

The (possible) role of *Research Information Systems (CRIS)* for an institution and its researchers.

With special attention to research data management and archiving.

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Radboud University / euroCRIS  
EUNIS Conference  
Paris, June 7<sup>th</sup> 2018

Presentation by:

Ed Simons



# Speaker

## Currently:

- President of euroCRIS, the *International Organisation for Research Information*.
- Senior Project Manager Research Data Services, *Radboud University*, The Netherlands.

## Formerly:

- Head of the Central IT Support Unit at *Radboud University*.
- Information Manager of the *International Federation of Catholic Universities (IFCU)*.
- Project Leader *International Association of University Presidents (IAUP)*
- International Project Leader, IT Development Projects for *NUFFIC, the Dutch Organisation for University Development Cooperation*.

Ed Simons



*Research Information Systems (commonly called CRIS) are in the process of **undergoing a shift in their role and function**: from administrative and reporting systems in the past, merely of use for research administrators and assessors **to (also) tools for the researchers themselves closely connected to the research process.***

This development is promoted and driven by (the growing importance of) the practice of Research Data Management.

# Content and structure of the Presentation

## Content

Illustrating the development just mentioned by means of the concrete case of the use of the CRIS (called “Metis”) within the framework of Research Data Management at Radboud University, The Netherlands.

The presentation will not be of a theoretical but of a very concrete, practical nature, focusing on implemented policy and applications.

### Structure:

1. Some info on Radboud University and euroCRIS.
2. A short definition of what CRISs are and a note on their history.
3. CRIS as a tool in the Research Data Life Cycle at Radboud University.
4. Conclusions.

Background of the speaker and the developments presented in the presentation:

Radboud University and euroCRIS.

# Location



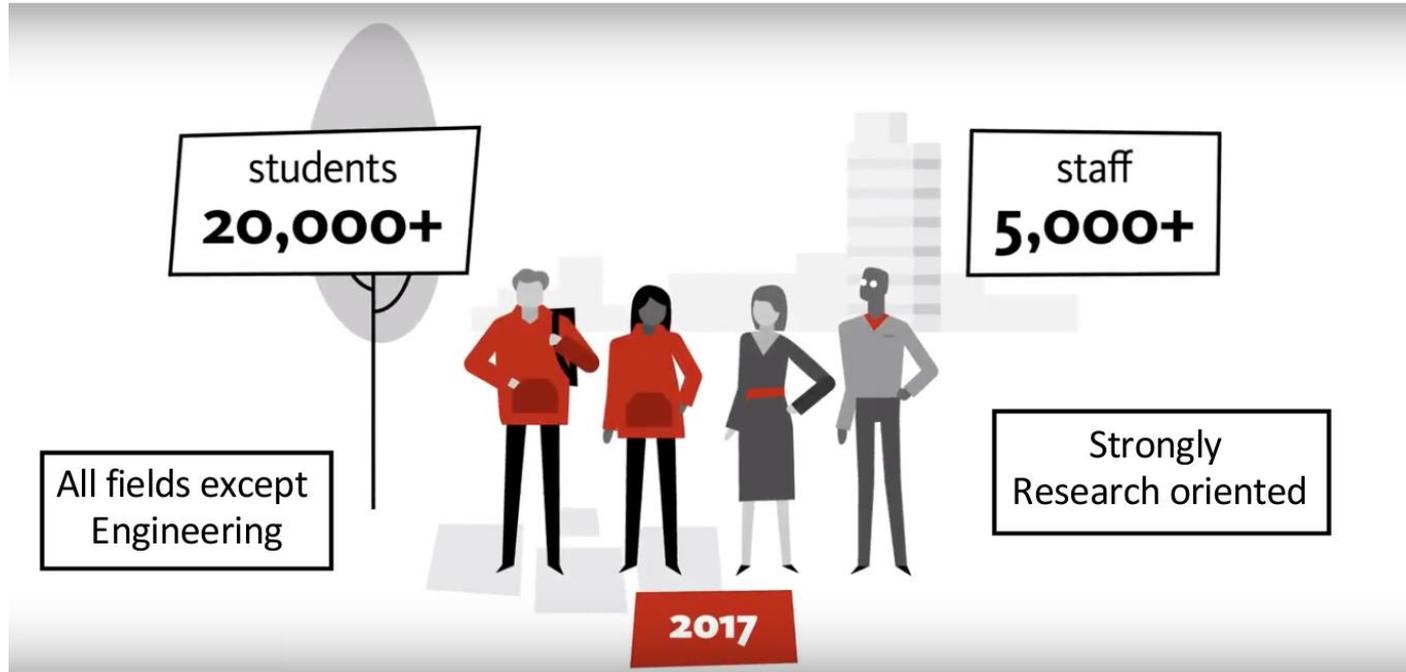
Radboud  
University

Radboud University



# Facts and Figures

Radboud  
University



## Prizes and achievements

- > [Nobel Prize 2010](#)
- > [ERC grants](#)
- > [Academia Europaea](#)
- > [Roadmap grants](#)
- > [Gravitation Programme](#)
- > [Spinoza Prize winners](#)
- > [Veni, Vidi and Vici grants](#)
- > [More prizes and achievements](#)



## Nobel Prize in Physics 2010



Professor Andre Geim and Professor Konstantin Novoselov, both connected to the Radboud University, have been awarded the Nobel Prize for Physics 2010 for the discovery of graphene, the thinnest material in the world. They explored the material in the High Field Magnet Laboratory in Nijmegen and got essential help from professor Mikhail Katsnelson, theoretical physicist at Radboud University.



*Andre Geim (right) en Konstantin Novoselov (left) are awarded with the Knight Commander of the Order of the Netherlands Lion*



[CRIS 2018 delegates](#)

## News

[CRIS2018 posters added to event programme](#)

24-05-2018

The three posters submitted so far to the CRIS2018 conference have now been [added to the event programme](#).

[OpenAIRE compatibility for CRISs discussed at Pure UK User Group meeting](#)

24-05-2018

An update on the progress of the ongoing work to make Pure OpenAIRE-compatible within the [METIS2OpenAIRE project](#) was delivered

## CRIS2018, June 14 -16 2018, Umeå, Sweden: 14th International Conference on Current Research Information Systems

(in cooperation with [Umeå, Universitij](#))

**General Theme: FAIRness of Research Information**

The target audience includes research managers, research funders, evaluators, librarians, ICT experts, policy makers as well as CRIS users and developers in general. .

