

Learning DSpace 7 and possibilities in the Information management world...



Gold DSpace Provider

DSquare Technologies, New Delhi

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About DSquare Technologies

- ✓ Registered Service Provider & Tier 1 Certified Partner for DSpace since 2014.
- ✓ 30+ deployments across Education, Judiciary, Public Sector Units, Central/State Government, Research, Healthcare, etc. verticals globally.
- ✓ Managing 98 million plus pages for the Indian Judiciary and volume incrementing at a rapid pace.
- ✓ Comprehensive technology Eco-system to manage journey starting from Data generation till conversion in the knowledge.

Our Accreditations...



GeM assessed DMS OEM



DPIIT Recognized Startup



DSpace Certified Partner

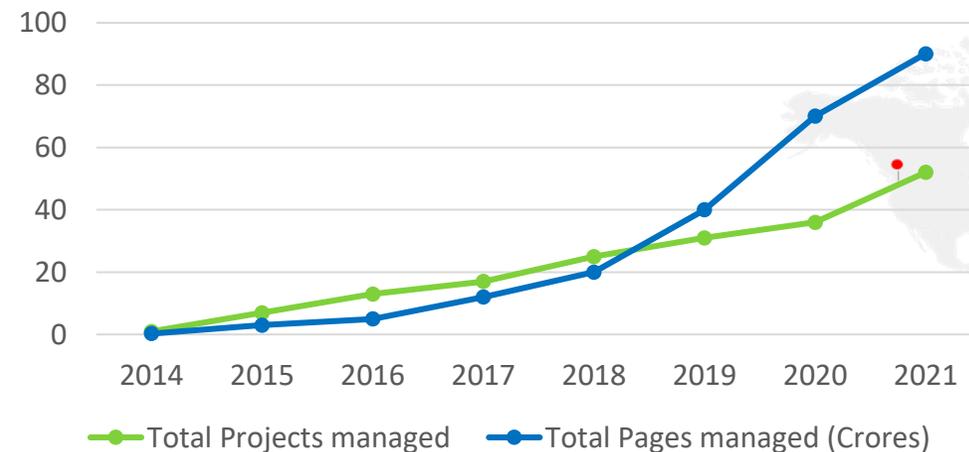
Numbers speaks about our experience & ecosystem

800 million documents managed across Judicial, PSU, Central/State Gov, Education, and Research.

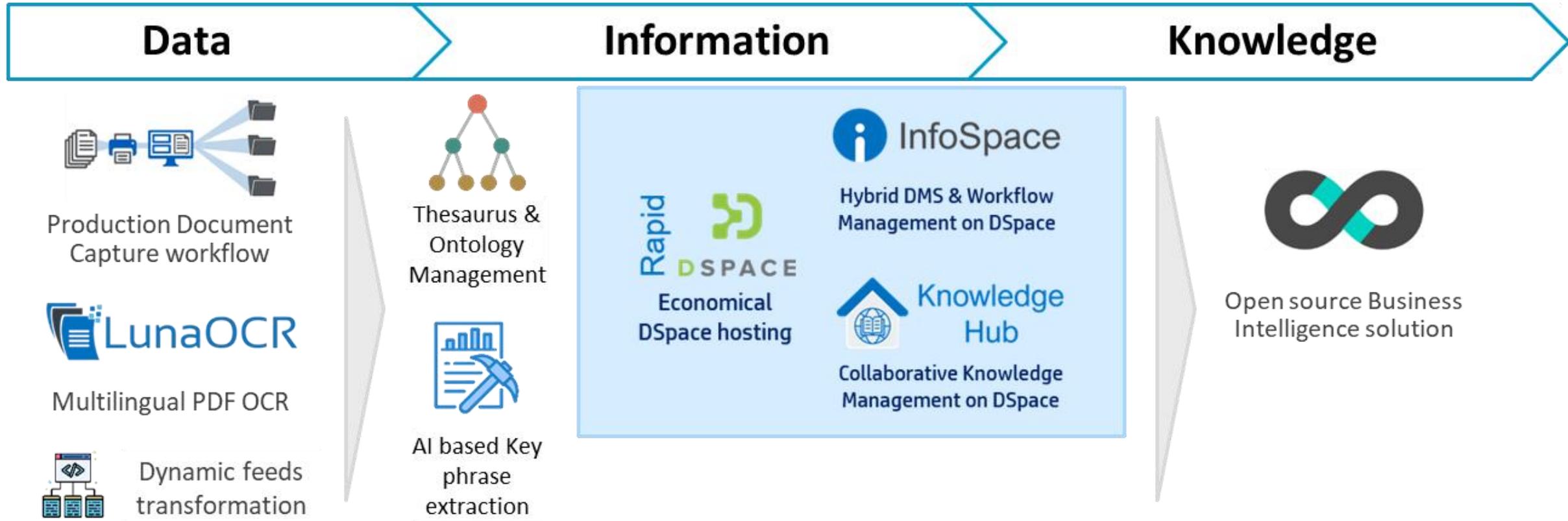
7 Vertical specific solutions for PSU, Government, Education, Research, Judicial, Healthcare, & Archives.

