

Notes on Paris Doc

- 1. Introduction
 - “comeup” → “come up”
 - “the the” → “the”
- 2. Common Trends
 - Figure 2 could be improved by somehow indicating that different stacks exist “inside” each of Discover, Access, Interpretation, and Reuse. As represented here, they appear as if these 4 elements are part of a “stack” rather than separate technologies with their own stacks.
 - “ignoring their content” in first par of 2.3 feels like a trigger. Might consider rewording this so that it refers to “data objects” as “agnostic envelopes holding discipline-specific content, in the same way that email systems do”.
 - in section 2.6 consider changing the phrase “(as shown by the extension of the file name)” to “(as shown by the extension of the file name or a MIME type associated with the file)”
 - In section 2.8 consider adding something like this after the 2nd sentence — “Federations also attract and can provide access to human experts who provide “missing metadata” about various types of data objects”.
- 5. Technical Components
 - in section 5.2 consider that Actors can be both machines and humans. You could replace “users who are involved in the data creation process” with “humans and machines involved in the creation and processing of data”.
 - in section 5.4 — consider changing title “Metadata System” with “Metadata Solutions” or some such. It’s not clear that a single “system” is required. Frameworks or agreed upon practices, for example, might be part of the solution. Or perhaps “Data Object Metadata System” would be appropriate. The term “Metadata System” makes me think you are delving into metadata inside the “data object envelope”.
 - I would eliminate section 5.9 “Prefabricated PP Modules” or rewrite it more generally. If the fabric WG feels this is “the” agreed upon solution then keep it. Otherwise consider rewording it as “Practical Policies Framework” and mention prefabricated modules as a way to implement it.
 - In 5.10 consider authentication of “actors” (which would include both humans and software”.
 - In 5.19 consider changing the first sentence to “Besides the data related trends, principles, and technical components mentioned above we need to build up a training and education infrastructure around these and future elements added to them.”
- 6. Organizational Approaches
 - in section 6.2 consider starting the first sentence as follows --- “Researchers are often funded (or employed)”
- Appendix A: Roles and Tasks
 - consider putting researchers, citizen scientists, data collectors, etc. in the top box.
 - consider adding “Data Collecting” in the 2nd box. I think it deserves it’s own category, exclusive of data handling as collecting and recording source data has several different responsibilities associated with it.
- Appendix B: Elaborations on Components
 - 2. consider extending the term “actors” to include machines (see above).