MaLDReTH II

Mapping the Research Infrastructure Landscape

Interactive User Testing Session

RDA/IDW Session

[Your Name] | [Your Affiliation]

[Date]

🔗 **PRISM Live Demo:** [Insert URL]

Agenda

1. Introduction to MaLDReTH II (5 min)

- Problem space & motivation
- Working group objectives

2. PRISM Platform Demo (10 min)

- Live walkthrough of key features
- Recent enhancements

3. Hands-On User Testing (25 min)

- Guided tasks with the platform
- Real-time feedback collection

4. Discussion & Next Steps (10 min)

The Challenge

Why MaLDReTH II?

The Problem

- **Fragmented Landscape:** 1000+ research data tools exist
- **Poor Discoverability:** Researchers struggle to find tools
- **Limited Interoperability:** Tools don't communicate well
- **No Unified View:** Missing comprehensive mapping

"Researchers spend 30-40% of their time finding and configuring tools instead of doing research"

Our Response: Systematic mapping of digital research infrastructure

MaLDReTH II Overview

Mapping the Landscape of Digital Research Tools Harmonised

RDA Working Group Initiative

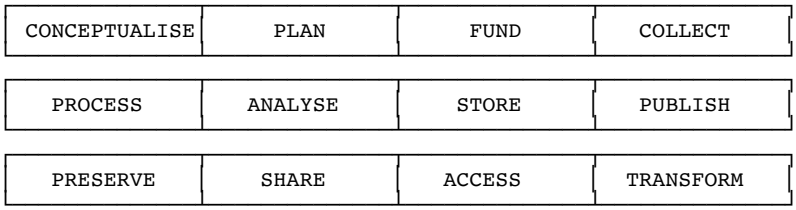
- **Launch:** 2023 (Building on MaLDReTH I)
- **Members:** 45+ institutions globally
- **Focus:** Tool discovery, categorization, interoperability

Key Deliverables

1. ✅ **12-Stage Lifecycle Model** - Complete
2. ✅ **Tool Categorization Framework** - Complete
3. ✅ **PRISM Platform** - Beta (Today's focus!)
4. 🔄 **Open Access Database** - In Progress
5. 🔄 **Community Guidelines** - In Progress

The 12-Stage Research Data Lifecycle

MaLDReTH Model



Why 12 stages?

- Previous models: 6-8 stages (too coarse)
- MaLDReTH: Granular enough for tool mapping
- Captures full data journey: conception → reuse

Introducing PRISM

Platform for Research Infrastructure Synergy Mapping

What is PRISM?

A web-based platform to **map, visualize, and analyze** interactions between research data tools

Core Capabilities

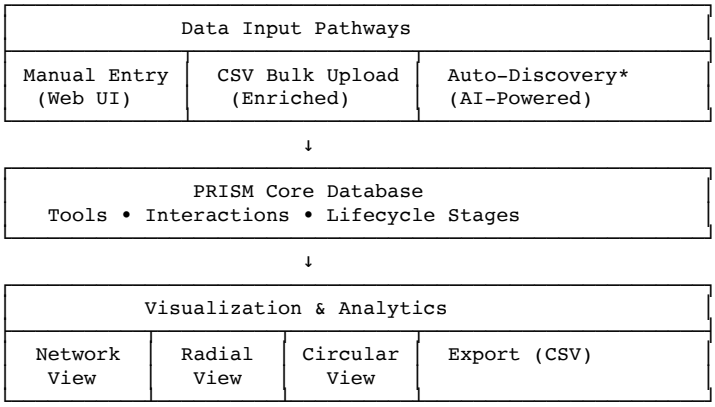
- 📊 **Interactive Visualizations** - Multiple lifecycle views
- 🔗 **Tool Interaction Mapping** - Document how tools connect
- 📤 **Data Export/Import** - CSV bulk operations
- 🤝 **Community-Driven** - Crowdsourced knowledge
- 🔍 **Discovery System** - Automated discovery (coming soon)

Current Scale

- **167 tools** documented
- **56 interactions** mapped
- **12 lifecycle stages**
- **Multiple visualizations**

PRISM Architecture

Information Flow



**Auto-Discovery coming in Phase 6-7 (Weeks 6-10)*

Recent Enhancements (Phase 1)

What's New in PRISM

🆕 **Enriched Metadata**

- Software licenses (MIT, Apache, GPL, etc.)
- GitHub repository URLs
- Curator notes and context

🆕 **Bulk CSV Import**

- Upload 100+ tools at once
- Automatic enrichment of existing tools
- Auto-creation during interaction imports

Smart Curation

- Auto-created flag - Track CSV vs manual entries
- Uncategorized tools - Queue for manual review
- Soft deletes - Archive without data loss

Scale Achievement: +82 tools, +50 interactions imported! 🚀

Live Demo

PRISM Walkthrough

We'll Demonstrate:

1. Home Dashboard - Overview statistics
2. Lifecycle Visualizations - Network, Radial, Circular
3. Tool Catalog - Browse 167+ tools
4. Interaction Details - See real connections
5. CSV Import - Bulk upload capability
6. Glossary - Comprehensive guidance

🔗 **Live URL:** [Your PRISM instance]

Switch to live demo for 10 minutes

User Testing Objectives

What We're Testing Today

Primary Goals

1. **Usability** - Can users navigate and understand PRISM?
2. **Value** - Is the tool mapping approach useful?
3. **Completeness** - What data/features are missing?
4. **Workflows** - Does it fit researcher needs?

What We'll Measure

- Task completion rates & time
- User confusion points
- Feature requests
- Overall satisfaction (1-5 scale)

Your Role: Complete tasks, think aloud, be honest, suggest improvements!

