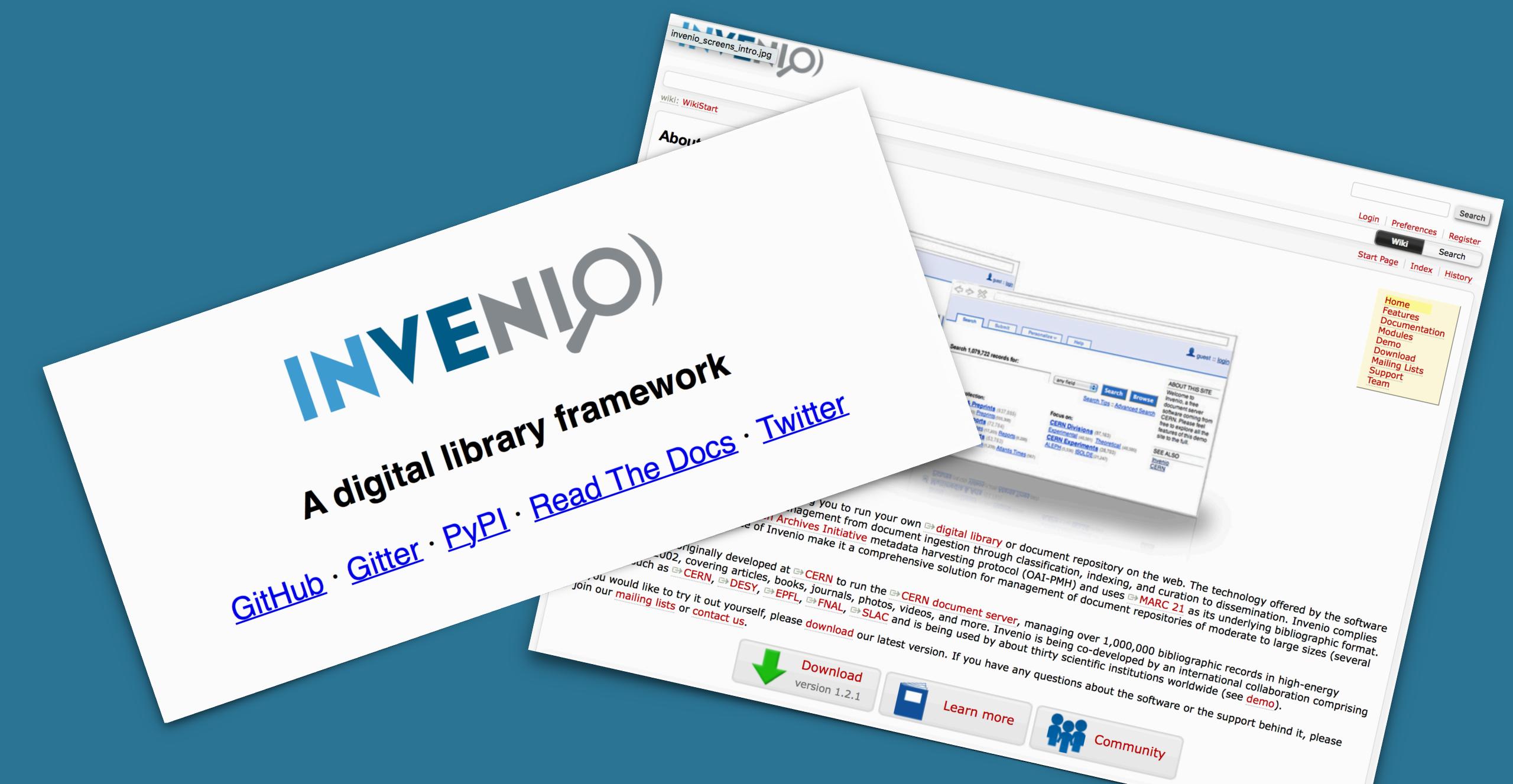
## Invenio<br/>State of the Union

Lars Holm Nielsen CERN

Invenio User Group Workshop 2017, Garching bei München







## Invenio Digital Library Framework Build your own fully customised digital library, institutional repository, multimedia archive, or research data repository on the web.