[Preliminary Programme](#)

[Registration: until 5th of June!](#)

More information on CRIS 2018 can be found on the conference website: <http://www.cris2018.se/>



## Mission

"To promote collaboration within the research information community and advance interoperability through CERIF"



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[twitter](#)

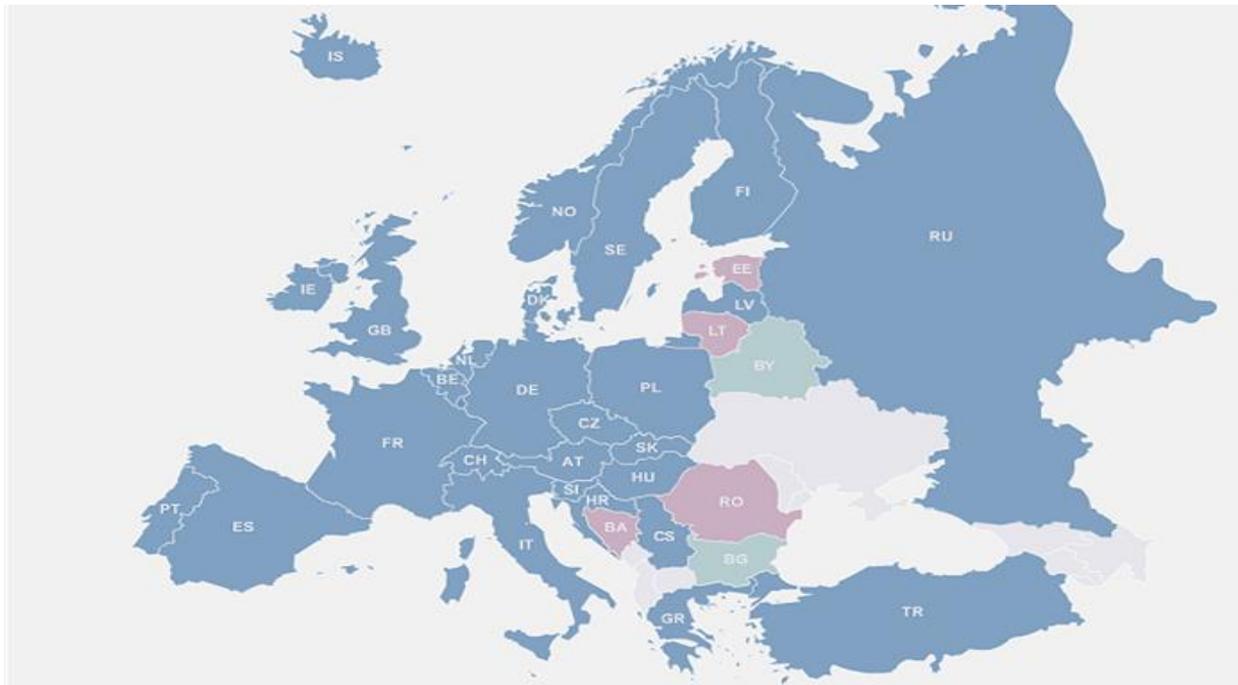
International  
Organisation  
for Research  
Information

[eurocris.org](http://eurocris.org)

# Nature and goals

- An international not-for-profit association of experts and users of research information and research information systems (CRIS).
- *Main activities/goals:*
  - Development and governance of CERIF, a standard data model and exchange format for research information, and promotion of its use.
  - Promotion of community building and cooperation between stakeholders (organisations) in the Research Information Domain. To fulfill this function, euroCRIS regularly organises international events: Membership Meetings and Conferences
- *Upcoming events:*
  - CRIS2018 International Conference, Umea, Sweden (next week)
  - Strategic Membership Meeting, Warsaw, November 2018.

# Membership



## Members outside of Europe:

Australia – Brazil – Canada – China - Colombia – Iran – Israël - Malaysia – Nigeria – Pakistan – South Korea - USA

200+ members from 45 countries (mainly Europe)

International  
Organisation  
for Research  
Information

# Strategic Partners



International  
Organisation  
for Research  
Information

**euroCRIS**  
Current Research Information Systems

# FINAL REPORT

## EUNIS – EUROCRIS JOINT SURVEY ON CRIS AND IR

Executive Summary	4
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CRIS System features	12
IR Technologies	15
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Use of systems other than IR to store research outputs	16
Content types stored in CRISs and IRs	17
IR Interoperability	18
Openaire and ORCID compliance	19
IR Institutional or author evaluation compliance	20

### AUTHORS

Ligia Ribeiro  
Pablo de Castro  
Michele Mennielli

<http://www.eunis.org/wp-content/uploads/2016/03/cris-report-ED.pdf>

Co-operation  
EUNIS-euroCRIS



**euroCRIS**  
Current Research Information Systems

# CRISs: their nature and history

# What is a CRIS?

A CRIS is an information system that holds (meta)data about virtually all aspects of research:

- *Researchers* involved (ID, name, title, affiliation, ...) and their role.
- *Projects* (ID, title, description, key words, start- and enddate, ...)
- *Organisations* (institutes, universities,...) involved and their role
- *Funding/funders*
- *Input* invested in the research both in time (f.t.e.) and money.
- *Output* from the research (publications, datasets, software, patents, etc...)
- *Equipment and services* used.
- *Cooperations and Partnerships* with other projects, researchers, groups, organisations.
- *Links to other systems* (HRM, financial, external: ORCID, WoS, Scopus, ...)
- *Domain/field of science or subject area* of the research
- *Impact* of the research, both in- and outside of academia (metrics, impact indicators,...).
- Semantic *classifications* of the research on various dimensions (typologies, controlled vocabularies ...),
- *Rights and access metadata*: who is authorised or which conditions may apply to access (some of the) information in the CRIS
- Etc...

And all these aspects related or linked to each other!

