



# DSpace 7 Roadmap & Community Updates

OR2022

June 6-9, 2022 - Denver

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By

Tim Donohue, DSpace Tech Lead

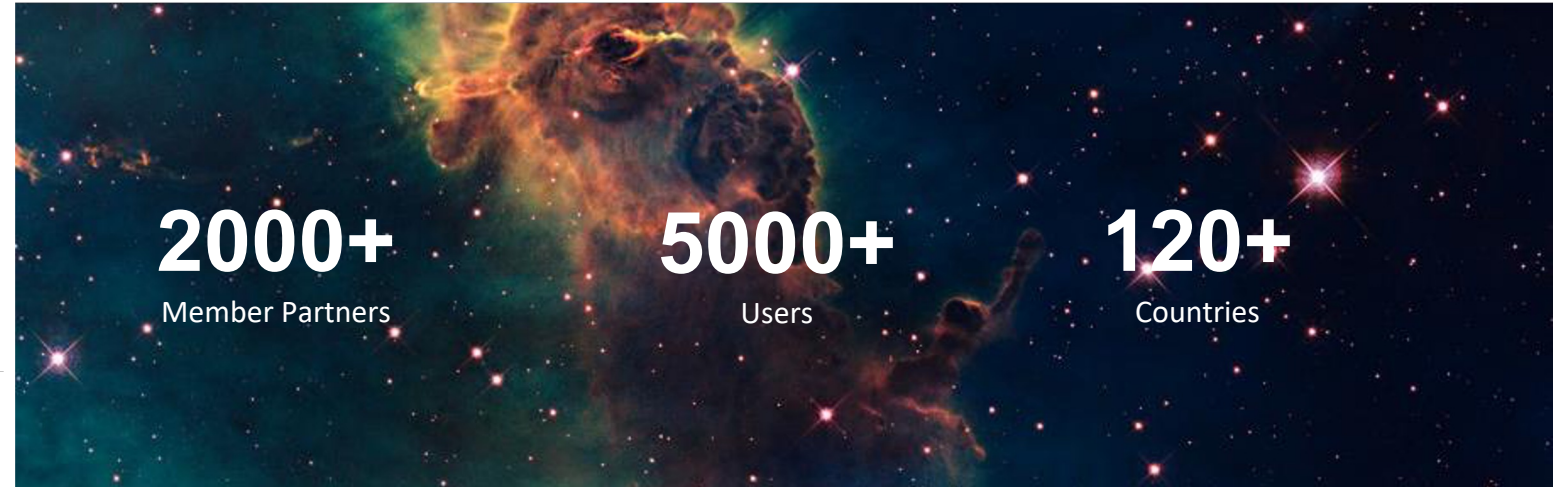
Michele Mennielli, Senior Global Strategist