6 Value added solutions for Content Intelligence, Semantics & Multilingualism, Capture, Content Aggregation, & Data Visualization.

Our growth Journey



Eco system of Technologies helping in Data to Knowledge Journey...



DSquare Technologies Overview

Success stories...

The image displays a collection of logos for various organizations and institutions. The logos are arranged in a grid-like fashion, showcasing a wide range of clients and partners. The organizations include:

- Indian Educational Institutions:** IIMB (Tejswini Navadhitamastu), SFIO, Azim Premji University, CCAL (Chemfab Alkalis Limited), and eifl.
- International Organizations:** African Union, ASSAf (Academy of Science of South Africa), and Commonwealth of Learning (Learning for Sustainable Development).
- Legal and Government Bodies:** Supreme Court of India, High Courts of Gujarat, Orissa, Tripura, and Uttarakhand, Registrar General of India, and the Ministry of Education.
- Research and Development:** NCERT, ISS (Institute for Security Studies), and INSEAD (FORE School of Management).
- Health and Social Services:** Institute of Mental Health, National Institute of Immunology, and NCAER (National Universities Commission).
- Other Notable Organizations:** JSW, CSO Partnership for Development Effectiveness, Ataljee.org (Ataljee's knowledge bank), and Technovators.

Business Objectives of Digital Repository in Institutions

<p>1 Preservation</p> <ol style="list-style-type: none"> 1. Digital Preservation of Contents 2. Provide Content Lifecycle Support 3. Workflow for approving content submission 4. Defining Taxonomy 5. Defining Metadata 6. Capable of preserving multiple file types 7. Scalable system for managing large volume of content 	<p>2 Search & Distribution</p> <ol style="list-style-type: none"> 1. Multiple search options (parametric, full text) 2. Content Discovery 3. User experience management for easy content accessibility 4. Content accessibility across multiple platforms 5. Support for collaborative public services 	<p>3 Content Security</p> <ol style="list-style-type: none"> 1. Role based content access 2. Authorized viewing of contents 3. Prevention of unauthorized distribution of contents 4. Compliance with Copyrights requirements 	<p>4 Compatibility</p> <ol style="list-style-type: none"> 1. Compatibility across multiple platforms i.e. mobile, tablet, laptop etc. 2. Compatibility of contents across multiple environments 3. Industry standard preservation for contents interoperability 4. Possibility of integration with other systems for seamless working 	<p>5 Maintenance</p> <ol style="list-style-type: none"> 1. Possibility of data backup and restore by business users 2. Application version upgrade for staying up to the speed 3. Capable of avoiding single point of failure 4. Lesser dependency on IT for maintenance and change request management
		<p>6 Miscellaneous</p> <ol style="list-style-type: none"> 1. Archives specific solution 2. Monetizing contents 		

Evolution in Librarian profile

CONVENTIONAL LIBRARIANS

- Cataloguing and keeping track of library materials
- Advising academics on materials for their courses
- Making sure all users can access library resources & responding to requests from stakeholders
- Promoting the library's resources
- Managing budgets and projects

