

2018

AIEA Annual Conference

*The Internationalization
Imperative in Turbulent Times*



AURORA-NETWORK.GLOBAL

@AURORA_ORG

Using international networks for domestic strategies: research impact for society

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Arjan Schalken, *Vrije Universiteit* Amsterdam

Max Petzold, Swedish National Data Service

 **AURORA** 

Aurora

- Nine intensive research universities: World top 200 in excellence
- Focus on learning with and from each other in matching excellence and relevance
- High-trust non-competitive: one university per country
- Four strategic priorities
 - Diversity & Inclusion
 - Societal Impact & Relevance of Research
 - Student engagement
 - Innovation of Teaching & Learning
- Academic cooperation is interesting side-catch

Aurora



UNIVERSITY OF
GOTHENBURG



UNIVERSITY OF ICELAND

UNIVERSITETET I BERGEN



UNIVERSITÄT
DUISBURG
ESSEN

Offen im Denken



Purpose and set up

- Priority = Societal Impact & Relevance of Research (SIRR)
- Aurora SIRR strategy → Aurora SIRR projects
 - Societal impact: Practices and pathways Staffan
 - SDG-Based Bibliometrics: Arjan
 - Open Data Indicators: Max

Shared sense of mission

- “Post-truth” is obviously a threat to most universities since many universities have become too disconnected from society. For us the rhetoric is dangerous because it is not true
- We are not just here to research and teach
- We are part of society and we want our actions to be useful to society
- And we will develop a strong evidence base to prove it

Societal impact: Practices and pathways

Societal impact: Practices and pathways

Many research universities wrestle with similar fundamental challenges in this domain:

- How to get beyond a mere economical perspective, counting patents and links/ coproducts with the corporate sector?
- How to solve the intrinsic problems that societal impact takes (a lot of) time and that attribution to specific academic work is hard to prove?
- How to avoid 'gaming' and other perversions of any fixed system?
- How to overcome the strong focus of researchers on scientific excellence, driven by citations?

Societal Impact & Relevance of Research

- Overall strategic vision
- October '16 → Nov'17: from idea to strategy and projects:
 - Societal impact: Practices and pathways
 - SDG bibliometric analysis
 - Open Data Indicators
 - Research Data Management
 - Benchmarking Research Quality

Societal impact: Practices and pathways

AURORA universities will share Practices and Pathways to learn from each other with the ultimate goal to develop a AURORA catalogue.

Example from Sweden

- In the latest research bill from the government the words “cooperation”, “relevance” and “impact” were more frequently used than “research”.
 - The government has allocated most of new research money to the Swedish Innovation Agency (VINNOVA) to enhance the capacity of HEIs capacity of societal cooperation -

Societal impact: Practices and pathways

The VINNOVA investment in HEIs societal cooperation capacity

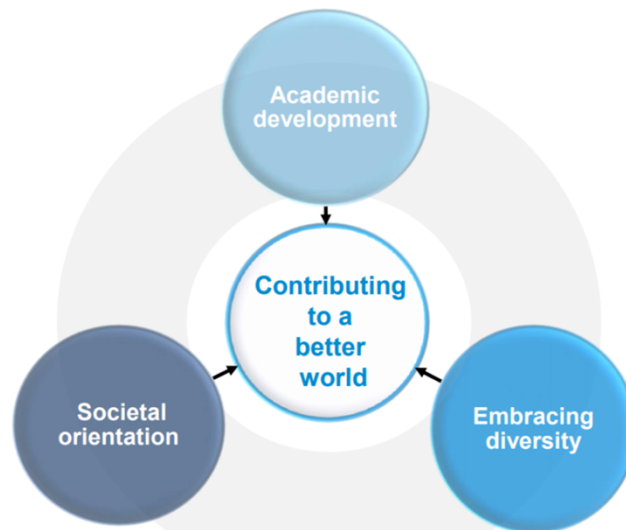
- Involves HEIs in Sweden (34/36)
- 12 different project supported – all as joint projects between several HEIs.
 - Examples where University of Gothenburg is participating
 - Meeting places
 - Citizen Science
 - Mobility
 - Merits
 - Knowledge Management Platform
 - Quality systems –

