

The CRIS of the future OR the future of the CRIS?

Dutch Pure User Group & UKB Coordination Point Research Impact
Pure Conference 2021 – 10 November 2021

Outline

- The context of the project
 - National Plan Open Science
 - National programme Recognition & Rewards
- The project
- First thoughts
- Next steps

The context of the project



nationaal
programma
**open
science**

National Programme Open Science

What is Open Science?

Document

National Programme Open Science

The National Programme Open Science brings together national stakeholders in the Netherlands. Aim of the NPOS is to coordinate the transition to Open Science and to disseminate its importance.

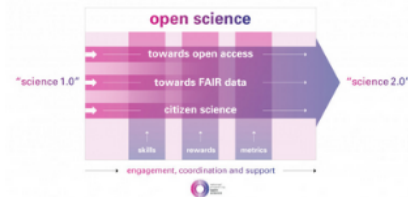
[read more](#)

Open science in NL

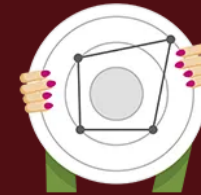
Find information focusing on the following topics here:

openaccess.nl

Transition to Open Science



In the context of the NPOS, Open Science is seen as a transition in which various parties play a role. The NPOS supports and coordinates efforts for open science at the national level. The initiation and implementation of the Open Science activities is the responsibility of the various parties involved.



PRACTICES STORIES NEWS ▾ EVENTS ▾

RECOGNITION & REWARDS

ROOM FOR EVERYONE'S TALENT

ABOUT THE PROGRAMME

In the Netherlands, we provide academic education and do academic research at the highest possible level. The academic community contributes to social and multidisciplinary issues by studying these issues and trying to find answers. Issues of today, tomorrow and the days to come. These issues demand more cooperation and a multidisciplinary approach to ensure scientific practice and impact, accompanied by a good practice of recognition and rewards.

LANGUAGE



Transition to Open Science

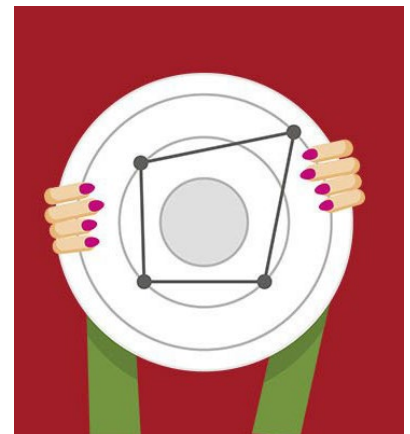
- 2017: national plan Open Science
 - Open Access
 - Research Data
 - Citizen Science
- Open Science -> diversification of research outputs



Changing the reward system

- Position paper “Room for everyone’s talent”
- National program to change the reward system
- Local working groups at universities

- 5 things to change:
 - Diversifying and vitalising career paths
 - Achieving balance between individuals and the collective
 - Focusing on quality
 - Stimulating open science
 - Stimulating academic leadership



The project

What role will or can the CRIS have in an academic world without counting, and with a huge diversity of research outputs?

