e-Infrastructures Austria

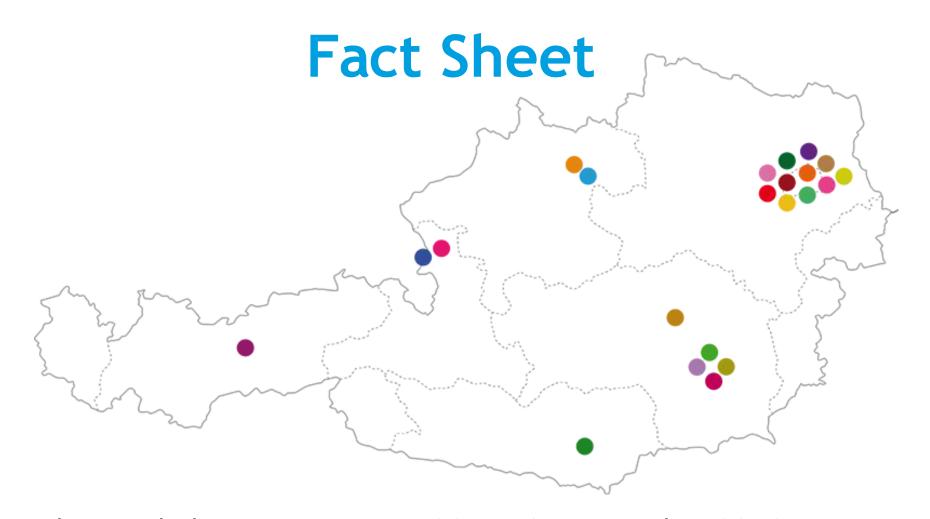
What is really needed?

Towards Open Science and Research Data Management Results of a National Survey in Austria

Paolo Budroni - Rome, 30-31 May 2016

e-infrastructures austria





Project period: 1 January 2014 - 31 December 2016

Project coordinator: University of Vienna

Project partners: 26 Partner Institutions

Supported by: Federal Ministry of Science, Research

and Economics

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- The landscape of digital resources is heterogenous
- The local situation (disciplines, infrastructure, policies, attitudes) is governed by "local traditions"
- Research data (multimedia, learnig objects) is exposed to structural changes through technological transformations (e.g. mobile devices) and by the appearance of new stakeholders (new generations of researchers) and new methods (e.g. revolution throughtructures institutional blogs or social modia), requiring powers.

Scope of the project

Subproject A

Construction of document repositories and publication services

Support project partners with the implementation of document based repositories ("Orphan Records Repository")

Documents, Pictures (formats: mainly PDF, JPG)

Subproject B

Design infrastructure environments for other types of digital objects (research data, e-Learning and multimedia content)

Development of additional services for Subproject A

Phase 1: Models and workflows for research data

Phase 2: Design and begin the construction of one or more repositories

Phase 3: Multimedia and Streaming Services

Docking to publication services

Subproject C

Construction of a knowledge network for e-Infrastructures Austria

Multidisciplinary collaboration by way of Work Packages involving as many stakeholders as possible (scientists, editors)

Definition of metadata, interoperability

Preparation for Horizon 2020 Time

1

2

3

4

Common goals: increased visibility, standardized repository environments, harmonization of policies and, where appropriate, joint visualization and presentation Portal



WORK PACKAGes - 12 fields of action

- Cluster A Monitoring and Assessment of Document Repositories within the Partner Network
- Cluster B Planning and Implementation of a "National Survey" for Research Data
- Cluster C Designing a Knowledge Network: Development of a reference structure for the construction of Repositories
- Cluster D Infrastructure
- Cluster E Legal and Ethical Issues
- Cluster F Open Access
- Cluster G Visual Data modeling
- Cluster H Life Cycle Management
- Cluster I Metadata
- Cluster J Permanent backup of the data
- Cluster K Data from scientific and artistic-scientific research processes
- Cluster L Cross-project issues (technical and non-technical)

