

HPO NAVI

Sustainable Infrastructures for
Archiving and Publishing
High-Performance Optimization Software

hasler@zib.de

Outline (fear not it'll be brief)

- 1) Short excursion into Research Data Management
- 2) Status of the HPO NAVI project
- 3) Research software as product of science

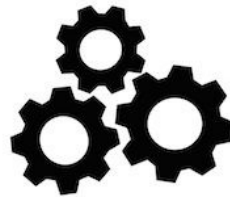
F
indable



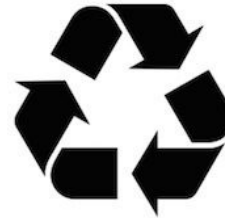
A
ccessible



I
nteroperable

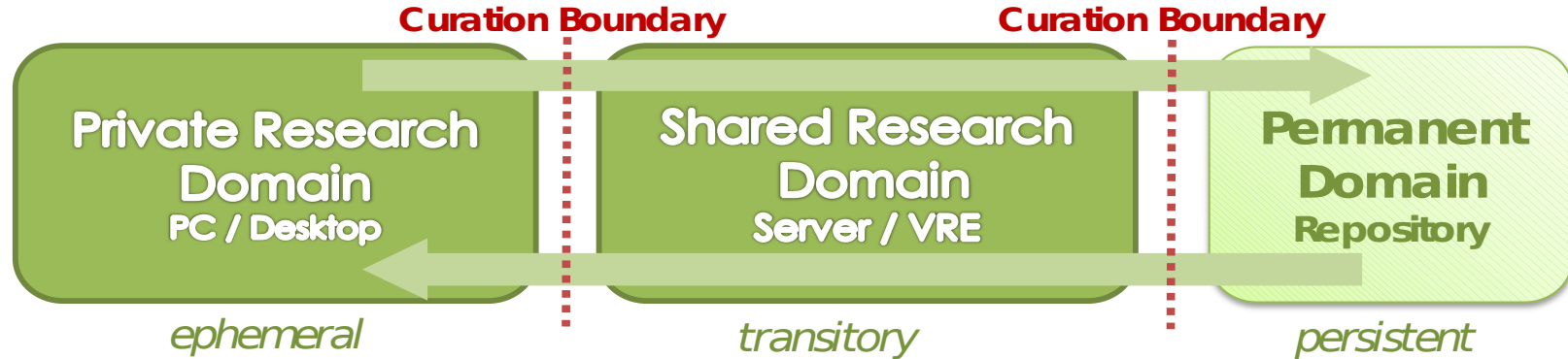


R
eusable



FAIR Principles
©panosc

Data Domain Model



Data flow and curation boundaries in the Research Data Domain Model (following Treloar 2008).

Data Management Plans help crossing the borders.

Why develop a software management plan?

- Better understanding of roles and responsibilities in the project
- Better continuity if members of your team change
- Makes it easier for others to make use of and reuse your software
- Others will find it easier to cite your software
- Software related to publications can be preserved/archived for future validation and repeatability/reproducibility of the research
- Your work is more visible and has a potentially greater impact



Jenkins



Fedora™



archivematica®





Developed a new publish form for software in OPUS repositiorium

FILE SIZE

❓ Please enter the filesize.

Filesize

File size for potentially big packages.

DOWNLOAD URL

❓ 30 MB of data can be stored in OPUS. 30 MB of data can be stored in OPUS. Larger files must be stored on other data servers. Please specify the download URL.

Download Uri

URL because software might not be stored in OPUS itself.

TYPE OF SOFTWARE

❓ Type or subcategory of the software: e.g. Python Skript, Java 8.

Typ of Software

Language has a quite different meaning in programming than in speech.

SOFTWARE LICENCE

❓ Please enter the link to the license of the software.

Software Licence

Creative commons not really suitable for software.

PUBLICATION: DATE

❓ Please enter the date of the documents first publishing (or release date) in the format YYYY/MM/DD.

Date of first Publication*

AUTHOR(S)

❓ Please enter the contact information of the authors. You may add more authors by clicking on the button (or delete them).



Research Software Engineers International

Research Software Engineers

This is the website of the international research software engineering community.

Research Software Engineers are people who combine professional software expertise with an understanding of research. They go by various job titles but the term Research Software Engineer (RSE) is fast gaining international recognition.

14th October 2021 is *International RSE Day!*

[Read more ...](#)

Associations


Links to National RSE associations

 Society of Research Software Engineering - UK

 DE-RSE - Society for Research Software in Germany

 NL-RSE - The community of Research Software Engineers in the Netherlands

 NORDIC-RSE - Nordic Research Software Engineers Community

 US-RSE - The US Research Software Engineer Association

BE-RSE - Belgium Research Software Engineers community

RSE-AUNZ - The RSE Association of Australia and New Zealand

National RSE Associations under construction...

Contact us to get your association listed here!

Starting a National RSE association

If you are thinking about starting something in your country or region, there is a blog post on [How to set up a national RSE association](#) on this site.

You could discuss with the people who have done this elsewhere and try to find others who can get involved by joining the [RSE Slack](#) ([request access here](#)). There is an #international channel that would be a good place to start...

Some hopefully useful links:

Edinburgh Parallel Computing Centre

<https://www.epcc.ed.ac.uk/research/software/software-sustainability>

Software Sustainability Institute

<https://www.software.ac.uk/>

Research Software Engineers

<https://researchsoftware.org/>