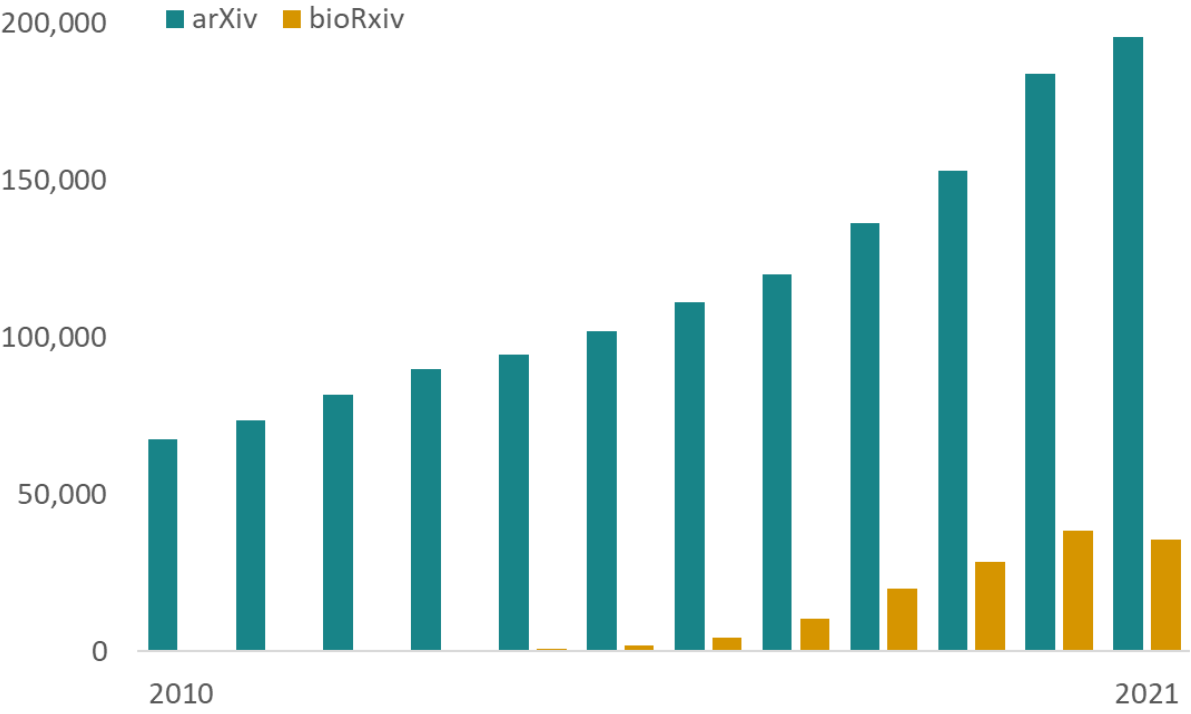


First thoughts

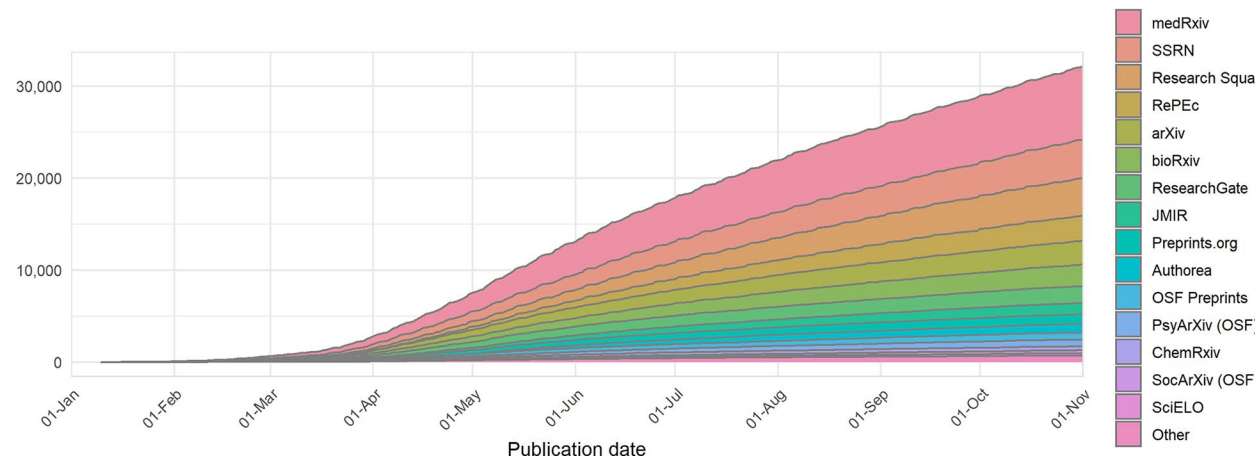
- More divers research outputs
- Activities will become more important
- Supporting narrative CV
- Linking between entities
- Variation of roles / Team Science
- Thematic clustering of outputs