User Testing - Task 1

Explore a Lifecycle Stage (5 min)

📝 Your Mission

You're a researcher starting a new data collection project. Understand what tools are available for the **COLLECT** stage.

Steps

1. Navigate to the lifecycle visualization
2. Find the COLLECT stage
3. Identify 3-5 tools in this stage
4. Click on one tool to see details

Questions to Consider:

- Was it easy to find the COLLECT stage?
- Are the tool names recognizable?
- Is the information provided useful?
- What's missing?

📝 Record your observations

User Testing - Task 2

Discover Tool Interactions (5 min)

📝 Your Mission

You use **Zenodo** for data preservation. Find out what other tools it integrates with.

Steps

1. Search for "Zenodo" in the tool catalog
2. View the tool details
3. Identify interactions (both as source and target)
4. Examine one interaction in detail

Questions to Consider:

- How easy was it to find Zenodo?
- Are the interactions clear?
- Is the technical detail sufficient?
- Would this help you in real work?

📝 Record your observations

User Testing - Task 3

Add Your Own Knowledge (7 min)

📝 **Your Mission**

You know about a tool interaction that's not in PRISM. Add it!

Example: GitHub automatically archives code to Zenodo

Steps

1. Click "Add Interaction"
2. Select source and target tools
3. Choose interaction type
4. Fill in description and details
5. Submit

Questions to Consider:

- Was the form intuitive?
- Were the categories clear?
- Did you have enough fields?
- What would make this easier?

📝 **Record your observations**

User Testing - Task 4

Review CSV Import (5 min)

📝 Your Mission

PRISM recently imported 80+ tools via CSV. Explore the "uncategorized" tools.

Steps

1. Go to "View All Tools"
2. Look for tools with "Uncategorized" badge
3. Pick one uncategorized tool
4. View its details (license, GitHub, notes)
5. Consider: How would you categorize it?

Questions to Consider:

- Is it clear which tools need curation?
- Is the metadata helpful?
- Would you be comfortable categorizing these?
- What guidance would you need?

📝 Record your observations

User Testing - Task 5

Export Data for Analysis (3 min)

📝 Your Mission

You want to analyze tool interactions in Excel/R/Python.

Steps

1. Find the CSV export function
2. Download the interactions data
3. Open it (if time permits)

Questions to Consider:

- Was export easy to find?
- Is the CSV format usable?
- What additional fields would help?
- What formats would you prefer?

📝 Record your observations

Feedback Collection

Share Your Thoughts

Quick Survey (5 min)

Usability (1-5)

- How easy was PRISM to navigate?
- How clear were the concepts?
- How intuitive were the workflows?

Value (1-5)

- How useful is tool mapping for your work?
- Would you use PRISM in real projects?
- Would you contribute data?

Features (Open)

- What's the most valuable feature?
- What's missing or confusing?
- What would you change?

🔗 **Survey Link:** [Insert Google Form URL]

Initial Findings

What We're Hearing (Live Notes)

✅ **Positive Feedback:**

- [Fill in during session]
-
-

⚠️ **Challenges Identified:**

- [Fill in during session]
-
-

💡 **Feature Requests:**

- [Fill in during session]
-
-

Roadmap Preview

What's Coming Next

Phase 2: Authentication & Curation (Week 2)

- User accounts with ORCID
- Role-based access (Viewer, Editor, Admin)
- Admin dashboard for curation

Phase 3: Admin Tools (Week 3)

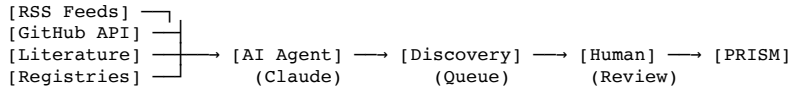
- Bulk categorization
- Archive/delete capabilities
- Quality assurance workflows

Phase 6-7: Automated Discovery (Weeks 6-10)

- RSS feed monitoring
- GitHub repository scanning
- AI-powered enrichment (Claude + MCP)

Discovery System Sneak Peek

Coming Soon: Automated Tool Discovery



Sources We'll Monitor

- Research Data Alliance news
- Software Carpentry updates
- GitHub topics (research-software, data-management)
- bio.tools registry
- Academic literature (arXiv, PubMed)

AI Enhancement

Confidence scoring • Metadata extraction • Interaction suggestions

Result: Continuously growing, high-quality catalog with human oversight

Contributing to PRISM

Join the Community

🔍 Casual User

- Browse the catalog
- Share feedback
- Suggest tools

✍️ Active Contributor

- Add interactions
- Upload CSV catalogs
- Review imported tools

🛠️ Power User

- Curate tools
- Quality assurance
- Bulk data management

👥 WG Member

- Join meetings
- Shape direction
- Co-author papers

🔗 **Join Us:** https://www.rd-alliance.org/groups/maldreth-ii

Get Involved Today

Take Action

Immediate Steps

1. **Try PRISM:** [Live URL]
2. **Add an Interaction:** Share your knowledge
3. **Join Mailing List:** Stay updated
4. **Follow on Social:** @maldreth_rda

For Your Institution

- Contribute your tool catalog via CSV
- Host a workshop for user testing
- Provide feedback on priorities
- Offer long-term hosting partnership

🔗 **All Links:** https://linktr.ee/maldreth

Questions & Discussion

Topics We Can Discuss

- Technical implementation details
- Data quality and curation workflows
- Integration with your existing tools
- Collaboration opportunities
- Discovery system architecture
- Roadmap priorities

Contact Information

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💬 #maldreth-ii (RDA Slack)

🌐 https://www.rd-alliance.org/groups/maldreth-ii

🦪 @maldreth_rda

Thank you for participating! 🙏