See showcase

Invenio is a flexible framework



Integrated Library System Manage MARC21 authority and bibliographic records. Turate records and run automated quality checks. Use adule with customisable borrower, item INVENIO)

Invenio instances around the world Showcase Getting Started Community

A showcase gallery illustrating some of the Invenio instances. Add yours! All Data Library Multimedia Repository

CERN official repository for publications, CERN Open Data Discover open Research datasets and

Software of LHC experiments. Visualise events and run and your own analysis. ZETODO ---

HEPData The Durham High Energy Physics Database (HEPData) has been built up over the past four decades as a unique open-access repository for scattering data from experimental particle physics. It currently comprises the data points from plots and tables related to several thousand Publications including those from the Large

Research Data

Capture and preserve research output. Harvest datasen analysis code, virtual machine environment, configuration and knowledge information. Visualise data in the browser.

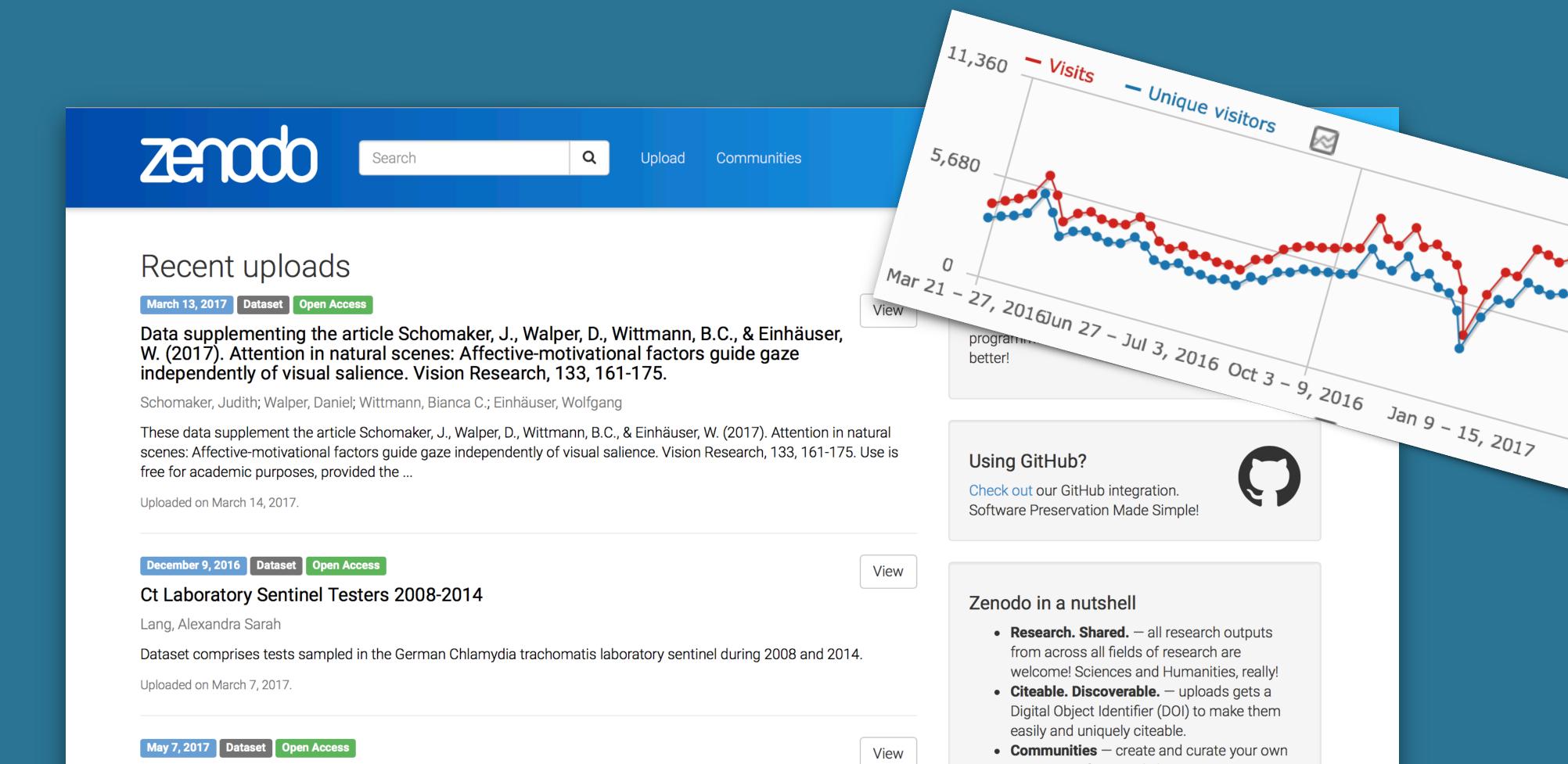
CERN Document Server

Library Multimedia Repository

articles, reports and multimedia content in

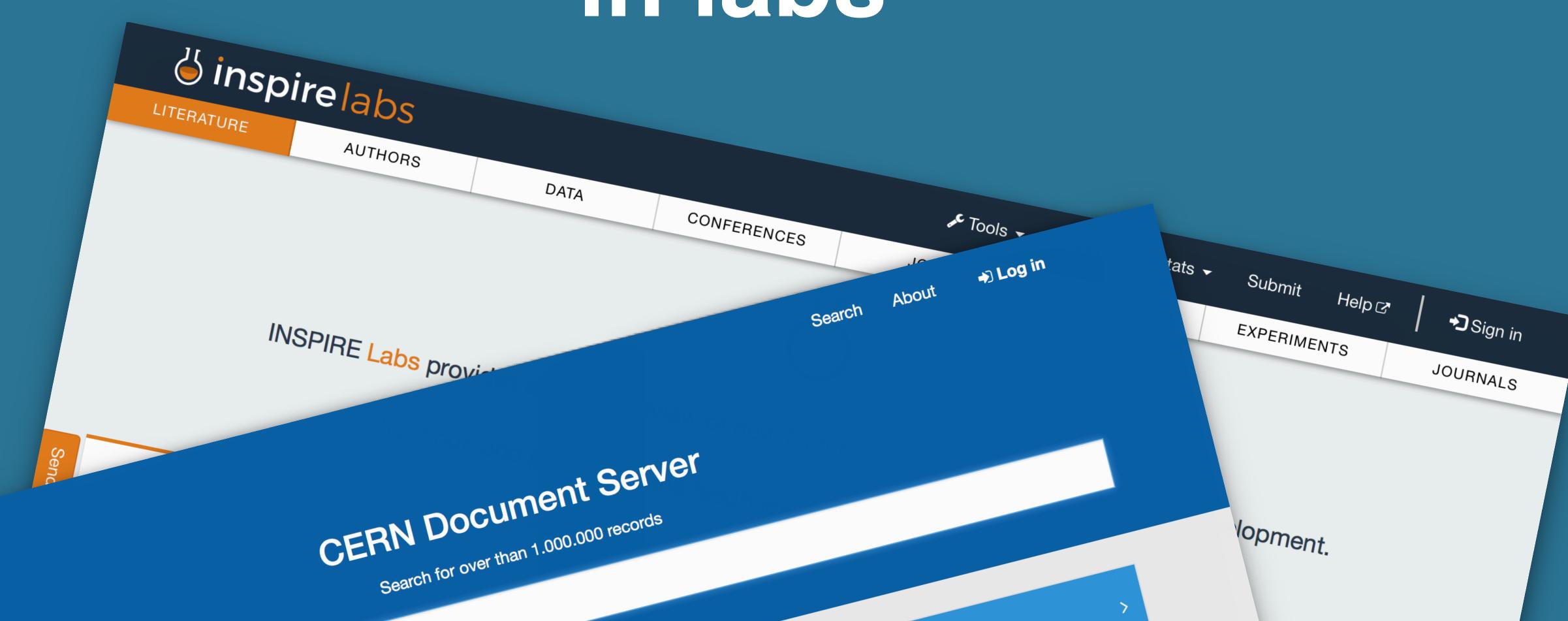
3

# v3 in production





## v3 in labs



## v3 in test coverage

coverage 95%