Diversity - Preprints on the rise

Number of preprints posted on arXiv and bioRxiv



C

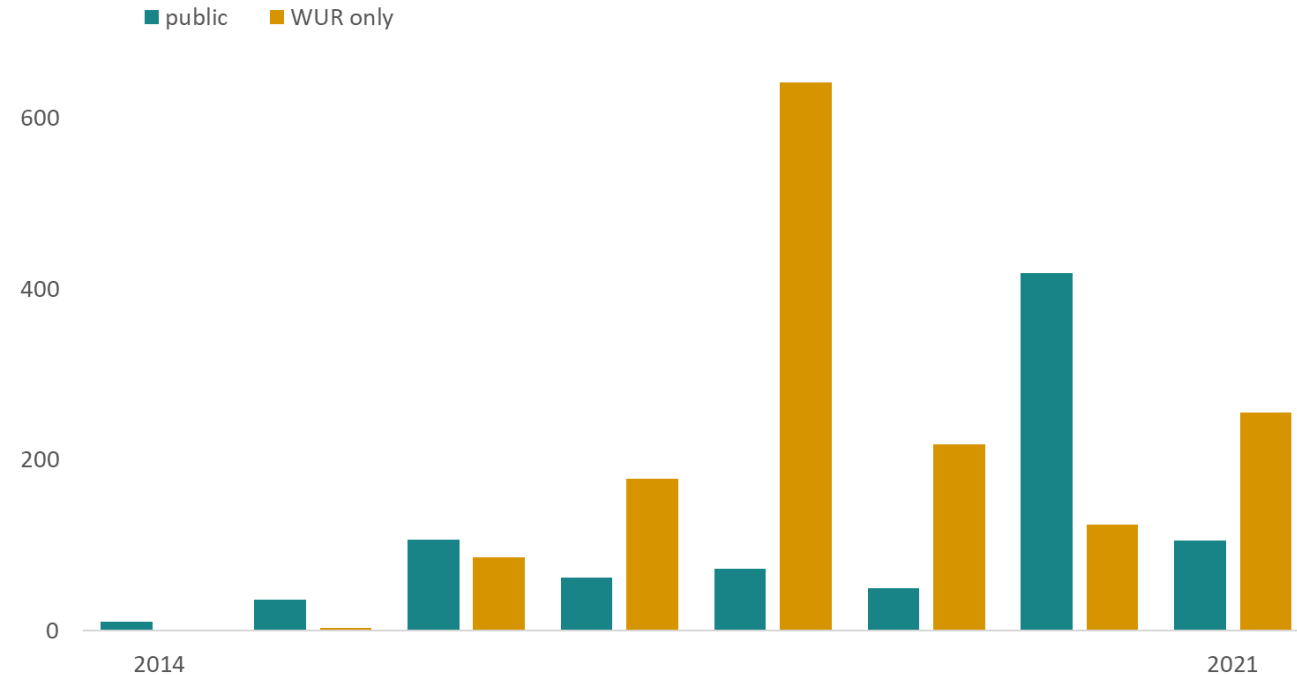


Development of COVID-19 and publication response from January 1 to October 31, 2020. Source: [Fraser et al. \(2021\)](#)

Diversity - Open Educational Resources (OER)

- Diverse materials:
 - video clips
 - open text books
 - slides
 - E-learning modules
 - ...
- Research output type Education?
- Link to courses?

Number OER materials in WUR Library for Learning



Diversity - Podcasts -> radio OR web OR ...

All podcasts for "science"



Science Vs
Gimlet



Science Weekly
The Guardian



Naked Data Scienc...
Naked Data Science



Science Magazin...
Science Magazine



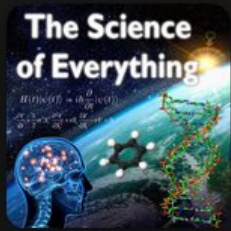
Sound of Science
Sound of Science



Science Rules! wit...
Stitcher & Bill Nye



The Science Hour
BBC World Service



The Science of Ev...
James Fodor



The Real Science ...
Professor Ross Tucker
and Mike Finch



Science Diction
Science Friday and
WNYC Studios



Brain Science: Ne...
Changelog Media



WIRED Science: S...
WIRED



I was interviewed in a podcast of the Connecting Sustainable Cities Initiative. How to register that in Pure? This podcast is aimed at professionals in the field.



Activities will become more important

- Make registration easier

2021

- ▶ **Video created for the recruitment of midwifery practices for Power 4 a Healthy Pregnancy**

[Renske van Lonkhuijzen](#) (Speaker)

26 Oct 2021

Activity: Other > Academic

- ▶ **Video created for the recruitment of pregnant women for Power 4 a Healthy Pregnancy**

[Renske van Lonkhuijzen](#) (Speaker)

13 Oct 2021

Activity: Other > Academic

- ▶ **Jury member for the 'ontwerpwedstrijd' organized by Wetenschapsknooppunt**

[Kristel Polhuis](#) (Member)