The experiences from these projects will be shared with our AURORA partners

SDG-Based Bibliometrics

Bibliometrics based on core values

MISSION AND GROSS ACADEMIC VALUE



Vrije Universiteit Amsterdam



“we are committed to working together to find solutions to **Globally Relevant Problems**, in areas such as sustainability, climate and energy, digital

Bibliometrics based on core values

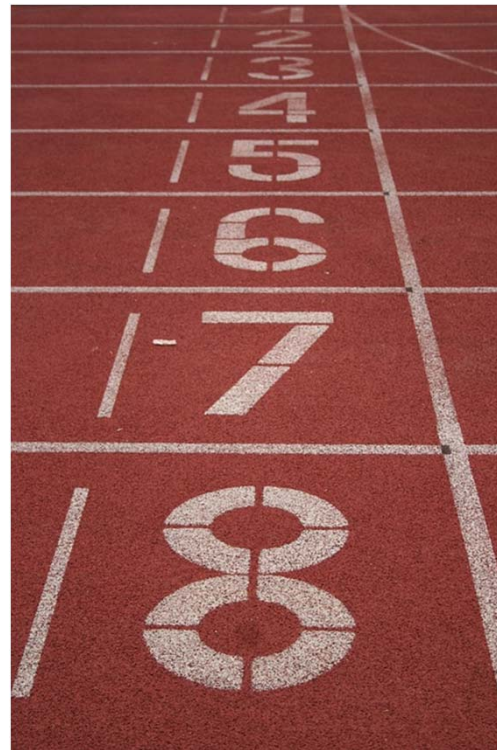


Research evaluation

Opportunity's for cooperation

Positioning / story telling

External playing field for the university



Internal playing field for the university



https://commons.wikimedia.org/wiki/File:FAEF_Boardroom.jpg



[https://commons.wikimedia.org/wiki/File:Researchers_in_laboratory_\(1\).jpg](https://commons.wikimedia.org/wiki/File:Researchers_in_laboratory_(1).jpg)



Positioning a model based on standards
















<http://ec.europa.eu/research/openscience/pdf/report.pdf>



VSNU Standard Evaluation Protocol (SEP)		
	Research quality	Societal relevance
Production		
Use		

2015-2021

<http://www.vsnul.nl/sep>

VU  VRIJE UNIVERSITEIT AMSTERDAM		Institutional SDG profile				2017-10-06
SDG: Themes		SEP: Research Quality		SEP: Relevance to society		
						
		Production: thematic skew of publications	Usage: skew in top 1% most cited	Production: of publications in OA (2016)	Usage: of publications in (N)GO Policy	Usage: of most cited in (N)GO Policy
	2 Zero Hunger	179%	480%	44%	17%	56%
	3 Good Health and Well Being	110%	81%	41%	12%	50%
	11 Sustainable cities and communities	169%	292%	50%	17%	29%
	12 Responsible consumption and production	147%	233%	26%	14%	133%
	13 Climate Action	308%	462%	42%	20%	129%
	15 Life on Land	193%	1194%	56%	19%	38%
	17 Partnerships for the goals	235%	223%	42%	12%	0%

Policy sources		Policy papers referring to all VU climate research (n=2006)
Intergovernmental Panel on Climate Change		61
The Publications Office of the European Union		54
Food and Agriculture Organization of the United Nations		41
Australian Policy Online		40
National Academies Press		33
World Bank		28
rijksoverheid.nl		21
overheid.nl		11
World Health Organization		10
National Bureau of Economic Research		8
The Inter-American Development Bank		6
UK Government (GOV.UK)		6
UNESCO		3
Brookings Institute		2
The International Fund for Agricultural Development		2
UK Parliament Briefing notes		2
International Monetary Fund		1
Oxfam GB Policy & Practice		1
The International Institute for Sustainable Development		1
Totaal		331



