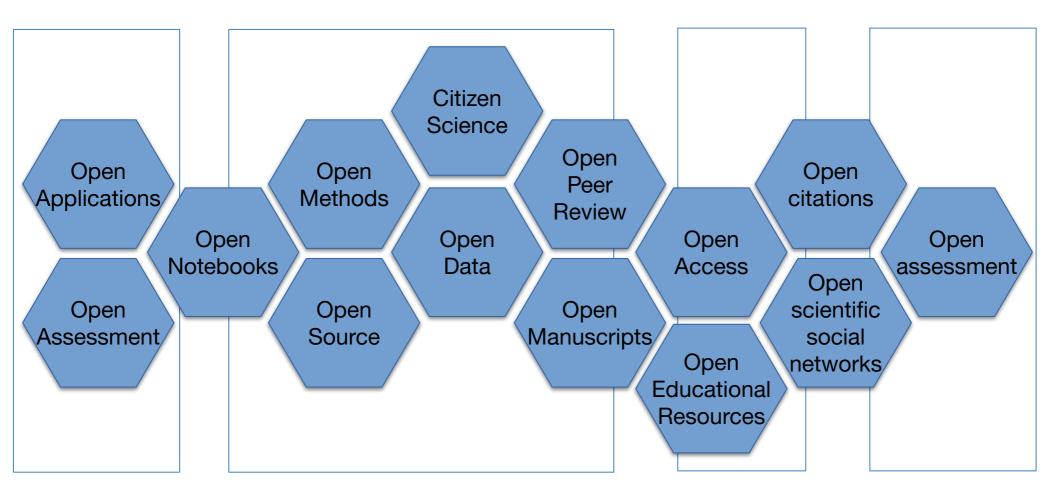
## Åpen forskning ≈ Open research

### ≠

## Åpen vitenskap ≈ Open science







## Innovation?





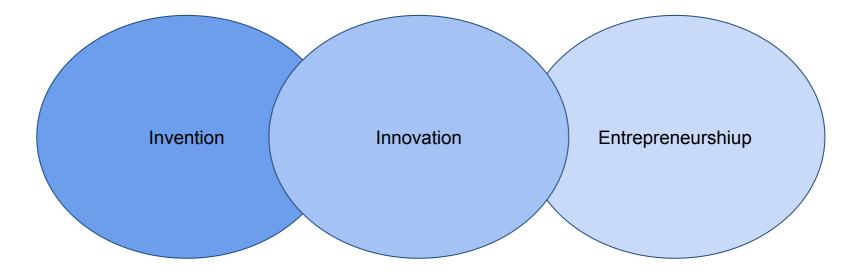
← About UiO

## Innovation – Knowledge in use

Research from UiO forms the basis for new solutions to important societal needs.

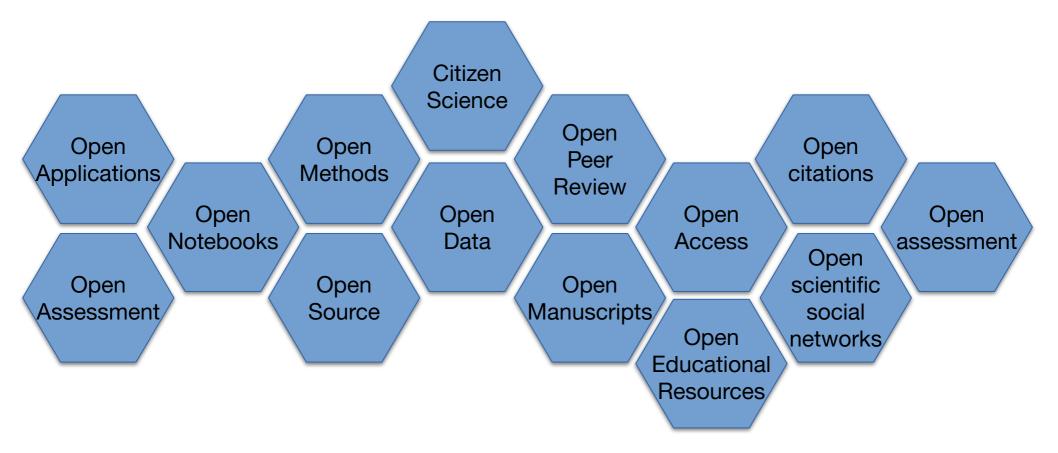
By promoting innovation and entrepreneurship, UiO ensures that our research can be transformed into solutions that have significant value for the society.