# About LYRASIS

Not-for-Profit



Open Source



# Open Source Community Supported

Software built by, for and with communities

Identify with common needs

Affordable



DSpace

ORCID

VIVO

connect • share • discover

DataCite

CONNECTING RESEARCH,  
IDENTIFYING KNOWLEDGE

Fedora™

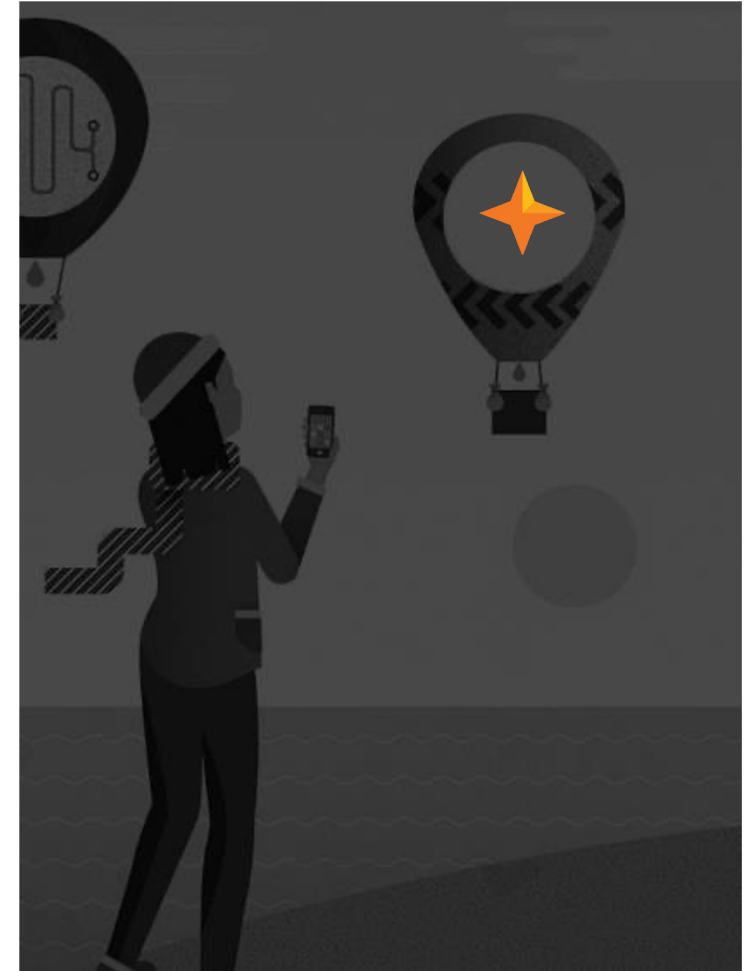


ArchivesSpace

a community served by LYRISIS

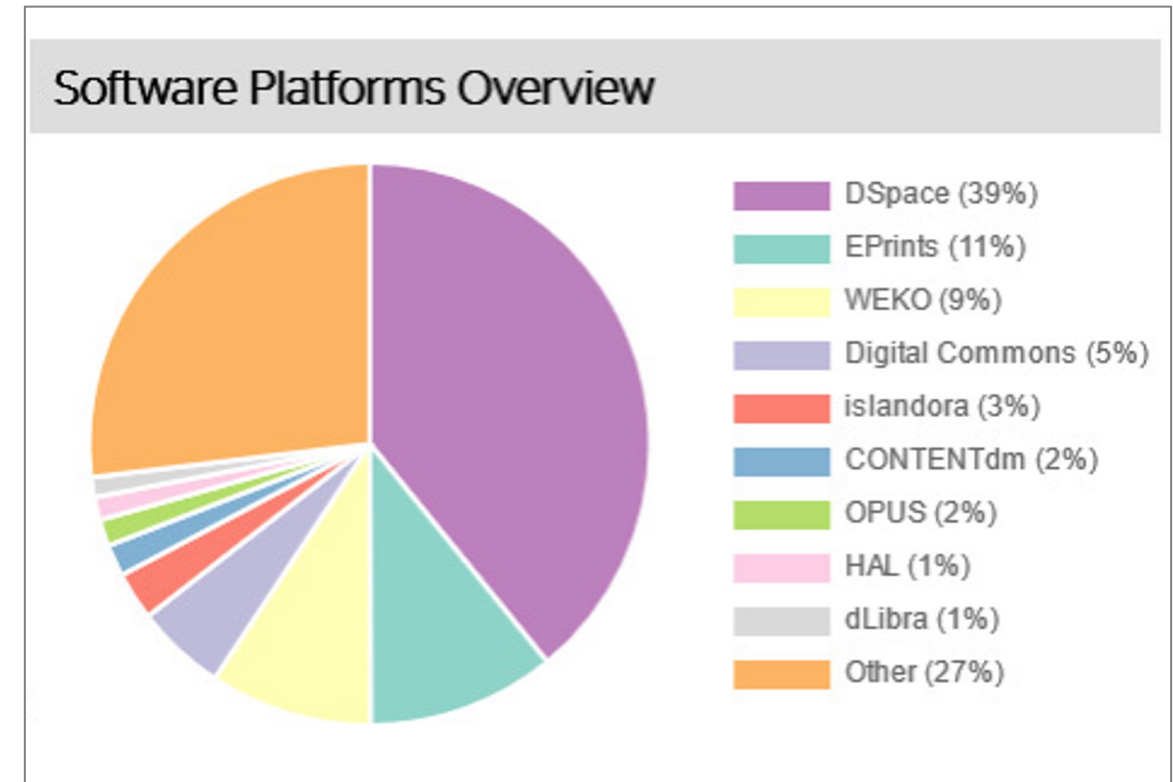
collectionspace

a community served by LYRISIS



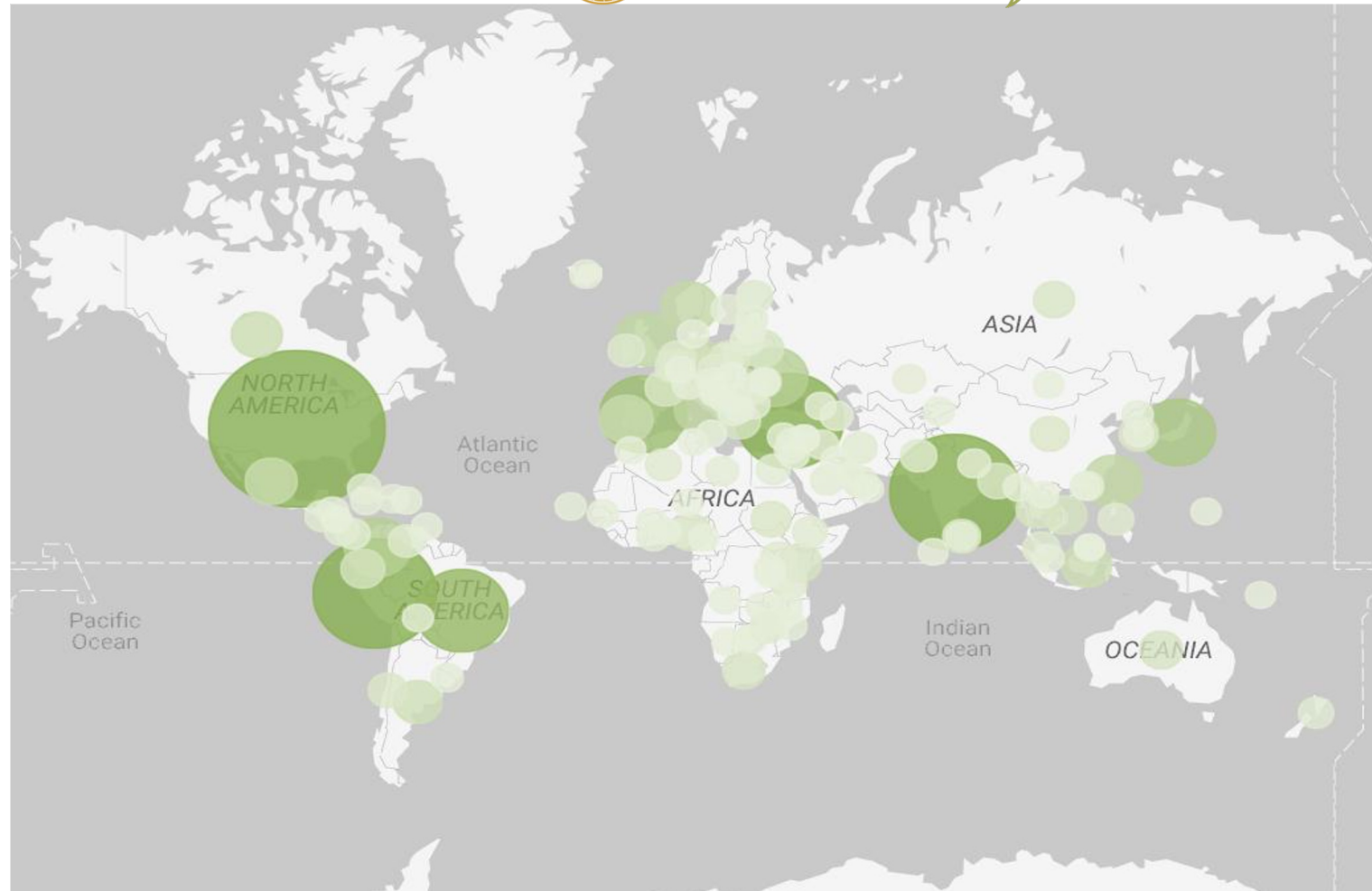


- **The most widely adopted repository**
- **Not just a software, but a global community**
- **It evolves with its users**



# The DSpace Community

 >3,500 Installations       >120 Countries       >20 Languages



*\*Based on the DSpace Registry*

# DSpace Members



Cornell University Library



Texas Digital Library

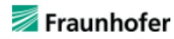


UNIVERSITY OF MINNESOTA

University of Minnesota Libraries



ETH Zurich, ETH Library



Fraunhofer  
Fraunhofer Gesellschaft zur  
Förderung der angewandten  
Forschung e.V.  
(as member of the German  
Consortium)



Fundacao para a Ciencia e a Tecnologia  
Fundacao para a Ciencia e a  
Tecnologia, I.P./Foundation for  
Science and Technology, I.P.



