

# Towards Easy Deposit: Building a System to Automate Green Open Access

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# Agenda

- The journey of prompting open access at Oregon State University
- Why we decided to develop the Easy Deposit 2 system
- How Easy Deposit 2 works
- Results and discussion
- The challenges to green open access
- Future plan



# Oregon State's University-Wide Open Access Policy

- In 2013, Faculty senate approved the open access (OA) policy initialized by the library
- Faculty should send manuscript to library
- Library will deposit the manuscript into the university's IR
- However, the deposit rate is LOW at **12.2%**

## Oregon State University Open Access Policy

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In recognition of Oregon State University's land-grant mission, the Faculty is committed to disseminating its research and scholarship as widely as possible. In addition to the public benefit of such dissemination, this policy is intended to serve faculty interests by promoting greater reach and impact for articles. Based on these guiding principles, the Faculty adopts the following policy: Each Faculty member grants to Oregon State University permission to make available his or her scholarly articles and to reproduce and distribute those articles for the purpose of open dissemination. In legal terms, each Faculty member grants Oregon State University a nonexclusive, irrevocable, royalty-free, worldwide license to exercise any and all rights under copyright relating to each of his or her scholarly articles, in any medium, and to authorize others to do the same, provided that the articles are not sold for a profit. This policy is not intended to

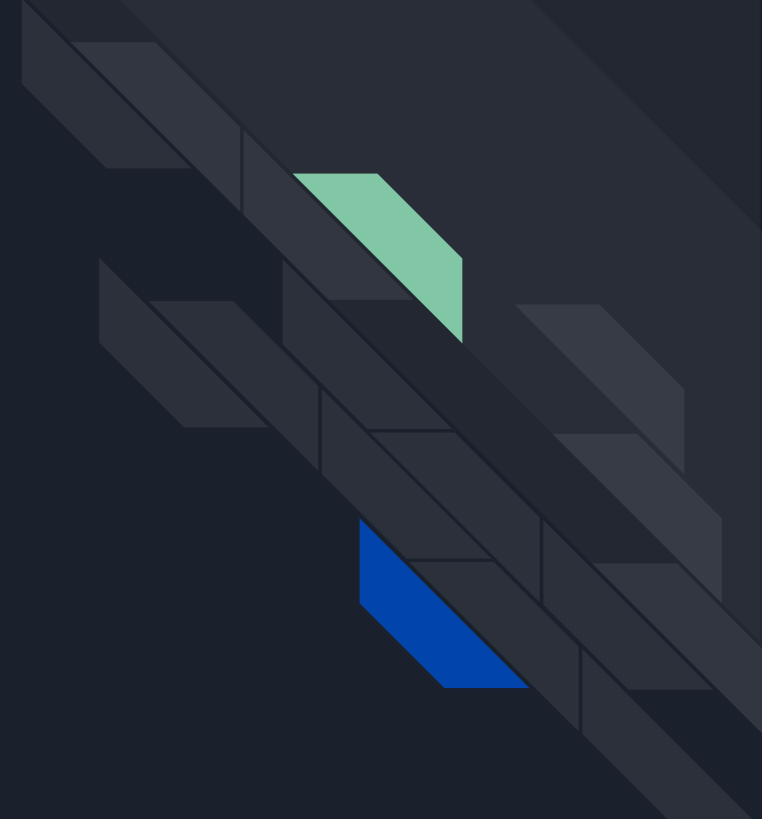
The policy applies to all scholarly articles authored or co-authored while the person is a member of the Oregon State University Faculty and completed after the adoption of this policy. At the request of a Faculty member via an online form, the OSU Faculty Senate Library Committee, as the Provost's designate, will waive application of the license for a particular article, or delay access to a particular article for a specified period of time.

To assist the University in distributing the articles, each Faculty member will provide an electronic copy of the accepted (post-peer review, pre-typeset) manuscript of the article at no charge to the appropriate representative of the OSU Libraries in an appropriate format as may be specified by the OSU Libraries (such as PDF). The OSU Libraries may make the article available to the public in its open access repository.

In coordination with the Provost's office, the Faculty Senate Library Committee will be responsible for interpreting this policy, resolving disputes concerning its interpretation and application, and recommending changes to the Faculty from time to time. The Library Committee will

Faculty Feedback:

Too much effort for  
depositing articles into  
IR.



