

*Metadata Architecture and  
Practice for the Digital Library*

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# *What is metadata?*

- **Data about data.**
- **What is the difference between metadata and bibliographic information ?**
- **Both static & dynamic, and interactive.**

# *Metadata and DLM*

- **Metadata is a fundamental basis for DLM.**
- **The scope of metadata is not only the bibliographic description, but also can be extended into analysis, annotation, indexing, retrieval, representation, exchange and rights management.**

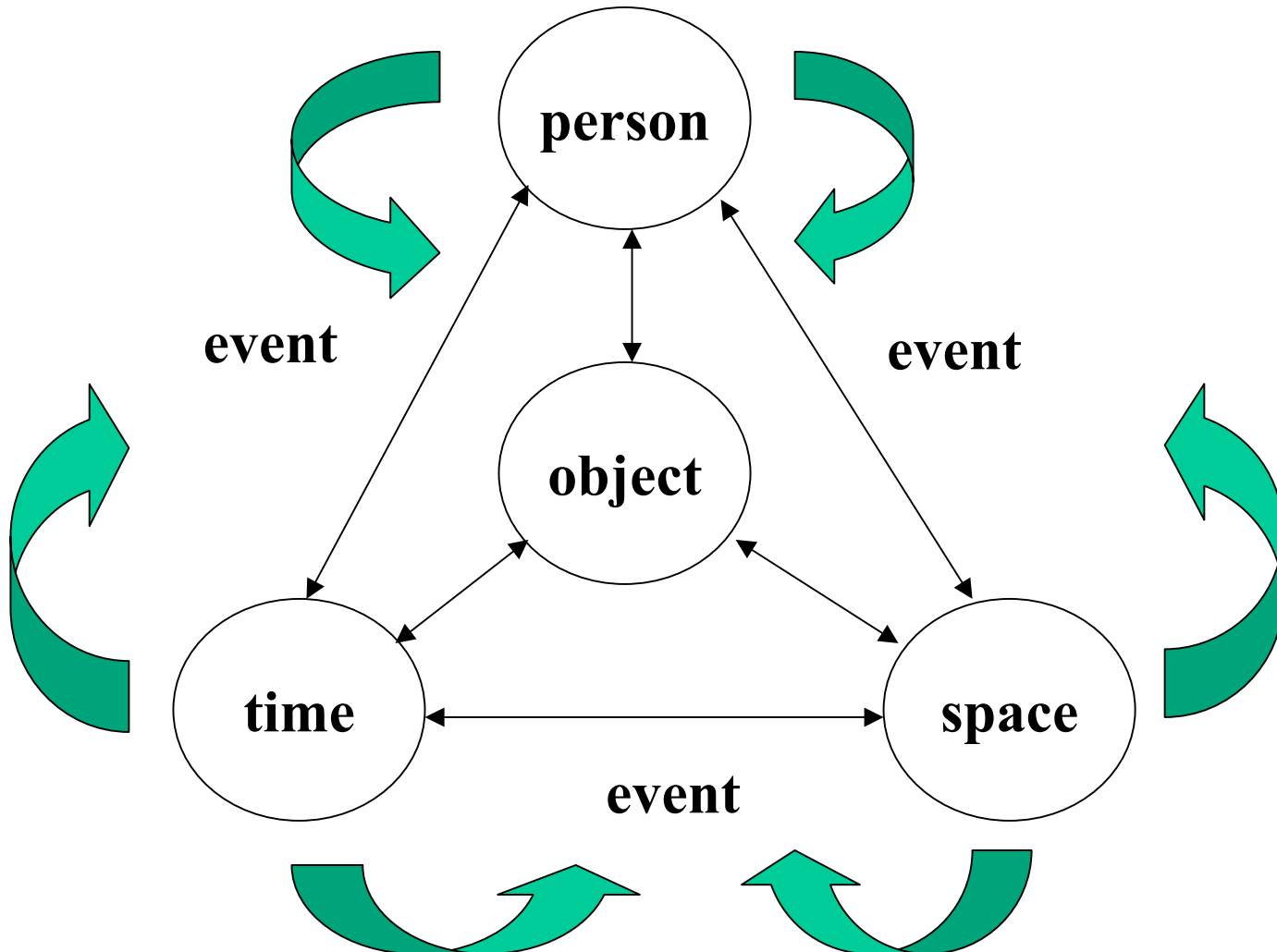
# *Analysis and Implementation*

- **Identifying the requirements both of data and user.**
- **Analyzing the sample data.**
- **Developing the workflow, standard and practice/case experiment.**
- **Selecting one right metadata format for practical approach.**
- **Revision after discussed with the related staff.**

