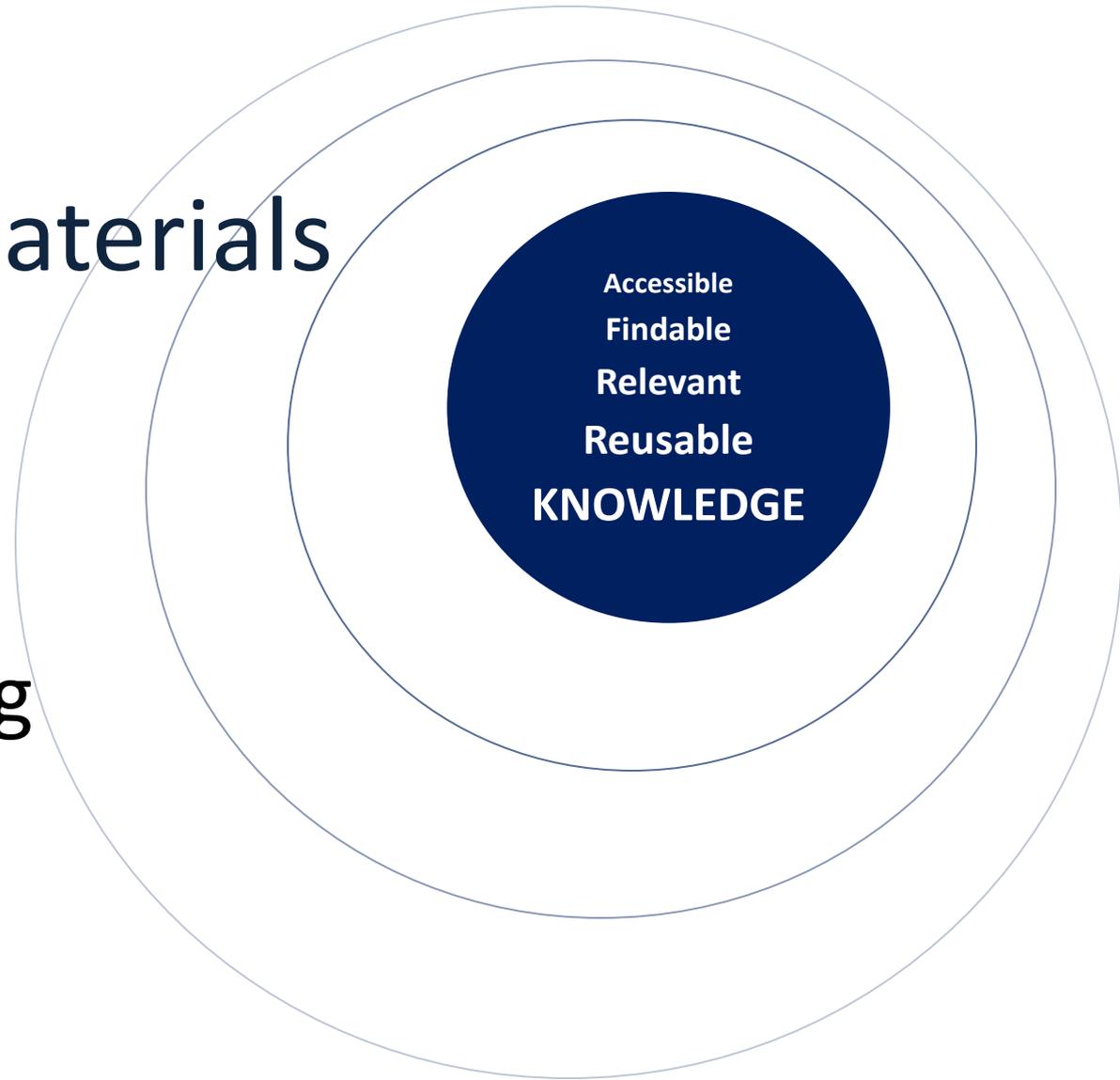


Recovered Materials

Knowledge:

- Capture
- Retention
- Processing
- Transfer



Overview

Knowledge capture

- Recovered materials, MOD Online, Zupp , Case Studies, Leadership, Training, Knowledge Based Risks

