

42nd SYMPOSIUM ON SAFETY AND QUALITY IN SPACE ACTIVITIES (D5)
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TAXONOMY FOR SPACE: KNOWLEDGE SHARING AMONGST COUNTRIES

Abstract

Traditional knowledge sharing amongst space agencies, industry, and academia has focused on data related to a mission. However, an opportunity to create a model of both how and what to share amongst countries was proposed last year. The creation of a high-level taxonomy and governance that would provide a basis for easy knowledge sharing amongst aerospace organizations, academia, and government agencies was agreed to. Such a taxonomy benefits organizations by providing:

- Overall scheme for organizing content to solve a business problem
- Representation of a predefined organizational structure that covers a range of subjects in a hierarchical arrangement and that shows correlations between subject areas
- Optimized site map or information architecture that allows users to intuitively navigate to content
The work to date will be presented including an:
 - Understanding of the challenge for sharing knowledge on missions, between organizations, for integrated applications, and for long-term capture and access to knowledge
 - Taxonomy concept and methodology
 - Best practices and high-level requirements
 - Identification of taxonomies and standards for inclusion
 - Top-level facets
- Future work will include metadata mapping, metadata specification, and XML schema development.