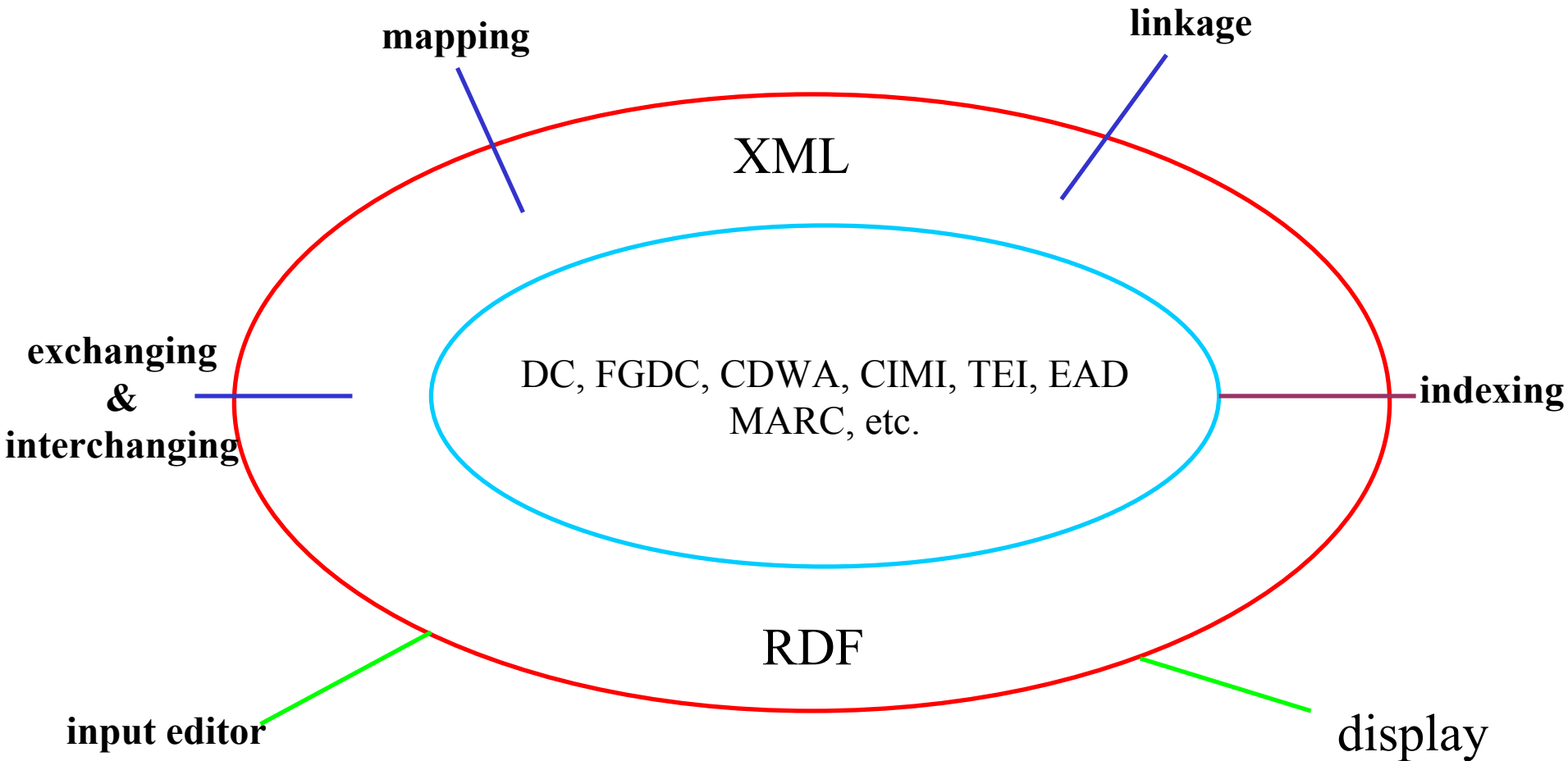
# *Establishment of metadata system*

- **Developing the metadata guideline and practice.**
- **Discussing about the requirements for indexing, representation, and archive.**
- **Designing the metadata system based on the fully support from IT staff.**