Step 1: Develop a model



Step 2: Positioning the concept



Positive feedback
DG Research & Innovation

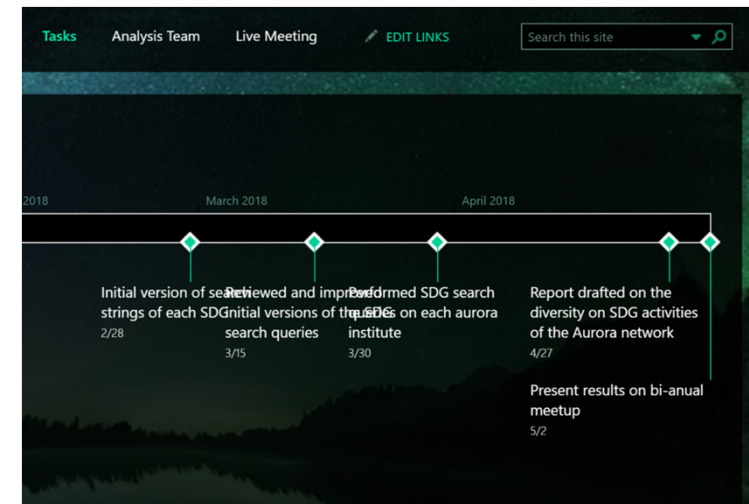


Step 3: first usage in 'real life'



Keynote speech
during Dies Natalis
celebrations
Topic: Sustainability

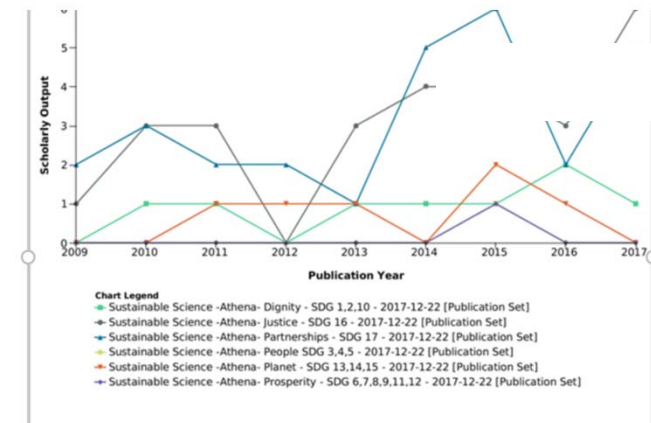
Step 4: Adoption by Aurora experts



Step 5: first test on evaluating institute



VSNU Standard Evaluation Protocol (SEP)		
	Research quality	Societal relevance
Production		
Use		



Step 6 (pipe line) : analytics Aurora Africa-group



MARCH 15-16, 2018

Amsterdam

The Aurora Africa group will meet in Amsterdam, March 15 and 16, to carry on the work started in Reykjavik and Norwich.

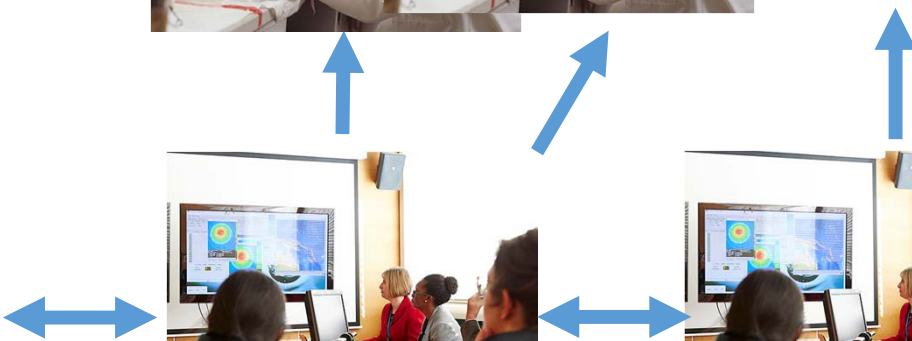
The 'Africa group' aims to share expertise among Aurora partners in working in Africa and to identify and implement opportunities for collaboration in working with partners in Africa.

