

Can repositories be fun?

Thinking about...
Repositories

Patrick Danowski



Institute of Science and Technology

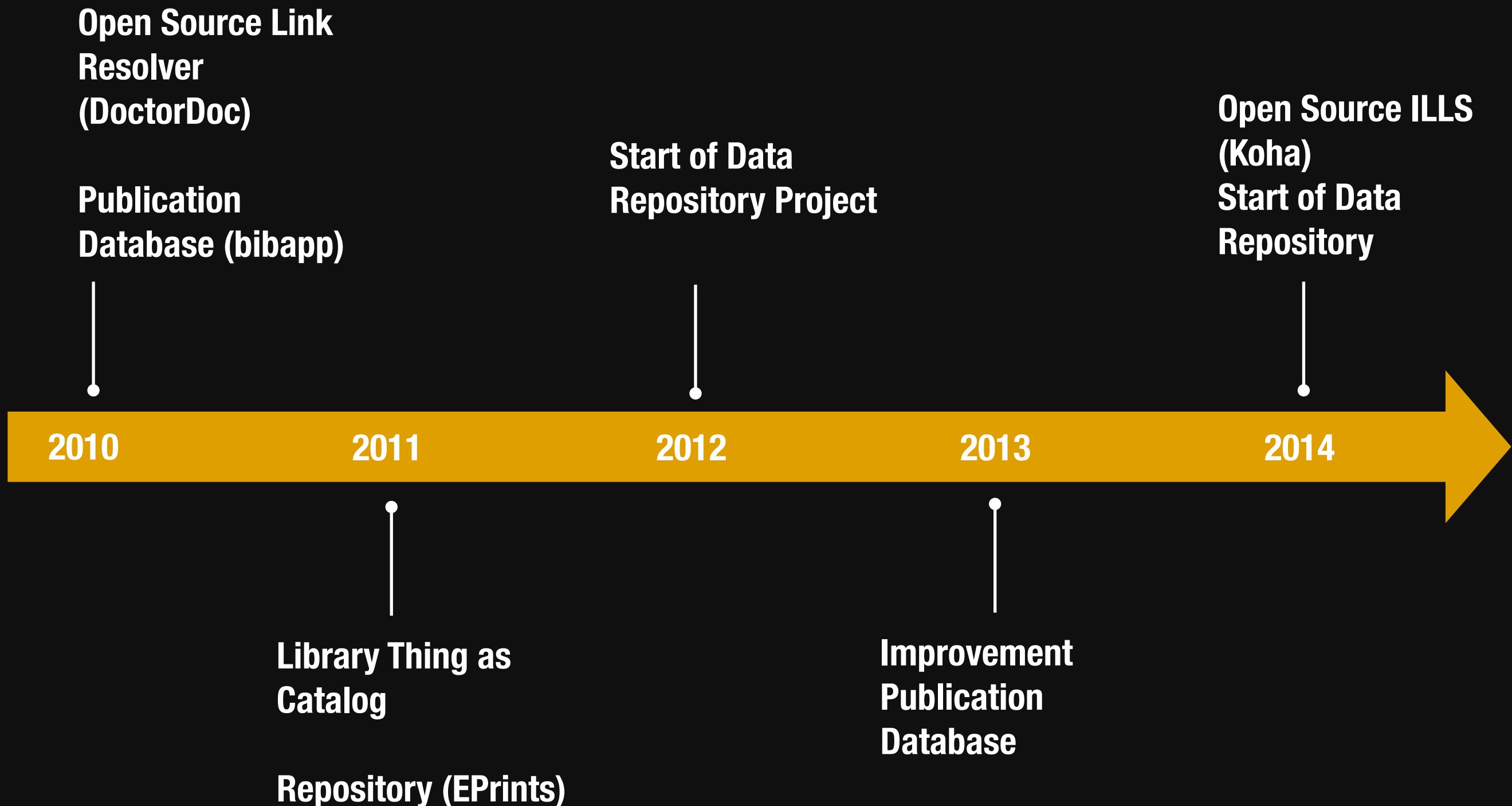
Disclaimer

- Our repository is not better
- We just started to think about
- development resources are always a problem