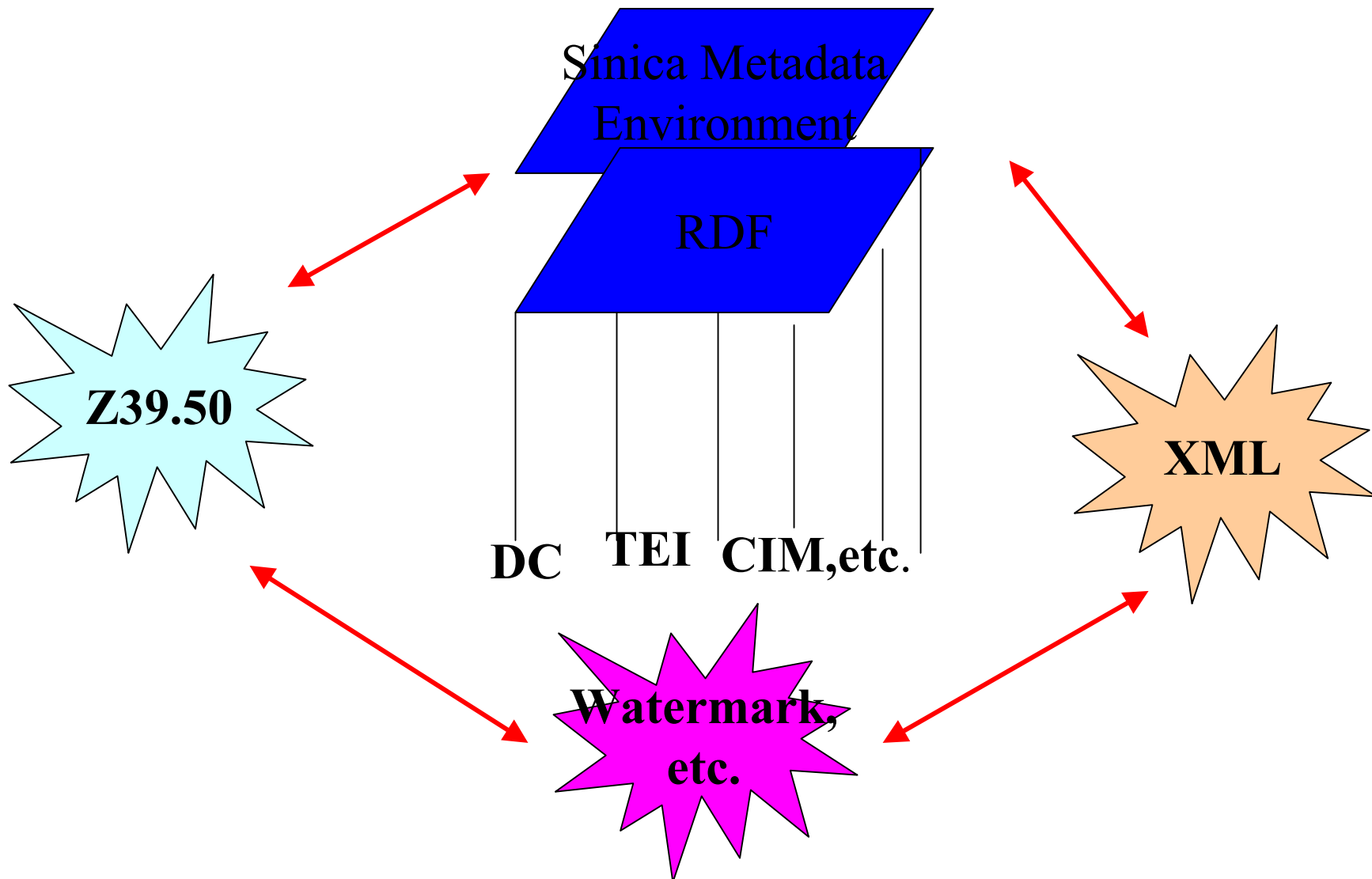
# *Metadata Types*



# *Metadata Framework*



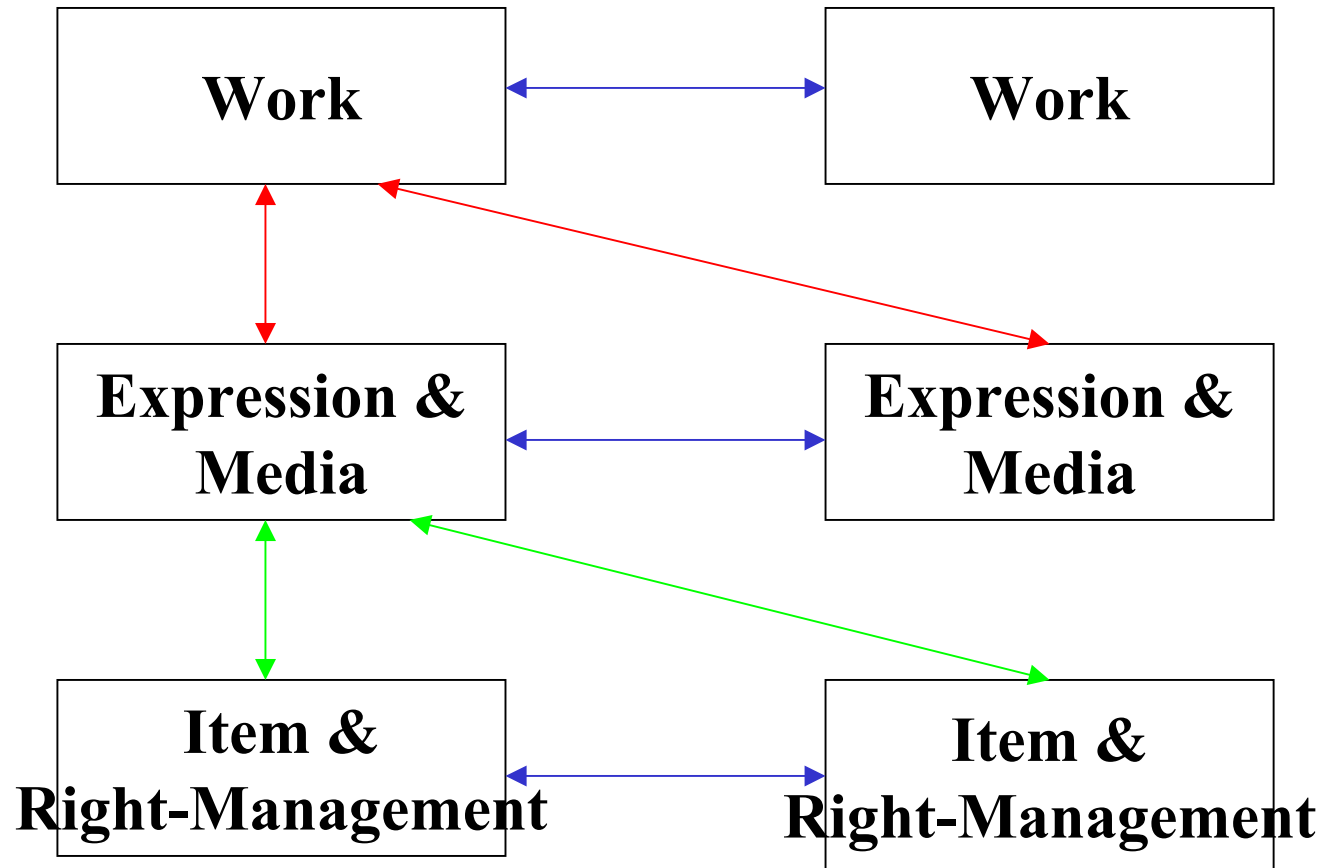
# *Metadata Environment*





# *Metadata Layers and Linkages*

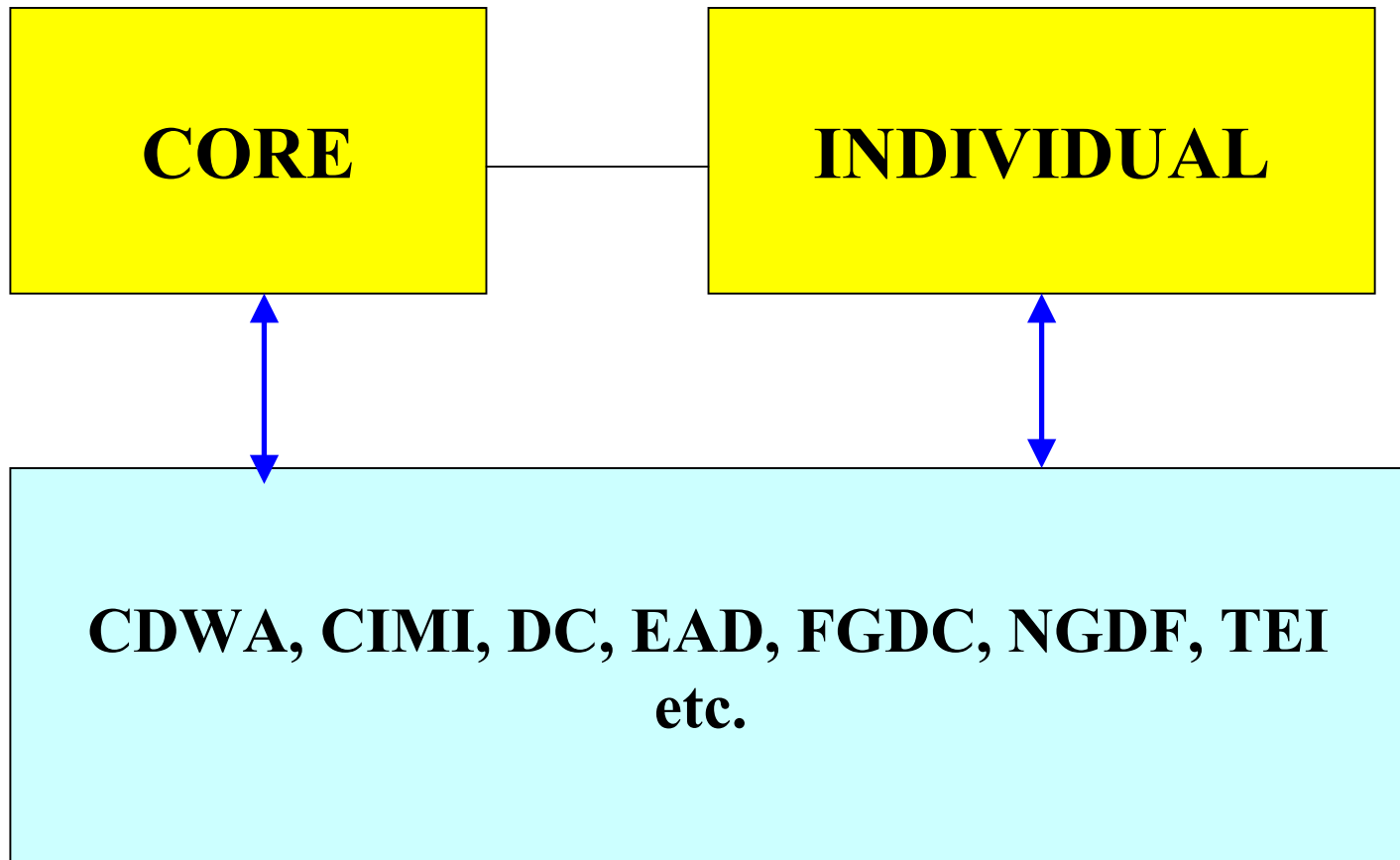
