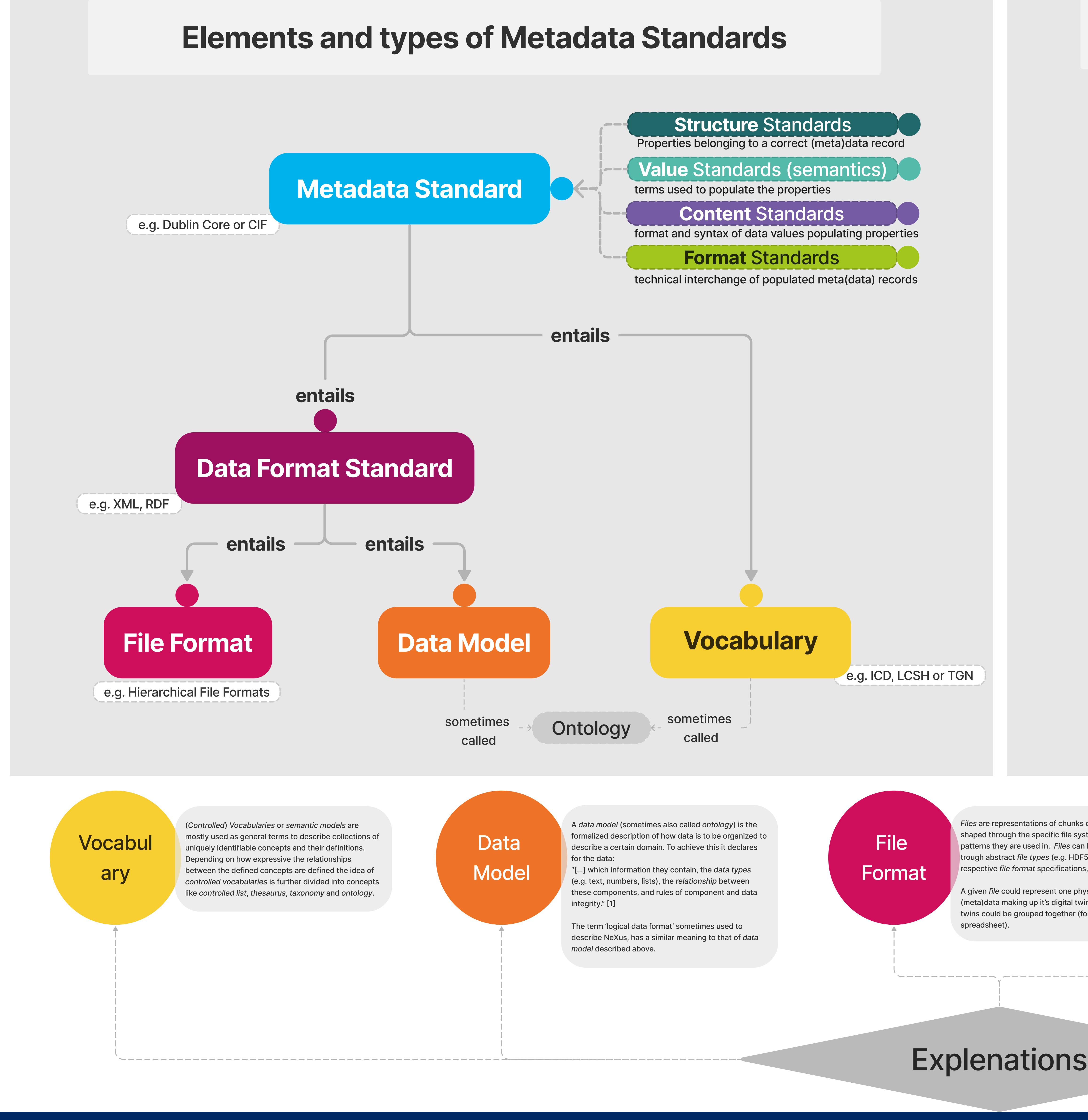


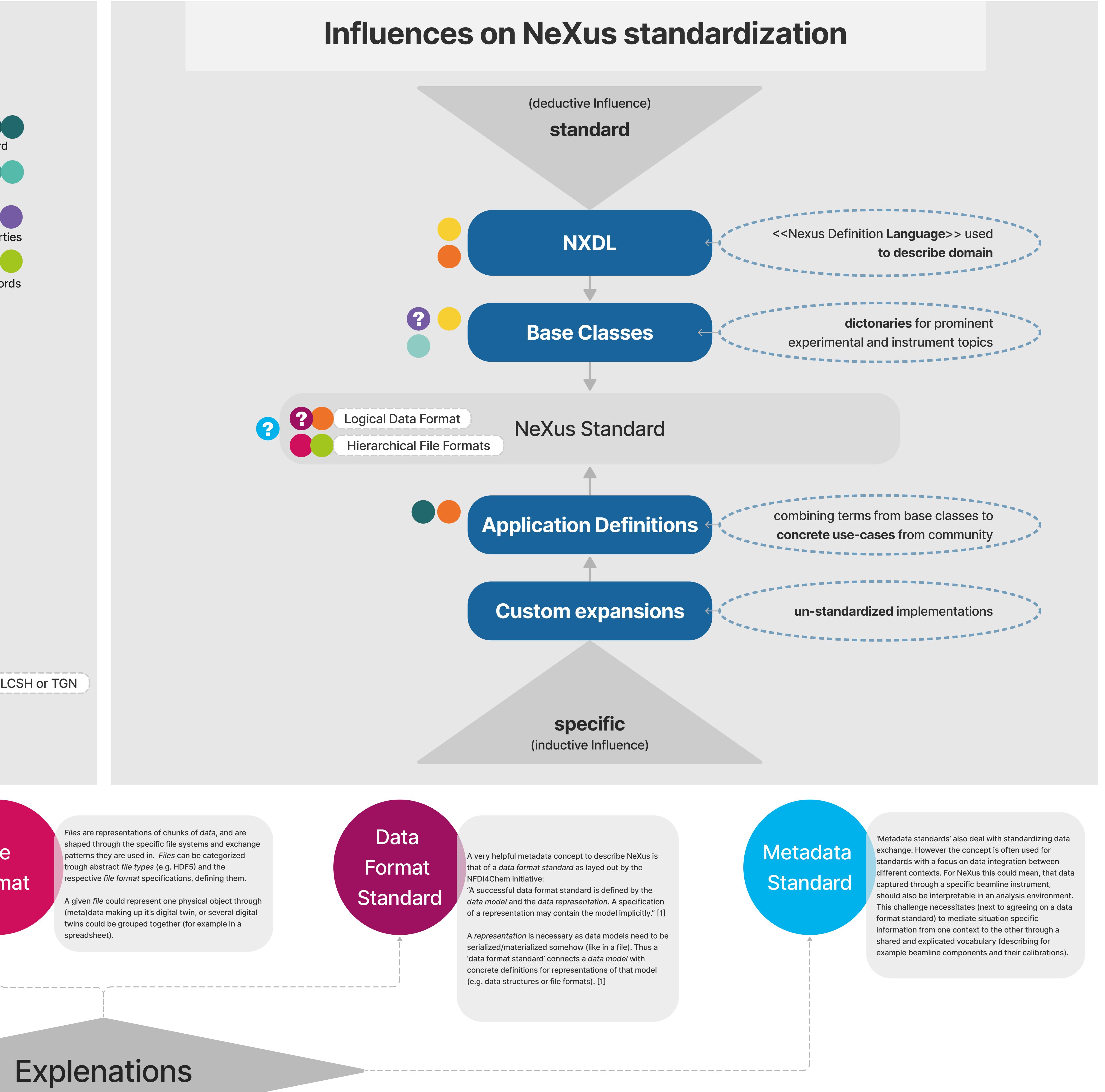
Information Science perspectives on NeXus as a Metadata Standard

Abstract: This poster advocates three points: A) NeXus devides into different components much of which serves to balance different directions of influence on the standard. B) The information science and metadata communities have developed a typology of standard-components which target different semantic, syntactic and technical levels and neccesitate unique curation processes. C) Both communities should try to understand/ crosswalk/align their respective concepts to enable broader interoperability and better standards evolution.



Sources: [1] Data Format Standard | NFDI4CHEM Knowledge Base. (n.d.). Retrieved October 2, 2023, from https://knowledgebase.nfdi4chem.de/knowledge_base/docs/format_standards/#definitions

Pascal Walter^{1,2} Oonagh Mannix^{1,2}



Files are representations of chunks of *data*, and are shaped through the specific file systems and exchange patterns they are used in. *Files* can be categorized trough abstract *file types* (e.g. HDF5) and the respective file format specifications, defining them.

A given *file* could represent one physical object through (meta)data making up it's digital twin, or several digital twins could be grouped together (for example in a



¹ Helmholtz-Zentrum Berlin für Materialien und Energie, ² Helmholtz Metadata Collaboration.

ELMHOLTZ