20 May 2020

Activity: Other > Other

- ▶ **Open brief aan ministers van LNV en Milieu en Wonen**

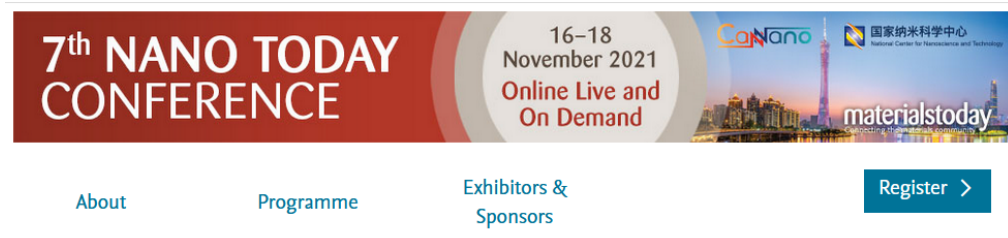
[Martha Bakker](#) (Presenter), [Hidde Boersma](#) (Contributor), [Bernard ter haar](#) (Contributor), [Michiel Hennink](#) (Contributor), [Cees Veerman](#) (Contributor), [Pieter Winsemius](#) (Contributor), [Friso de Zeeuw](#) (Contributor) & [J](#) (Contributor)

2020 → ...

Activity: Other > Other

Activities will become more important

- Pre-population -> peer review activities, editorial boards, conference presentations



7th NANO TODAY CONFERENCE

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National Center for Nanoscience and Technology

materialstoday

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Speakers

Plenary Speakers



Zhenan Bao

Stanford University, USA

Talk title: Skin-inspired organic electronics

Zhenan Bao is Department Chair and K.K. Lee Professor of Chemical Engineering, and by courtesy, a Professor of Chemistry and a Professor of Material Science and Engineering at Stanford University. Bao founded the Stanford Wearable Electronics Initiative (eWEAR) in 2016 and serves as the faculty director. [View full bio](#) +



Frank Caruso

The University of Melbourne, Australia

Talk title: Bio-nano science: a precursor to nanomedicine

Frank Caruso is a Laureate Professor and an NHMRC Senior Principal Research Fellow at The



Geoderma Impact Factor 6.114 CiteScore 8.7 [View articles](#) [Submit your paper](#)

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Activities will become more important

- Perhaps more types of activities will evolve

Choose submission

Submission guide	Publication peer-review and editorial work	Membership of board
Research output	Participating in or organising an event	Membership of committee
Activity	Talk or presentation	Membership of council
Prize	Consultancy	Membership of network
Press/Media	Membership	
Dataset	Visiting an external institution	
Curriculum Vitae	Hosting a visitor	
	Examination	
	Other	

Between 28th september and 16th October 2020 we have organized the weekly 'KIP college' in the Binckhorst, The Hague: a mixed learning environment for inhabitants, entrepreneurs, researchers, students and policy makers, debating circular area development. How to register this in Pure?



Supporting narrative CV

- Easily include data from Pure in narratives

The Résumé for Researchers structure

Personal details

Provide your personal details, your education, key qualifications and relevant positions you have held.

MODULE 1 - How have you contributed to the generation of knowledge?

This module can be used to explain how you have contributed to the generation of new ideas and hypotheses and which key skills you have used to develop ideas and test hypotheses. It can be used to highlight how you have communicated on your ideas and research results, both written and verbally, the funding you have won and any awards that you have received. It can include a small selection of outputs, with a description of why they are of particular relevance and why they are considered in the context of knowledge generation. Outputs can include open data sets, software, publications, commercial, entrepreneurial or industrial products, clinical practice developments, educational products, policy publications, evidence synthesis pieces and conference publications that you have generated. Where outputs have a DOI please only include this.

MODULE 2 - How have you contributed to the development of individuals?

This module can be used to highlight expertise you provided which was critical to the success of a team or team members including project management, collaborative contributions, and team support. It can include your teaching activities, workshops or summer schools in which you were involved (for undergrads, grads and post-grads as well as junior colleagues), and the supervision of students and colleagues. It can be used to mention mentoring of members in your field and support you provided to the advancement of colleagues, be it junior or senior. It can be used to highlight the establishment of collaborations, from institutional (maybe interdisciplinary) to international. It can be used to describe where you exerted strategic leadership, how you shaped the direction of a team, organisation, company or institution.

THE ROYAL SOCIETY

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Résumé for Researchers

Opening up conversations about researcher evaluation

Résumé for Researchers has been created to support the evaluation of individuals' varied contributions to research. Find out more about the background to the tool [in our blog](#).

