



# Research Data Repository Interoperability WG

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# Summary of the Problem

- 
- Exchange of digital content between repository platforms is challenging
    - Different data models, metadata, semantics, interfaces
    - Current state of the art (e.g. Dublin Core, OAI-PMH, SWORD) well adopted but limited
    - Upcoming approaches (e.g. Linked Data Platform, Resource Sync, OAI-ORE) supported by a comparable small subset of platforms

# Summary of the Problem

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- Some varied use cases: migration, replication, cross-domain sharing
    - Migration between same platform, but different version
    - Migration between different platforms
    - Sharing with domain and cross-domain scientists

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1. Research Data Repository Interoperability Primer
    1. DOI: 10.15497/RDA00020
  2. Final Recommendations

# Highlights of the Recommendation

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- Consensus on BagIt-based approach
  - Recommend metadata location and naming scheme
  - Recommend to include basic metadata in Datacite 4.0 schema
  - Recommend to use machine readable profile information according to BagIt Profiles Specification

# Impact of the Recommendation

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- Comparably easy to adopt packaging and exchange format
  - Adoption can be done by community
  - Alignment of existing packaging solutions rather easy
  - Support for both state-of-the-art and legacy platforms
  - Provides users with a common tool to e.g. transport, exchange or backup their content
  - Basis for further agreements of package content to improve interpretability of package content

# Endorsements/Adopters

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- First prototypes implemented for Fedora Commons, ICAT, Dariah Repository and KIT Data Manager
  - Generic profile containing all recommended elements available
  - Tools and demonstrator available:

<https://github.com/RDAResearchDataRepositoryInteropWG>