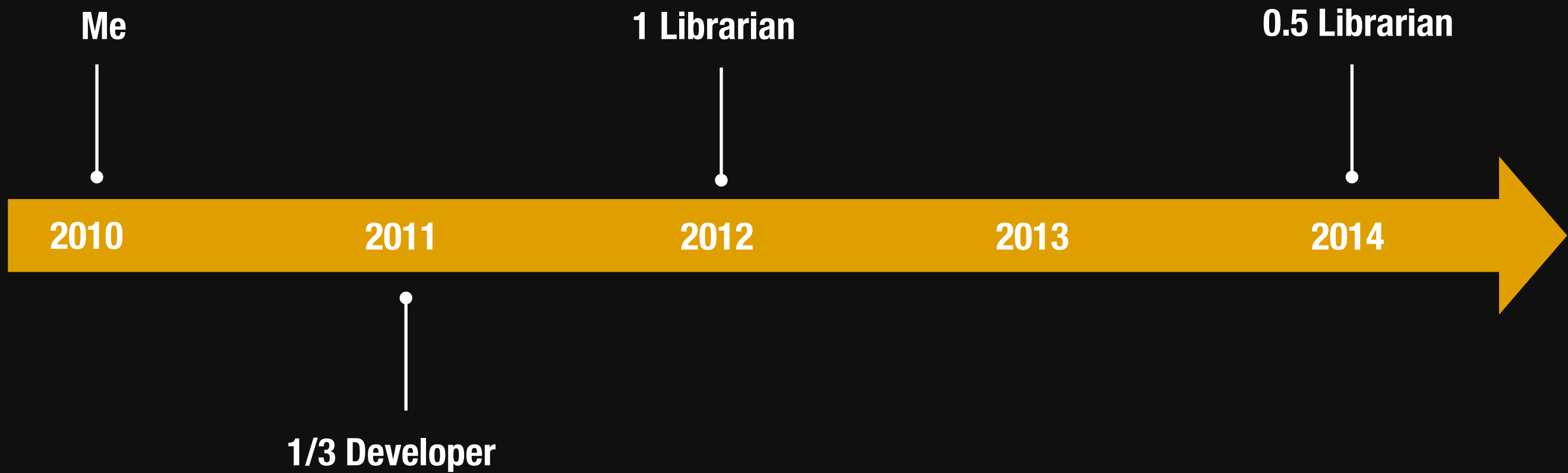
Outline

- Digital Services at IST Austria
- Usability vs User Experience (UX)
- IST Austria PubRep
- Where are the problems?
- What can be done to be more fun?

Projects



Resources



Usability vs User Experience (UX)

- Usability is the ease of use and learnability of a human-made object.
- User experience (UX) involves a person's behaviors, attitudes, and emotions about using a particular product, system or service.

““At IST Austria we support the self-archiving of scientific work and encourage publishing in Open Access journals, in order to make the results of our research accessible to the broadest possible audience.”

Professor Thomas A. Henzinger, President of IST Austria



IST Austria OA Policy

IST Austria is committed to provide unrestricted and cost-free online access to scientific publications for all users and researchers as widely as possible.

The main goal is to increase the visibility, use, and impact of research output, and hereby generate added value for the scientific community.

Green Road

- Self-archiving of already published papers
- deposit should be done by scientists



IST Austria PubRep

- Repository
- Based on EPrints
- little customization
- minimal usage
- mainly used for technical reports

Compositional Specifications for IOCO Testing: Technical Report

Daca, Przemyslaw and Henzinger, Thomas A and Krenn, Willibald and Ničković, Dejan (2014) *Compositional Specifications for IOCO Testing: Technical Report*. Technical Report. IST Austria.

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Text
main_tr.pdf - Published Version [IST-2014-148-v2+1]
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Abstract

Model-based testing is a promising technology for black-box software and hardware testing, in which test cases are generated automatically from high-level specifications. Nowadays, systems typically consist of multiple interacting components and, due to their complexity, testing presents a considerable portion of the effort and cost in the design process. Exploiting the compositional structure of system specifications can considerably reduce the effort in model-based testing. Moreover, inferring properties about the system from testing its individual components allows the designer to reduce the amount of integration testing. In this paper, we study compositional properties of the IOCO-testing theory. We propose a new approach to composition and hiding operations, inspired by contract-based design and interface theories. These operations preserve behaviors that are compatible under composition and hiding, and prune away incompatible ones. The resulting specification characterizes the input sequences for which the unit testing of components is sufficient to infer the correctness of component integration without the need for further tests. We provide a methodology that uses these results to minimize integration testing effort, but also to detect potential weaknesses in specifications. While we focus on asynchronous models and the IOCO conformance relation, the resulting methodology can be applied to a broader class of systems.