Supporting narrative CV

- Easily include data from Pure in narratives
- Use of open standards

Humanities & Social Sciences
Communications



COMMENT



<https://doi.org/10.1057/s41599-021-00929-0>

OPEN

Ten ways to improve academic CVs for fairer research assessment

Michaela Strinzel ¹, Josh Brown ², Wolfgang Kaltenbrunner ³, Sarah de Rijcke ³ & Michael Hill ¹

Source: Strinzel *et al.*, 2021 (doi: [10.1057/s41599-021-00929-0](https://doi.org/10.1057/s41599-021-00929-0))

Box 1 | Some key open and interoperable data standards and systems

DOIs (Digital Object Identifiers, <https://www.doi.org/>) are a type of Persistent Identifier (PID). The alphanumeric strings are established standards to uniquely and permanently identify specific objects independent of their location. DOIs are commonly used by the research community to identify and differentiate various scholarly output items (e.g., publications, datasets, software, etc.). By forming persistent links to a resource DOIs mitigate against “reference rot”, which is caused by a combination of link rot and content drift (Klein *et al.*, 2014). The DOI system is maintained by the International DOI Foundation (IDF), which oversees its registration agency members, such as Crossref or DataCite.

ISSN (International Standard Serial Number, <https://www.issn.org>) is an international, standardized PID. The 8-digit code uniquely identifies serial publications (i.e., newspapers, journals, collections, periodicals etc.) irrespective of their medium (print or electronic). The ISSN is especially useful for disambiguating serials with the same title.

ISBN (International Standard Book Number, <https://www.isbn-international.org>) is an international standard used to identify monographic publications (i.e., books or book chapters, if separately available) and to record their metadata. The 13-digit code can also be resolved into a DOI.

ORCID (Open Researcher and Contributor ID, <https://orcid.org/>) is a global and persistent identifier registry for individual researchers. The ORCID iD disambiguates and identifies individual researchers throughout their career and connects them with their research outputs (e.g., publications etc.) or records of employment or previous funding. The ORCID system has become a de facto standard.

DataCite (<https://datacite.org/>) is a not-for-profit, international organization and official DOI registration agency for scientific datasets and other research objects. DataCite’s members (i.e., academic organizations) can assign DOIs to their research outputs, enhancing the discoverability of their data and its associated metadata and helping to preserve longterm access to that data.

Crossref (<https://www.crossref.org/>) is a not-for-profit membership organization and official DOI Registration Agency. Alongside operating a DOI registry for scholarly outputs and a funder registry, it currently runs the Grant Identifier initiative (<https://www.crossref.org/community/funders/>) in partnership with several funders including for instance the Wellcome Trust, ERC and NIH. In this scheme, DOIs will be used to persistently identify awarded grants and their corresponding metadata. This makes funding information more transparent and can facilitate effectively tracking the outcomes and impact of funding.

ROR (Research Organization Registry Community, <https://ror.org/>) is an initiative led by Crossref, DataCite, California Digital Library and Digital Science aiming at developing “an open, sustainable, usable, and unique identifier for every research organization in the world”. ROR is designed to identify affiliation on researcher outputs (e.g., publications etc.) by assigning unique ROR IDs to research organizations. ROR thereby supports a more efficient discovery and tracking of research activities and outputs by institution. The system is interoperable with other organization identifiers, including GRID (<https://www.grid.ac/institutes>), ISNI (<https://isni.org/>), the Crossref Funder ID (<https://www.crossref.org/services/funder-registry/>), or Wikidata (https://www.wikidata.org/wiki/Wikidata:Main_Page). Orcid plans to include ROR IDs in its list of supported Organization IDs by 2020/21.

CASRAI (Consortia Advancing Standards in Research Administration Information, <https://casrai.org/>) is an international non-profit organization providing the forum and means needed to standardize research data. In conjunction with funders, universities and other stakeholders it develops and maintains an open dictionary of terminology for the semantics and structures of scholarly information, including the definition of CV items. One such standard is for instance the CRediT system (Contributor Roles Taxonomy, <https://credit.niso.org/>), a taxonomy, which defines the contribution of individual authors to a publication. CRediT has now been adopted by NISO (National Information Standards Organization), see: <http://credit.niso.org/>. Adherence to the CASRAI standards facilitates international interoperability and access to research data.

