

STRICTLY PRIVATE AND CONFIDENTIAL

High Performance Digital Workplace: Open Access Open Data

Suhaimi Napis

Universiti Putra Malaysia
SIFULAN.id

MYREN-X with 100Gbps Launched: Whats Next?



Cyberinfrastructure: Modelled after Japan's SINET5



SINET5 21st Century Academic Information Infrastructure for Advancing Open Science

Collaboration and Promotion in Research and Education



Resource

- ◆ Promotion of academic information circulation and open access
- ◆ Collaborative promotion of institutional repository expansion



Federation

- ◆ Collaborative enhancement of authentication between universities



Cloud

- ◆ Dramatic cost reduction and enhancement of research and education environment by tailored cloud services



GakuNin-Cloud
Direct Connection

Security

- ◆ Network flow analysis and dynamic control
- ◆ Raise of security level for SINET users



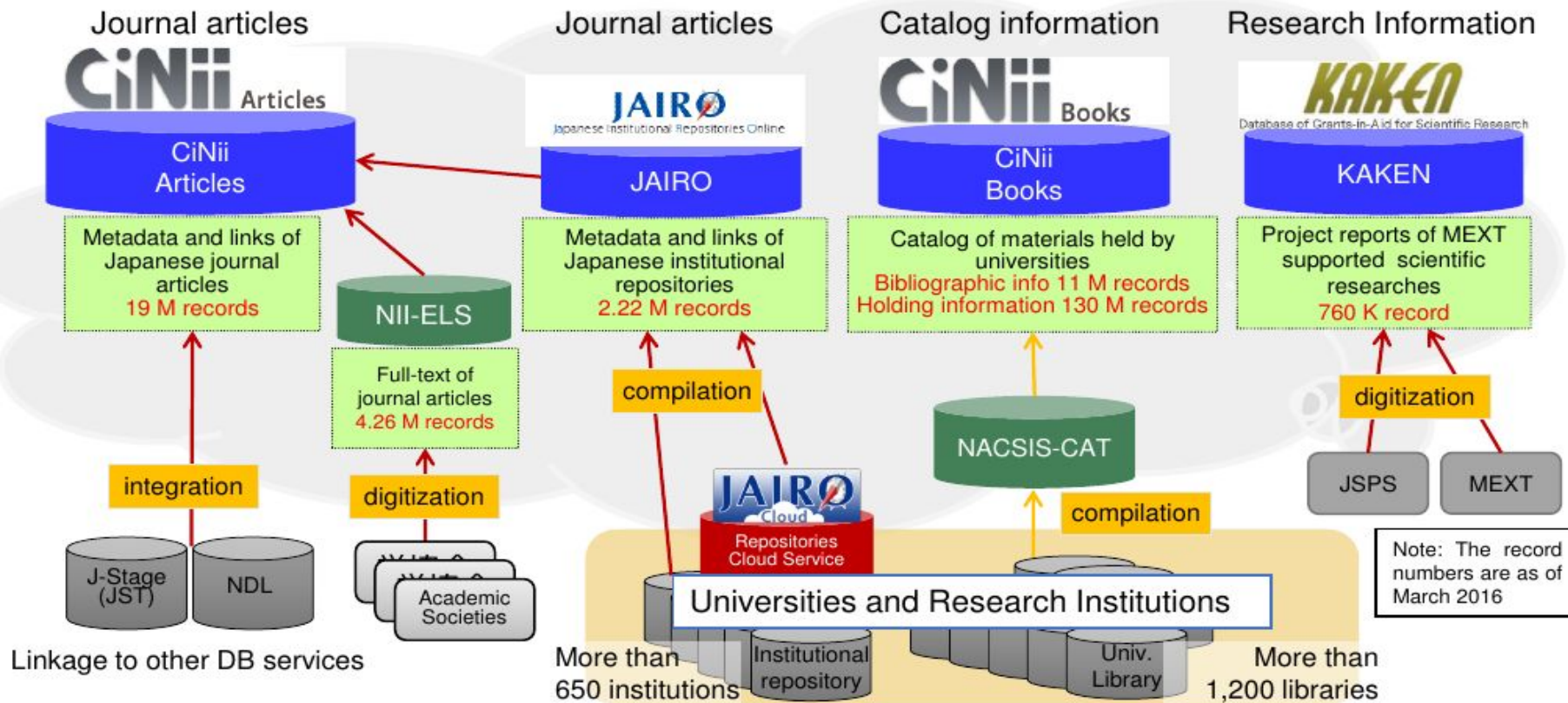
Network

- ◆ Nationwide 100-Gbps backbone network and scalable network expansion
- ◆ High-speed direct international lines to USA, Europe, and Asia
- ◆ Introduction of new technologies such as SDN in response to user needs