## *Object*



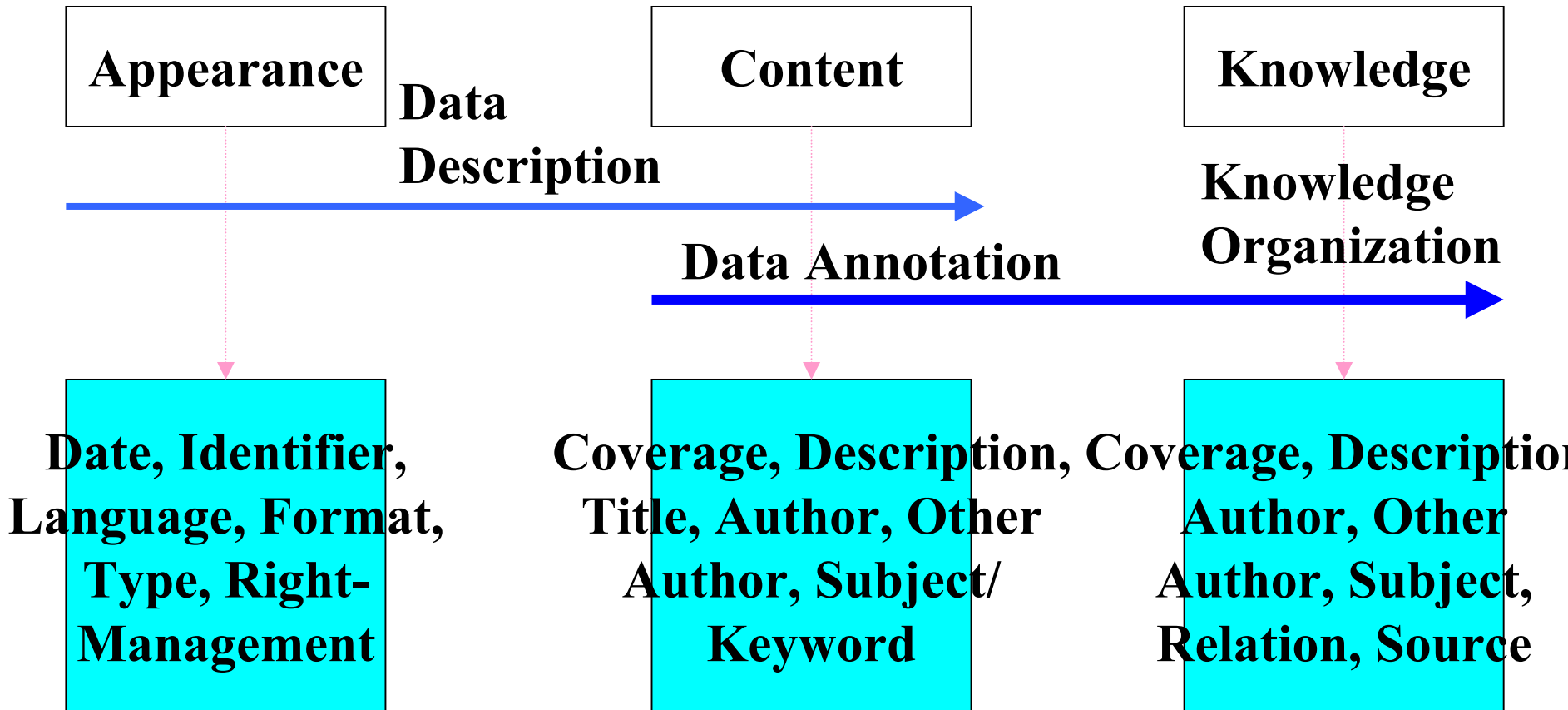
# *Linkage Types*

- **Part and whole relationship**
- **Creative relationship**
- **Version relationship**
- **Format transformation relationship**
- **Reference relationship**
- **Dependent relationship**
- **Sequential relationship**
- **Hierarchical relationship**
- **Shared characteristic relationship**

# *Metadata Record Structure*



# *Metadata Element Group/Level*



# *Current Progress*

- **Develop Spatial, Time and Event Metadata.**
- **Inclusion of GIS Application.**
- **Inclusion of Archival material/Full text.**
- **Integration with the XML/RDF and Z39.50.**
- **Completion of linking relationship for the person, object, time, space and event.**