Imperial College London



Indiana University Purdue  
University Indianapolis Libraries



National Library of Finland



The Ohio State University Libraries



University of British Columbia



University of Cambridge,  
Cambridge University Library



University of Kansas Libraries



University of Toronto



Cineca

Dalhousie University Libraries



Duke University Libraries



Hamburg University of Technology  
(as member of the German  
Consortium)



Laval University – Université Laval



Pennsylvania State University  
Information Technology Services

University of Arizona Libraries



University of Calgary



University of Edinburgh and  
Edinburgh University Data Library  
(EDINA)



University of Hong Kong



University of Ottawa



# Dspace Service Providers



DSpace is a platform built by and for its community.

Governance is based on a representative, community-based membership model incrementally rewarding members who have made the greatest commitments to the program



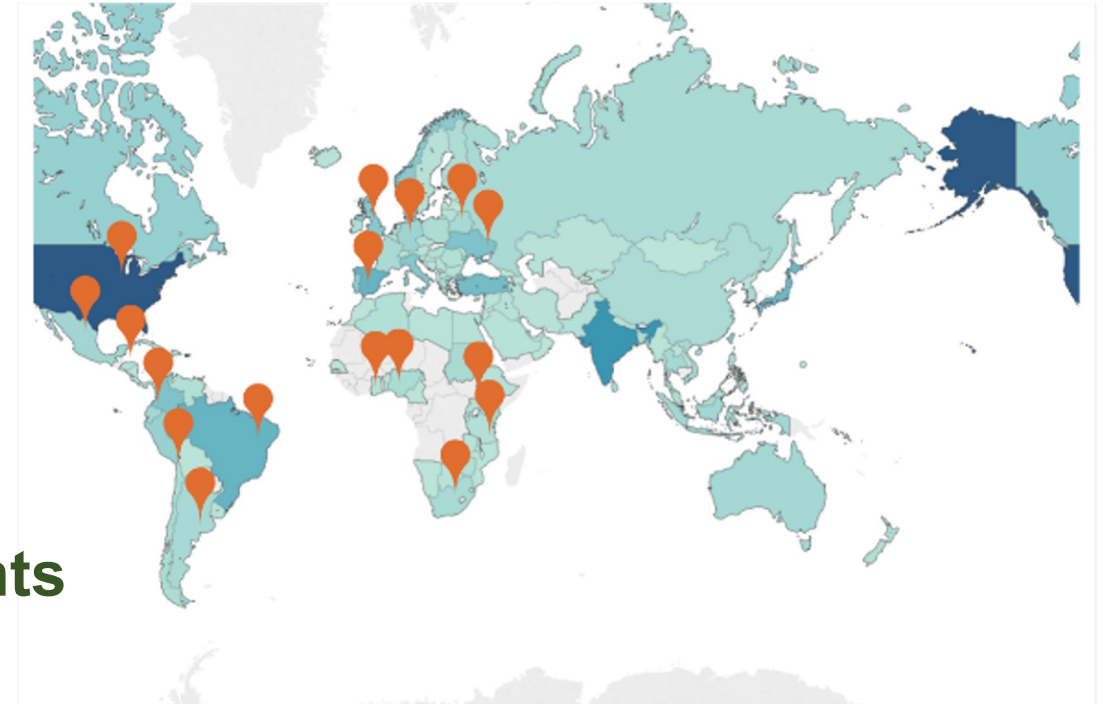


## 23 [National User Groups](#)

- Slack channel: [#dspace-XX](#)
- [UG WIKI pages](#)
- Mailing list

## Country webinars and in-person events

- **>30** [webinars](#)
- **+3000** people
- **16** countries
- **5** languages
- **5** in-person meetings



Map based on Longitude (generated) and Latitude (generated). Color shows sum of Number of Records. Details are shown for Country.

# Why DSpace 7

01

Single User Interface (built on Angular.io)

- Redesigned, modernized, themeable
- Enhanced User Privacy (GDPR alignment)
- WCAG 2.1 AA alignment

02

Fully-featured, integration-ready REST API

03

Support for OpenAIRE v4

04

Configurable Entities (Person, Project, Publication, etc)

05

Can upgrade from any prior release of DSpace (after installing the new UI)