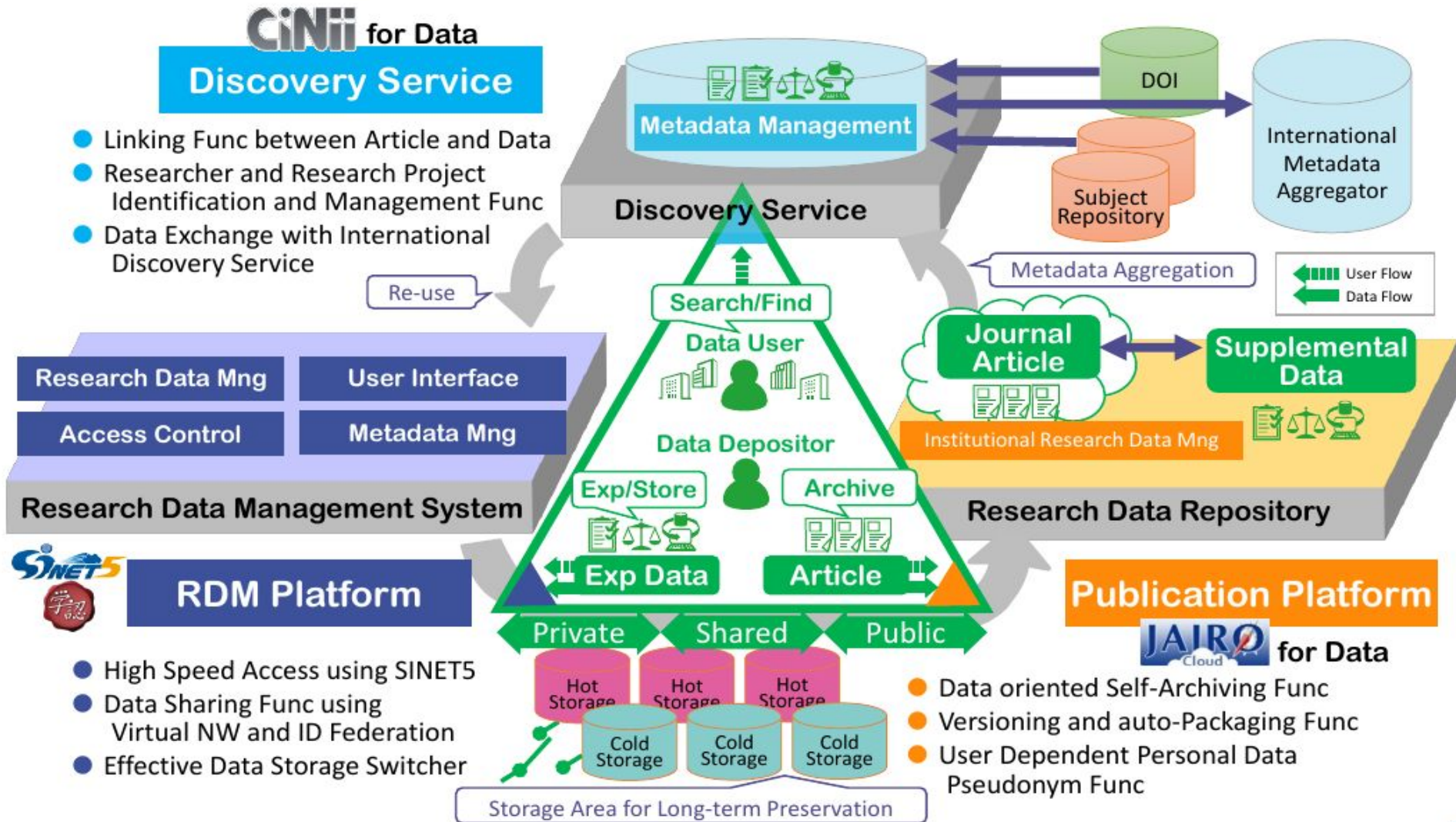


Scholarly Information Infrastructure

Scholarly information is disseminated through various portals provided by NII, in which the information is compiled with the collaboration with universities.



