# Research data management at the Flemish universities: state-of-affairs

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VLIR WG Research Data Management & Open Science





### and ultimately Open Science



#### Research data management, an essential step towards Open Data

RDM Survey:

State of affairs in Flanders, depict RDM needs & requirements

Onderzoeksmanagement aan de Vlaamse Universiteiten, TH&MA (3), 47-51, 2017 Collaboration on practical issues:

DMPonline.be

DMP templates

Joint Policy statements:

Research data management en de Vlaamse Universiteiten: White paper, VLIR-WG RDM & Open Science

RMD @ the Flemish universities: State of affairs

#### Questions

Consistent with foreign surveys so that benchmarking is possible

Survey set-up

Two tier system:

Survey to principal investigators (n=224)

Survey to researchers (n=425)

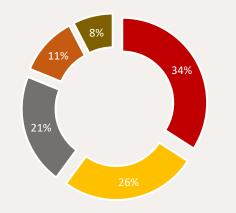
#### 5 dimensions:

- Data formats
- Archiving, storage
- Ethical & Legal
- Infrastructure & Services
- Collaboration and Reuse

Policies

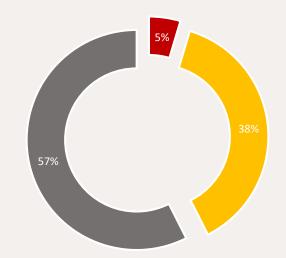
# AD HOC RATHER THAN ORGANISED

#### DO YOU MAKE A DATA MANAGEMENT PLAN BEFORE THE START OF A PROJECT?



Never Hardly ever Mostly Yes, always Yes, when requested

#### DATA MANAGEMENT POLICY

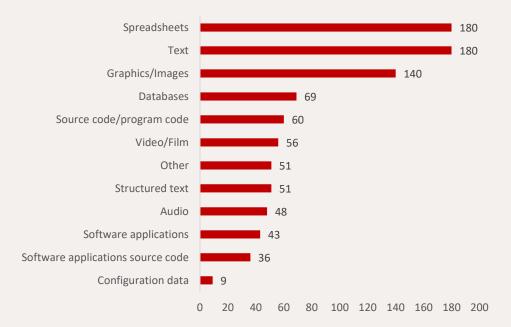


■ Formal ■ Informal ■ Non



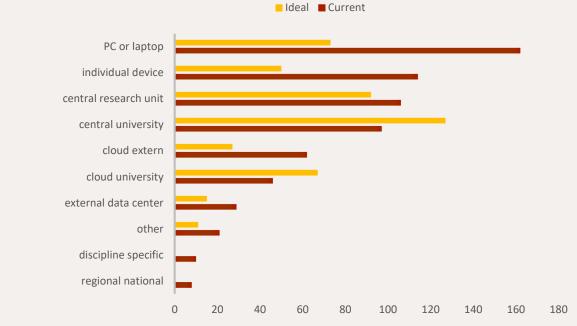
#### FORMATS

#### DIVERSITY IN DATA TYPES AND STORAGE DEVICES



#### FORMATS

#### **STORAGE DEVICE**



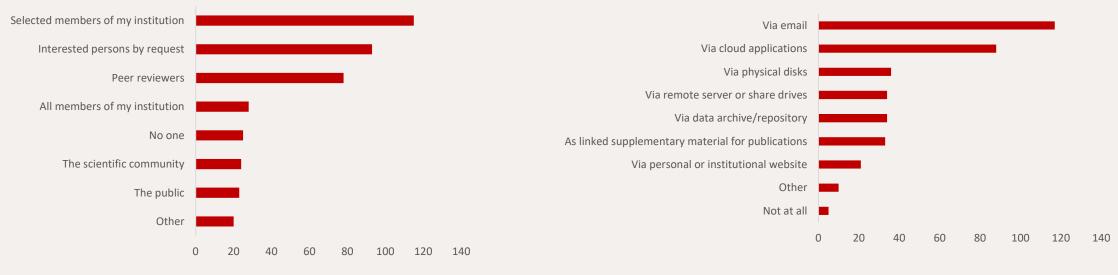


#### Access

#### MORE BASED ON "NEED TO" THAN ON "WANT TO"

#### DATA ACCESSIBILITY: TO WHOM

#### DATA ACCESSIBILITY: MEDIUM

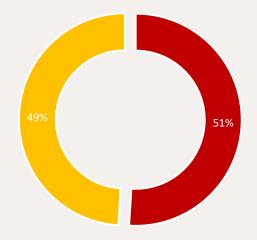




# Opinions concerning openness DIVIDED BUT HOPEFUL

 What is your opinion on storing (a selection of) the research data of your unit in an open access data repository so that they can be reused by other researchers?