# Early Green OA Support at Oregon State

- Library dedicates one full time staff to outreach and deposit articles for faculty
- Deposit rate does increase to about 44% but it is **not sustainable**



# Easy Deposit 2 is the Reboot of Our OA Support

Starts with real-world problems:

- Human resource
- Oregon State's institutional repository migrated to a new platform
- Green OA deposits rate to ScholarsArchive@OSU is down to single digit between November 2017 to October 2018

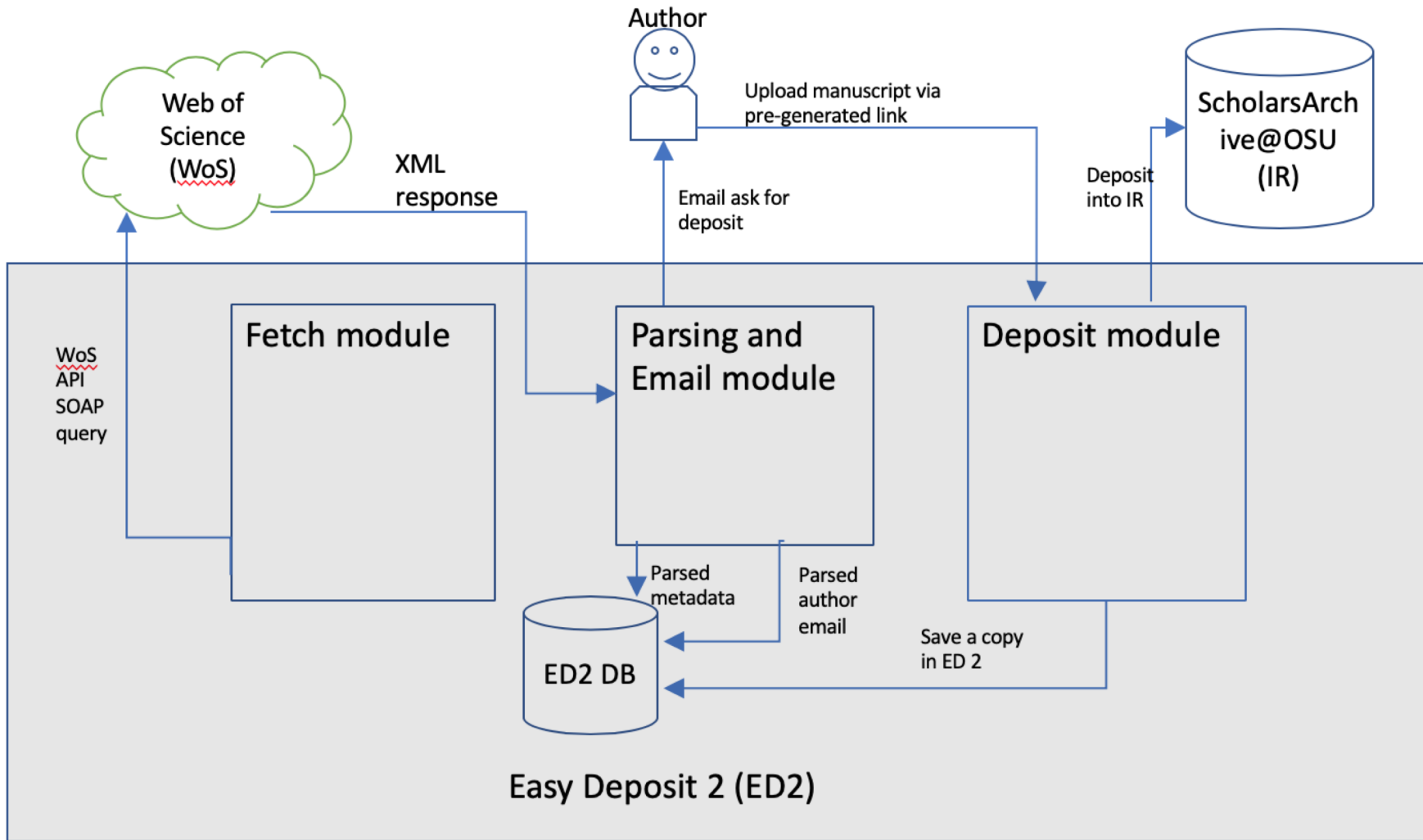
Easy Deposit 2 (ED2) will automate major steps for green OA workflow by data integration:

- Harvesting, outreach, and deposit
- As institute's database for publications and green OA management



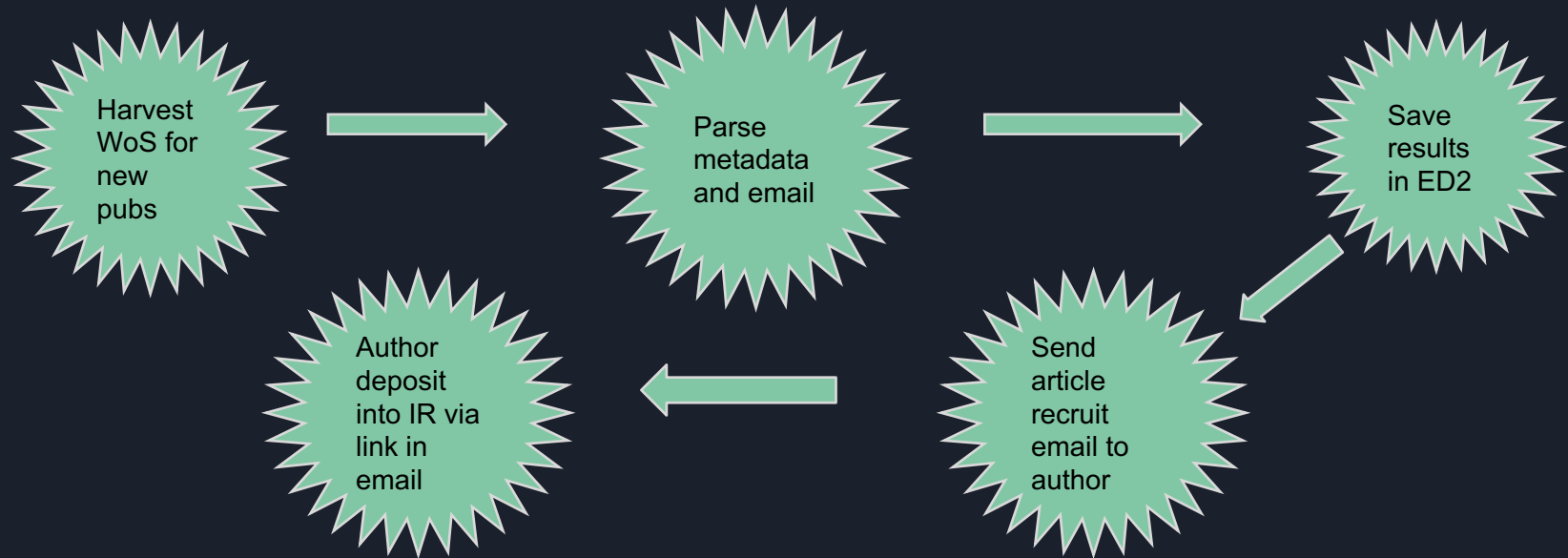
Author







# ED2 Workflow Consists of a Sequence of Events



ED2 is an Web Application built on Ruby on Rails, and it uses various Ruby gems.

Communicate with WoS API:

- Savon
- Nokogiri

Administration UI:

- Rails\_admin

Storage management:

- Active\_storage

State (event) management:

- aasm

<https://github.com/osulp/Easydeposit2>



# Now Making Article Deposit is as Easy as Clicking Links

Oregon State University Library invites you to deposit your recent publication: WOS:000453579200012



hui.zhang@oregonstate.edu <hui.zhang@oregonstate.edu>

Zhang, Hui

Thursday, January 3, 2019 at 10:04 AM

[Show Details](#)

## Congratulations on your new publication!

### *Structure and role for active site lid of lactate monoxygenase from Mycobacterium smegmatis*

The link below will take you to a customized page where you can quickly upload and publish your article to ScholarsArchive@OSU. Please have a PDF of your publication ready. For guidance on what version of the article you are allowed to upload, see our [deposit guide](#).