INFORMATION LEADERS

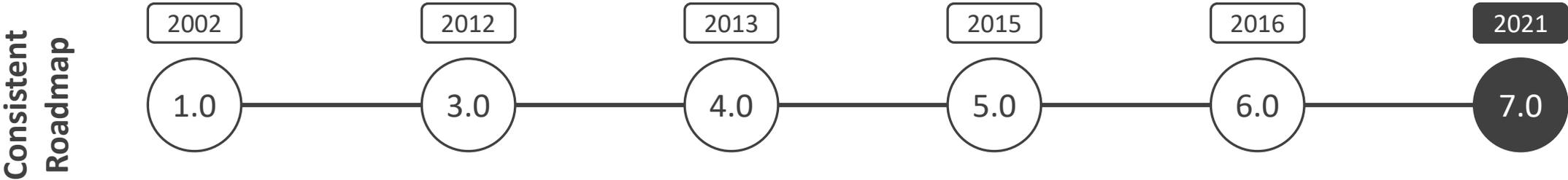
- Managing broader canvas to curate relevant content.
- Regulating information flow.
- Creating Information Architecture and intelligence around content.
- Focus shift from curating content to contextualizing information.
- Enabling content-based insights for decision making.
- Promoting both contents and policies.
- Addressing budgets and projects.



DSpace History

DSpace a fully open source information management platform developed by MIT & HP Labs in 2002. Improved since then by Community for Community to manage millions of records.

Managing entire life cycle of your information
Capture – Organize – Preserve – Disseminate securely



User Base
3,000+ listed installations



Geographical Presence
~ 140 Countries



Indian User Base
~ 300 listed installations



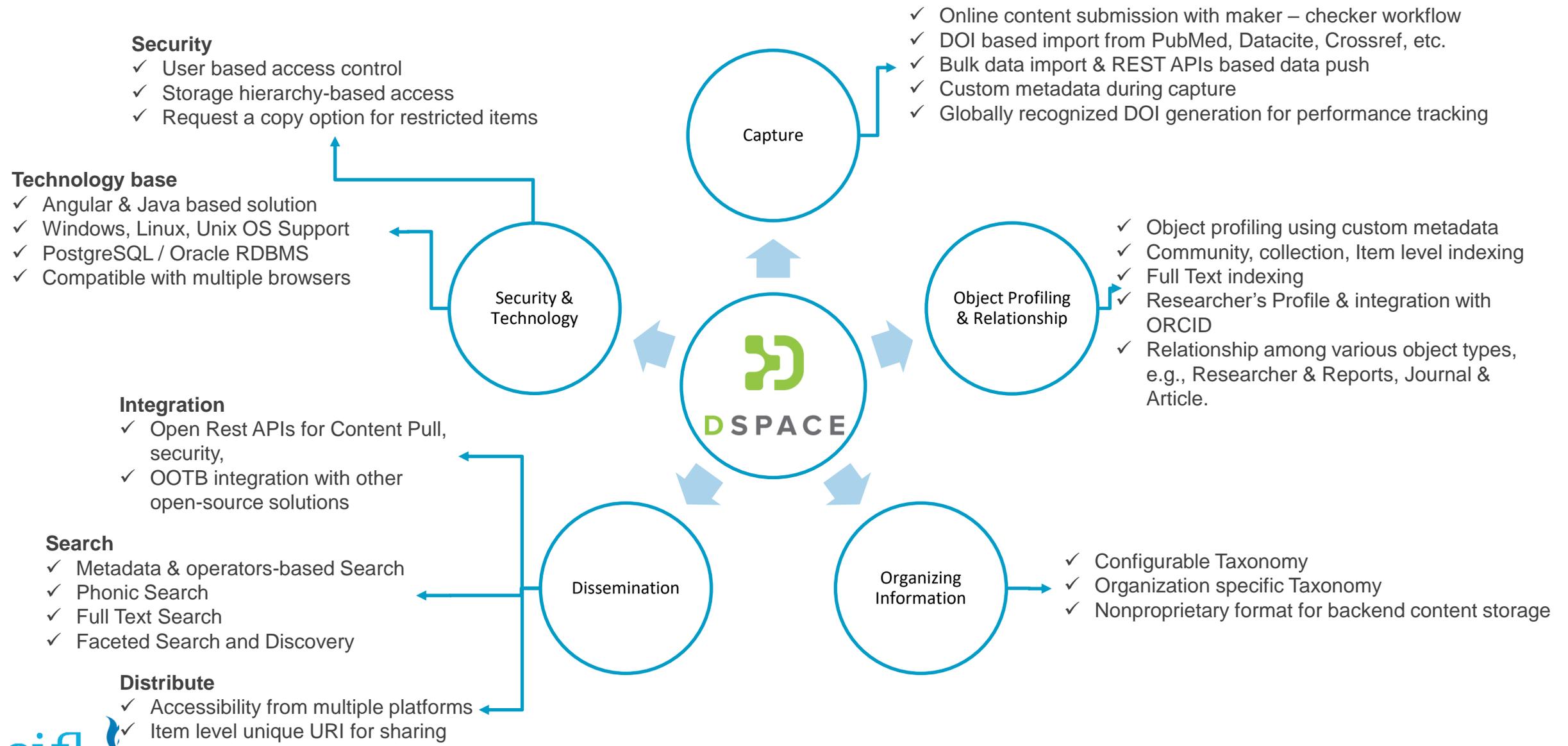
Code Contributors
140 listed contributors



