



Feedback from the RDA Europe - ENVRI Summer School

Marco Molinaro [INAF]





Ubi, Quando

Where, When

Learn how to do FAIR compliant professional Data Management. Experience and practice with the latest software to manage and analyse data.









Quis

Who

Tutors

- Environment data managers and software specialists
- CLARIN, ePIC experts

Participants

- PhD/PostDoc students (mostly)
- Young Researchers
- (myself)





Quid

What

- Proper Repository: how to organise and assess a proper repository with the help of a professional repository application ([CLARIN-]DSpace)
- Registering Environmental Data: upload environmental data into the repository, create metadata, assign augmented Persistent Identifiers (handle.net PIDs)
- Collection Building and Using: create collections as subject of analysis, expose metadata, cite collections, etc.
- Data Typing: use data typing as an essential element to carry out transformation, visualisation and analysis via a Data Type Registry (RDA DTR)
- Analysing Data: addressing the stored data and metadata via PIDs for analysis using BEAKER notebooks (Python and R)





Quomodo

How

- "classic" format
 - Morning presentations on topic and tools
 - Afternoon hands-on with prearranged exercises
 - Step by step guides made available
 - Mixup of
 - Leave the students alone with the exercise
 - Perform each step and wait for everybody to catch up
 - Limited to 22 participants





Quibus auxiliis

With what tools

- Starting from ready-to-use desktop machines and a set of test services
 - CLARIN-DSPACE
 - Collections repository
 - ePIC PID repository
 - Beaker server
- Python & R scripting on Beaker notebooks





Cur

Why

School reasons

- Data Science is considered a new thing
 - Europe is strongly pushing this role (EOSC)
- In Europe at least it's true in the sense that there's hardly an educational path for it
 - We need to train data scientists

My reasons for participating

- IVOA (ASTERICS) is domain relevant
- RDA, EOSC, other ... we need to think also cross-domain
- (TBC) there'll be a Data Science class in a Master degree course at Trieste University





Quantum

How much

(personal view on the school's impact)

- Broad overview of the interoperability scenario
- Focused on librarian and RDA cross-domain solutions
 - [IVOA] idea of service/protocol missing
 - Fields metadata annotations fine grained in repositories
- Peculiar view of data types as objects resolvable from repositories
- Hardly an idea of common data exchange formats





Conclusions

- Cross-domain Open Science and FAIR scenario is getting momentum, in Europe at least
 - EOSC projects are lacking (have poor) astronomical view (side note)
- VO is already a VRE, but we have to take care advertising this
 - RDA level is covered
 - Other projects maybe are not so aware
- Cross-domain metadata are not sufficient to cover single domain use cases
 - But then, why using repositories of data types?







- Cross-domain Open Science and FAIR scenario is getting momentum, in Europe at least
 - EOSC projects are lacking (have poor) astronomical view (side note)
- VO is already a VRE, but we have to take care advertising this
 - RDA level is covered
 - Other projects maybe are not so aware
- Cross-domain metadata are not sufficient to cover single domain use cases
 - But then, why using repositories of data types?