Linking between entities

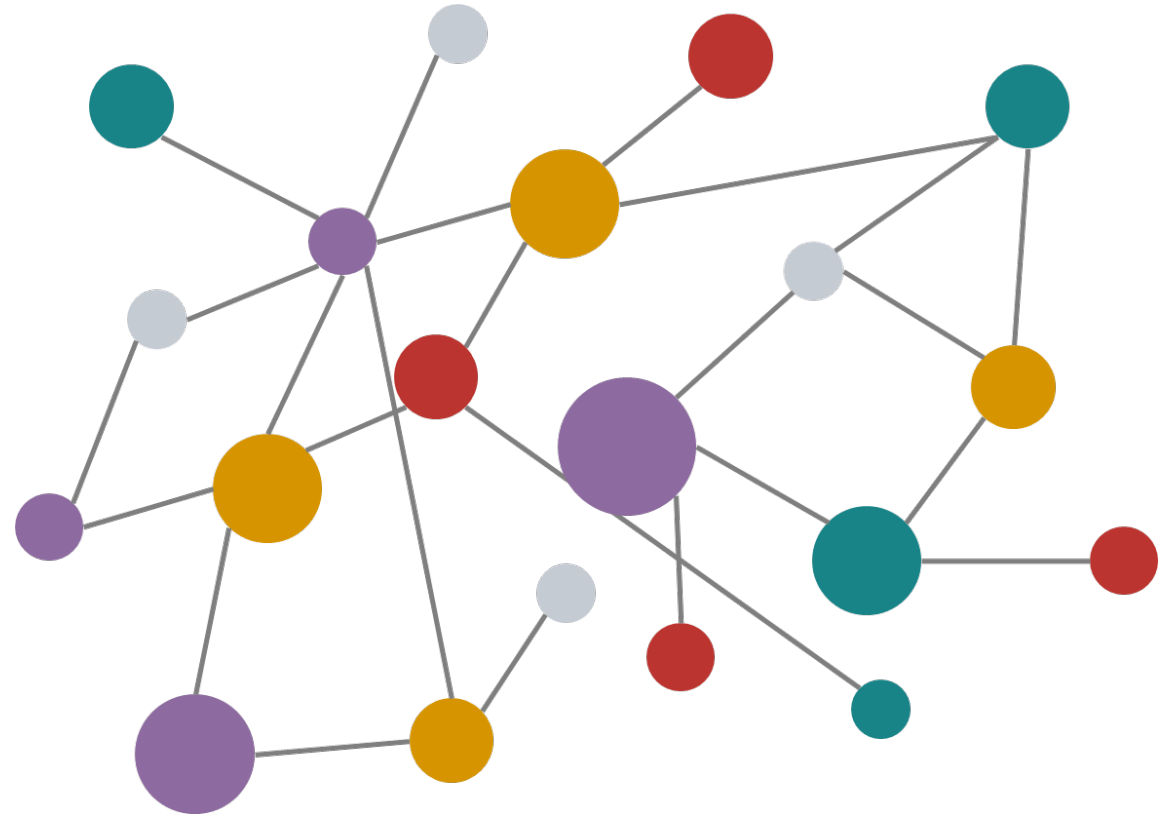
TO SHOW:

- the result of funding
- the data underlying the publication
- the code used for analysis
- the publication underlying a newspaper article



Variation of roles / Team Science

- CREDIT taxonomy
- teaching and supervision roles
- dynamic
- visualisation



Thematic clustering of outputs

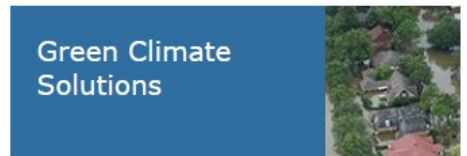
- Thematic vs. organisational reporting
- E.g. Sustainable Development Goals
- Automatic classification

Research programmes

- Circular and climate neutral
- Food security and the value of water
- Nature inclusive transitions
- Healthy & safe food systems
- Data driven and hightech

Investment programmes

- Connected circularity
- The protein transition
- Digital twins



Next steps ...

- Get in touch with local and national working groups Recognition and Rewards
- Demonstrate potential of Pure and other CRIS systems
- Collect improvements/whishes of current systems
- Report to library directors what is needed for future proof CRIS support

Thanks to my working group colleagues: Armand Guicherit, Zohreh Zahedi, Leander van der Spek, Petra Dickhaut, Doetsje Brouwer, Frank Diepmaat, Mir Uiterwijk, Hanneke van der Veen, Katrine Bengtsson, Laurents Sesink & Mariëlle Prevoo

The CRIS of the future **OR** the future of the CRIS?

Thank you for your attention!

Contact: ellen.fest@wur.nl – DOI: [10.5281/zenodo.5714382](https://doi.org/10.5281/zenodo.5714382)