#### **OPEN ACCESS DATA**



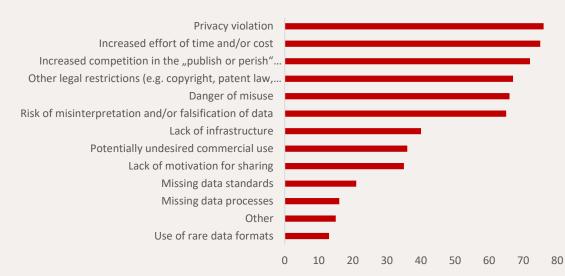
Preferred Not preferred



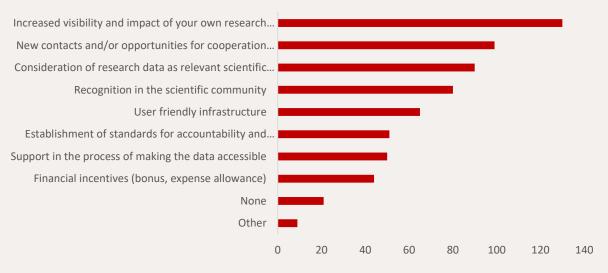
#### Sharing

#### ADVANTAGES ARE RECOGNISED BUT LEGAL ISSUES AND LACK OF TIME

# WHAT KEEPS YOU FROM SHARING DATA?



#### **OPEN DATA SHARING INCENTIVES**





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# Data management plan

# DMPONLINE.BE

- Software intially developed by Digital Curation Centre (DCC)
- Shared tool for DMP Belgium Institutions, coordinated by UGent
  - 7 founding members, 5 new members in 2018
  - Hosted on BELNET servers

ONLINE .BE	
	Home About Help
Signed out successfully.	
A. / 1	
Velcome.	Sign in
his instance of DMPonline is provided by the DMPbelgium	0
Consortium to help you write data management plans.	state state in territorial and an end
	with your institutional account
he consortium was founded in 2017 by:	Sign in with UGent
nstituut voor Natuur- en Bosonderzoek	Sign in with ULB
niversité Libre de Bruxelles niversiteit Antwerpen	Sign in with UAntwerp
niversiteit Gent niversiteit Hasselt	Sign in with UHasselt
rije Universiteit Brussel	Sign in with VUB
/etenschappelijk Instituut Volksgezondheid – Institut Scientifique de Santé ublique	Sign in with WIV-ISP
	or
	Sign in with ORCID

Sign in with loc:



# Data management plan

FWO DMP View all templates	
Template details App	Dication DMP Full DMP
Phase details	
Title	Full DMP
Order of display	2
Description	Supervisors of fundamental and strategic basic research projects (from the application round 2018) and PhD/postdoctoral fellows (from the application round 2020) are expected to:
	<ul> <li>submit a full DMP no later than 6 months after the start of the research project or the PhD/postdoctoral fellowship</li> <li>append a final DMP, which may have been updated since the first version of the full DMP, to the final report on the completed research</li> </ul>
	Researchers writing a full DMP for the FWO (both the 6-month and the final DMP) can use this "Full DMP" template.
	For more information, see the <u>FWO DMP webpage</u> .
Version details	
Title	Full DMP version 1
Published	true
Created at	05-03-2018
Last updated	05-03-2018
1. General Information	+
2. Data description	
3. Ethical and legal issues	+
4. Documentation and metadata	



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Massive change of the way research works

Is it Utopia or can RDM be facilitated?