We facilitate innovation in several ways: through units that support students and staff in innovation processes, through collaboration with the business sector, and through new meeting places that foster innovation.

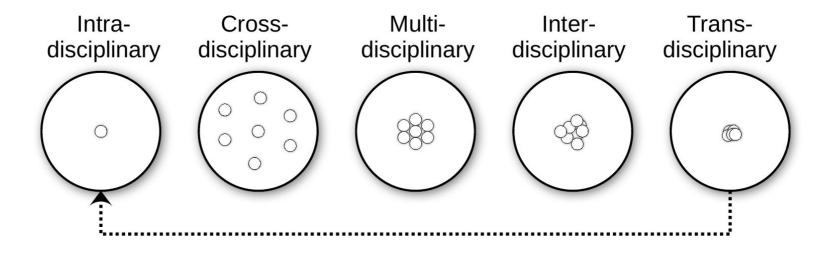


## **Open Innovation?**

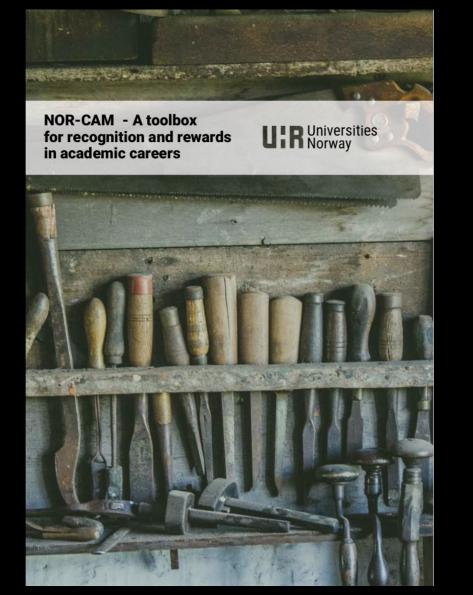
by whom?



Interdisiciplinarity



## Foster innovation?







### Evaluation of Research Careers fully acknowledgin Open Science Practices

Rewards, incentives and/or recognition for research practicing Open Science Career Assessment in the Transition to Open Scienc

