

Worldview, Experience, and Metadata: Operationalizing Integrative Levels for Transdisciplinary Knowledge Systems

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Abstract

This workshop explores how lived experience and assumptions shape interoperability and AI metadata tagging through narrative exploration, thought experimentation, and collaborative exercises. These exercises use an *un-assumptions* methodology to map individual worldviews, determine predisposition to bias, and to challenge closely held assumptions. Participants will engage in a collaborative exploration of human perspectives to produce real time definition, framing, and classification decisions – individually, in small groups and as a workshop. By progressing through the levels of awareness, we will embark on a collaborative journey from self-awareness to global understanding. To accurately capture these interventions, the tagging exercises will be executed using a strict split of 60% analog, 30% traditional tech, and 10% AI.

The workshop integrates worldview mapping, media literacy principles, and scenario-based group decision-making, to compare individual and collective classification behavior. Drawing on an operational framework and longitudinal human–AI interaction data, the session demonstrates how embedding worldview-aware inputs into metadata systems can support more adaptive, human-centered, and interoperable knowledge infrastructures. This approach contributes to meaning-driven AI by providing practical methods for aligning metadata systems with human values across domains.

1. Description

Drawing from a longitudinal dataset of human–AI interaction and applied system design, the workshop presents an operational model for embedding worldview-aware inputs into metadata systems. The goal is to support human-centered, ethical, and interoperable metadata for AI and transdisciplinary research.

The exercises will allow for narrative exploration of human values and variations through definitions, classification, and framing experiments. Differences in outcomes are analyzed to identify patterns of bias, inconsistency, and divergence in metadata structures.

Workshop

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2. Objectives

Participants will:

- Examine how worldview and lived experience influence classification decisions
- Understand how definitional assumptions impact metadata structures
- Apply integrative levels to organize knowledge across disciplines
- Identify how bias emerges in tagging and categorization
- Explore methods for embedding human perspective into metadata systems
- Evaluate implications for AI alignment, interoperability, and reproducibility

3. Format

Interactive, in-person workshop including:

- Interactive and narrative real-time definition mapping and tagging exercises
- Small-group classification activities, scenario-based decision-making, and comparative analysis
- Tagging will consist of 60% analog, 30% traditional tech, 10% AI

4. Event Plan (3 Hours)

1. Introduction (10 min)
2. The problem: AI readiness, media & data literacy, metadata challenges, and transdisciplinary fragmentation (i.e., streetlight effect, magical thinking, predisposition to bias, interoperability, reproducibility)
3. The journey from self-awareness to global understanding: framing the role of human values in metadata systems
4. Framing, Definitions & Classifications (20 min)
5. Comparison of rigid vs open definitions & impact on classification systems
6. Group tagging of entities using DCMI core & comparison across groups
7. Survival Exercise - Individual vs Group Decision-Making (30 min)
8. Analysis of lived experience, culture, and disciplines
9. Connection to metadata construction
10. Worldview Mapping (30 min)
11. Individual mapping of observed influences to determine impact of lived experiences and cultural perspectives
12. Link worldview to classification behavior & identify bias patterns
13. Media Literacy & AI Readiness Integration (30 min)
14. Framing effects and statistical interpretation
15. Influence on classification and bias
16. Consciousness Definition Mapping Exercise (30 min)
17. Understanding research and leadership bias
18. Participants define “consciousness”, responses converted into live metadata tags
19. Global Understanding and Epistemic Integrity (20 min)
20. Structuring worldview with DCMI Core
21. Operationalizing integrative levels using the *un-assumptions* methodology
22. Embedding worldview into metadata systems

23. Implications for interoperability and reproducibility of AI metadata tagging and transdisciplinary research
24. Conclusion (10 min)
25. Key takeaways
26. Open discussion

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