06

Aligning with COAR Next Generation Repositories

- Coming soon: Signposting, ResourceSync, Notify Project implementation

07

Backwards compatible with existing integrations

- Still includes OAI-PMH, SWORD (v1/v2), old REST API (v6), etc

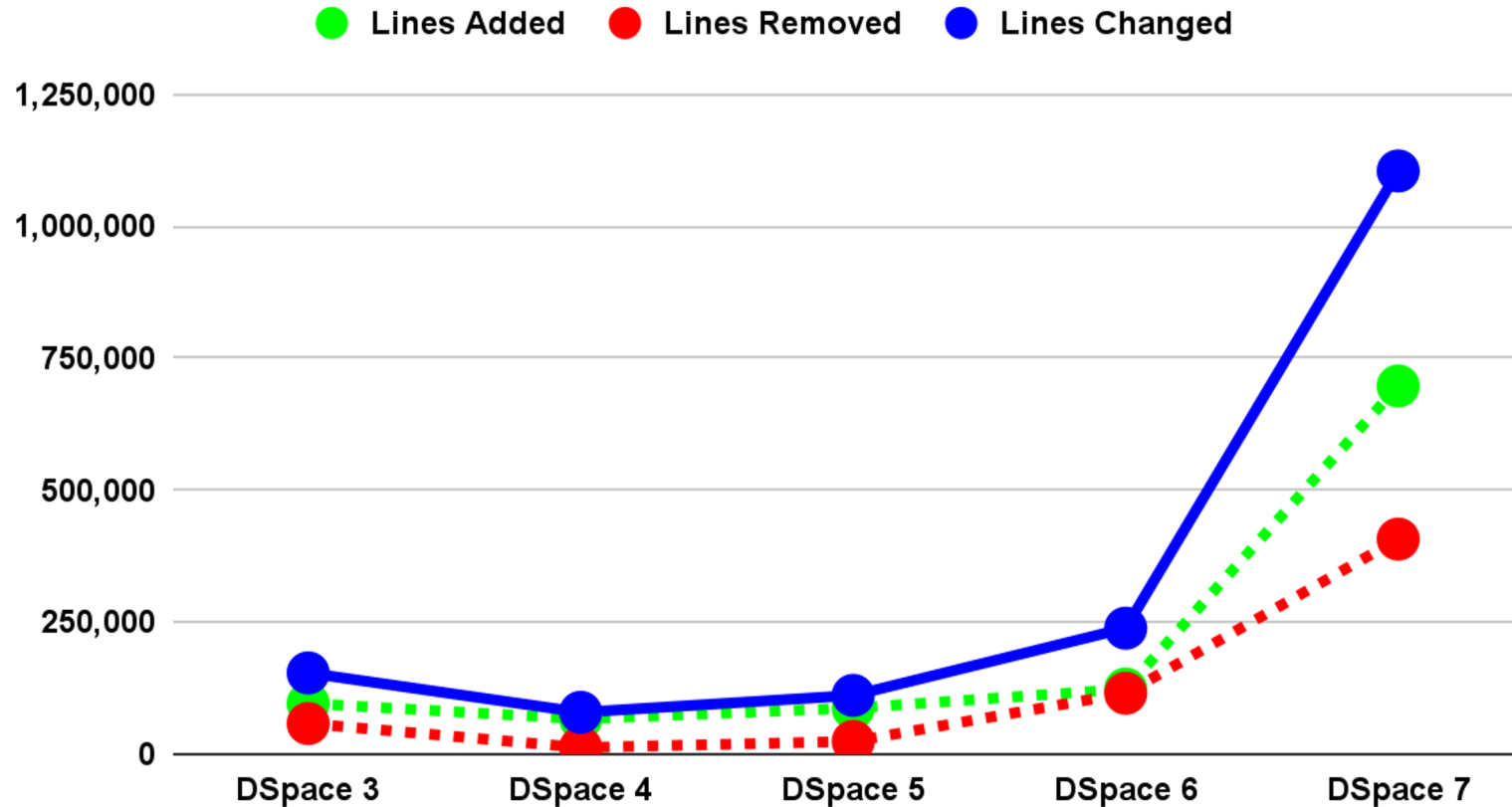
08

Secure & stable out-of-the-box

- Every code change has automated tests (Test Driven Development)
- Every code change is automatically scanned for security vulnerability