Use this link to deposit your publication into ScholarsArchive: <http://ed2-dev.library.oregonstate.edu/claim/4102f9eb0dc64e0a774dc478020e292629b5198fa15e81bc60411d652b65fe55>

### Why do this?

OSU's Faculty Senate passed an [Open Access Policy](#) in June 2013. As part of OSU's Open Access Policy, faculty are asked to deposit their journal articles into ScholarsArchive@OSU. This makes your research publicly available and increases the reach and impact of your scholarship.

Questions? Please visit the [help page](#) for more information or follow up with us at [scholarsarchive@oregonstate.edu](mailto:scholarsarchive@oregonstate.edu)

Sincerely,  
OSU Libraries Digital Repository Team

# Textural property and cell wall metabolism of 'Golden Bosc' and 'd'Anjou' pears as influenced by oxygen regimes after long-term controlled atmosphere storage

(fingerprint) f7d10d942a8eef01eca60d79c8dbf3e1bb7d24a4425f8b70d5287adceacac703

Published to ScholarsArchive@OSU on 2019-03-25 21:50:55 UTC

<https://ir.library.oregonstate.edu/concern/articles/q524jv232>

Attribute	Value(s)
wos_uid	WOS:000459827400004
abstract	Controlled atmosphere (CA) allows long-term storage of European pears ( <i>Pyrus communis</i> L.) without chemical treatment to deliver a natural melting (buttery and juicy) texture for consumers. However, the relationship between textural properties and cell wall metabolism as influenced by O-2 regimes has not been comprehensively determined. In this study, 'Golden Bosc' and 'd'Anjou' pears were stored in 21 (air), 2, 1, or 0.5% O-2 with < 0.5% CO2 for up to 8 and 10 months at -1.1 degrees C plus 7 d of ripening at 20 degrees C, respectively. Melting texture development in both cultivars showed high correlations with the level of water-soluble polyuronides (WSP) and activity of beta-galactosidase (beta-GAL). Also, activities of pectin methylesterase (PME) and alpha-arabinofuranosidase (alpha-ARF) were associated with softening in 'Golden Bosc' pears. Concentrations of CDTA-soluble polyuronides (CSP) and WSP + CSP + sodium carbonate-soluble

## Attached Files

[1-s2.0-S0925521418310391-main.pdf](#)

## Processed Events

Publish Work Notification Email

[scholarsarchive@oregonstate.edu](mailto:scholarsarchive@oregonstate.edu)



2019-03-25 21:50:55 UTC : Email initiated by scholarsarchive@oregonstate.edu at 2019-03-25 14:50:56 -0700

Publish Work

[scholarsarchive@oregonstate.edu](mailto:scholarsarchive@oregonstate.edu)



2019-03-25 21:50:47 UTC : Published to the repository at 2019-03-25 14:50:55 -0700

File(s) added

[scholarsarchive@oregonstate.edu](mailto:scholarsarchive@oregonstate.edu)



2019-03-25 21:50:37 UTC : 1-s2.0-S0925521418310391-main.pdf

Send article recruit with email saved in AuthorPublication



2019-03-13 07:02:03 UTC : Article author recruitment email completed by scholarsarchive@oregonstate.edu at 2019-03-13 00:02:03 -0700

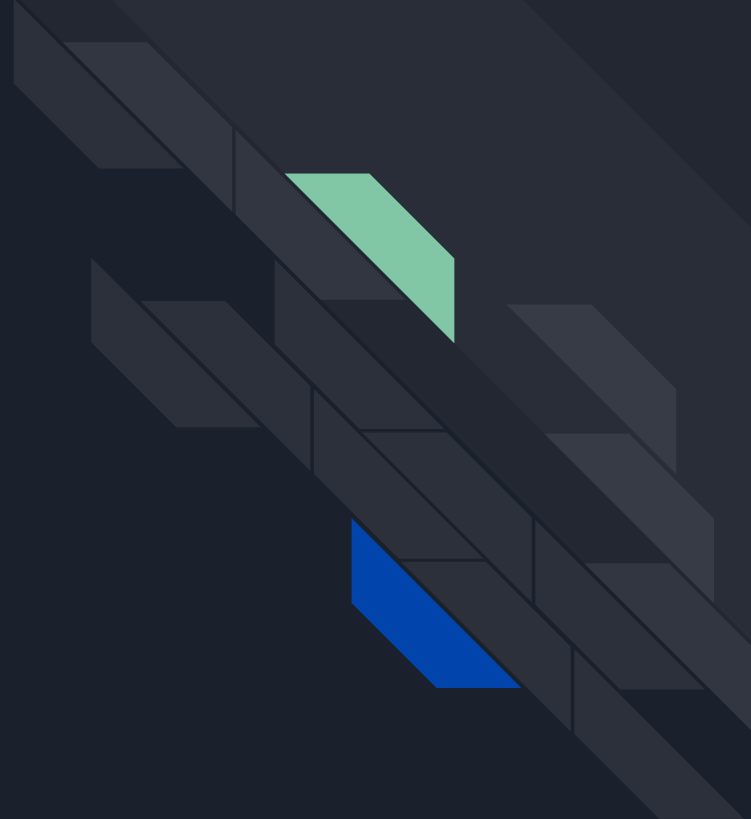
Fetch publication content from Web of Science



