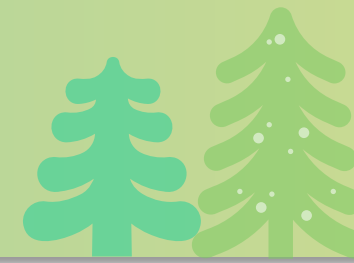


User Requirements for Designing an Agricultural Research Dataset Repository



Research background



Growing demand for transparent and reusable research data under Open Science



Agricultural research data are sensitive, creator concerns over ownership, security, and misuse



Research data are scattered and stored without a standardized, reliable system



Urgent need for a trusted, high-quality agricultural research data repository

Objective

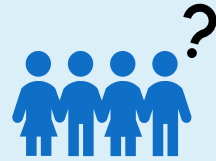


To examine user requirements and proposed design guidelines for an agricultural research dataset repository to support education and research

Conceptual framework

Input

- Agricultural research datasets
- Interview users and stakeholders



Process

- Collect user needs and experiences
- Analysis and synthesis data to identify requirements
- Validating user requirements
- Defining initial design guidelines



Output

- Summary of user requirements and recommendations
- Validation results of user requirements
- Guidelines for designing a user-responsive agricultural data repository for the next phase

Methodology

Qualitative approach

21 Key informants

(Agricultural researchers, faculty members, students, and information professionals)



Interview questions with six aspects



Content analysis



Data quality was verified using triangulation to ensure credibility and dependability

Results



Layout: Simple layout, Clear navigation, Central search bar, Readable fonts, Clean color palette, Essential metadata



Searching: Multi-platform access, Easy login, Basic & advanced search, Keyword/Subject Search, Filters



Content: Complete & reliable data, Clear categorization, AGRIS-CARIS Standard, Dublin Metadata



Link: External linking, Research database integration, Google discoverability, Multi-format export, Social sharing



Privacy: Optional login, Public data access, Minimal disclosure, Sensitive data protection



Preservation: Access control, Log tracking, DOI assignment, Data backup, Integrity check, Metadata standards

Layout and structural design