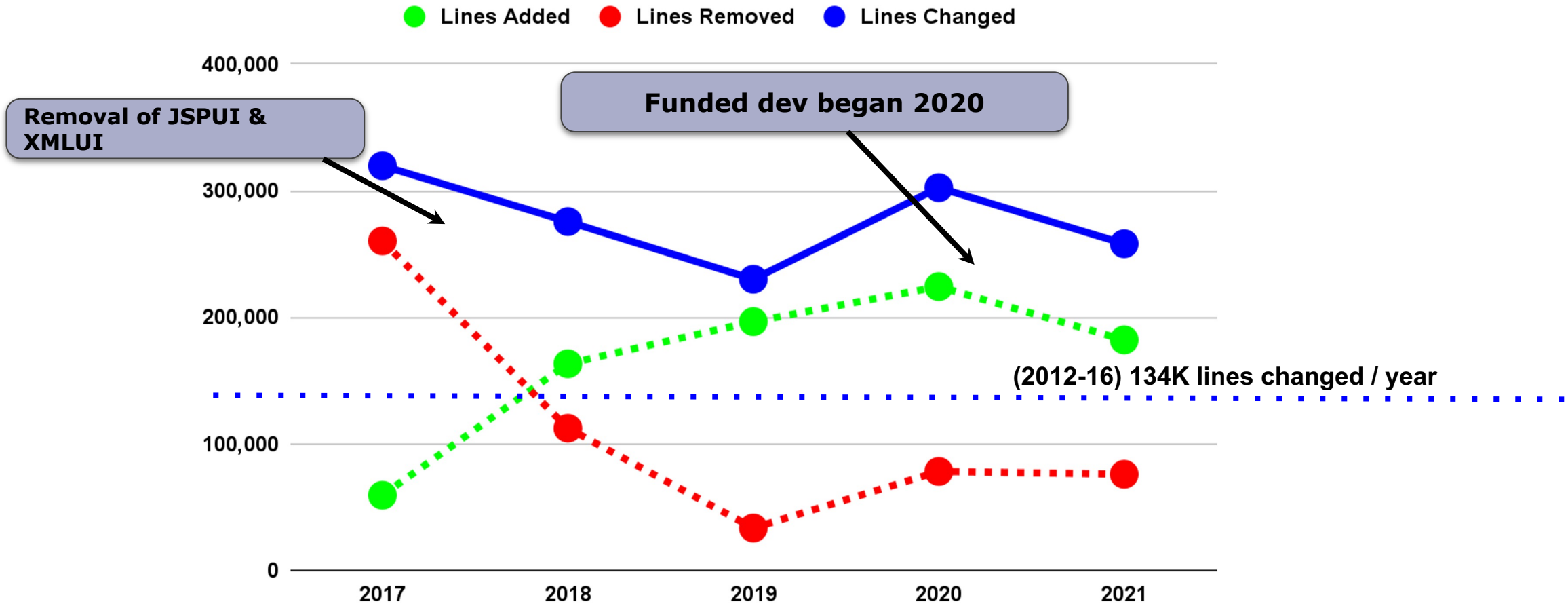
# DSpace 7 Development per Year

## Lines of Code Changed per Major Release



***Bigger than last 4 major releases combined!  
(Roughly 7 times larger than an average release)***

# DSPACE 7 - the largest release in History



## •7.0 (Aug 2021)

- **New User Interface** (redesigned search, deposit & admin tools)
- **New REST API** (all data/features available for integrations)
- **OpenAIRE v4 support**
- **Configurable Entities** (Person, Project, Publication, etc)



New  
Features

## •7.1 (Nov 2021)

- **IIIF Support**, Request a Copy, Item Versioning, OAI Harvesting

## •7.2 (Feb 2022)

- **Runtime configs for User Interface**, Item embargoes, Feedback form, **OpenID Connect Auth**

## •7.3 (by June 27, 2022) (*tentative feature list*)

- **Importing data from 10+ new sources** (CrossRef, Scopus, etc)
- Admin Control Panel
- Deposit: Sherpa/Romeo & type based submission
- **ORCID authentication & syncing with a Person Profile**

## •7.4 (Oct 2022) (*features to be decided from [priority ranking](#)*)

# DSPACE 7.3 (tentative) Features

- *ORCID authentication & sync to Researcher Profile*
  - Login via ORCID, and easily create (or claim) a Researcher Profile page in DSpace.
  - Optionally sync that Profile with your ORCID account.
- *Admin Control panel*
  - “Health” reports which let you know if any parts of DSpace are not functioning properly
- *Import content from any of the following systems*
  - CrossRef, Scopus, CiNii, NASA Astrophysics Data System (ADS), Web of Science, VuFind.org, PubMed Europe, SciELO.org, European Patent Office (EPO)
- *Features migrated from 6.x (all new to 7.x)*
  - Preview / Validate Batch Metadata CSV changes during upload
  - Submission forms support display of SHERPA/RoMEO publisher policies when an ISSN is entered.
  - **Submission forms support type-based fields.** Based on selected “Type” (dc.type), the form may dynamically add/change metadata fields.
  - Preview items during workflow approval
  - RSS / Atom feeds for Site, Community, Collection
  - Withdrawn Item tombstone page
- *Configurable Entities support Versioning*
- Performance improvements : initial page load is much quicker!
- And a lot of bug fixes...