18 MAY 2020 | WORKSHOP OSLO, NORWAY

### Room for everyone's talent

towards a new balance in the recognition and rewards of academics



Written by the Working Group on Rewards under Open Science  $\mathsf{July}=2017$ 



### The Open Science Career Assessment Matrix (OS-CAM)

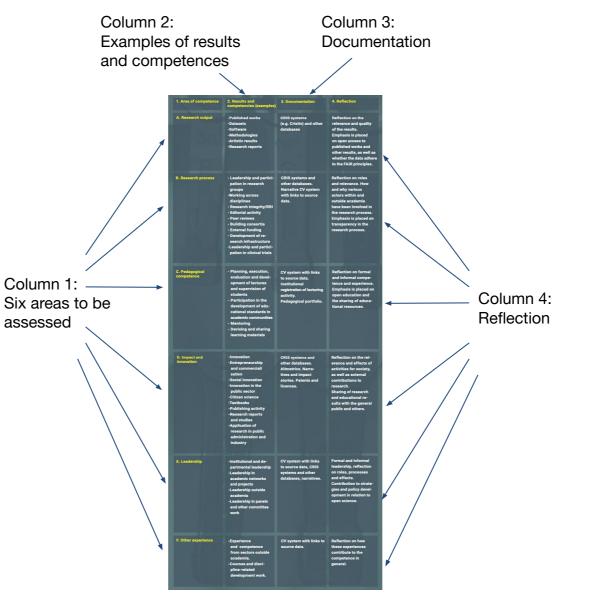
	Onen	Science Career Assessment Matrix (OS-CAM)	
	Open Science activities	Open Science Career Assessment Matrix (OS-CAM) Open Science activities Possible evaluation criteria	
		Possible evaluation cintena	
	RESEARCH OUTPUT Research activity	Pushing forward the boundaries of open science as a research topic	
	Publications	Publishing in open access journals	
	Publications	Self-archiving in open access repositories	
	Datasets and research	Using the FAIR data principles	
	results	Adopting guality standards in open data management and open datasets	
	results	Making use of open data from other researchers	
	Open source	Using open source software and other open tools	
	Open source	Developing new software and tools that are open to other users	
	Funding	Securing funding for open science activities	
	RESEARCH PROCESS		
	Stakeholder engagement	Actively engaging society and research users in the research process	
	/ citizen science	Sharing provisional research results with stakeholders through open	
		platforms (e.g. Arxiv, Figshare)	
		Involving stakeholders in peer review processes	
	Collaboration and	Widening participation in research through open collaborative projects	
	Interdisciplinarity	Engaging in team science through diverse cross-disciplinary teams	
	Research integrity	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	
	Risk management	Taking account of the risks involved in open science	
ding	SERVICE AND LEADERSHIP		
ing	Leadership	Developing a vision and strategy on how to integrate OS practices in the	
		normal practice of doing research	
2		Driving policy and practice in open science	
	science	per nale - Artiket bezi internet protekt 🗗 i telepisitet etner	
and	Participating in public engagement act	wities	
	Sharing research results through non-	academic dissemination channels	
	Translating research into a language s Being knowledgeable on the legal and		
licenses) Being knowledgeable on the legal and Transferring IP to the wider economy		ethical issues relating to IPK	
pact Evidence of use of research by societal Recognition from societal groups or for exchange Engaging in open innovation with partn			
VISIO	N		
	Training other researchers in open scie Developing curricula and programs in		
	open science data management	r open science metrious, including	
	Raising awareness and understanding	in open science in undergraduate	
and masters' programs Mentoring and encouraging others in capabilities n Supporting early stage researchers to a		in developing their open science	
		averageing their open science	
	Supporting early stage researchers to	adopt an open science approach	
ofessi	onal Investing in own professional deve	elopment to build open science	
capabilities			
ment Successfully delivering open science pro teams		projects involving diverse research	
s		teams Demonstrating the personal qualities to engage society and research	
	users with open science		
	Showing the flexibility and perseveran conducting open science	ce to respond to the challenges of	
	, considering open serence		

Societal Knowled TEACHING A Teachin

## Six principles

- Measure quality and excellence through a better balance between quantitative and qualitative goals
- Recognise several competencies as merits but not in all areas at the same time or by each employee
- Assess all results, activities and competencies in the light of Open Science principles
- Practice transparency in the assessment and visibility of what should be recognised as merit
- Promote gender balance and diversity
- Assist in the concrete practice of job vacancy announcements and assessment processes locally

### NOR-CAM - Norwegian Career Assessment Matrix



#### 1. Area of competence

### 2. Results and competencies (examples)

### 3. Documentation

#### A. Research output

-Published works -Datasets -Software -Methodologies -Artistic results -Research reports CRIS systems (e.g. Cristin) and other databases Reflection on the relevance and quality of the results. Emphasis is placed on open access to published works and other results, as well as whether the data adhere to the FAIR principles.

4. Reflection

#### **B. Research process**

- Leadership and participation in research
   groups
   Working across
   disciplines
- Research integrity/RRI
- Editorial activity
- Peer reviews
- Building consortia
- External funding
- Development of research infrastructure
   Leadership and participation in clinical trials

CRIS systems and other databases. Narrative CV system with links to source data. Reflection on roles and relevance. How and why various actors within and outside academia have been involved in the research process. Emphasis is placed on transparency in the research process.

### C. Pedagogical competence

 Planning, execution, evaluation and development of lectures and supervision of students

- Participation in the development of educational standards in academic communities
- Mentoring
- Devising and sharing learning materials

CV system with links to source data. Institutional registration of lecturing activity. Pedagogical portfolio. Reflection on formal and informal competence and experience. Emphasis is placed on open education and the sharing of educational resources.