The Africa group is now in the process of identifying more concrete projects and opportunities for sharing expertise and realising synergies in each other's events.

Specific projects now foreseen / planned:

- using SDGs as a framework to align AURORA's initiatives related to Africa
- reciprocal participation in conferences/seminars in Bergen and Kenya
- other ideas: Aurora Africa MOOC, SDG Africa watch, 'communicating science'

The Amsterdam meeting will be used to carry one or more of these initiatives into a more concrete implementation phase.



Step 7 (ambition) : formalization, upscaling

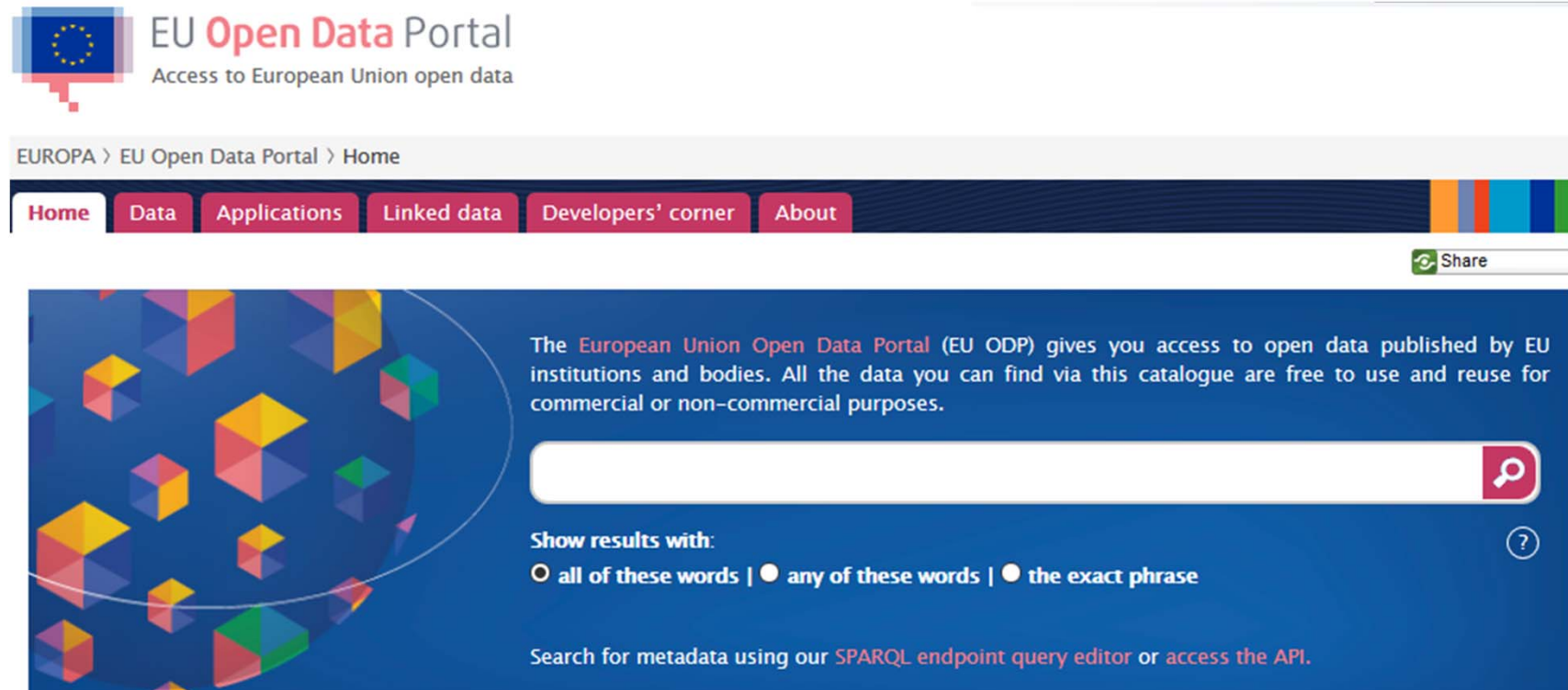


Success factors

- Link with strategic agenda (university and Aurora)
- Active support sr. management
- Providing a solution for an actual management problem within the university
- Finding ambassadors (keynote speech, first evaluation)
- Working as a team (experts – researchers / managers)
- Giving experts time to learn, investigate, cooperate
- A project manager with a vision (Maurice Vanderfeesten @Maurice_