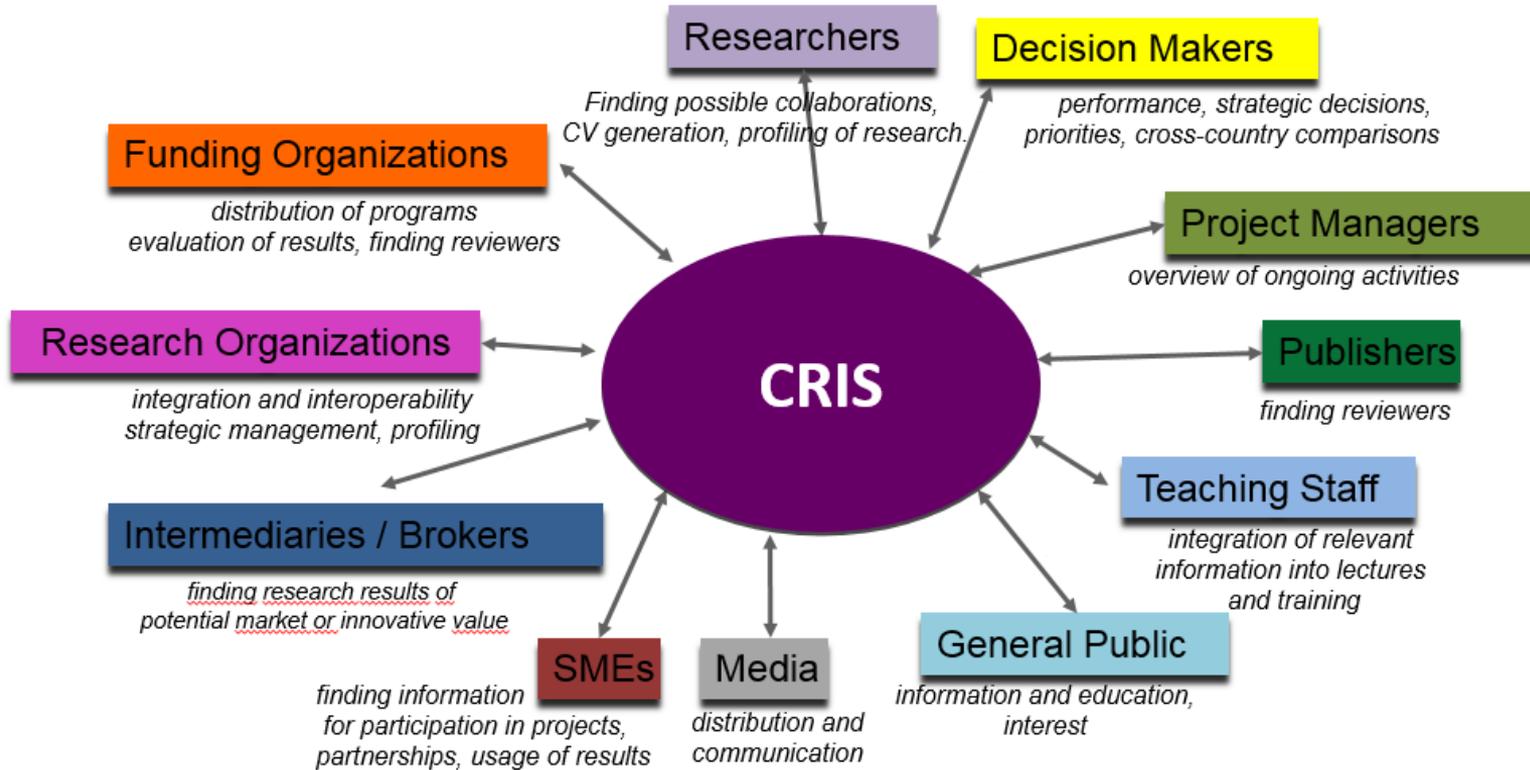
(meta)  
Data in a CRIS

# CRIS: a bit of history

- CRISs first appeared around the end of the 80's, early 90's, closely linked to emerging policies of research assessment and control within some European countries (e.g. The Netherlands, Norway, Denmark,...).
- So initially they more or less uniquely had an administrative purpose and were also as such conceived by the research community.
- In the course of time, and especially the last decade, however the image has changed and CRIS nowadays are evolving into multifunctional instruments for a multitude of stakeholders among which research managers and, not the least, *the researchers themselves*.

## Evolution of CRISs

# CRIS: many stakeholders



CRIS:  
Multifunctional  
Information  
Resources

Introduction

**ERIM Overall**

- Input >
- Output >
- Productivity >
- Doctoral programme >
- Research programmes >

Introduction

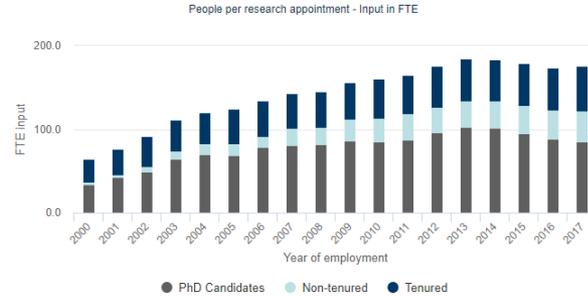
The information on **input** is presented for people and Full Time Equivalents (FTE), the different ERIM membership-types, research appointment ((non) tenured), gender, internationalisation and seniority of the group.

The **output** shows statistics on publishing. We distinguish several analytics on quality publishing in journals: Core (ERIM) journals vs Non core journals, ISI vs Non-ISI journals, ISI quartiles, ISI 1st Quartile, ISI 1st Decile, the ratio of articles in ISI 1st Quartile journals (Q1 Ratio) and the ratio of articles in ISI First Decile (D1 Ratio).

The **productivity** is calculated as the Top Core (ERIM P\* and P articles) per fte Tenured faculty, ISI 1st + ISI 2nd per fte Tenured faculty, ISI 1st decile per fte Tenured faculty.

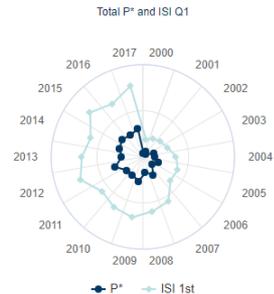
We present information on the Doctoral Programme community, PhD- and research master students graduated per year, gender ratio's, International vs Dutch PhD entrants, nationalities and Time to PhD.

People per research appointment - Input in FTE



Erasmus Research Institute of Management (ERIM) / Dialogic

Total P\* en ISI Q1



Erasmus Research Institute of Management (ERIM) / Dialogic

P\* ratio and Q1 ratio



Erasmus Research Institute of Management (ERIM) / Dialogic

## CRIS: Instrument for Profiling of research(ers)

Full Professor



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Programme: Organisation

ERIM Membership: Fellow ERIM (since 2003)



Profile

Publications (161)

Key publications (4)

Hirst, G., van Knippenberg, D. & Zhou, J. (2008). A cross-level perspective on employee creativity: Goal orientation, team learning behavior, and individual creativity. *Academy of Management Journal*, 52(2), 280-293.

van Knippenberg, D. & Schippers, M.C. (2007). *Work group diversity*. *Annual Review of Psychology*, 58, 515-541.

van Knippenberg, D., de Dreu, C.K.W. & Homan, A. C. (2004). *Work group diversity and group performance: An integrative model and research agenda*. *Journal of Applied Psychology*, 89(6), 1008-1022.

van Knippenberg, D. & Hogg, M.A. (2003). A social identity model of leadership effectiveness in organizations. *Research in Organizational Behavior*, 25, 243-295.

Articles (113)

Books (5)

Book contributions (43)

Recognitions (20)

Centres

[Leadership](#)

Latest publication

Kollée, J.A.J.M., Giessner, S.R. & van Knippenberg, D. (2013). Leader evaluations after performance feedback: The role of follower mood. *The Leadership Quarterly*, 24 (1), 203-214.

Latest news

**PhD Defence: Morality in Interactions: On the Display of Moral Behavior by Leaders and Employees**

In her PhD thesis entitled *Morality in Interactions: On the Display of Moral Behavior by Leaders and Employees*, Suzanne van Gils analyses the interplay between employees and their organisational environment.

Course

[Advanced Topics in Organizational Behavior](#)

CRIS:  
Instrument for  
Profiling of  
research(ers)

Radboud University



euroCRIS  
Current Research Information Systems

# But still....

Although the functionality of CRISs has changed and research(er) profiling functions have been developed and added, this seems not quite enough to really make CRISs a “researcher thing”.

## Research activities



“My World”

## Research information activities



“Their (administration) World”

Researcher:  
the key player

But the emerging focus on and demands of Research Data Management could be a “game changer” in this respect.

# CRIS and Research Data Management at Radboud University

# Context: Research Information Policy and CRIS System at Radboud University.

A few years ago (2014), two important initiatives were started up within Radboud University:

1. To strive for a “*one-stop-shop*” for researchers to manage the information about their research. This a.o.t. in order to diminish the number of different applications, interfaces and formats (e.g. Institutional Repository, CRIS, CV-/profiling system, project registration system etc....) a researcher has to face when dealing with research information.
2. (given the emerging and growing needs and demands regarding research data management)  
To create optimal conditions, instruments and support for the Research Data Management (RDM) by the researchers.

For both intentions the CRIS was seen as (part of) the solution.

# Context: Research Information Policy and CRIS System at Radboud University.

Reasons for assigning a central “one stop shop” role to the CRIS were:

- (in a time of “fake news” and all kinds of external online applications and resources being used by researchers) **The need for an institutional “*accountable resource*” on research, i.e.: a trusted source on the research (and its results) going within the institution *holding the information the institution can be held accountable for.***
- **A long-standing experience with and expertise on CRISs**, as Radboud University was one of the first institutions in Europe to – already 25 years ago - implement a CRIS (called “Metis”).
- **The fact that the CRIS in the course of the years already had taken the position of primary research information resource**, acting as the source for e.g. the Institutional Repository as well as the researcher’s profile pages on the institution’s web site.
- **The fact that all other research output was registered and managed in/by the CRIS, making the registration of datasets (metadata) more or less obvious.** More so since this way the datasets could immediately be linked to the publications based upon them and the projects they belonged to (which info was already in the CRIS).