### D. Impact and innovation

-Innovation -Entrepreneurship and commerciali sation -Social innovation -Innovation in the public sector -Citizen science -Textbooks -Publishing activity -Research reports and studies -Application of research in public administration and industry

CRIS systems and other databases. Altmetrics. Narratives and impact stories. Patents and licences. Reflection on the relevance and effects of activities for society, as well as external contributions to research. Sharing of research and educational results with the general public and others.

### E. Leadership

Institutional and departmental leadership
Leadership in

academic networks
and projects

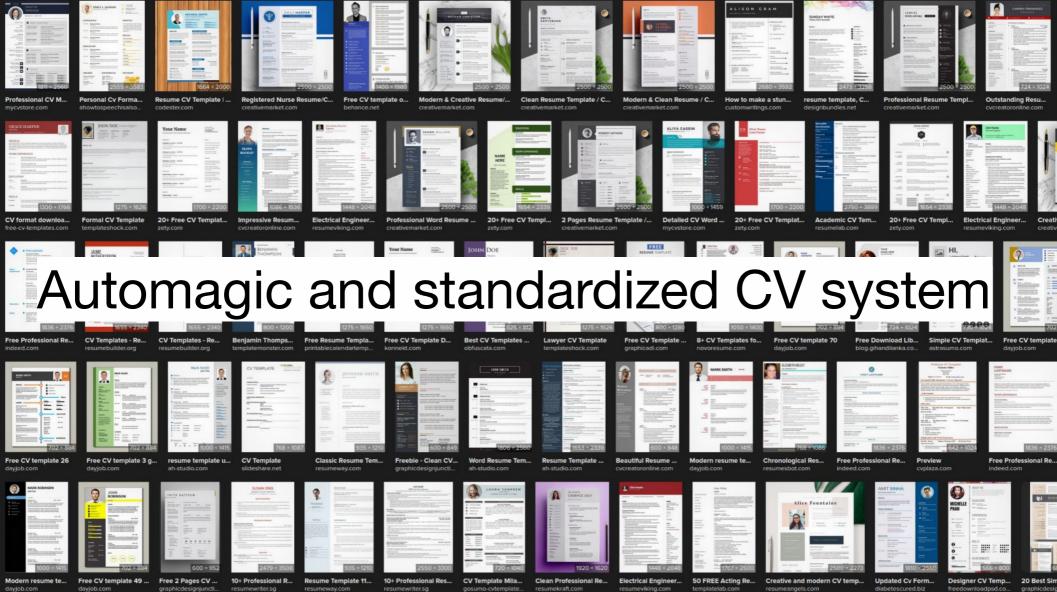
Leadership outside

academia
Leadership in panels
and other committee
work

CV system with links to source data, CRIS systems and other databases, narratives. Formal and informal leadership, reflection on roles, processes and effects. Contribution to strategies and policy development in relation to open science.

#### F. Other experience

Experience and competence from sectors outside academia.
Courses and discipline-related development work. CV system with links to source data. Reflection on how these experiences contribute to the competence in general.



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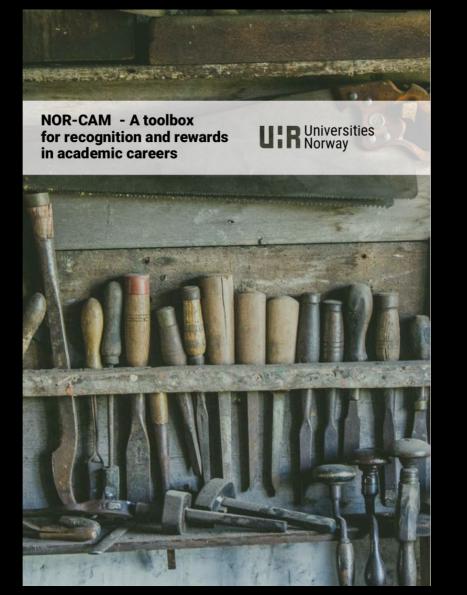
resumeangels.com

diabetescured.biz



# Automagic and standardized CV system

- User friendly
- Web based
- Retrieve data from different national and international systems
- Integrated with recruitment/assessment systems



https://www.uhr.no/en/news-fr om-uhr/nor-cam-a-toolbox-for -recognition-and-rewards-in-a cademic-careers.5780.aspx