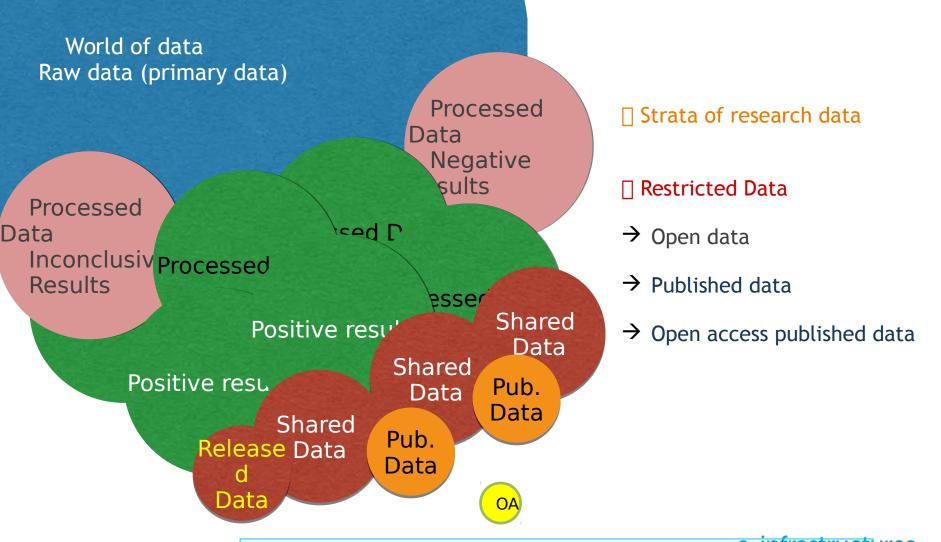


WHO IS E-INFRASTRUCTURES AUSTRIA FOR?

- All Austrian universities
- Austrian non-university research institutions
- Austrian Research Communities
- Research-funding bodies
- The interested public

National Research Data Survey 2015

Different levels of processing of data Model for digital archiving



Ensuring legal and ethical compliance is key is sue in this context

Towards Open Science - Challenges



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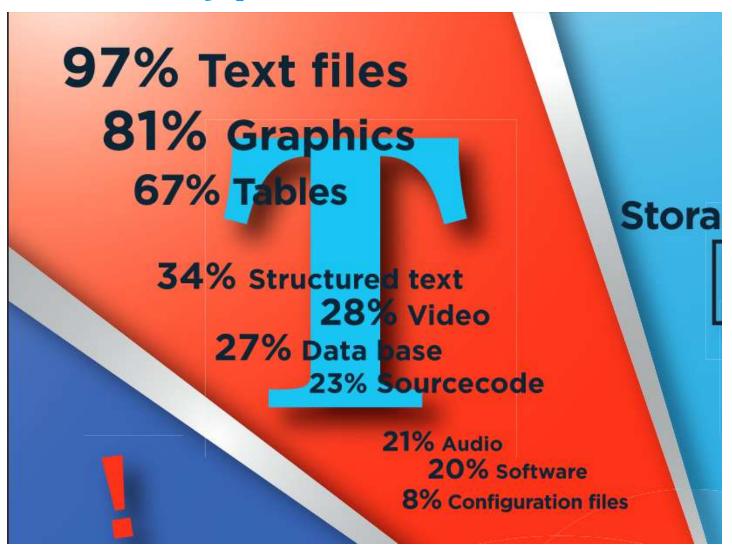
# A new ecosystem of services