# Context: Research Information Policy and CRIS System at Radboud University.

To cut a long story short, in the course of 2014 it was decided to:

- Extend the researcher interface of the CRIS (“Metis”) with both functionality to register the datasets (metadata) in the CRIS and – a substantial step further – *to also build in functionality to archive (upload) the data files themselves* (to the National Dutch Data Repository (DANS). For the latter a joint project was started up with DANS.
- To create a “Research Information Services” (RIS) support desk at the library to optimally support the researchers with their data archiving activities and to monitor and control the quality of the data sets before finally sending them to the DANS repository.

So there were both an IT/system (CRIS) and an organizational component (RIS-support) involved.

# Extending the researcher's interface of the CRIS with data archiving functions at Radboud University



## Result overview

8 results

2017

**Article - Letter To The Editor**

Simons, E., Jetten, M., Messelink, M.C., Berchem, M. van, Schoonbrood, H. & Wittenberg, M. (2017). The Important Role of CRIS's for Registering and Archiving Research Data. The RDS-project at Radboud University (the Netherlands) in Cooperation with Data-archive DANS. *Procedia Computer Science*, 106, 321-328. doi: 10.1016/j.procs.2017.03.031

Schirris, T.J.J., Jansen, J., Simons, E., Mihajlovic, M., Heuvel, L.P.W.J. van den, Masereeuw, R. & Russel, F.G. (2017). Mild intracellular acidification by dexamethasone attenuates mitochondrial dysfunction in a human inflammatory proximal tubule epithelial cell model. *Scientific Reports*, 7 (1), 10623. doi: 10.1038/s41598-017-10483-y

Simons, E., Haas, R. de, Das, D., Garanto, A., Renkema, G.H., Greupink, R., Broek, P.H.H. van den, Pertijs, J.C., Collin, R.W.J., Willems, P.H., Beyrath, J.D., Heerschap, A., Russel, F.G. & Smeitink, J.A.M. (2017). Therapeutic effects of the mitochondrial ROS-redox modulator KH176 in a mammalian model of Leigh Disease. *Scientific Reports*, 7 (1), 11733. doi: 10.1038/s41598-017-09417-5

2015

**Article - Letter To The Editor**

Lameris, A.L.L., Nevalainen, P.I., Reijnen, D., Simons, E., Eygensteyn, J., Monnens, L.A., Bindels, R.J.M. & Hoenderop, J.G.J. (2015). Segmental transport of Ca(2)(+) and Mg(2)(+) along the gastrointestinal tract. *American Journal of Physiology: Gastrointestinal and Liver Physiology*, 308 (3), G206-16. doi: 10.1152/ajpgi.00093.2014

2011

**Article - Letter To The Editor**

Jetten, M. & Simons, E. (2011). Samen op weg naar verdieping. Christenen en moslims in dialoog. *Handelingen. Tijdschrift voor Praktische Theologie en Religiewetenschap*, 38 (1), 14-20.



# Research Data Archiving through CRIS

# Researcher Interface





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☰ overview

☎ contact/help

❓ userguide

⏻ exit

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new result

▼ Type

result category



- choose a result-



☑ personal key publication

status



- choose a result-
- academic speech
- annotation
- article - letter to the editor
- article in volume - proceedings
- audio-visual aids
- award
- book - monograph
- book editorship
- book review
- computer program / software
- contribution weekly / daily journal
- data management plan
- dataset**
- design
- doctoral thesis
- internet article
- journal editorship - refereed



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# Research Data Archiving through CRIS

## Researcher Interface





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overview



contact/help



userguide



exit



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new result

▼ Type

result category



dataset



register and deposit



register only

status



work in progress



personal key publication



▼ Researchers ?

Add results &amp; researchers...

	name	initials	prefix	title	
1	Simons	E.			
2					



▼ Metadata

**title information**

title



# Research Data Archiving through CRIS

## Researcher Interface





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## ▼ Metadata

**title information**title ⓘ  🔍subtitle **repository information**archive ⓘ  ▼year of archiving ⓘ date available ⓘ    (dd mm yyyy)rightsholder ⓘ DOI ⓘ handle ⓘ URL at archive ⓘ handle at local repository ⓘ 

# Research Data Archiving through CRIS

## Researcher Interface



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### content information

description



The dataset contains information about the evolution in numbers of fauna and flora occurring on the reefs, as well as about the water quality measured on a number of chemical parameters.

keywords



tropical reef, reef fauna, reef flora, aquatic ecology, Indonesia, climat change, sea water

MeSH



Biology

audiences



Chemistry

- Choose an audience -

languages



English

### temporal coverage

collection period



from

1

1

2005

to

31

12

2015

(dd mm yyyy)



subject period



n.a.

### spatial coverage

Research Data  
Archiving  
through CRIS

Researcher  
Interface





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**temporal coverage**

collection period ?

from

1

1

2005

to

31

12

2015

(dd mm yyyy)



subject period ?

n.a.

**spatial coverage**

area ?

Indonesian part of Indian and Pacific Ocean



coordinates ?



geolocation box



latitude

-11.289

longitude

95.0183

(SW)

latitude

7.2700

longitude

140.567

(NE)

▼ Related results ?

Add results &amp; researchers...

Research Data  
Archiving  
through CRISResearcher  
Interface



+ add result

overview

contact/help

userguide

exit

info delete

Coordinates: choose on map



new result

temporal c

Left-click to create a geopoint on the map, or right-click for a geobox.

Click and drag to move the geopoint or the geobox.

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Research Data  
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Related results

✕

new result

coordinates ?

(part of) title

result type

choose a result



area

DOI

coordinates ?

author

Simons



publication year

from

2015

through

2017

connect selected results

**connectresult (apa)**

Simons, E., Haas, R. de, Das, D., Garanto, A., Renkema, G.H., Greupink, R., Broek, P.H.H. van den, Pertija, J.C., Collin, R.W.J., Willems, P.H., Beyrath, J.D., Heerschap, A., Russel, F.G. & Smeitink, J.A.M. (2017). Therapeutic effects of the mitochondrial ROS-redox modulator KH176 in a mammalian model of Leigh Disease. *Scientific Reports*, 7 (1), 11733. doi: 10.1038/s41598-017-09417-5



Lameris, A.L.L., Nevalainen, P.I., Reijnen, D., Simons, E., Eygensteyn, J., Monnens, L.A., Bindels, R.J.M. & Hoenderop, J.G.J. (2015). Segmental transport of Ca<sup>2+</sup>(+) and Mg<sup>2+</sup>(+) along the gastrointestinal tract. *American Journal of Physiology: Gastrointestinal and Liver Physiology*, 308 (3), G206-16. doi: 10.1152/ajpgi.00093.2014

Schirris, T.J.J., Jansen, J., Simons, E., Mihajlovic, M., Heuvel, L.P.W.J. van den, Masereeuw, R. & Russel, F.G. (2017). Mild intracellular acidification by dexamethasone attenuates mitochondrial dysfunction in a human

(SW)

(NE)

(SW)

(NE)



▼ Related results

Add results &amp;

▼ Research ?