Knowledge retention

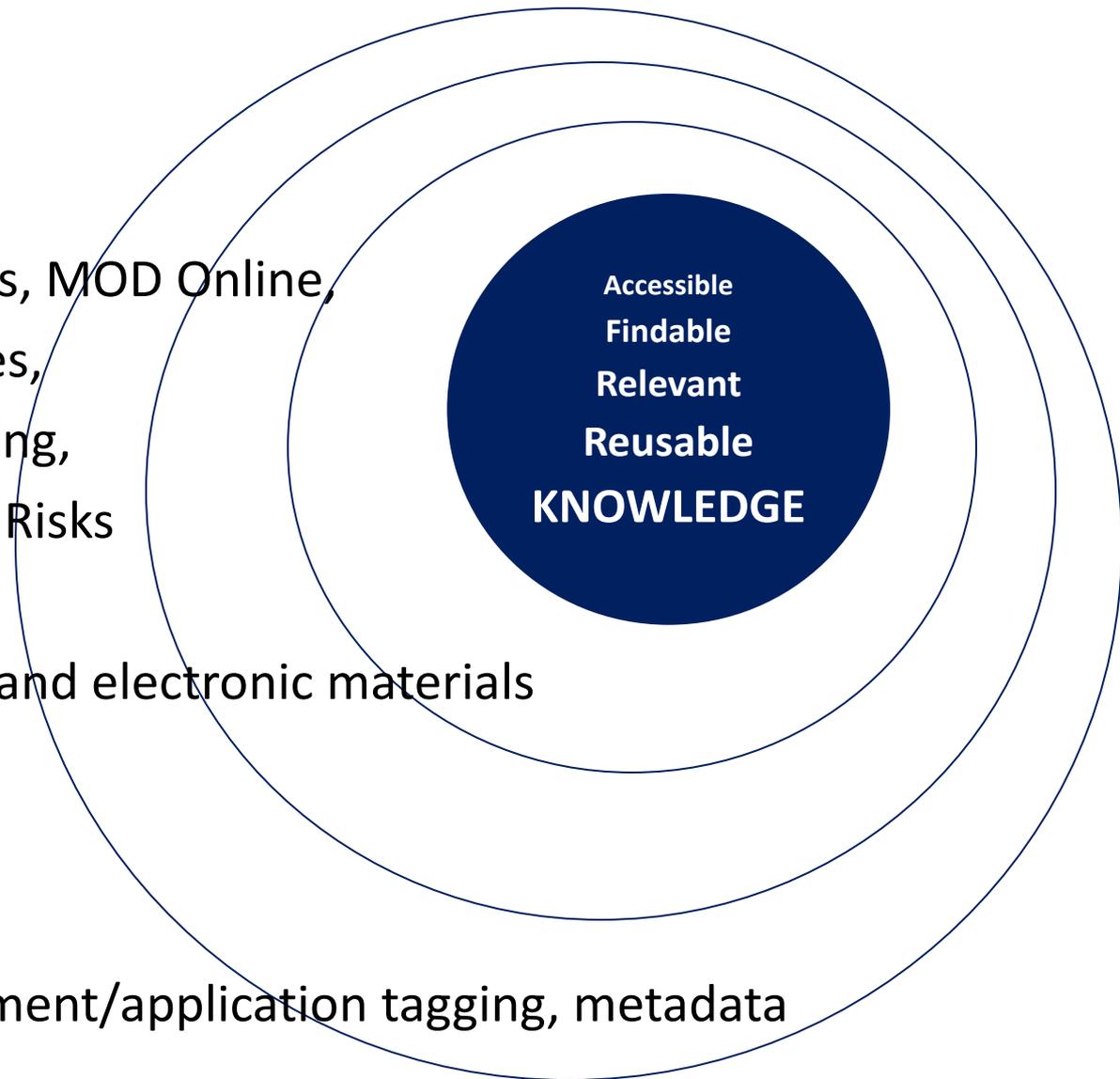
- Storage of physical and electronic materials

