23 Things revisited: Field guides to research data management, an adoption project

Mijke Jetten & Cees Hof
Representing the 23 Things task group of the (Dutch) National Coordination Point Research Data Management (LCRDM)
mijke.jetten@dtls.nl, cees.hof@dans.knaw.nl

Webinar RDA Sweden node
September 30, 2020

23 Things project & tool: https://www.lcrdm.nl/23things
1. Introduction of speakers & our role in the project
   Poll: let’s get to know each other

1. Summary of the project
   Poll: let’s get ready for the tool

1. Showcase: 23 Things tool

1. The swedish case: how you may contribute, as a potential future adopter

23 Things project & tool: https://www.lcrdm.nl/23things
Poll: let’s get to know each other

What is your background?
- Researcher
- Student
- Librarian
- Data steward
- IT staff
- Research software engineer
- Policy maker
- Other

What is your interest in this webinar?
- Find out about the Dutch 23 Things project
- I’ve heard about a nice 23 Things tool
- Both of them, the project and the tool
- Something else

23 Things project & tool: https://www.lcrdm.nl/23things
23 Things ... the beginning

23 Things

From Wikipedia, the free encyclopedia

23 Things, originally called Learning 2.0, is an education and learning project created by Helene Blowers in August 2006.[1][2][3] Blowers, who was then employed as the technology director for the Charlotte Mecklenburg Library,[4] created the project as a way to encourage librarians to learn and adapt to Web 2.0 and other new technologies.[5][6][7] The program was loosely based on an article by Stephen Abram, "43 Things I (or You) might want to do this year".[4]

23 Learning 2.0 Things*
(Note: Details about each task will be activated every week with posts related to each item)

1. Read this blog & find out about the program.
2. Discover a few pointers from lifelong learners and learn how to nurture your own learning process.
3. Set up your own blog & add your first post.
4. Register your blog on PLCMC Central and begin your Learning 2.0 journey.
5. Explore Flickr and learn about this popular image hosting site.
6. Have some Flickr fun and discover some Flickr mashups & 3rd party sites.
7. Create a blog post about anything technology related that interests you this week.

https://plcmcl2-about.blogspot.com

23 Things project & tool: https://www.lcrdm.nl/23things
23 Things project & tool: https://www.lcrdm.nl/23things

Libraries for Research Data IG

Status: Recognised & Endorsed
Chair(s): Birgit Schmidt, Andi Ogier, Marta Teperek, Christopher Erdmann

TAB Liaison: Devika Madalli

23 Things: Libraries for Research Data (Supporting Output)

By Stefanie Kethers

23 Things: Libraries for Research Data provides an overview of practical, free, online resources and tools that you can begin using today to incorporate research data management into your practice of librarianship from the Libraries for Research Data Interest Group of the Research Data Alliance.

DOI: DOI (English)
Output Status: RDA Supporting Outputs
Primary WG Focus / Output focus: Data Management
Domain Agnostic: Domain Agnostic

<table>
<thead>
<tr>
<th>Attachment</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Card RDA_single_1_23Thing.pdf</td>
<td>988.96 KB</td>
</tr>
</tbody>
</table>

- Add new comment
- 11254 reads


Learning Resources
Librarians are learning how to apply the principles of library science to solve problems and to provide new services related to research data.

1. A “top ten” list of recommendations for libraries to get started with research data management from LIBER, http://bit.ly/RDAthings1
3. Understanding the life of research data with the DCC Curation Lifecycle Model,

Data Reference & Outreach
Librarians are answering questions about data from patrons and conducting outreach to assess the data needs of their researchers and


Data Management Plans
Librarians are becoming familiar with funder requirements and consulting with researchers to help them write and implement effective data management plans.

11. One example is the DMPTool that lists funder requirements in the United States and builds a plan by asking the researcher to answer a series of questions. Other countries such as the U.K. and Canada have similar tools, http://bit.ly/RDAthing11
Adopting the 23 Things by the Dutch community

What?
Creating versions of the 23 Things for different audiences, by the Dutch community

Why?
23 Things as a shared reference tool for knowledge on RDM. Improving national cooperation, and a common understanding of RDM among diverse practitioners and supporters

How?
Via an RDA adoption grant, in which an Dutch LCRDM task group generated four deliverables, between June ‘19 and September ‘20

What others can learn from it?
- We believe that our audience-specific versions of the 23 Things are relevant to the international community
- Although the 23 Things are created by the Dutch community, most of the resources aren’t typical Dutch, as the Dutch community relies on the many useful international resources out there
- Furthermore, our processes of creating specific 23 Things versions may inspire other communities to create their own Things

23 Things project & tool: https://www.lcrdm.nl/23things
Creating a Dutch nationwide commitment

The project’s implementation plan is shared in the LCRDM pool of experts and other Dutch stakeholder groups on data management.