# Research Data Archiving through CRIS

## Researcher Interface



[+ add result](#) [overview](#)[contact/help](#) [userguide](#) [exit](#)[info](#) [delete](#) [previous](#) [next](#) [copy](#) [save](#) [deposit dataset](#)[new result](#)▼ Related results [?](#)[Add results & researchers...](#)

Simons, E., Haas, R. de, Das, D., Garanto, A., Renkema, G.H., Greupink, R., Broek, P.H.H. van den, Pertjjs, J.C., Collin, R.W.J., Willems, P.H., Beyrath, J.D., Heerschap, A., Russel, F.G. & Smeitink, J.A.M. (2017). Therapeutic effects of the mitochondrial ROS-redox modulator KH176 in a mammalian model of Leigh Disease. *Scientific Reports*, 7 (1), 11733. doi: 10.1038/s41598-017-09417-5

▼ Research [?](#)[Add research...](#)

## ▼ Dataset files

[Manage data files...](#) [?](#)

# Research Data Archiving through CRIS

## Researcher Interface



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latitude

longitude

(NE)

## Upload dataset files



Before uploading your data files:

- Make sure that your dataset is **anonymised** and includes **documentation**. For more information check out our [step-by-step guide](#).
- When uploading large files (>100MB) from outside the campus network, make sure your internet connection speed is sufficient.

After uploading your data files:

- It is important to assign an **access level** to each uploaded file.

Total storage space: 5 GB

Used storage space: **14.1 Kb**Available storage space: **5.00 GB**

Use the button below to select multiple files or drag and drop files to this window to upload.

[+ Select files...](#)

uploaded files: (1)

(de)select all 

filename

size

access level

action

[save dataset files](#)[cancel](#)

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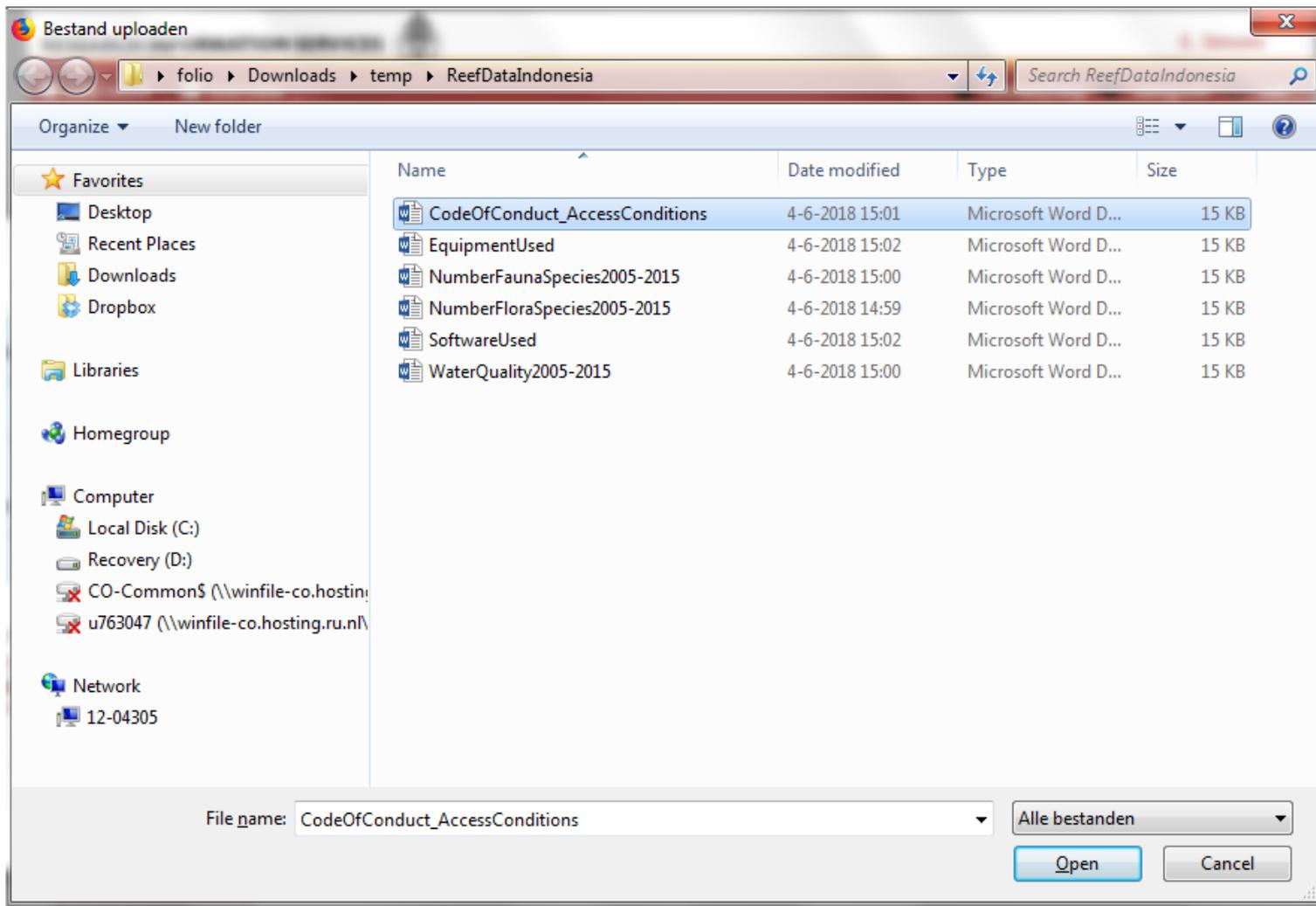
14.1 Kb

open access

# Research Data Archiving through CRIS

## Researcher Interface





## Research Data Archiving through CRIS



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overview



contact/help



userguide



exit



delete



previous



next



copy



save



deposit dataset

latitude

longitude

(NE)

## Upload dataset files



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Total storage space: 5 GB

Used storage space: 14.1 Kb

Available storage space: 5.00 GB

Use the button below to select multiple files or drag and drop files to this window to upload.

