

REIMAGINING DSpace ANALYTICS

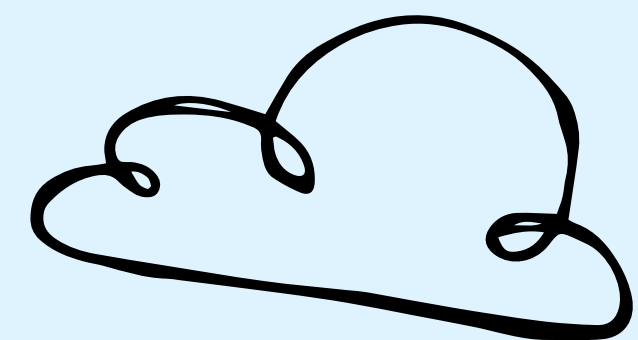
A BLUE-SKY APPROACH TO ACCESSIBLE, AUTHOR- CENTERED METRICS

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DSpace has seen significant advancements with versions 7 and 8, particularly in feature development. While built-in analytics tools provide basic insights, repository managers often rely on various external solutions to demonstrate repository value and impact.

This proposal presents a blue-sky framework for enhancing analytics in future versions, emphasizing accessibility compliance, granular usage metrics, and author-centered analytics. Drawing from recent development experience at the University of Oregon, we seek to initiate discussions about forming a DSpace Analytics Interest Group to foster community-driven development and define essential features.

This collaborative approach aims to create comprehensive, integrated analytics solutions that meet the diverse needs of the global DSpace community while addressing challenges such as bot traffic mitigation and impact assessment.

FROM REACTIVE TO PROACTIVE

Ad-hoc reporting

Scrambling for data when requests come in

Tool fragmentation

Google Analytics + SOLR logs
or Matomo!

Response delays

Time-consuming manual compilation for each request

Limited author engagement

Authors rarely see impact of their work



Anticipatory dashboards

Ready answers for common questions

Author-centered metrics

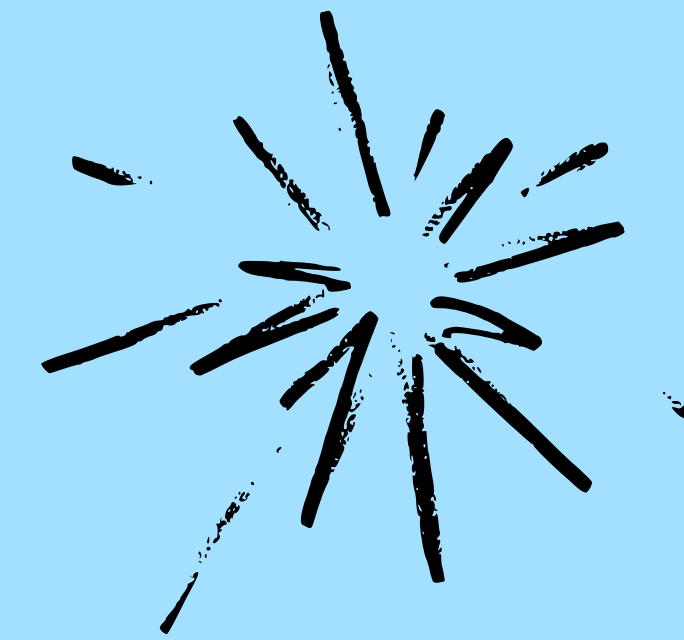
Real-time feedback encourages participation

Automated insights

Smart alerts for trending content, unusual patterns

Community storytelling

Data that highlights institutional impact



CRITICAL FEATURES

Multi-format exports

CSV, JSON, PDF reports (because everyone wants data differently and into different systems)

Privacy-first design

GDPR & accessibility compliance from the ground up

Stakeholder dashboards

Different views for each of the stakeholders identified here

Smart notifications

Subscribe to alerts that actually matter

Flexible reporting

Custom views, timeframes, and detail levels on-demand

BLUE-SKY ENHANCEMENTS

Storage demand prediction

Analytics-driven infrastructure scaling

Event correlation

Link usage spikes to conferences, media coverage, policy changes

Aggregated behavioral insights

Understand user journeys without tracking individuals

Social impact tracking

Beyond downloads: measuring real community engagement and societal reach building on Susan Bolton's framework for expanded engagement metrics, see uolib.link/boulton for article

STORYTELLING FOR STAKEHOLDERS

Library & University Administrators

- ROI justification - Hard numbers on repository value and growth trends
- Strategic planning - Predict resource needs before you hit capacity
- Compliance reporting - OA mandate tracking that doesn't require spreadsheet wizardry

Researchers

- Impact visibility - See your work's reach beyond citation counts
- Community building - Discover collaborators in your field (or fascinating adjacent ones)
- Participation incentive - Real-time feedback that makes depositing worthwhile

Repository Service Managers

- Collection intelligence - Understand what's hot, what's not, and why
- Outreach targeting - Focus efforts where they'll have maximum impact
- Stakeholder communication - Data stories that resonate with every audience