1,845

313

\$70K



ED2: 17%

Mediated deposit:  
44%


Self deposit: 5-10%

A decorative graphic on the right side of the slide depicts a staircase with several steps. A green arrow points downwards from the top right, and a blue arrow points upwards from the bottom right. The background is dark blue with a subtle pattern of overlapping rectangular shapes.



# Discussion

- A piece of software such as ED2 can make the support of green open access be more efficient and effective.
- But the fundamental challenge to the success of green open access is researcher participation. And it is a job that no software alone can achieve.



# The Success of Open Access Requires a Change in the Research Culture

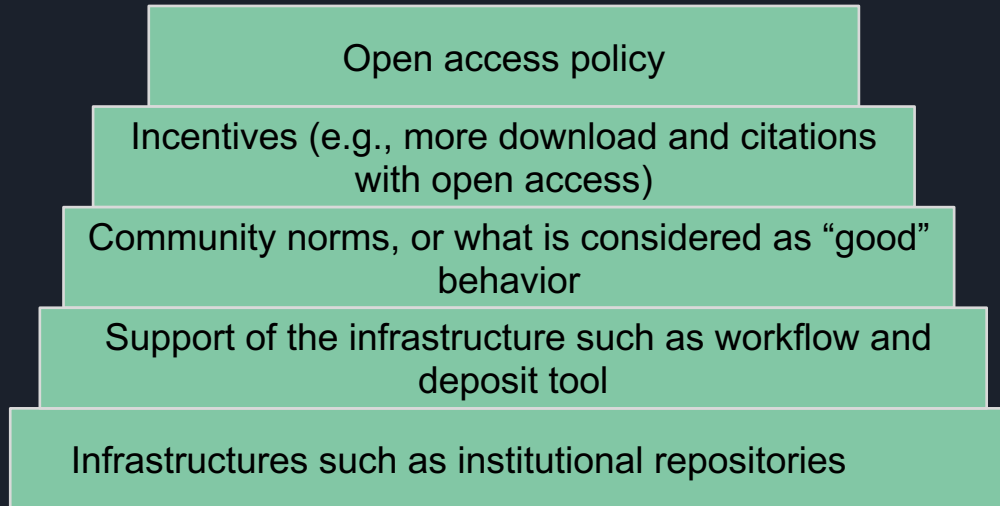
Nosek, Brian (@BrianNosek) “How can we change the research culture so that behaviors supporting open, reproducible science are the default? There are five nested components to achieving cultural change.”. Jan 6, 2018, 1:35pm.

<https://twitter.com/briannosek/status/949756218817630208?lang=en>





# Five Nested Components to Achieve Cultural Change





# Future Plan to Promote OA at Oregon State

## Community Norms:

- Outreach to departments and faculty senate committees for the importance of being “open” in scientific researches

## Provide Incentives:

- Provide data management and copyright services to faculty
- Provide opportunities to build repositories for faculty projects
- Provide more accurate and informative statistics

## Re-visit Open Access Policy:

- Add language for copyright
- Make library more central in the workflow of open access



## Easy Deposit 2 Weakness

It depends on only one data source:

- Incomplete and imbalance in coverage of research topics
- Requires subscription



## Next Steps of Easy Deposit 2 Development

- Use free and open access data sources
- Send out reminder email for deposit
- Generate report for open access deposit rate



# Thanks!

ED2 is open source:

<https://github.com/osulp/Easydeposit2>

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