Knowledge development

- Sources
- Gap analysis
- Taxonomy development/application tagging, metadata

Knowledge transfer

- Hosting and interface development



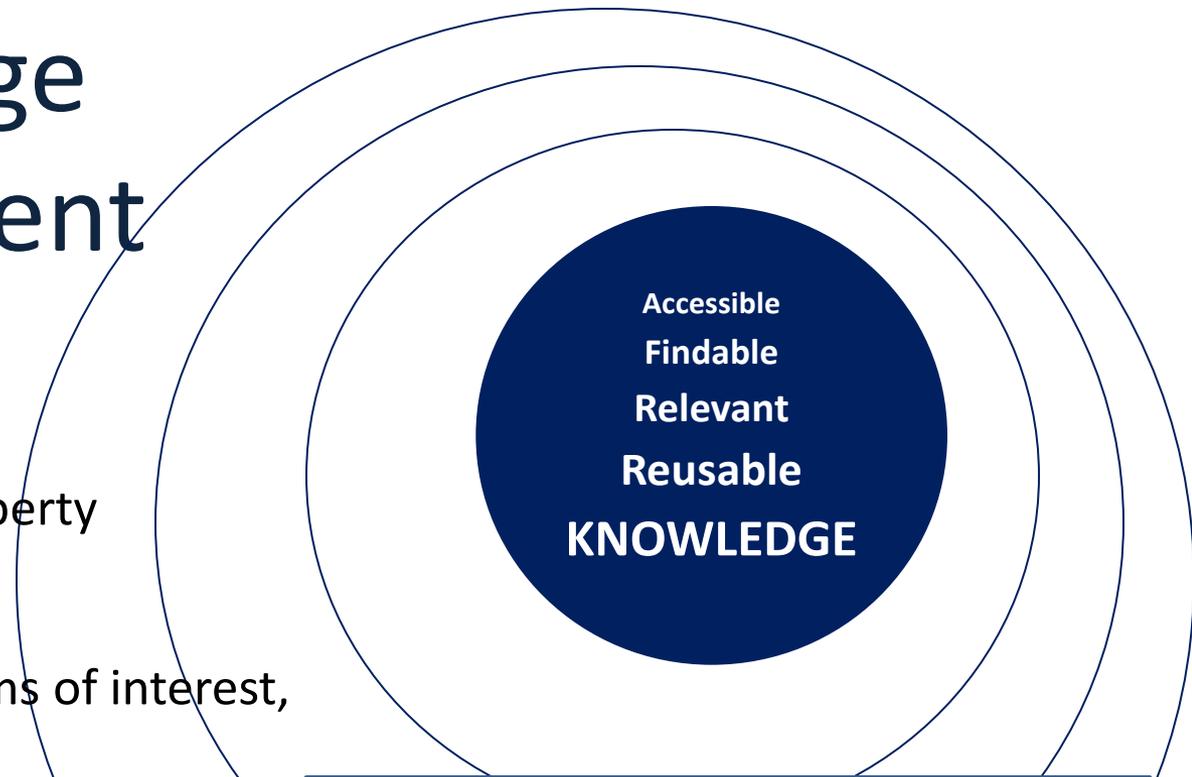
Knowledge Development

Sources

- Office/Program moves
- Donation of personal property

Gap Analysis

- Scan materials to find items of interest, filling collection gaps,
- Partition sensitive, sensitive but unclassified, personally identifiable information (PII) for secondary evaluation
- **Electronic availability**



Items to exclude:

1. NASA numbered documents
abstracts searchable in the NASA
Aeronautics and Space Database (NASD)
1. JSC 5 number documents
Abstracts searchable in the Document
Indexing System (DIS)

Knowledge Development: Electronic Availability

Google Search Appliance (GSA) Indexing

- <https://jsc.google.nasa.gov>
8.9 million URLs indexed (April 2014)
- Search box of any registered JSC Website
Regularly queried sites include:
 - iss-www.jsc.nasa.gov
 - starport.jsc.nasa.gov
 - Satern
 - pao.jsc.nasa.gov
- Additional external sources
crawled by the GSA
and regularly queried include:
 - spaceflight.nasa.gov/
 - www.nasa.gov/missions/

Accessible
Findable
Relevant
Reusable
KNOWLEDGE

Visit the JSC search interface at:
<https://google.jsc.nasa.gov> OR type your
keyword(s) into the text box of JSC registered
websites.