Deliverable:
doi.org/10.5281/zenodo.3337870

- The LCRDM (https://www.lcrdm.nl) is a network organisation that connects over 200 data management experts from more than 60 organisations in the Netherlands.

- A task group was set up to coordinate the nationwide adoption of the 23 Things, for which it specifically sought commitment and involvement from the Dutch RDM community.
The process ...

Adjusting the 23 Things

We started creating local versions of the 23 Things for the Dutch community. Via joint sprint sessions, the original resource is being updated and adapted to the Dutch community, and different audiences.

Deliverable:
doi.org/10.5281/zenodo.3465895

Audience-specific versions

Join the community effort in creating an overview of RDM resources. Help us finalize audience-specific versions of the 23 Things for researchers & PhD candidates, Bachelor & Master students, data & subject librarians, data stewards, IT support staff & IT specialists, research software engineers, and policy makers.

The text was updated to include recent RDM developments, such as the FAIR principles, Open Science and the GDPR

Links and references were changed to (also) reflect Dutch or European initiatives and resources

Various versions of the 23 Things were produced, aimed at different target audiences in the field of RDM

Sprints were organised to get input on a generic updated version. Target groups were invited to help draft audience-specific versions

https://doi.org/10.5281/zenodo.3465895
https://doi.org/10.5281/zenodo.3773663
Getting the 23 Things adopted

3 The process...

Phase

Particularly in training, the 23 Things are expected to be useful, as it may help creating a consensus on the content of RDM courses in the Netherlands. One way of doing this is by developing an online tool for browsing the various audience-versions of the 23 Things.

Deliverable:
Recommendations for use of the 23 Things

https://www.lcrdm.nl/23things

- The 23 Things versions were integrated into an online tool, to enhance mutual understanding, improve collaboration and help develop training on RDM

- LCRDM will play an important role in the further dissemination and maintenance of the online tool

- All project documents and results are (about to be) published to help adopt the 23 Things in other (national) communities as well
Phase 4: Dissemination of experiences and final versions

The project will be promoted via blogs, webinars, conferences and an article in an international data journal. All materials and outputs (including sharing our experiences to allow others to follow in our footsteps) will be published on Zenodo.

Deliverable:
Sustainability plan
Community

- The RDA adoption project was highly relevant to the Dutch community
- There is still work to do to implement the 23 Things tool into the daily practices of data experts and training coordinators
- However, conceiving this project as a community effort was motivating and we managed to get relevant stakeholders on board
- Creating commitment at the national level was relatively easy due to the existence of a National Coordination Point Research Data Management
- For the LCRDM as a national coordinator, the project proved to be a good (first) opportunity to liaise with a global organisation such as the RDA, while at the same time strengthening the Dutch community. Conversely, the adoption of an RDA output has generated exposure for the RDA in the Netherlands

Lessons learned

23 Things project & tool: https://www.lcrdm.nl/23things
Tool

- Via an interactive, online tool with over 250 Things, we have created practical output that can easily be included in services of data experts.
- The project outcomes directly serve different audiences, from policy makers to researchers, and from students to IT people, even emerging professionals such as data stewards and research software engineers.
- The tool facilitates an international community as well, stimulating them to provide feedback and add their own Things to the tool.
- As an RDA community, we may also explore how other communities can adopt the tool, for instance by sharing the code and recognising the tool as an RDA outcome.
- New audiences and themes - even disciplines - could be added, and Things could be translated into different languages, thus serving the needs of the local RDM communities.
- We call out to international projects and the RDA to create global exposure and explore its potential.

23 Things project & tool: https://www.lcrdm.nl/23things
The sprint method has proven its use in previous projects. At first, it was challenging to convince people to sign up for the sessions. In the end, the participants showed a great commitment and the sprint sessions allowed us to dive deeper into the content.

The sessions were stimulating, cooperative and inspiring.

The idea of a tool was raised during the sessions, and it was embraced with such enthusiasm that it couldn’t be ignored, despite the extra time investment.

Requesting input from the international community via a digital work-in-progress document was beneficial to the process as well, and easy to achieve via international mailing lists. It generated a lot of input and feedback to the draft version of the 23 Things.