Open Data Indicators

Public Institutions and Open Data



Research Institutions and Open Data



SND Swedish National Data Service

[FIND AND ORDER DATA](#) [DATA MANAGEMENT](#) [DESCRIBE AND DEPOSIT DATA](#) [SND EVENTS](#) [ABOUT US](#)

[Site map](#)

Search research data in the catalogue

SEARCH



Data Management

Information about what Data Management means, along with guides and advice



Describe and deposit data

Here you can find information on why you should deposit research data with SND, how it

News

Interested in the ICPSR Summer Program


The program for the ICPSR "Summer Program in Quantitative Methods of Social Research" will...
[10.10.2018]


Filter

- Kind of data ☒
- Subject ☒
- Principal ☒
- Availability status ☒
- Geographic location ☒
- Sampling Procedure ☒
- Unit of analysis ☒
- Study design ☒
- Date ☒
- Epoch ☒


Map View

Shows studies in search result containing geoints

 Results in map (111)



stone age

SEARCH 

112 hits

Previous

1

2

3

4

5

6

7

..

11

12

Next

[GIS-material for the archaeological project: Stone settings and a Stone Age shore](#)

Uppsala University

The information in the abstract is translated from the archaeological report: Due to planned house construction within the property Kallerstad 1:27, in the city and municipality of Linköping, Östergötland County, the ...

- Swedish National Heritage Board, UV Öst

☒ Download data

Published: 2012-11-21

1A

[GIS-material for the archaeological project: Stone Age remnants in an electric cable trench](#)

Uppsala University

Swedish National Heritage Board, UV Öst

☒ Download data

Published: 2012-11-22

1A

[GIS-material for the archaeological project: Stone Age remains in Ledberg-Västerbränninge](#)

Uppsala University

Swedish National Heritage Board, UV Öst

☒ Download data

Published: 2012-11-22

1A

[GIS-material for the archaeological project: In search of the Stone Age in Krokek](#)

Uppsala University

Östergötland Museum

Open Data - Societal Impact & Relevance of Research

- Universities would gain from collecting and presenting relevant Open Data Indicators on Societal Impact and Relevance of Research.
- A number of Open Data Indicators has been suggested, but normally only by the data repositories,
- and there is limited experience in collecting and presenting such indicators on university level.

AURORA SIRR Open Data Indicators

The project aims to:

- I. Identify potential SIRR Open Data Indicators
- II. Identify needed collaboration between universities and data repositories
- III. Real world collection of these indicators at a number of universities in different countries
- IV. Assess the validity of the indicators
- V. Construct a short list of suggested indicators and identify potential obstacles in indicator collection

Example indicators

Table. OPEN DATA INDICATORS PRESENTED BY UNIVERSITY	
Open <u>research</u> data indicators	<ol style="list-style-type: none"> 1. Number of data sets with DOI in all repositories (per certified/non-certified repositories) – indicates findability, quality of research 2. Number of data sets with connected publications and reports connected via DOI in participating repositories – indicates completeness 3. Number of downloaded datasets to the university from participating repositories – indicates reuseability, awareness of open science 4. Number of downloaded datasets to other universities from participating repositories – indicates findability, quality of research 5. Number of cited data set in journals and reports – indicates reuseability, quality of research
Societal impact	<ol style="list-style-type: none"> 1. Number of data sets downloaded by non-university affiliates and the public (presented by categories, e.g. journalists, politicians) 2. Data used by other authorities to monitor development over time, e.g. environmental/climate data.

Initial partner universities and associated data repositories



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Discussion

- What are key challenges/risks in focusing international networks on domestic issues and how can you cope with that?
- Is this model limited to universities in a concise geographical area?