Item Type: Monograph (Technical Report)

Subjects: Q Science > QA Mathematics > QA75 Electronic computers. Computer science

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Chatterjee, Krishnendu and Ibsen-Jensen, Rasmus (2014) *The Value 1 Problem for Concurrent Mean-payoff Games*. Technical Report. IST Austria. (Submitted)

Chatterjee, Krishnendu and Ibsen-Jensen, Rasmus and Nowak, Martin A. (2014) *The Complexity of Evolution on Graphs*. Technical Report. IST Austria. (Submitted)

Subjects: Q Science > QA Mathematics > QA75 Electronic computers. Computer science

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Where are the
problems?

“Our best friend can be our users biggest foe.”

–Librarian



Meta
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★ Authors

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






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Chapter: **Empfehlungen zur Öffnung bibliothekarischer Daten**
Patrick Danowski, Kai Eckert, Christian Hauschke, Adrian Pohl

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Patrick Danowski, Lambert Heller

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Add your skills to present your scientific and research expertise.

New endorsements

Mind Mapping x

Our Answers
(as librarians)

General

- Full service (ressources ??)
- Having a repository without content (our situation) =Give up (??)
- Improve the system

Possible improvements

- Auto fill data we already know
- Hide optional fields
- reduce fields (maybe the hardest option)
- combine minimal data with full service
- integrate system
- redesign

Responsive Webdesign




- <http://mywebdesignboston.com/sites/default/files/responsive-web-design.png>



Integration

Publication Database

<http://publist.ist.ac.at>



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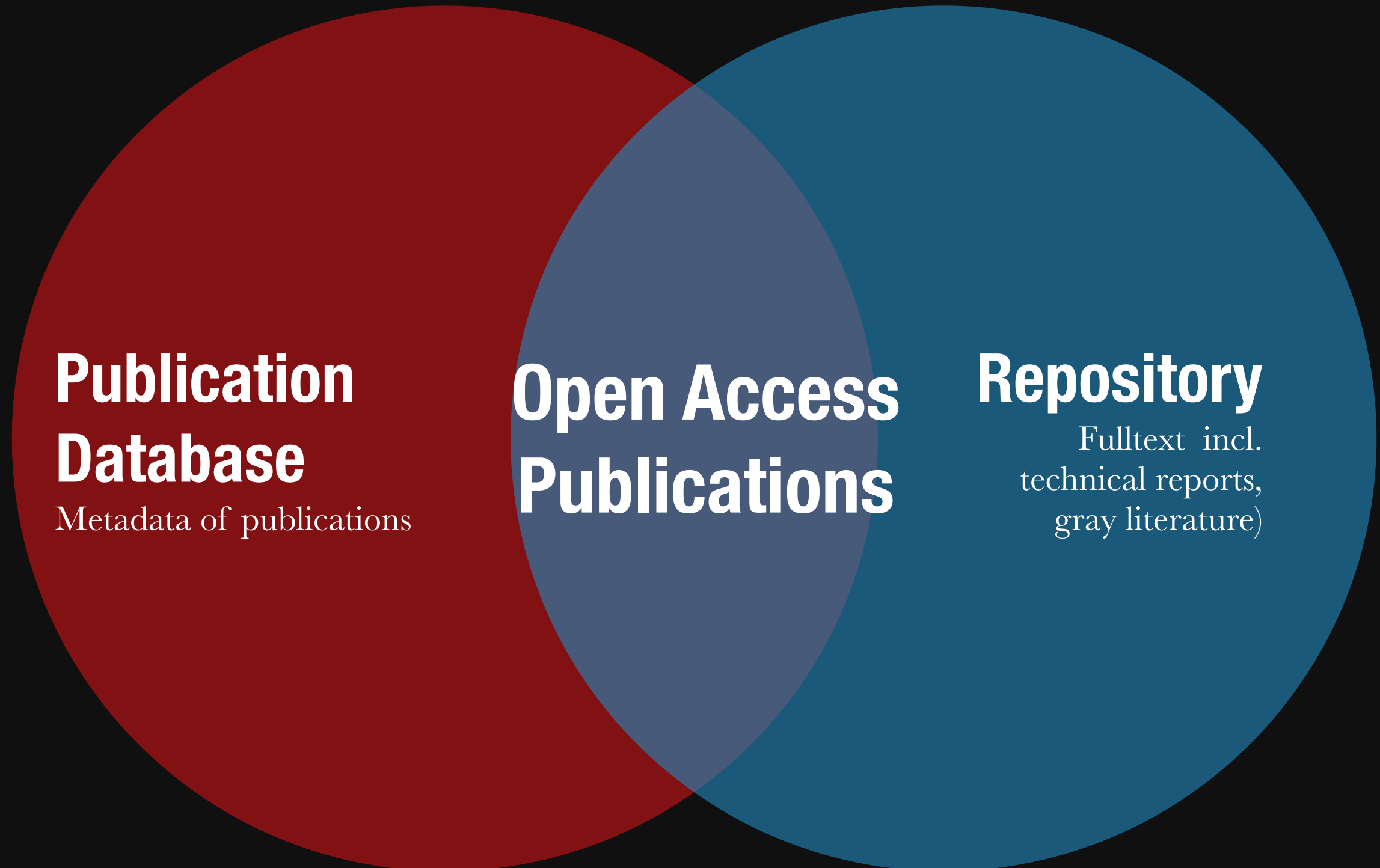
Archival Analysis: Thomas A. Henzinger