We have realised significant progress via this combined Dutch and international community effort.
Initiatives

- The 23 Things project has turned out to be a source of inspiration for other initiatives as well

- The sprint sessions have facilitated the interaction among different people from many institutions over the Netherlands. An example is the recently started Dutch Network for Training on Research Data & Coding, which aims to coordinate efforts in the development and facilitation of research data, software and coding training activities, including a pool of trainers

- The 23 Things project was presented at various conferences, which resulted in (plans for) co-branded workshops with other RDA nodes (among others Lithuania and Sweden)
Assuming you want to use the outcomes of the Dutch 23 Thing project for your own purposes, what would be beneficial for you?

- I just want to learn from your experiences, please provide documentation on the proces
- Ready to use training modules please
- Direct access to the “Things” and resources you collected
- A properly working, self-explanatory online tool for teaching and training
Digital sheets for training purposes

- Things for researchers & PhD candidates
- Things for Bachelor & Master students
- Things for data & subject librarians
- Things for data stewards
- Things for IT support staff & IT specialists
- Things for research software engineers
- Things for policy makers

https://doi.org/10.5281/zenodo.3773663
The output...... Interactive site & underlying database!

Filter by:

Audience (7 options)
Theme (16 options)
Type (12 options)
Data life cycle (6 options)

https://23things.sites.uu.nl (beta)
A user story....

Boris:

1) Is a postdoctoral researcher at the TU Delft
2) Has shared his code with one of his PhD students
3) She asked him how she should cite his code/software in her thesis?
Boris selects his audience...
Boris selects his theme...
Boris gets two possible solutions...
Boris gets where he wants to be...

FAIR Software Route
https://fair-software.eu
Boris gets where he wants to be...

Force11 Slide Deck on citation
https://www.force11.org

Placement of Citations

Intra-work:
- Should provide sufficient information to identify cited data reference within included reference list.
- Citation to data should be in close proximity to claims relying on data. [Principle 3]
- May include additional information identifying specific portion of data related supporting that claim. [Principle 7]

Example: The plots shown in Figure X show the distribution of selected measures from the main data [Author(s), Year, portion or subset used].

Full Citation:
Citation may vary in style, but should be included in the full reference list along with citations to other types works.

Example:
References Section
Author(s), Year, Article Title, Journal, Publisher, DOI.
Author(s), Year, Dataset Title, Data Repository or Archive, Version, Global Persistent Identifier.
Author(s), Year, Book Title, Publisher, ISBN.
Design your own learning path!

Resources for reviewing and assessing DMPs
Review and/or assess the data management plans written by your researchers

Data Management Plans

Resources for reviewing and assessing DMPs
Review and/or assess the data management plans written by your researchers

Data Management Plans

Resources for reviewing and assessing DMPs
Review and/or assess the data management plans written by your researchers

Data Management Plans

Resources for reviewing and assessing DMPs
Review and/or assess the data management plans written by your researchers

Data Management Plans

23 Things project & tool: https://www.lcrdm.nl/23things
Design your own learning path!

- Purdue University Libraries
- Data Management Plan
- Self-Assessment Questionnaire
- NWO DMP assessment rubric
- Guidance for Review of Data Management Plans
- Practical Guide to the International Alignment of Research Data Management

23 Things project & tool: https://www.lcrdm.nl/23things
How to avoid that:

- The tool becomes obsolete
- The content becomes outdated
- The output of the project will not be used for teaching and training
- The supporting community disappears
- The info will not be recycled
Looking into the future……

Crucial to:

- Develop and implement our communication and dissemination plan
  - Blogs, papers, social media, presentations
- Promote as a teaching and training tool
  - Offer ready to use training packages/modules
- Expand the involved community, create a sense of ownership amongst the data stewards and librarians feeding the tool
- Get our sustainability act together....
Looking into the future......

Our Maintenance Plan for 23 Things:

- Establishment of an Editorial Board
  - Representatives (organisations, disciplines) RDM community
  - Responsible for process of updating
  - Responsible for content updating

- Agreements on hosting and maintenance of the tool
  - SLA
  - Ownership issues

- Training plan
  - Accessibility and sharing of our “Knowledge Base”....
23 Things Revisited: Field guides to research data management, an adoption project

Remarks, suggestions, additions?
Want to add your own Things to the tool?
Please mail: info@lcrdm.nl

TIME FOR QUESTIONS!