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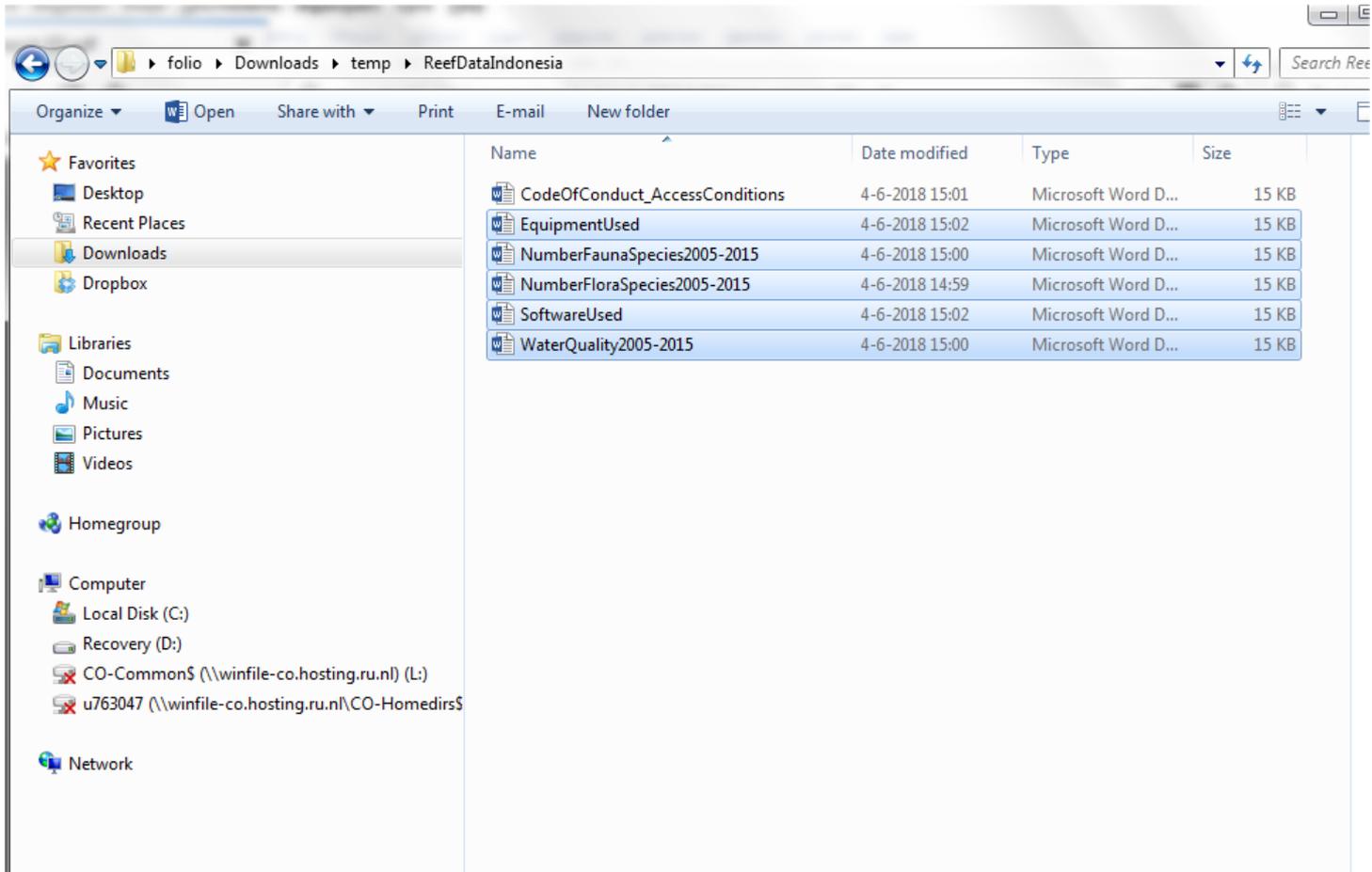
cancel

CodeOfConduct\_AccessConditions.docx

14.1 Kb

open access





## Research Data Archiving through CRIS



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overview

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info delete previous next copy save deposit dataset

- Make sure that your dataset is **anonymised** and includes **documentation**. For more information check out our **step-by-step guide**.
- When uploading large files (>100MB) from outside the campus network, make sure your internet connection speed is sufficient.

After uploading your data files:

- It is important to assign an **access level** to each uploaded file.

Total storage space: 5 GB

Used storage space: 84.7 Kb

Available storage space: 5.00 GB

Use the button below to select multiple files or drag and drop files to this window to upload.

+ Select files...

uploaded files: (6)

(de)select all

filename	size	access level ?	action
CodeOfConduct_AccessConditions.docx	14.1 Kb	open access	
EquipmentUsed.docx	14.1 Kb	open access	
NumberFaunaSpecies2005-2015.docx	14.1 Kb	open access	
NumberFloraSpecies2005-2015.docx	14.1 Kb	open access	
SoftwareUsed.docx	14.1 Kb	open access	
WaterQuality2005-2015.docx	14.1 Kb	open access	

save dataset files

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# Research Data Archiving through CRIS



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Saved

✕

The following result has been saved:

Simons, E. (2018). *Data on the evolution of tropical reef structures around the Indonesian Archipelago*. DANS EASY [Dataset].

ok

new result

overview

longitude

(NE)



▼ Related results

Add result

Simons, E., Heerschap, A.

Leigh Disease. *Scientific Reports*, 7 (1), 11733. doi: 10.1038/s41598-017-09417-5

Stijts, J.C., Collin, R.W.J., Willems, P.H., Beyrath, J.D.,  
redox modulator KH176 in a mammalian model of



▼ Dataset files

Manage data files...



filename	size	access level ?	action
CodeOfConduct_AccessConditions.docx	14.1 Kb	open access	
EquipmentUsed.docx	14.1 Kb	open access	
NumberFaunaSpecies2005-2015.docx	14.1 Kb	open access	

## Research Data Archiving through CRIS



## your dataset deposit "Data on the evolution of tropical ree..."

Radboud@smtp-mailhost.ru.nl

Aan: Simons, E.J. (Ed)

CC: Research Information Services, UBN

maandag 4 juni 2018 15:19

Dear E. Simons,

Thank you for depositing your dataset titled "Data on the evolution of tropical reef structures around the Indonesian Archipeloo" using RIS (<https://ris.ru.nl>).

Your entry and data files will be checked by the RIS servicedesk. In case of questions, you will be contacted. Should you wish to make any changes to the metadata or to upload complementary files, please contact us.

After the check, the dataset will be submitted to the DANS EASY archive. This process will take some time. You will be informed via email when the dataset is available in the archive.

**Please note:** this information is only sent to you as depositor of the dataset. If applicable, please share this information with co-researchers of the dataset.

Kind regards,

RIS servicedesk

E: [ris@ubn.ru.nl](mailto:ris@ubn.ru.nl)

T: 024-3611878

W: <https://ris.ru.nl>

Research Data  
Archiving  
through CRIS

Radboud University



# RIS Service Desk

Support with [publication](#) and [data management](#)

- Easy-to-approach support
- Including data curation (including preferred formats, anonymity and documentation)
- Including best practices and workshops
- And the development of disciplinary policies (including awareness)

Located at [Radboud University Library](#)

- Library acts a linking pin
- RIS is part of the library of the future
- Library as a steady factor in the RDM-world of temporarily projects
- Benefit-for-researcher approach, instead of compliance approach

## Register your publication

You can use the RIS interface to register your publication.

Link your publications and datasets and make them visible in the [Radboud Repository](#) and on your [personal profile page](#).

- › Step-by-step: registering a publication

## Upload your full text

You can use the RIS interface to upload the full text of your publication to the [Radboud Repository](#).

Your publication will be easy to find through the usual search engines like Google (Scholar).

- › Step-by-step: uploading full text to a publication

## Dataset archiving and registration

Use RIS to make a dataset available via the certified DANS EASY archive.

Choose 'register only' if you've archived a dataset elsewhere.

- › Step-by-step: registering and archiving a dataset
- › Step-by-step: registering a dataset

## DMP tool

You can make a good start on managing your data by writing a data management plan.

Radboud University has developed a tool for writing such a plan, included in the RIS interface.

- › Step-by-step: writing a data management plan

## Policy



## RDM support



## Open access



## Log in to RIS

You can use Surfconext to log in. Use your RU credentials (u-number and password):

SURFCONEXT



# Front Office – Back Office Model RU/RIS-DANS

RiS Service Desk

An important part of the (C)RIS RDM project was the working out of a model between RU/RIS and DANS, the national data hosting organisation, to optimally set up and implement the archiving process, both the automated (technical) and the organisational part.

The latter more specifically meaning: the *definition and division of labour between the local (internal) support unit at Radboud (RIS Service Desk) and the national (external) unit at DANS.*

This model is called: “**Front Office – Back Office**” or “**FoBo**”-model.

Data Archiving and Networked Services

**DANS**

Radboud University



Welcome at DANS: the Netherlands institute for  
 permanent access to digital research resources.

What can we do for you?



#### ARCHIVING

Deposit your datasets in DataverseNL or EASY or send research data for NARCIS.