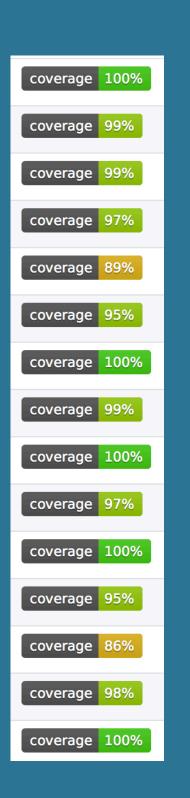
coverage 98%

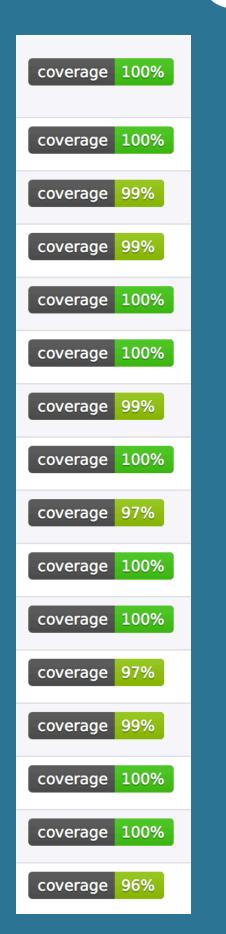
coverage 99%

coverage 100%

coverage 98%

coverage 100%





coverage 100% coverage unknown coverage 100% coverage 100% coverage 100% coverage 96% coverage 97% coverage 97% coverage 100% coverage 100% coverage 66% coverage 98% coverage 100% coverage 86% coverage 100% coverage 100% coverage 100% coverage 100% coverage 100% coverage 85%

## Where are we?



#### Invenio ví

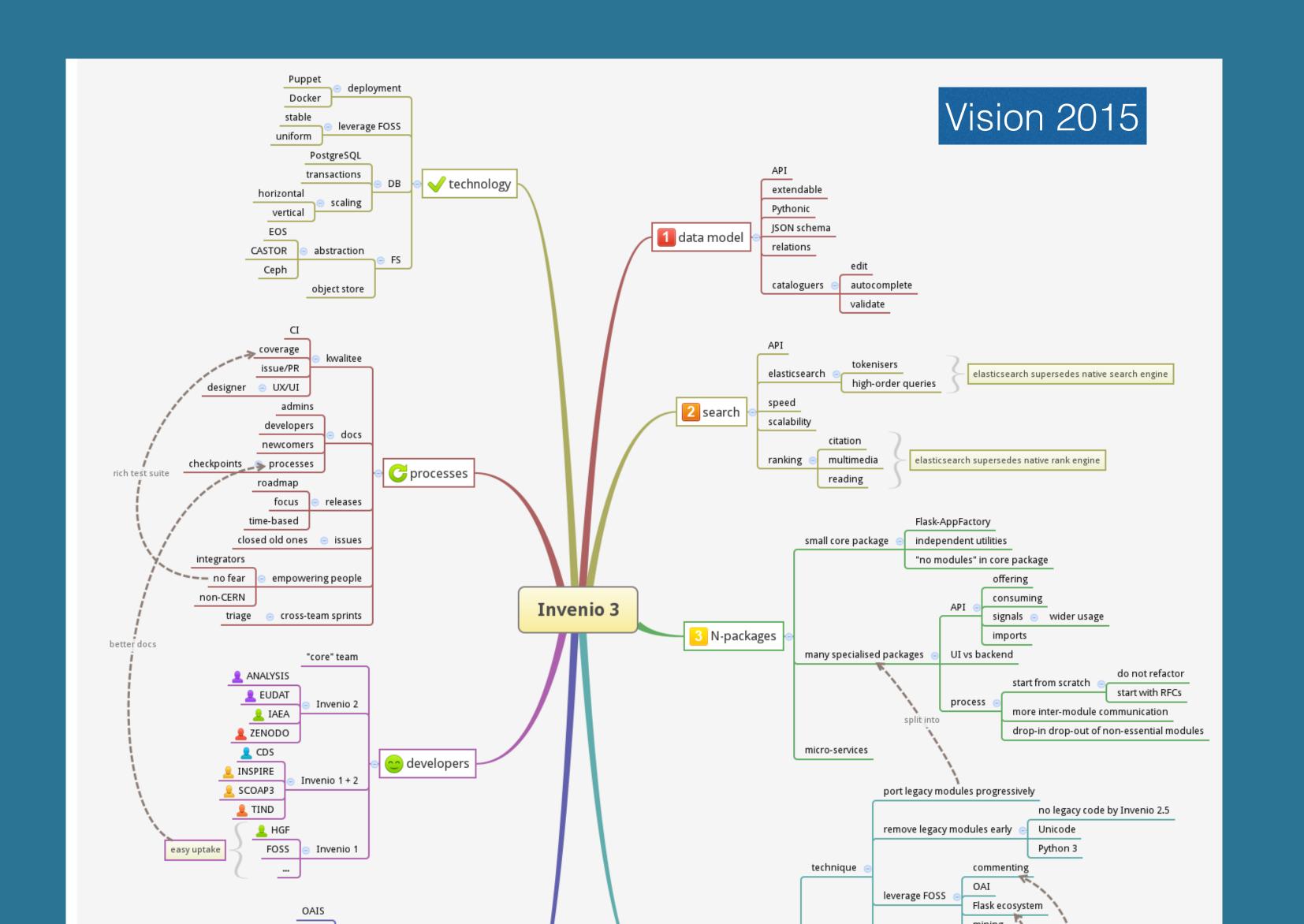
- Releases: 1.2.2; 1.1.7; 1.0.10
- Feature freeze
- Bug and security fixes only
- v1 -> v3 migration path (revisions + files)
- v1.3? Maintainers and input needed

