

# Project Metadata, Project Libraries, and Beyond

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# Projects and Project Libraries at Goddard

- Collection of all the documents generated by a project. Can be several thousand documents
- ~30-35 active project libraries
- Generally has a project librarian (rarely an MLS)
- Contents “Document Control”
  - Configuration management materials
  - Configuration change requests
  - Engineering orders
  - Drawings
  - Proceedings
  - Status reports

# Goddard Core

- 52 elements – 47 descriptive, 5 administrative. For example:
  - Creator
  - Creator.employee
  - Creator.code
  - Creator.contract
  - Creator.missionsProjects
  - Creator.instrument
- XML and RDF versions – we’re using XML
- Qualified Dublin Core
- 23 elements are refinements on subject, creator, and contributor. These refinements correspond to facets of the NASA taxonomy
- For the most part, simple elements are retained as part of the set
- To appear in “*Issues in Science and Technology Librarianship*”



# Digital Archival System

## Goddard Core Metadata Template

Home

Update

- Add New Collection
- Add New Video
- Delete Digital Object(s)
- Test
- Update Metadata

Retrieve About

### Help:

- [General help with the template](#) (please read this before completing your first template)
- Follow the link from a field's name for help with completing that field.
- [Guidelines for Dublin Core metadata creation](#)
- [DC Elements, Reference Version](#)

It is possible to exceed the visible limitations of the input boxes.

If you need to repeat a field, just click on the  that accompanies the field.

ID  Date Stamp

**1 TITLE** of the resource to be described

Alternative title (Titles other than main title)

**2 CREATOR** (Name of the person or organization primarily responsible for creating the intellectual content)

Creator Employee

Creator Organization

Creator Code

# A Big Improvement but...

## Still Many Familiar Issues

- Resistance to populating all the fields
- Interoperability
- Change happens
- Configuration Management System has Unique IDs, but
  - Ad hoc descriptors
  - No timestamps

# Project Documents and Project Libraries

## Who are the users

## What are the constraints

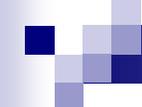
- Engineering staff
- Management
- Special cases
  - New employees
  - Rebuild/Reuse/Review
    - Astro-E – in the drink
    - CAIB/Diaz Reports
  - Project Hibernation (Preservation)
    - Hitchhiker project terminated
- Additional features
  - Accompanied by physical devices
  - Stable workforce
  - Transition from Paper to PDF to ?

# Beyond Simple Metadata

- Bring in Broad Organizational Context
  - Organizational Structure/Budget Systems
  - SAP, PeopleSoft, Ephiny
- Capturing and understanding less formal content
  - PERT Charts, GANT Charts
  - Unified metadata across document types
- Formal and workflow models (currently with no metadata)
  - UML
    - Need names for processes
  - Workflow management (Petri Nets)

# Beyond Simple Metadata (Cont'd)

- Visualization of processes
  - Fly through interface
  - Question answering about components
- Towards the interoperability of systems
- Metadata for functionality and behavior, not just structure (NIST)



# Beyond Simple Metadata (Cont'd)

- Multi-resolution descriptions
  - Occupy the middle ground
  - Tying in context about “lessons-learned”
- Story telling
- Design rationale
  - Why was a decision made
  - Difficulty of capture
  - Apply process metadata to existing documents