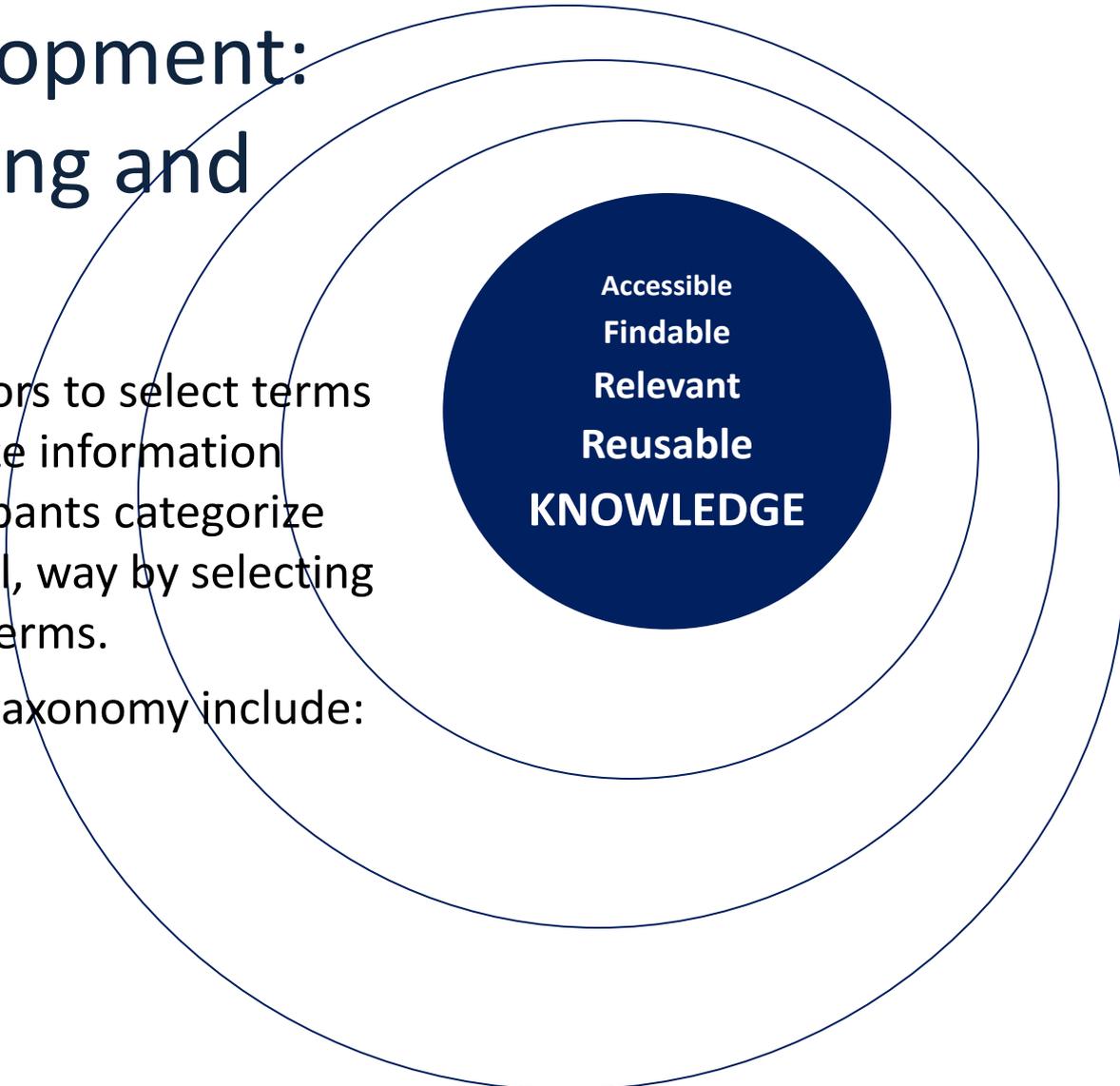


Knowledge Development: Taxonomy Tagging and Metadata

Enabling content owners/creators to select terms from the taxonomy to categorize information increases its findability. Participants categorize data in a consistent, meaningful, way by selecting from a preset list of preferred terms.

Applications already using the taxonomy include:

- JSC Search
- Lessons Learned Database
- Shuttle Knowledge Console

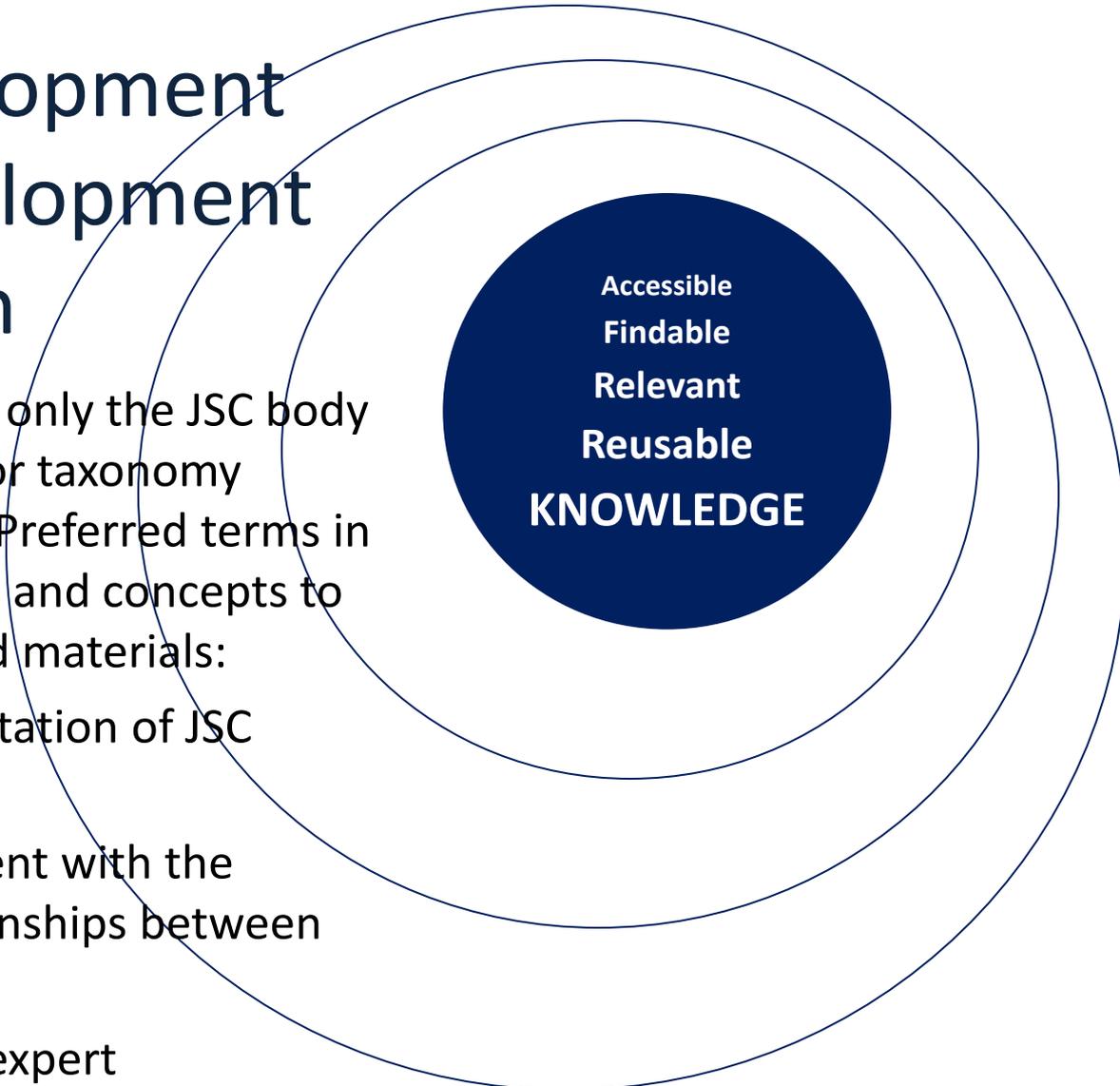


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Findable
Relevant
Reusable
KNOWLEDGE

Knowledge Development Taxonomy Development and Application

Recovered materials fortify not only the JSC body of knowledge, but are critical for taxonomy development and application. Preferred terms in the taxonomy recognize classes and concepts to categorize JSC work. Recovered materials:

- Ensure correct representation of JSC information
- Aid ontology development with the discovery of new relationships between preferred terms
- Lead to subject matter-expert identification/participation in otherwise immature domains



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Knowledge Transfer: Hosting and Interface Development

JSC Knowledge Online (JKO) offers an interface for both internal and Agency-based knowledge management activities.

- Historical Records
 - Recovered materials not yet identified as specific to a particular group or repository are housed in the Historical Records tab. Examples include speeches, phone directories and personal essays
- Shuttle Knowledge Console
 - Retired shuttle data has been captured, retained and displayed in a manner consistent with the native application
- Leadership and Training Areas
- The Human Exploration and Operations Mission Directorate (HEOMD) hosts Knowledge Based Risks on the JKO.

Accessible
Findable
Relevant
Reusable
KNOWLEDGE

Knowledge Based Risks

Knowledge-Based Risks (KBRs) capture risks that have been successfully mitigated in the past that are relevant to many current topics including: Project Management, Systems Engineering, Design and Development, Integration and Testing, and many more. A typical KBR will consist of subject-matter expert video interviews, white papers, articles, and presentations in order to provide an interactive and engaging way to identify and mitigate important risks. For a quick-start, you may want to check out some of the content listed below. These KBR videos were produced by the Human Exploration and Operations Mission Directorate Integrated Risk and Knowledge Management System and provided to JSC by David Lengyel.

[LINK](#) Captions for the KBR videos may be requested using this [form](#) or by contacting the curator.