## Invenio v2

DISCLAIMER:
Don't try this at home!



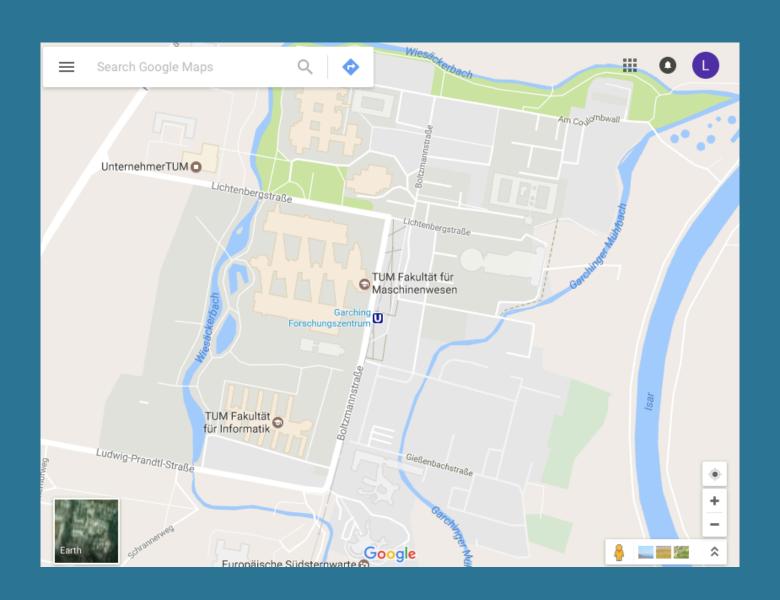
## Invenio v3





#### 10.1594/WDCC/EH4\_OPYC\_SRES\_A2





2002

facebook





## 



### v3 code

- Before:
  - Software
  - Monolith
  - Python 2
  - Mix
  - 450k SLOC
  - Low test coverage

- After:
  - Framework (+ Software)
  - Independent packages
  - Python 2.7/3.3+
  - Unicode
  - 160k SLOC
  - 95%+ test coverage



#### v3 metadata

• Before:

MARC21 (almost)

• 1-5M records

After:

• JSON + JSONSchema

• MARC21 (full)

•

• 10-100M records?



# v3 soft spots

Deposit Access SSO

I18N JavaScript



## How and when?



#### Bundles

Minimal v3

+

#### Flavours

- Base
- Auth
- Metadata
- Files
- Statistics
- •

- Integrated library system
- Research data
- Institutional repository
- Media archive



## Community

Break the learning curve

Empower the collaboration

Focus the discussions



## Where do we go from here?



#### Credits

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