## Admin Control Panel - "Health"

Diagnose possible issues in your DSpace.

of DSpace ▾ Statistics



Demo Site Administrator  
(dspacedemo+admin@gmail.com)

Profile

MyDSpace

Log out

# DSpace 7

DSpace is the world leading open source repository platform that enables organisations to

- easily ingest documents, audio, video, datasets and their corresponding Dublin Core metadata
- open up this content to local and global audiences, thanks to the OAI-PMH interface and Google Scholar optimizations
- issue permanent urls and trustworthy identifiers, including optional integrations with handle.net and DataCite DOI

Join an international community of [leading institutions using DSpace](#).

The test user accounts below have their password set to the name of this software in lowercase.

- Demo Site Administrator = dspacedemo+admin@gmail.com
- Demo Community Administrator = dspacedemo+commadmin@gmail.com
- Demo Collection Administrator = dspacedemo+colladmin@gmail.com
- Demo Submitter = dspacedemo+submit@gmail.com

Photo by @inspiredimages

Search

## Communities in DSpace

Select a community to browse its collections.

Now showing 1 - 4 of 4



Compound Journals

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Photo by @inspireimages

Search the repository ...

🔍 Search

## Communities in DSpace

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Compound Journals



# Support for Type-based Fields

*Based on the Type selected, other fields may appear!*



Home • MyDSpace

Drop files to attach them to the item, or [browse](#)

Collection Sample Collection ▾

Add more +

Describe



Author

Donohue, Timothy



Enter the author's name (Family name, Given names).

+ Add more

Title \*

My Thesis

Enter the main title of the item.

Other Titles

Other Titles



If the item has any alternative titles, please enter them here.

+ Add more

Date of Issue \*



Publisher

Publisher



Discard

Saved

Save

Save for later

Deposit

# DSpace 5 & 6 “end of life” in 2023

*DSpace 5.x support will end on Jan 1, 2023*

*DSpace 6.x support will end on July 1, 2023*

Why?

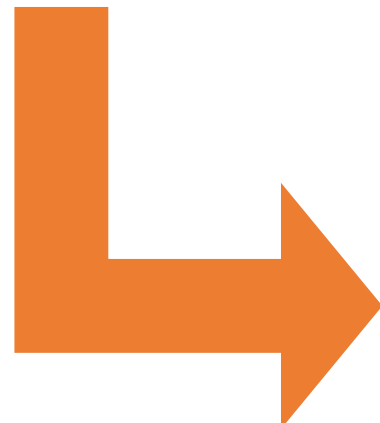
- 5.x was released in 2015. 6.x was released in 2016.
- Both platforms have become difficult to support/maintain - many underlying libraries are “end of life”, and cannot be upgraded safely.
- Concerns that future security vulnerabilities may not be fixable.

Questions? Visit [Support for DSpace 5 and 6 is ending in 2023](#)