User Support
Registered Service Providers
Well established community forums

DSpace 7

Functional Overview



DSpace 7

Key Highlights...

BUSINESS USE

- ✓ Entities framework enabling profiling of different object types and contextualizing information.
- ✓ Metadata import from prominent sources like Crossref, ORCID, Web of Science, etc.
- ✓ Consent management introduction for GDPR and other PII related requirements.
- ✓ International Image Interoperability Framework (IIF) Support added.

TECHNICAL USE

- ✓ Developed using Java Springboot and Angular.
- ✓ Independent backend and frontend applications integrated using REST APIs adding to scalability and flexibility.
- ✓ Upgraded Solr search engine version and decoupling from core DSpace for better utilization of the search engine.
- ✓ Enhanced integration with external applications.

Above is merely the tip of the iceberg, visit DSpace 7 release notes for more details

<https://wiki.lyrasis.org/display/DSDOC7x/Release+Notes>

Time for action.... DSpace 7
walkthrough and hands-on practice.

Betterment possibilities in DSpace 7

Few examples

- Advanced Search page with Boolean options
- "Did you mean" doesn't exist on search page
- Search Facets on all Home, Community, and Collection pages
- Search Facet customizations per Community or Collection

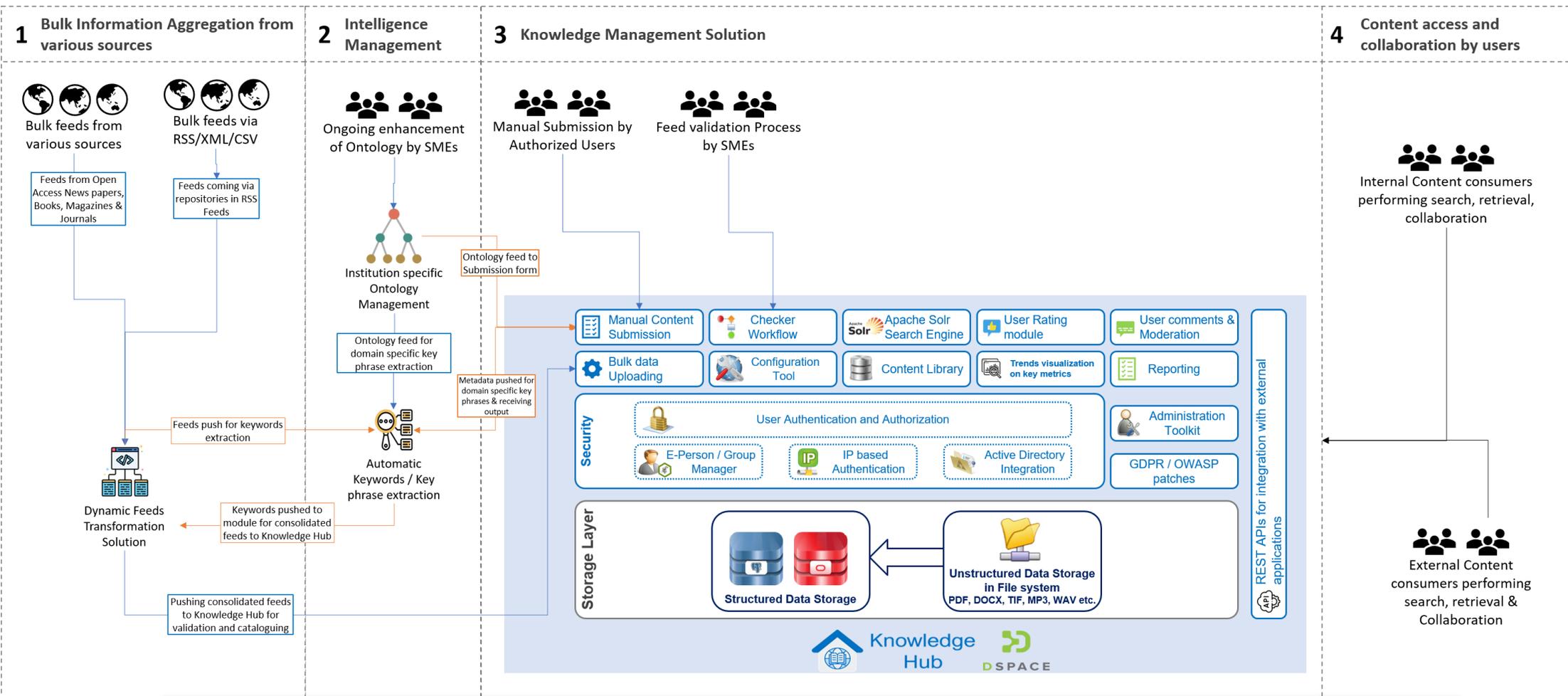
DSpace

from Digital Library to the Information Management Platform...