New Knowledge-Based Risks

- ISS: P6 On-Orbit Solar Array Repair
- SSP: On-Orbit Tile Repair

Community Favorites

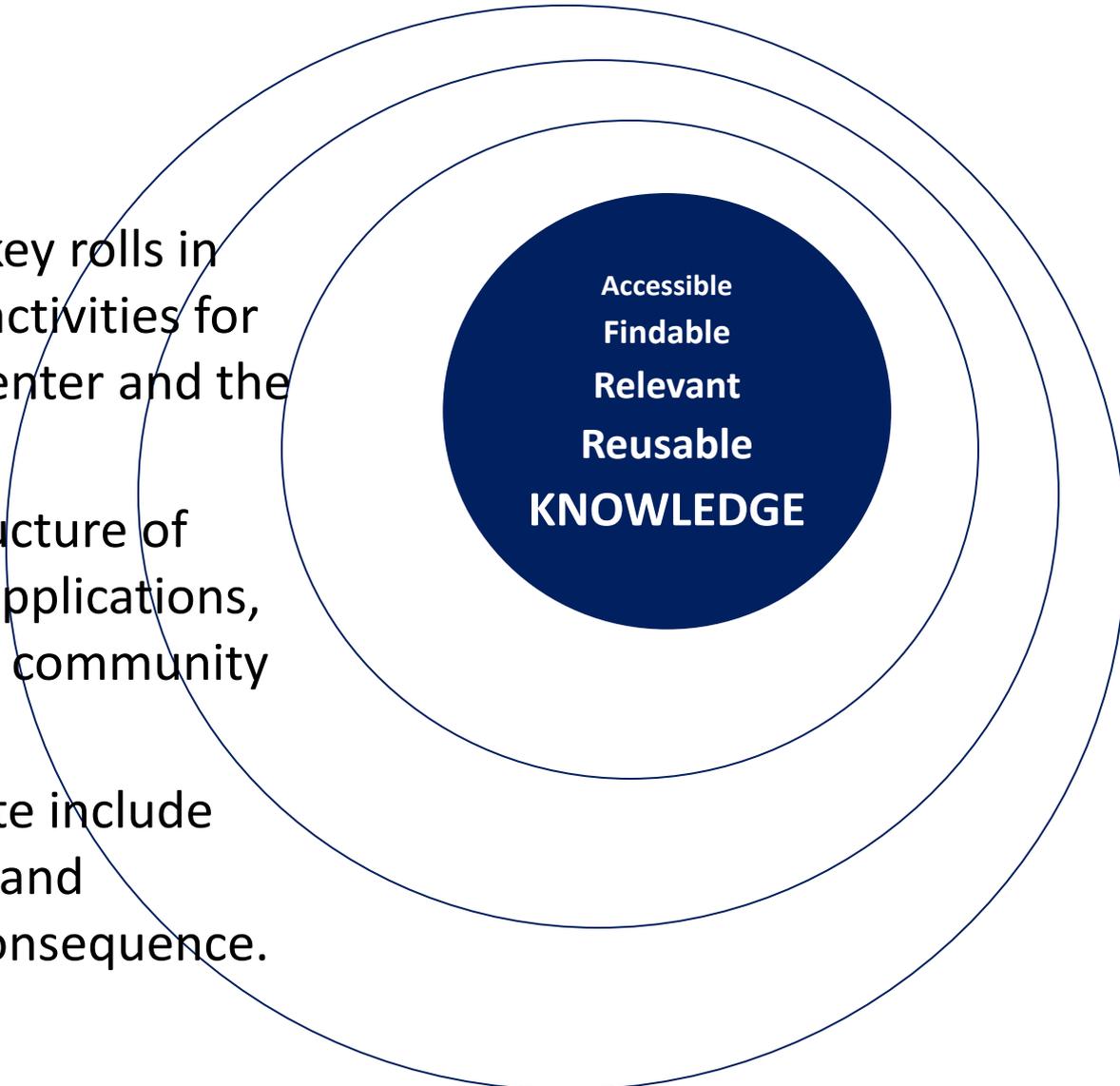
- Ares I: Performance Requirements > Introduction and Background
- Lack of Documentation Regarding Crew Errors > Definition of Risk

Conclusion

Recovered materials play key rolls in Knowledge Management activities for both the Johnson Space Center and the NASA Agency.

From the foundational structure of Taxonomy to multimedia applications, found materials fortify our community knowledge base.

Recovered materials to date include videos, images, org charts and documents of historical consequence.



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