DEPOSIT



#### REUSE

Find datasets, publications, researchers, projects and institutions via NARCIS and EASY.

SEARCH



#### TRAINING & CONSULTANCY

Let DANS advise you on data management and certification of digital archives.

ADVICE FROM DANS

#### SPOTLIGHT

##### DRYAD and DANS partner for long-term preservation research data



Dryad and DANS announce a new collaboration to ensure long-term preservation and accessibility to curated scientific data. Over 50,000 researchers who have already deposited research data with Dryad can count on continuous open access to their data packages with an extra layer of security and recoverability as a result of this partnership.

#### NEWS

##### DANS online archiving system EASY being awarded CoreTrustSeal

On 28 March 2018, the EASY online archiving system of DANS received CoreTrustSeal (CTS) certification. CTS is an international quality mark for data repositories focussed on sustainability, reliability and accessibility.

>>>

DANS Retweeted



**Robin Rice**  
 @sparrowbarley

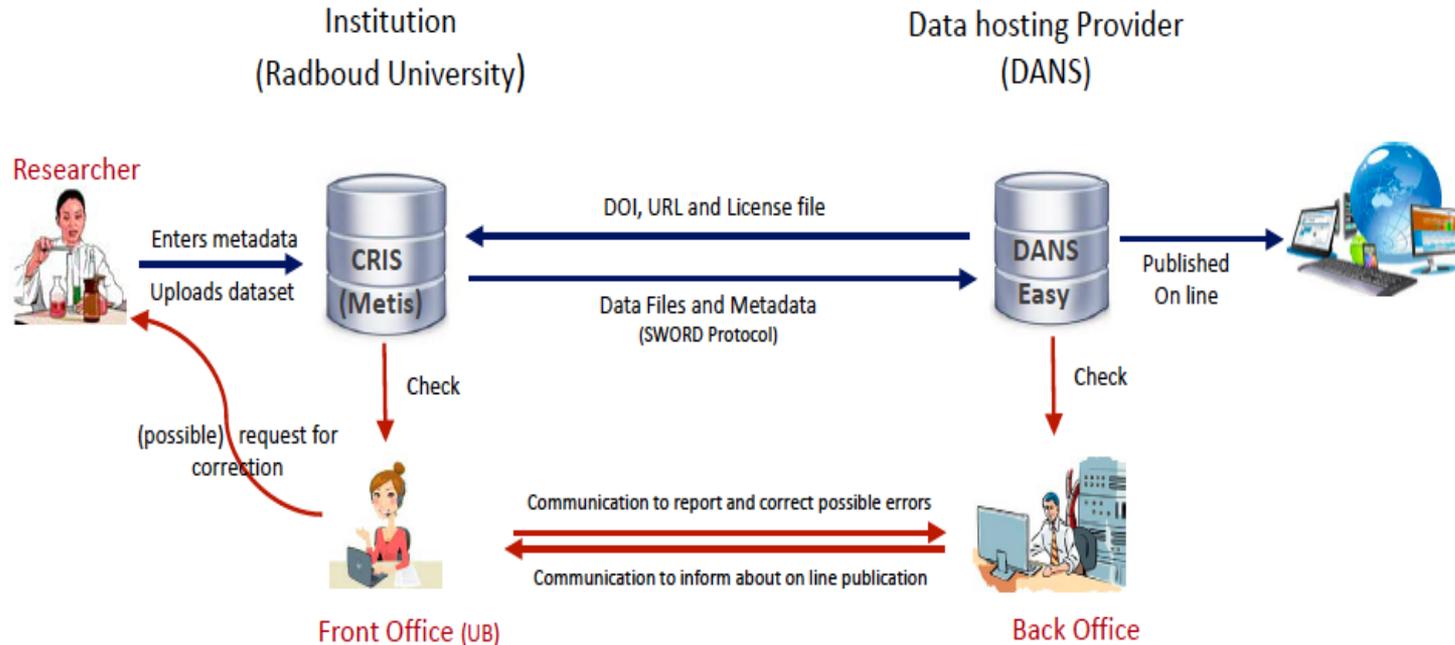
CESSDA data management expert guide, openly licensed, is out now. #iassistcarto



National Dutch  
 Research Data  
 Archive

<https://dans.knaw.nl/>

# Front Office – Back Office Model: visualisation



RiS Service Desk

Data Archiving and Networked Services

**DANS**

Radboud University



2017, the story continues: integrating a  
*Data Management Plan tool* in the CRIS.

# A Step further: DMP functionality

Given the positive reactions to the research data archiving functions in the CRIS, by both the researchers and the RIS Support people, it was – in 2017 - decided to take the “*one stop shop*” concept a step further and also integrate functionality in the CRIS to draft (create) and manage Data Management Plans, (DMP) according to (an in principle unlimited) different formats from various funders. The DMP-tool of the *Data Curation Centre* in Edinburgh served as a welcome example and inspiration for this.





## Result overview

8 results

2017

**Article - Letter To The Editor**

Simons, E., Jetten, M., Messelink, M.C., Berchem, M. van, Schoonbrood, H. & Wittenberg, M. (2017). The Important Role of CRIS's for Registering and Archiving Research Data. The RDS-project at Radboud University (the Netherlands) in Cooperation with Data-archive DANS. *Procedia Computer Science*, 106, 321-328. doi: 10.1016/j.procs.2017.03.031

Schirris, T.J.J., Jansen, J., Simons, E., Mihajlovic, M., Heuvel, L.P.W.J. van den, Masereeuw, R. & Russel, F.G. (2017). Mild intracellular acidification by dexamethasone attenuates mitochondrial dysfunction in a human inflammatory proximal tubule epithelial cell model. *Scientific Reports*, 7 (1), 10623. doi: 10.1038/s41598-017-10483-y

Simons, E., Haas, R. de, Das, D., Garanto, A., Renkema, G.H., Greupink, R., Broek, P.H.H. van den, Pertjjs, J.C., Collin, R.W.J., Willems, P.H., Beyrath, J.D., Heerschap, A., Russel, F.G. & Smeitink, J.A.M. (2017). Therapeutic effects of the mitochondrial ROS-redox modulator KH176 in a mammalian model of Leigh Disease. *Scientific Reports*, 7 (1), 11733. doi: 10.1038/s41598-017-09417-5

2015

**Article - Letter To The Editor**

Lameris, A.L.L., Nevalainen, P.I., Reijnen, D., Simons, E., Eygensteyn, J., Monnens, L.A., Bindels, R.J.M. & Hoenderop, J.G.J. (2015). Segmental transport of Ca(2)(+) and Mg(2)(+) along the gastrointestinal tract. *American Journal of Physiology: Gastrointestinal and Liver Physiology*, 308 (3), G206-16. doi: 10.1152/ajpgi.00093.2014

2011

**Article - Letter To The Editor**

Jetten, M. & Simons, E. (2011). Samen op weg naar verdieping. Christenen en moslims in dialoog. *Handelingen. Tijdschrift voor Praktische Theologie en Religiewetenschap*, 38 (1), 14-20.



# CRIS and Data Management Plans



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- book editorship
- book review
- computer program / software
- contribution weekly / daily journal
- data management plan**
- dataset
- design
- doctoral thesis
- internet article
- journal editorship - referee
- lecture
- other output
- part of book - chapter
- patent
- report
- scientific positions
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- website

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## CRIS and Data Management Plans

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	name	initials	prefix	title	
1 ▾	Simons	E.			🔍 🗑
2 ▾					🔍



## ▼ Description

title ?  🔍

grant provider ?  ▾

year ?

summary ?