RoMEO Color	Archiving Policy	Percentage	Works
Green	Can archive pre-print and post-print	83%	242
Yellow	Can archive pre-print (ie pre-refereeing)	1%	2
Unknown	Could not determine from data	17%	49
		<i>Total</i>	293

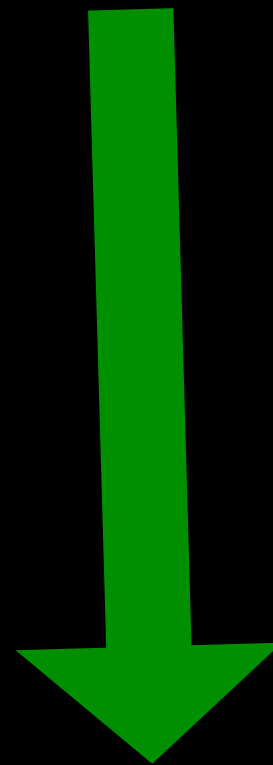
Publications

RoMEO Color	Pub Copy Allowed	Name	Publisher	Works
Green		CAV: Computer-Aided Verification	Springer	26
Green		CONCUR: Concurrency Theory	Springer	23
Unknown		EMSOFT: Embedded Software	ACM	13
Green		ICALP: Automata, Languages and Programming	Springer	11
Green		LICS: Logic in Computer Science	IEEE	10
Green		TACAS: Tools and Algorithms for the Construction and Analysis of Systems	Springer	9
Green		HSCC: Hybrid Systems - Computation and Control	Springer	9
Green		Theoretical Computer Science	Elsevier	8
Green		Information and Computation	Elsevier	7
Green		CSL: Computer Science Logic	Springer	6
Green		FOCS: Foundations of Computer Science	IEEE	5
Green		FORMATS: Formal Modeling and Analysis of Timed Systems	Springer	5
Unknown		ACM Transactions on Computational Logic	ACM	4
Unknown		PLDI: Programming Languages Design and Implementation	ACM	4

Why 2 Services?



Publication Database (bibapp)



Simple
Web-service
Offering
Repository
Deposit

Repository (EPrints)

Further Integration

- Publication lists for
 - Reports Grants
 - CV Homepage
 - Selected Publication at webpage
- Citation Data

Conclusions

- Out of the box repositories not satisfy the users
- A modern design is more important than we think
- Best Metadata vs best Userexperience
- Development should focus on the user
- Integration generated value for users



Questions?
Comments?

The best repository is.....
a used repository!

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