Climbing the Information Management maturity curve

Eco-system around Knowledge Management

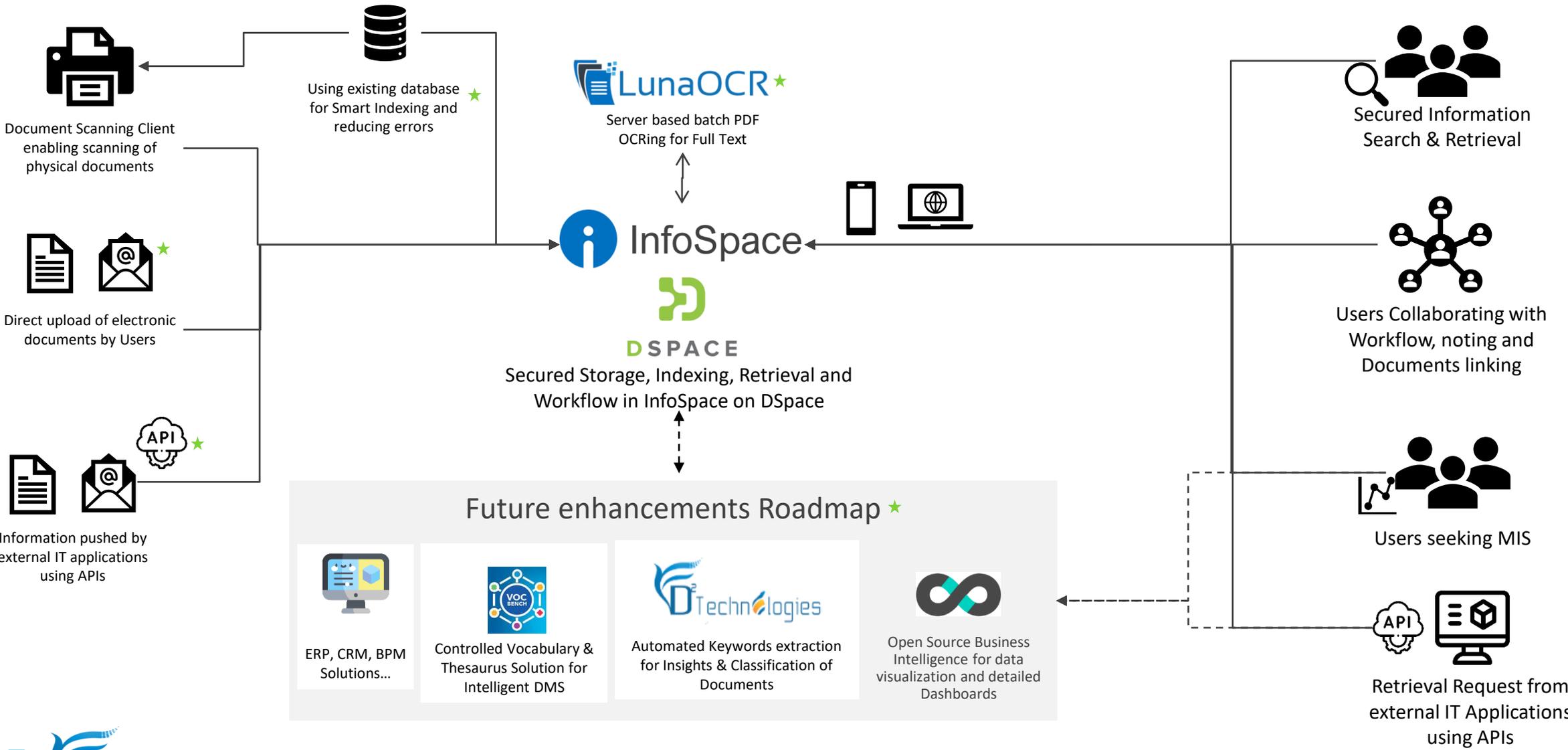


D2Technologies DSpace provides entire Ecosystem around DSpace platform helping institutions at different level of its maturity curve in moving to the next level. Institutions can pick modules of its choice in flexible services model as per priorities.

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Climbing the Information Management maturity curve

Office Document Management use case



Ontology Management

Key Features & Benefits

Key Features

1. **Configurable Keywords** / Key Phrase Vocabulary by authorized users.
2. Provision of **defining relationships between terms** - Thesaurus / related / synonyms from other languages etc. for enhanced indexing/searching
3. Possibility of **importing external vocabularies** on standard SKOS/RDF standards
4. **Support API based integration** with multiple applications
5. **Access control** management and **auditability** of actions performed
6. Tight integration with **AI based insights extraction** and automated indexing in the case file management

Benefits

1. Central solution for **managing domain specific ontologies** and can be utilized across different applications and courts
2. Scalable model for concepts management
3. Empowering **subject experts to manage domain specific ontologies with lesser dependency on IT resources**
4. **Addressing issue of semantics and managing uniform metadata creation across organization**
5. Enhanced analytics and conversion of data in knowledge
6. Base dataset for automated classification of documents or keywords/phrase extraction
7. **Reusable dataset for future expansion** in Machine learning and Artificial intelligence.

Ontology Management

Prominent domains using the solution

On the Web

Vocabularies are often used in building the information architecture for websites, data repositories, information systems, thereby providing terms for indexing and retrieval of information objects.

Public health and medicine

Public health and medicine have CVs in various forms (terminologies, thesauri, ontologies) for defining categorizations and classifications for biomedical investigations, diseases, symptoms, medical errors, etc.

GLAM (Galleries/Libraries/Archives/Museums)

