

DOI Outreach meeting


Overview

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Current Status

- www.doi.org Founded 1998
- 120 Million DOIs to date
- > 2 billion resolutions per year
- Annual growth rate of 16%
- 9 (+) Registration Agencies
- 15,000 Registrants
- ISO 26324 

What it does

- provides a **resolvable, persistent, interoperable** identifier:
- **resolvable** = standard identifier syntax + network resolution mechanism
- **persistent** =
 - *technical infrastructure* (Handle system, registry database, proxy support, etc)
 - *social infrastructure* (obligations by Registration Agencies)
- **interoperable** = through a data model (semantic interoperability)
- Links **identifier** to **information and applications**

DOI system governance

- International DOI Foundation www.doi.org
- Provides common infrastructure
 - Technical infrastructure: resolution, data model
 - Social infrastructure: e.g. obligations for persistence, back-up, in event of failure, etc.
- Deals with common issues
 - Standardisation (ISO 26324 etc), liaisons, etc.
 - Outreach to new communities
- “Not for profit” membership federation
- Registration Agencies are biggest part of membership
- Elected Board, working groups, meetings

Registration Agencies (RAs)

- Independent of each other
- Each have own business model with their customers
- Have a licence/operating agreement for DOI
- Share costs of **common** infrastructure (IDF)
- Implement **standard** DOI system
- Can add their *own* **services** on top, and run their own databases
- Can be commercial, or not for profit
- Many are member communities (e.g. CrossRef, EIDR, DataCite)



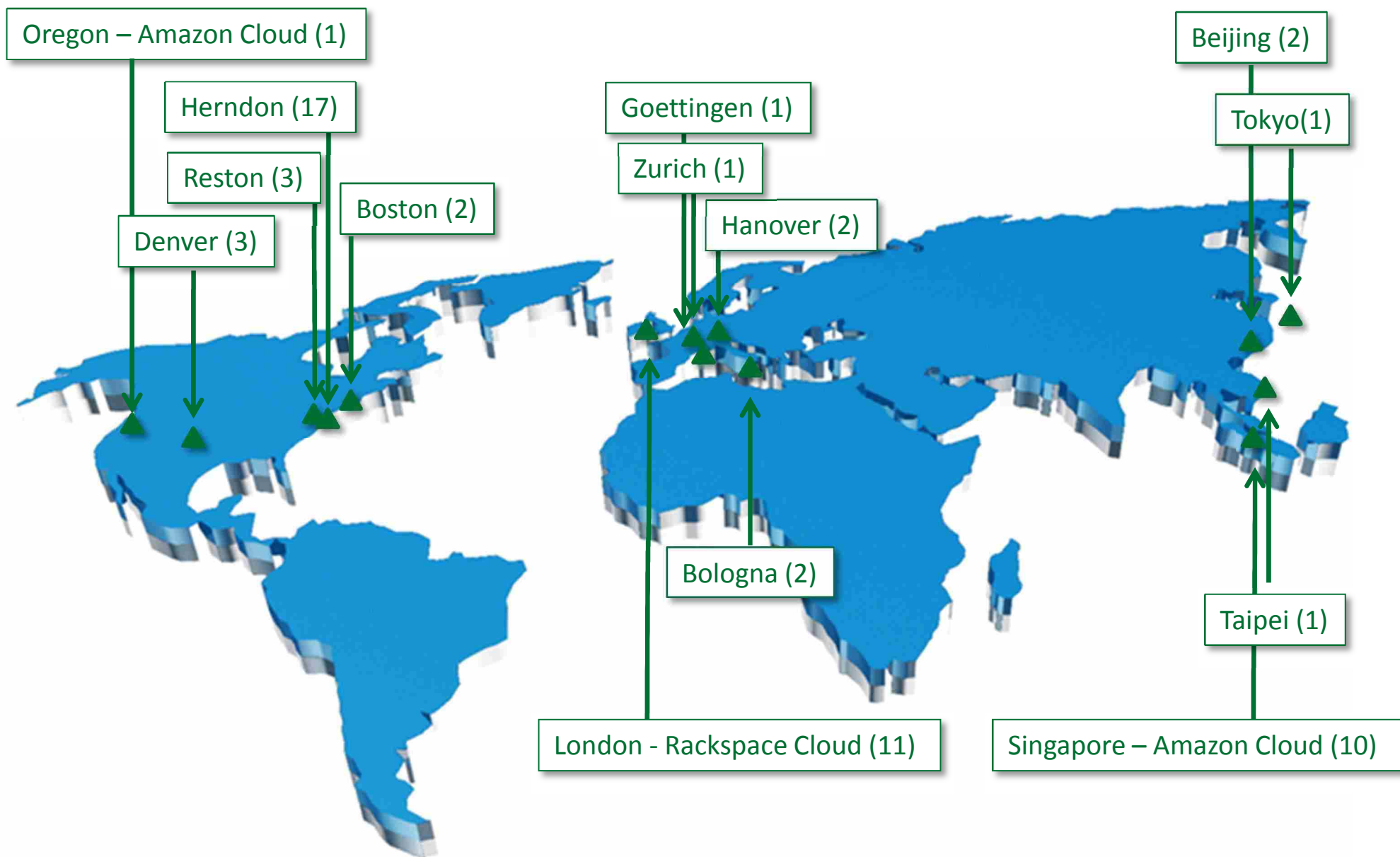
DOI system application areas

- Featured today: Scholarly information, science data
- But also much wider e.g.
- Film and TV (EIDR)
- Construction products - prototyping with members
- Digital rights management/copyright - RDI project ,
Copyright Hub
- Documentation in government, national collections.
- Registration agencies can be in any area

Technical infrastructure

- **Handle system:** persistent identification in digital networks
- **Data model:** principles for interoperability of data in e-commerce systems
- We are working with others for long term continuity:
- **The Handle System:** now under DONA Foundation
 - **Resolution of identifiers on the internet**
 - www.handle.net www.DONA.net
 - DONA: Swiss Foundation for multi-primary Handle management, with EPIC, ITU, China Handle Corp, CNRI, DONA
 - Users of same resolution technology in several areas
- **Data model: Linked Content Coalition**
 - **Semantics of identifiers on the internet**
 - www.LinkedContentCoalition.org; www.rdi-project.org
 - Continuation of EU project: now a separate entity
 - Users of same data model in several areas

DOI Handle technical infrastructure



Social infrastructure

- Shared development – e.g. APIs, datatypes, etc
- Shared tools e.g. running mirror servers
- Obligations for persistence:
 - To customers (within the RA)
 - In event of failure, etc.(beyond the RA)
- Collaboration with other RAs
- Enable shared DOI services where practical
 - A customer could use more than one DOI service
- Translation of information to local needs e.g.
 - Chinese: www.doi.org/doi_handbook/translations/chinese/hb.html
 - Korean: www.doi.org/doi_handbook/translations/korean/hb.html
 - Japanese: under construction (JaLC)



The DOI[®] System

ISO 26324



This is the web site of the International DOI Foundation (IDF), a not-for-profit [membership organization](#) that is the governance and management body for the [federation of Registration Agencies](#) providing DOI services and registration, and is the registration authority for the ISO standard (ISO 26324) for the DOI system. The DOI system provides a technical and social infrastructure for the registration and use of persistent Interoperable identifiers, called DOIs, for use on digital networks.