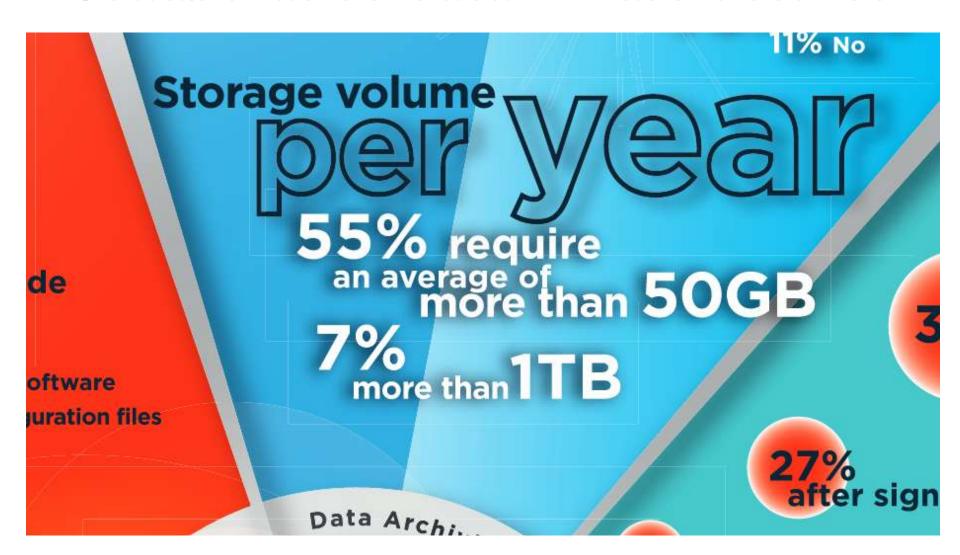
# A common strategic vision



# Data types and formats



### Collaborative data infrastructures



## Re-design of re-use scenarios



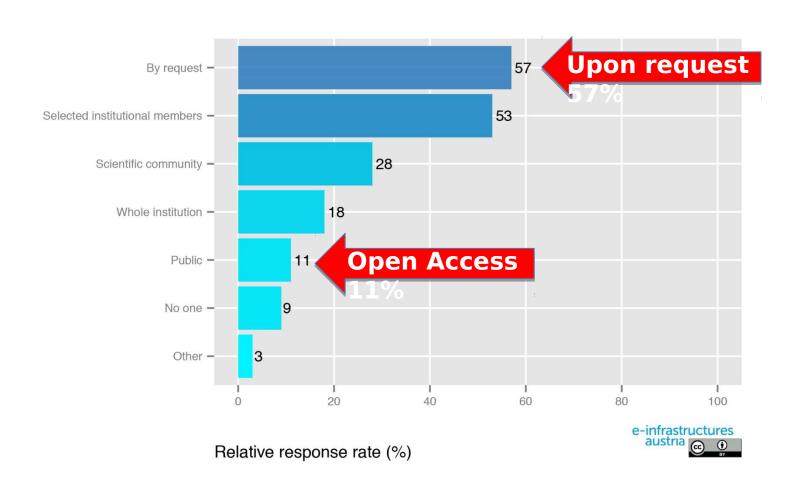
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## Towards an open science ecosystem



# Identification of target groups

#### Whom do you grant access to your research data?



Re-thinking of scientific workflows

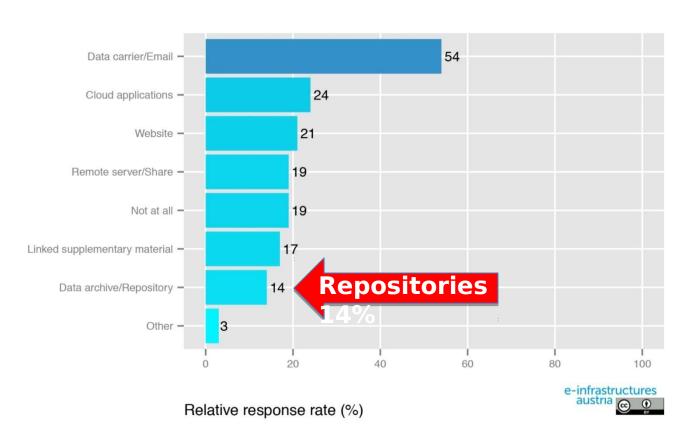


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# Coordination between various components

#### e-infrastructure

#### How can others access your research data?



## **Enhancing sustainability**

essing

What happens when you leave your institution?

43% Data remain at institution

36% Data are taken

5% Data are deleted

## A common e-infrastructure umbrella



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## Conclusions

- Results conform with international reviews
- Challenges for enabling Open Science Vision
- Embedding in transnational e-infrastructures initiatives
- Need of know-how transfer of e-infrastructure essentials (project seminar: <a href="http://e-seminar.univie.ac.at">http://e-seminar.univie.ac.at</a>
   ()
- Release of RDM policies
- Reference points at local level
- Shared "vertical" services
- Transversal services

## **Downloads**

#### **Download full report:**

Zenodo:

**DOI 10.5281/zenodo.34005** 

Phaidra (e-book format):

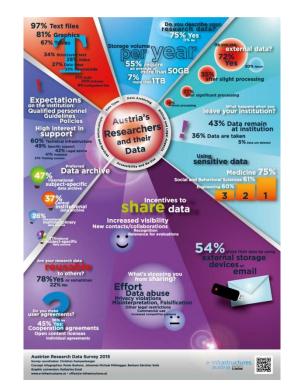
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Researchers and Their Data
Results of an Austrian Survey
Report 2015

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# Thank you

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