*We recommend all institutions upgrade to DSpace 7 as soon as possible.*

## Working Group's primary recommendations for DSpace's governance groups to consider:

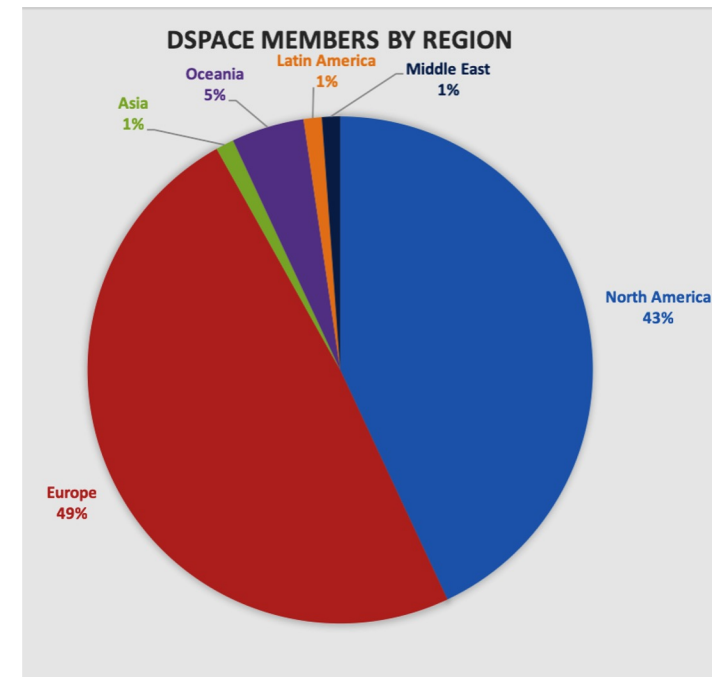
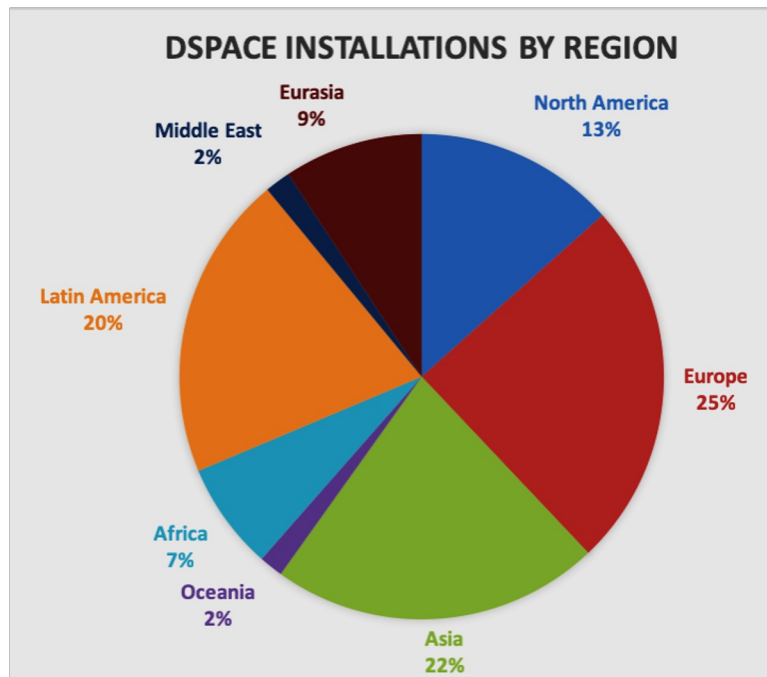
1. Modularize the DSpace architecture
2. Empower users
3. Explicitly conform to selected standards and international initiatives



[DSpace Product Visioning WG Report](#)

# The Community needs you

>3,000 *known* instances **VS** 95 Members



**Open Technologies need your support and contribution: development and membership**

# How can you help?

- [Become a Member](#) of DSpace
- [DSpace Development Fund](#)
  - ◆ Trusted service providers funded to do development for community
  - ◆ Priorities decided by Steering/Leadership
- Contribute code, review or test in [DSpace 7 Working Group](#)
- Contribute to “[Learning DSpace](#)” / discussions in [DCAT](#)
- Help market DSpace in [DSpace Marketing Interest Group](#)
- Join (or create) your local [DSpace User Group](#)
- Try out DSpace 7 : <https://wiki.lyrasis.org/display/DSPACE/Try+out+DSpace+7>



# Why does DSpace need you?

**Siloed**



**Systems**

**Lock**



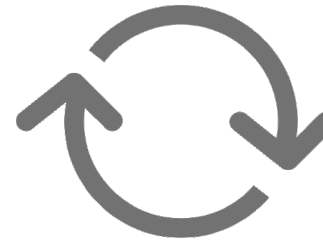
**In**

**Long-term**



**Sustainability**

**Redundancy**



**Duplication**

**Lack of**



**Engagement**

**Disorganized**



**Collaboration**

# It is Our Responsibility

Open Source is not free, it is a collective responsibility

We need to adopt global standards for exchange, share and access information globally

We need to think about the big picture, the ecosystem we're serving, and build an Open Ecosystem



A Repository is a strategic tool that supports the institutional mission of an organization

A repository is not a static archive but a dynamic "data agorà"

We need to globally support interoperability to allow data flow



Join us for a free webinar on July 13 10AM ET

## DSpace 7 Q&A

with Tim Donohue, Technical Lead for DSpace

▶ Wednesday  
**JUL 13, 2022**  
10 AM ET



Scan to register

- Common questions will be answered
- Additional live questions will be welcome
- Free opportunity to ask questions to Tim Donohue, DSpace Tech Lead

Questions for webinar can be added immediately to <https://tinyurl.com/2022-dspace7-QA>





# Thanks!

# Time for questions

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Tim Donohue - [tim.donohue@lyrasis.org](mailto:tim.donohue@lyrasis.org)

Michele Mennielli - [michele.mennielli@lyrasis.org](mailto:michele.mennielli@lyrasis.org)