GLAM (Galleries/Libraries/Archives/Museums) have used CVs for a very long time to describe their objects and resources, build catalogues and information systems.

Biology & other scientific disciplines

CVs are widely used in biology for classification of living organisms (e.g. taxonomies of living organisms, classifications of cross-species anatomical entities).

International Organizations

Actively use CVs to standardize terms and translations in international affairs. The most notable examples are the United Nations terminologies translated into six main languages of the UN to eliminate ambiguity in terms used in international communication.

Computer science

Data mining, knowledge extraction, or conversation AI use CVs to classify entities and objects in text or speech recognition (Named Entity Recognition and Named Entity Disambiguation, e.g. CVs used to categorize intent in conversation with a robot).

Ontology Management

Making content intelligent

The screenshot shows a web application interface for ontology management. At the top, there is a navigation bar with 'Home', 'Browse', and 'About CYI'. Below this, a search bar contains 'Browsing by "Subjects" (Showing results 1 to 1 of 1)'. A search input field is labeled 'Enter few Characters' with a magnifying glass icon. A pagination control shows '1' of 1 results. The main content area is enclosed in a dashed orange box and features the following sections:

- Selected Concept *Artificial Intelligence***
 - Description: Artificial intelligence (AI), the ability of a digital computer or computer-controlled robot to perform tasks commonly associated with intelligent beings.
- Narrower Concepts**
 - [Machine Learning](#)
 - [Deep Learning](#)
- In other languages**
 - [Intelligenza artificiale](#)
 - [Intelligence artificielle](#)
 - [कृत्रिम होशियारी](#)
- Related Terms**
 - [Classification](#)
 - [Natural Language Processing](#)
 - [Robotics Process Automation](#)

Below the dashed box, a book recommendation is shown with the cover of 'HOW HUMANS JUDGE MACHINES' by Agapiou, Agapios and Georgoulas, Aristides. The book is categorized as 'Book' and has 2 likes, 13 views, 1 star, and 0 comments.

A yellow callout box with an orange arrow pointing to the dashed box contains the text: 'Above details to be pulled from VocBench'.

We are listening...

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