▼ Data management plan ?[data management plan tool](#)

# CRIS and Data Management Plans

[overview DMP's](#)

Exoplanet research

version name	format	created by	date created/ last edit	attachments	action
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Create plan

### Create new version

Choose one of the available formats below

Filter

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<a href="#">Format FdL</a>	0.1	FdL	01-01-2017		23-01-2017
<a href="#">NWO DMP format</a>	september 2016	NWO	01-01-2017		30-10-2017

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# CRIS and Data Management Plans

overview DMP's Exoplanet research v1 Exoplanet research ✕

**Title dmp** Exoplanet research  
**Version name** v1 Exoplanet research

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1 - Data Summary

2 - FAIR data

3 - Allocation of resources

4 - Data security

5 - Ethical aspects

6 - Other issues

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Request feedback

# CRIS and Data Management Plans

[overview DMP's](#)[Exoplanet research](#)[v1 Exoplanet research](#) ✕

**Title dmp** Exoplanet research  
**Version name** v1 Exoplanet research

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### 1 - Data Summary

1 What is the purpose of the data collection/generation and its relation to the objectives of the project?

remarks co-authors [feedback RIS servicedesk](#)

2 What types and formats of data will the project generate/collect?

remarks co-authors [feedback RIS servicedesk](#)

3 Will you re-use any existing data and how?

remarks co-authors [feedback RIS servicedesk](#)

4 What is the origin of the data?

remarks co-authors [feedback RIS servicedesk](#)

5 To whom might it be useful ('data utility')?

remarks co-authors [feedback RIS servicedesk](#)

# CRIS and Data Management Plans



## 1 - Data Summary

- 1 What is the purpose of the data collection/generation and its relation to the objectives of the project?

To gather as much as possible optical images from possible planet transitions at stars in the Southern hemisphere.

remarks co-authors

[feedback RIS servicedesk](#)

- 2 What types and formats of data will the project generate/collect?

jpg, gif, png.

remarks co-authors

[feedback RIS servicedesk](#)

Hi Ed, you forgot to include the .tif format.

- 3 Will you re-use any existing data and how?

Previous obtained planet data will be used for comparison and determination of the type of planets observed in the project.

remarks co-authors

[feedback RIS servicedesk](#)

- 4 What is the origin of the data?

Maxwell Telescope

remarks co-authors

[feedback RIS servicedesk](#)

- 5 To whom might it be useful ('data utility')?

The whole astronomical community

remarks co-authors

[feedback RIS servicedesk](#)

- 5 What is the expected size of the data?

remarks co-authors

[feedback RIS servicedesk](#)

# CRIS and Data Management Plans

[overview DMP's](#) [Exoplanet research](#) [v1 Exoplanet research](#) ✕

**Title dmp** Exoplanet research  
**Version name** v1 Exoplanet research

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1 - Data Summary

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5 - Ethical aspects

6 - Other issues

[Save](#) [Save as...](#)

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# CRIS and Data Management Plans

[overview DMP's](#) [Exoplanet research](#) [v1 Exoplanet research](#) ✕**Title dmp** Exoplanet research  
**Version name** v1 Exoplanet research[Save](#)[Save as...](#)[Request feedback](#)[1 - Data Summary](#)[2 - FAIR data](#)[3 - Allocation of resources](#)[4 - Data security](#)

1 What provisions are in place for data security (including data recovery as well as secure storage and transfer of sensitive data)?

[remarks co-authors](#)[feedback RIS servicedesk](#)

2 Is the data safely stored in certified repositories for long term preservation and curation?

[remarks co-authors](#)[feedback RIS servicedesk](#)[5 - Ethical aspects](#)[6 - Other issues](#)

# CRIS and Data Management Plans



[overview DMP's](#)

Exoplanet research

version name	format	created by	date created/ last edit	attachments	action
v1 Exoplanet research	Horizon 2020	Dr. Eduard Simons	31-05-2018 17:55:37	0	Action: ▾

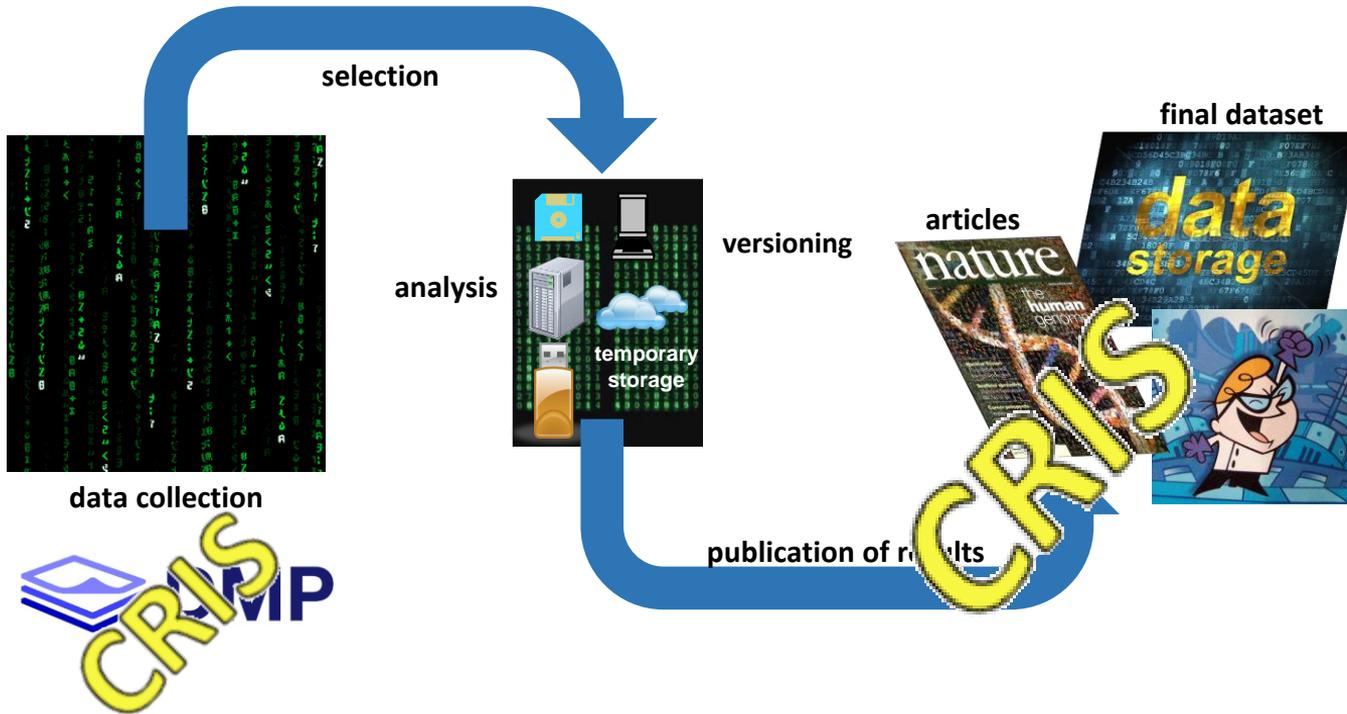
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# CRIS and Data Management Plans

# Conclusions: CRIS in the Research Data Life Cycle

CRIS & RDM



# Conclusions

Research activities



Research information activities



“My World”

Researcher:  
the key player

Thank you very much for your attention!

Questions?