Research Data Infrastructure for Open Science

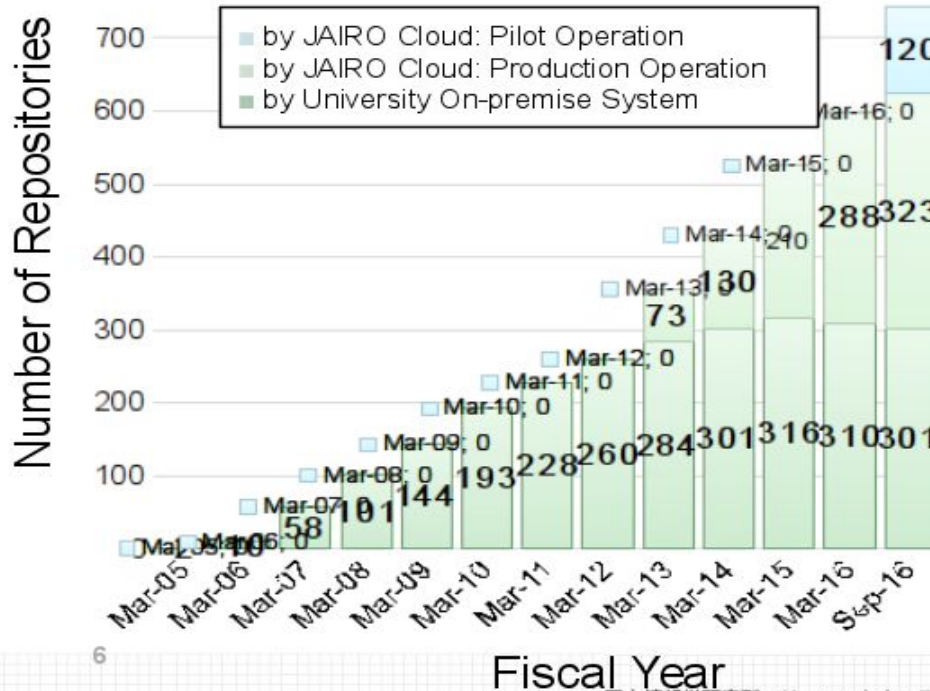


Institutional Repository in Japan

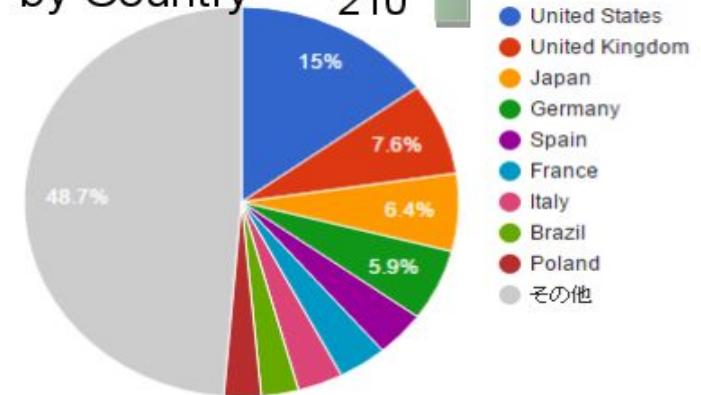
University-based institutional repository is a set of services that a university offers to the members of its community for the management and dissemination of digital materials created by the institution and its community members.

744 IRs

by Clifford A. Lynch, 2003
 Japan



Proportion of Repositories by Country



Total = 3271 repositories

OpenDOAR - 11-Nov-2016

国立情報学研究所では、ソフトウェアWEKOをベースに
 機関リポジトリのシステム環境を構築・提供しています。

Summary of WEKO Japan's Repository Function

■ Guest

- Directory Search
- Keyword Search
- Metadata
- Full Text
- Ranking

■ Registered User

- Item Registration
- Workflow

■ Moderator

- Item Type Mgmt
- Item Mgmt
- Index Tree Mgmt
- Review System
- Import
- Log Analysis
- WEKO Custom

Repository vs CMS

- ◆ Metadata Management
 - ◆ Granularity
- ◆ Search Function
 - ◆ Directory Search
 - ◆ Keyword Search
 - ◆ Simple Metadata Search
 - ◆ Detailed Metadata Search
 - ◆ Full Text Search
- ◆ Protocols
 - ◆ Metadata Exchange (ex. OAI-PMH)
 - ◆ Search (ex. Open Search)

Definitions

- ◆ **Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH)** is a set of specifications for making structured open repository metadata accessible to other service providers issuing requests
- ◆ **Uniform Resource Identifier (URI)** is a string of characters used to identify a resource. Such identification enables interaction with representations of the resource over a network, typically the World Wide Web, using specific protocols.
- ◆ **Digital Object Identifier (DOI)** is an identification system for intellectual property in the digital environment. Developed by the International DOI Foundation on behalf of the publishing industry, its goals are to provide a framework for managing intellectual content, link customers with publishers, facilitate electronic commerce, and enable automated copyright management

Take Home Remarks

- ◆ **Standards, Standards, Standards** in Library Information Management System
- ◆ To ensure documents or resources are **Discoverable** and **Sharable**
- ◆ **Single Common Platform** for Institutional Repository
- ◆ Archiving and Preserving **Organizational Institutional Memory**
- ◆ **Digital Rights Management (DRM)?**

**Journeying towards joint-development
for Malaysia and Japan moving towards
best of breed Europe's CERN Model of a
fully customisable
digital library, institutional repository,
multimedia archive, or research data
repository
on the web**