Research Data Management

RECOMMENDATIONS

# 1. INVEST IN INFRASTRUCTURE

- 1. Data = intellectual capital
- 2. EOSC is great, if your data repository is interoperable with this service
- 3. Data services: 1.000.000 £ set up, 500.000 £ recurrent cost

Q: What data repositories?

Q: Joint supported initiative (DANS) or multiply costs for all research institutions (i.e. 5X Flem. universities,...)

# 2. INVEST IN EDUCATION

1. RDM skills are lacking: 100.000 data stewards, researchers, ...

Q: If nobody has the skils, how can we make RDM work in a qualitative manner?



#### Research Data Management

# RECOMMENDATIONS

### 3. PROVIDE CLEAR & UNIFORM LEGISLATION

- 1. GDPR  $\rightarrow$  Belgian law
- 2. EU Copyright & TDM reforms

Q: Don't make it complicated for researchers to do research Q: Provide support

# 4. PROVIDE INCENTIVES FOR OPEN SCIENCE

- 1. There's more to (academic) life then publications, IF-factors,... Data = intellectual capital
- 2. Open data is better than sharing data, sharing data is better than dead data

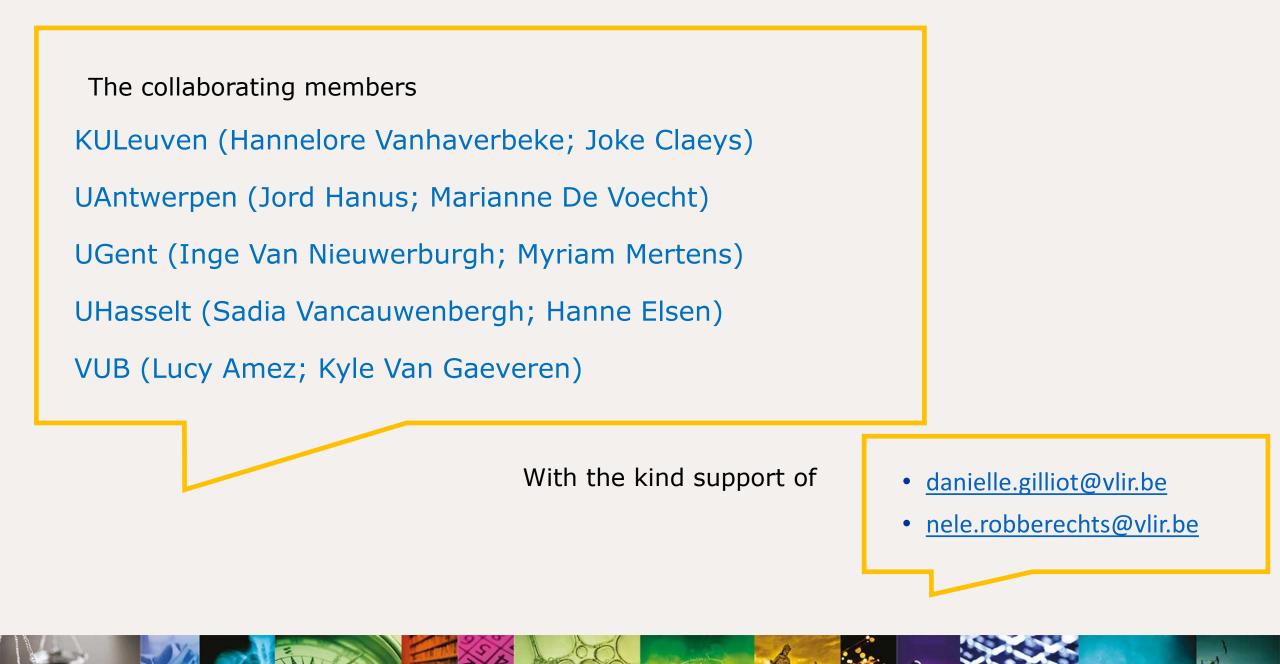
Q: Provide incentives, re-think evaluation models for research(ers)



#### RESEARCH DATA MANAGEMENT

#### INFRASTRUCTURE – EDUCATION – LEGISLATION - INCENTIVES





20-6-2018 118