A FAIR Software Route: The Dutch Way

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Outline

- Introductions
- FAIR Software Route Project
- FAIR Software?
- The way forward
- Conclusions
Aim of this joint project:

“To design a common route along which researchers in the Netherlands are informed on how to deal with software and code developed during research projects, or delivered after research projects, in order to guarantee persistent storage, optimal access and re-usability and proper citation”

(Joint brainstorm meeting DANS & NLeSC, 13-6-2018)
Final product:

- Online **platform / website** that guides researchers and developers towards the FAIRification of their software and code.


- Must have’s:
  - guidance on **metadata**
  - getting the right **persistent identifiers**
  - finding the right **repository**
This project is part of a larger endeavour.....
• Findable
• Accessible
• Interoperable
• Reusable
FAIR software objective

2019

2029
FAIR software objective
Nice!

But... how exactly am I supposed to do that?
The core Modules of the project.....

- **Inventory / landscaping**: metadata for software and code, existing **projects**, initiatives, **platforms**, **guidelines** and **repositories**.
- Developing software repository **guide** (interlinked decision tree?)
  Important element: Use cases / input “panels” from different disciplines.
- **Indexing** and **presentation** in NARCIS (and other catalogues).
- **Communication** (external).
- **Coordination**.

And obviously: Integration with **ResearchSoftware.nl**
A complex landscape
Software Route

Zenodo/Software Heritage (?)

Registry
   (Discipline Flavour)

GitHub.com (?)

SOFTWARE PRESERVATION & SUSTAINABILITY
FAIR Software Route

- FAIR Principles for software
- Different levels of FAIR compliance for different types of software (similar to curation levels for datasets)
- Initial (minimum) focus on Findability and Accessibility
- Provide recommendations for good (FAIR) coding practices
- Centralized versus decentralized route:
  - Distributed chain of responsibilities
  - Single point of failures
First results:

Software from the DUTCH Research Software Directory (RSD) indexed by NARCIS the Dutch National Scholarly information portal:

Improved metadata + findability
Step-by-step approach is required:

- Building community efforts: Researchers / Software developers / Repositories
- Incentives (internal & external)
- Skills (training)
Sustainable Software Sustainability focuses on long term supported solutions for Software Sustainability. It addresses two forms of sustainability:

- How to cope with the existing legacy software
- How to prevent new legacy to be created today

WOSSS19 will be an interactive workshop introducing topics by leaders in the field followed by discussions amongst leaders and practitioners regarding software sustainability.

Are you interested in software sustainability? Then this is the workshop for you to attend!

**APRIL 24-26 2019**


**Location:**
NWO Den Haag
Laan van Nieuw Oost-Indie 300
2593 CE The Hague

**Cost:** Free (registration required)

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Thank you!

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• RSD => OAI-PMH service
• DataCite Metadata Schema 4.0
• Start with ca. 80 software “datasets”
• In NARCIS linking papers - datasets - software - researchers
• Metadata discipline is an issue...
• further developments on their way