Librarians

- Faculty engagement - Numbers + narratives = compelling conversations
- Research visibility - Concrete evidence of library value to campus research

Technical Support Staff

- Infrastructure optimization - Usage patterns that inform smart scaling decisions
- Maintenance priorities - Data-driven decisions about where to focus resources

SPARKING AN INTEREST (GROUP)

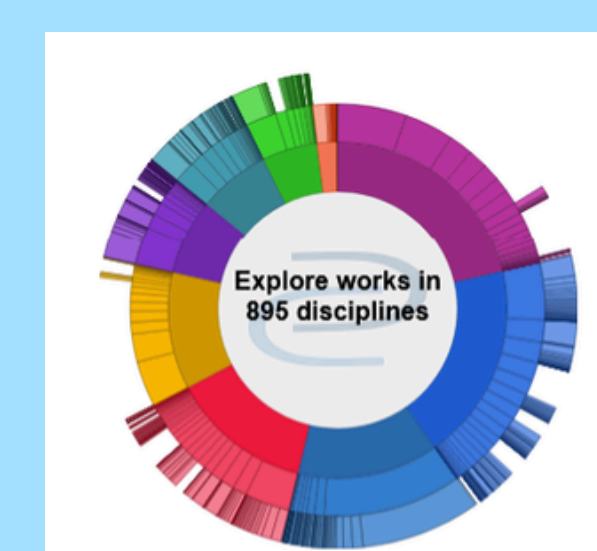
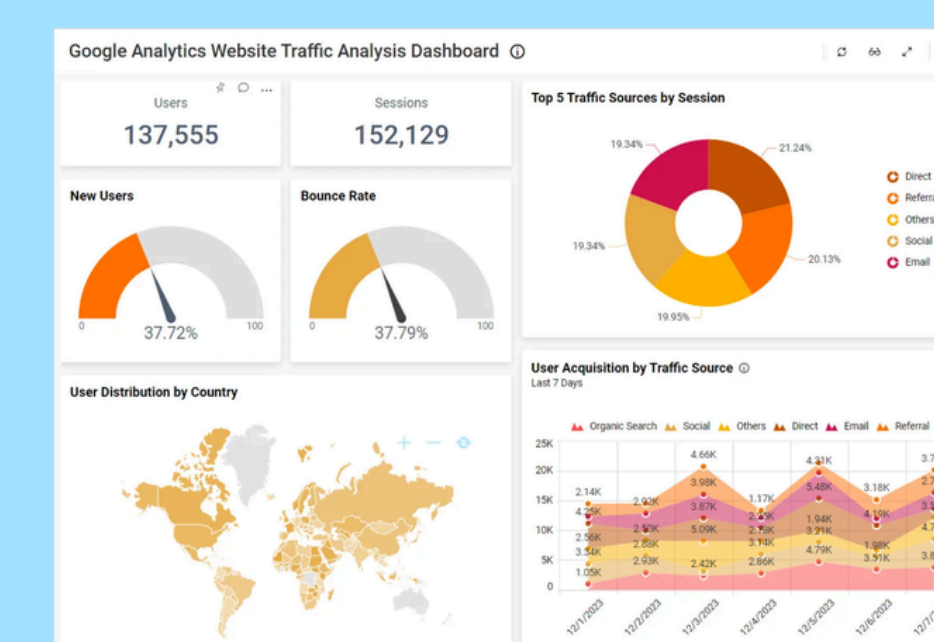
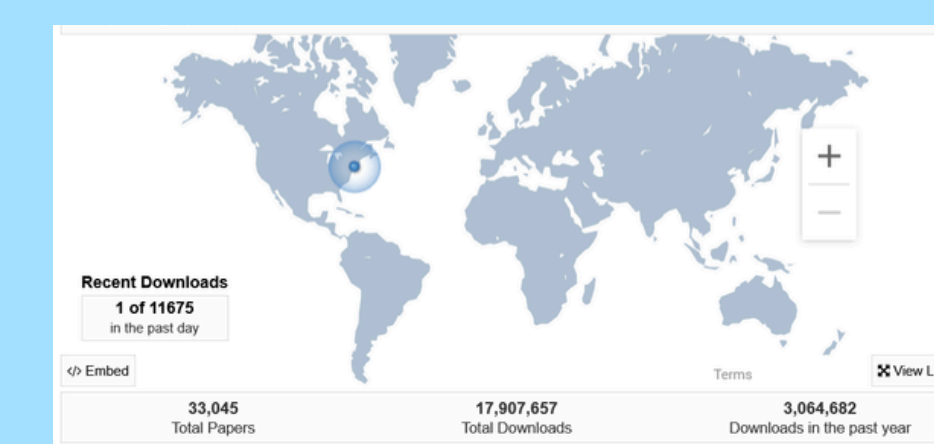
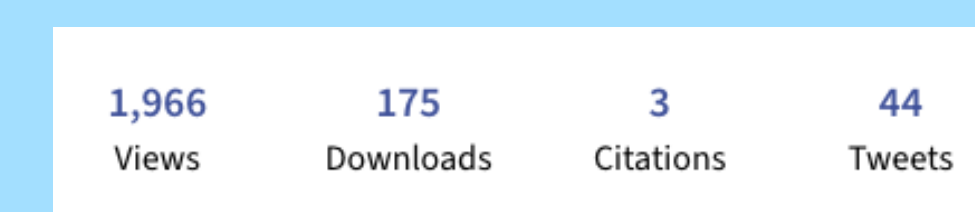
Major advances with the most recent versions of DSpace create additional analytics integration possibilities

