

Scholarly communication is undergoing fundamental changes, in particular with new requirements for open access to research outputs, new forms of peer-review, and alternative methods for measuring impact. In parallel, technical developments, especially in communication and interface technologies facilitate bi-directional data exchange across related applications and systems. The aim of this roadmap is to identify important trends and their associated action points in order for the repository community to determine priorities for further investments in interoperability. A comprehensive list of interoperability issues has been created derived from a broad discussion in the information, publishing and repository community and each issue has been rated according to its level of complexity and temporal relevance (or timing).

Access the Roadmap here: <http://bit.ly/1FlgQ3M>



Interoperability Issues

Short term

Medium term

Long term

Low Complexity

- Exposing Citation Formats
- Supporting Data Export Functions
- Supporting Author Identification Systems
- Supporting Search Engine Optimization (SEO)
- Exposing Publication Lists
- Integrating Different Persistent Identifiers

- Exposing Persistent Identifiers
- Supporting Authorization and Authentication
- Improving Platform Stability
- Supporting Institutional Services
- Extending End-User Usability
- Validating Repository Metadata
- Supporting Visibility in Repository Registries
- Supporting OAI Service Provider Usage
- Integrating Availability Services
- Supporting Embedding Services
- Supporting Repository Ranking Systems

Moderate Complexity

- Exposing Bibliometric Information

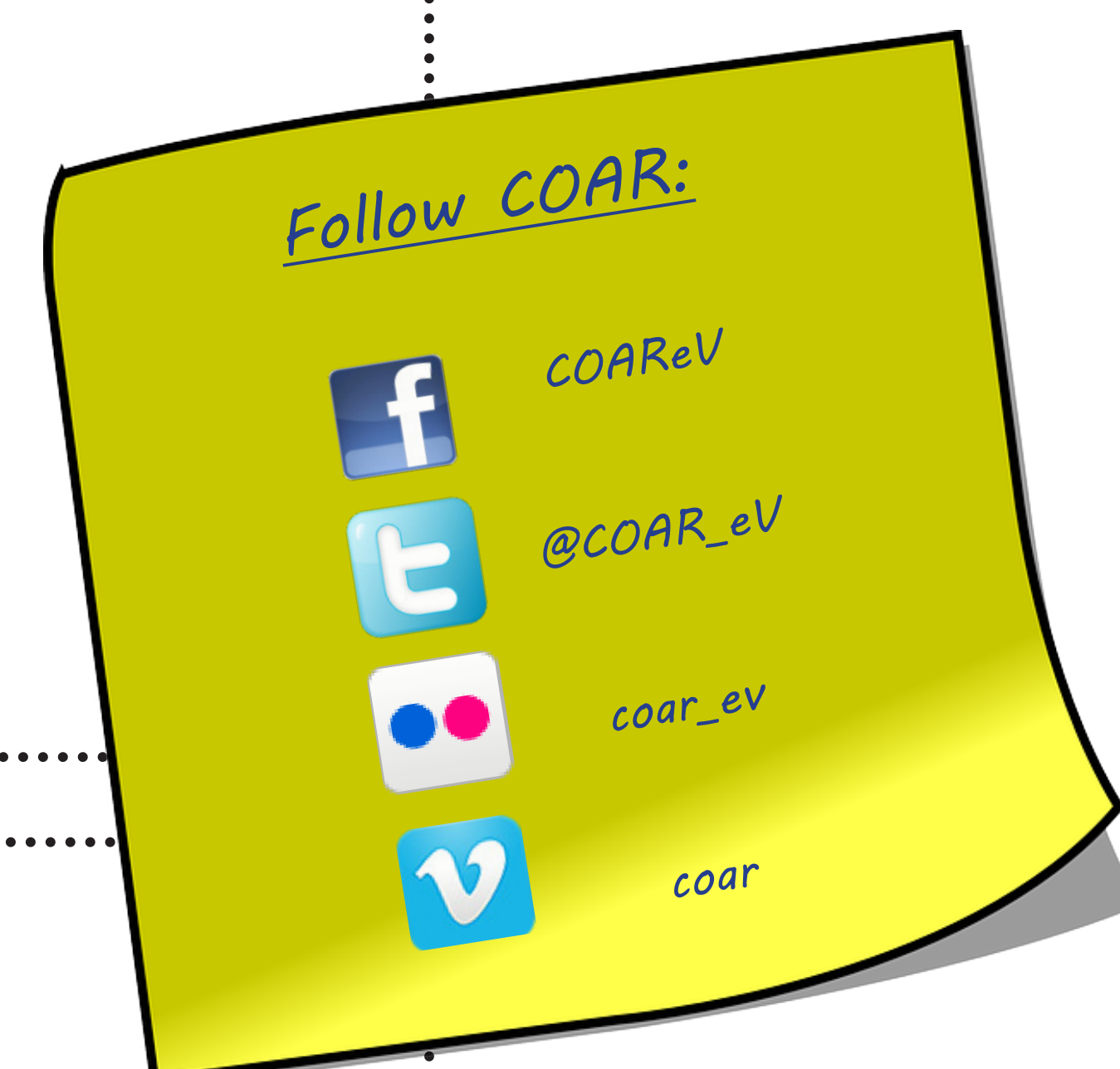
- Exposing Versioning Information
- De Duplication
- Improving Registry Infrastructure
- Monitoring Open Access Mandate Compliance

High Complexity

- Exposing Usage Statistics
- Supporting Additional Metadata Format(s)

- Publication of Research Data
- Improving Metadata Quality (Data Curation)
- Processing Related Full Text
- Supporting Deposit Protocols
- Defining Architectural Recommendations for Repositories and their Interoperability
- Supporting Enhanced Publications

- Extending Usage of Visualization Tools
- Supporting Linked (Open) Data
- Extending/Replacing Metadata Exposition Protocols
- Handling of Complex/ Compound/ Nested Repository Objects
- Supporting Long-term Preservation and Archiving



About COAR

COAR, the Confederation of Open Access Repositories, is a dynamic association of repository initiatives launched in October 2009, uniting roughly 100 members and partners from 35 countries from throughout Europe, Latin America, Asia, North America and Australia. Its mission is to enhance greater visibility and application of research outputs through global networks of Open Access digital repositories.

Activities of COAR members and partners are undertaken in working and interest groups as well as task forces. Work areas range from repository content, interoperability, over education and training to monitoring new trends and developments in the open access repository community.

COAR is already working to advance interoperability in several of the priority areas including author identification systems, publication lists, persistent identifiers, usage statistics and bibliometric formats.

Contact

Lead editor: Friedrich Summann
friedrich.summann@uni-bielefeld.de

Executive Director: Kathleen Shearer
kathleen.shearer@coar-repositories.org

COAR e.V. Office:
Katharina Müller
c/o Göttingen State and University Library
37070 Göttingen, Germany
Tel.: +49-551-39 22215
Fax: +49-551-39 5222
office@coar-repositories.org
www.coar-repositories.org

