

Landscape of Capacity Building for FAIR Data Stewards



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The Plan

- Capacity Building Overview - Nancy
- Efforts to professionalize data stewards including FAIR data stewards – Débora
- Precis of existing training / educational resources on FAIR data stewardship & efforts to develop skills / competencies → curricula frameworks- Nancy
- Q/A & Discussion - All

Overview – Capacity Building

- **Capacity building** ... is the improvement in an individual or organization's facility (or capability) "to produce, perform or deploy"
 - The [World Bank](#), United Nations and [European Commission](#) describe capacity building to consist of five areas: a clear policy framework, institutional development and legal framework, citizen/democratic participation and oversight, [human resources](#) improvements including education and training, and [sustainability](#).

Overview – Capacity Building for FAIR Data Stewardship

- Focus for this presentation:
 - Professionalization of Data Stewards
 - “Human resources improvement” in education and training
 - Community development for sustainability

FAIR Data Stewardship Training

Options for Skill Development

- Formal education
 - Options at universities
 - Options from organizations, usually with a specific subject domain focus (e.g., life sciences, agriculture)
- Informal education & training
 - Self learning for professional development
 - On the job training opportunities

Where to search?

- Metadata registries / catalogs
 - ELIXIR's TeSS
 - <https://tess.elixir-europe.org/>
 - Focus on life sciences
 - Data Management Training Clearinghouse
 - <http://dmtclearinghouse.esipfed.org>
 - Primary coverage: physical sciences
 - Provides options for searching by “educational framework” including FAIR data principles

Education/training materials discovery

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- Resource Guides:
 - FAIRsharing.org (directory of catalogs & educational standards)
 - <https://fairsharing.org/educational/>
 - EOSC Portal on training / support
 - <https://marketplace.eosc-portal.eu/services/c/training-support>

RDA ETHRD IG efforts to improve discovery & reuse of training

- Interest group focus is on *education & handling of research data*; currently 3 focus groups on :
 - Minimal metadata for learning resources (LRs) for purposes of *discovery*
 - Community developed:
 - From perspectives of 3 users: learner, trainer & service provider
 - Draft data dictionary at:
https://docs.google.com/spreadsheets/d/1eyNtXjanwQb_nFfM4CJjEb2bMsEZIE4fd4DKnlPKBMc/edit#gid=0
 - Extended documentation of LR for purposes of *reuse*
 - Core characteristics for LR registries & catalogs
 - https://docs.google.com/document/d/1gc5zlrMN-V6sdfTO37_JiEfTR9vaP7C8Ue_IQHB5Mn0/edit#heading=h.qlumehr8m7n3

Initiatives to promote FAIR data ecosystem development

- GO FAIR international & associates (GO FAIR Brazil, GO FAIR US, etc.)
- FAIRsFAIR project
 - <https://www.fairsfair.eu/events/training>
 - Workshops, competence centres, in person training (CODATA/RDA Schools)
 - FAIR skills frameworks targeted to different levels:
 - <https://www.fairsfair.eu/fair-frameworks-training-programmes>
- EOSC (European Open Science Cloud) projects
 - Development of skills / capabilities frameworks (EOSC FAIR4S)
 - <https://eosc-fair4s.github.io/>
 - Development of skills terminology
 - <https://terms4fairskills.github.io/>
 - In the process of developing a new training catalog

Initiatives to promote FAIR data ecosystem development

- *Others? What have we missed?*
- *Add in discussion or contact us:*
 - Débora (debora.drucker@embrapa.br)
 - Nancy (nhoebel@kmotifs.com)

Possible Questions for Discussion

What does it mean to be a data steward in light of other professional jobs that might incorporate data stewardship tasks / responsibilities (e.g., data curators, data librarians, data scientists)?

Considering the landscape overview on data stewardship training, what does it take for this kind of training to be considered "FAIR"?