Community momentum - Multiple institutions independently tackling similar challenges creating community momentum

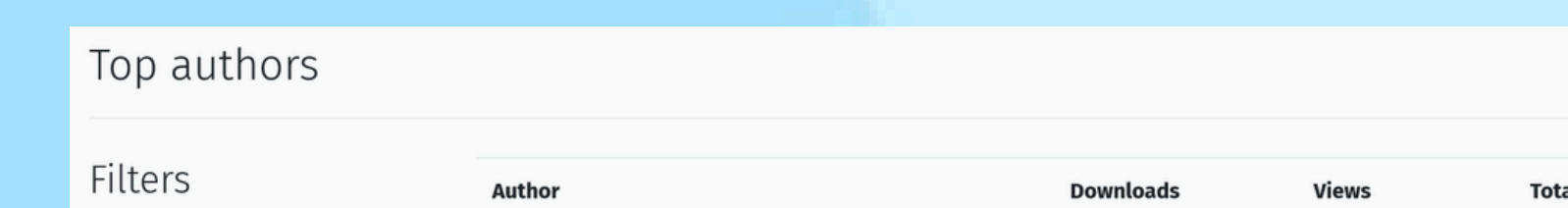
Other Interest Groups successfully drive DSpace development. Why not analytics?

Our recent development experience at the University of Oregon sparked our proposal. Let's build together instead of in isolation.

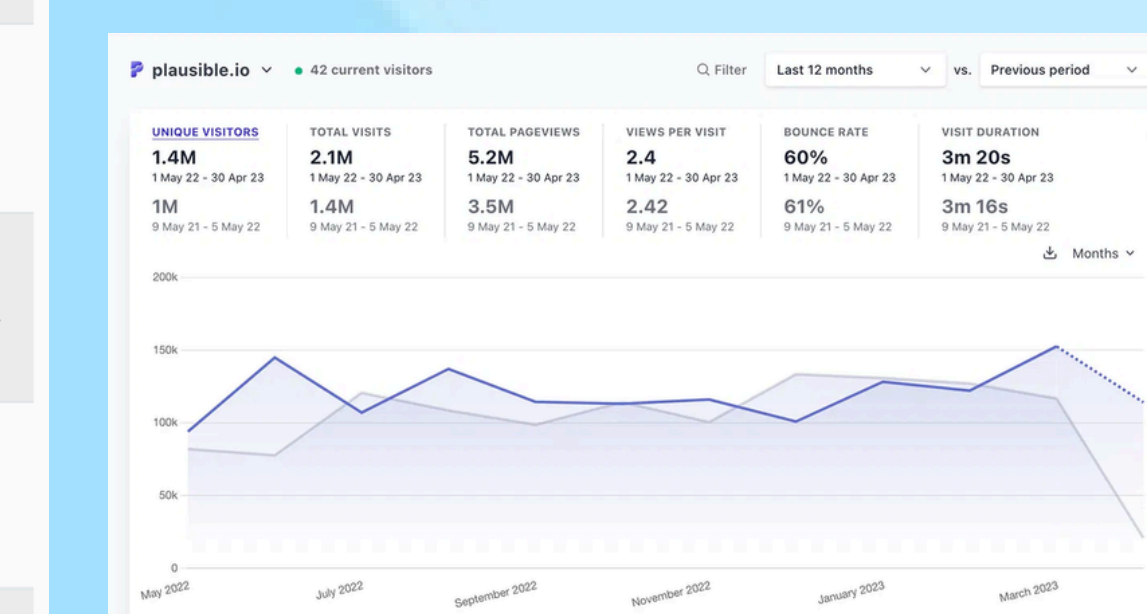
Better analytics shouldn't require reinventing the wheel at every institution.



Flying items from Loughborough University's Research Repository



Downloads	Views	Total
160,616	6,426	167,042
126,058	9,835	135,893
103,421	8,691	112,112
30,284	199	30,483
48,897	2,984	51,881
27,840	915	28,755
32,903	29,250	62,153
39,557	16,652	56,209
32,829	886	33,715
25,784	14,825	40,609



246 total views of outputs
136 total downloads of outputs
1 views of outputs this month
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Country	File downloads	Item views	Sum
United States	9,780,860	21,430,552	31,211,212
China	6,774,305	4,546,685	11,320,990
Germany	1,887,828	1,355,308	3,243,136
France	931,136	1,906,961	2,838,097
India	911,457	301,311	1,212,768
United Kingdom	846,684	327,773	1,174,457
Canada	625,260	1,153,416	1,778,676
Japan	486,358	216,169	702,527
South Korea	429,800	249,307	679,107
Russia	388,411	397,018	785,429