



Status of project and thoughts on invenio
August 4th 2011

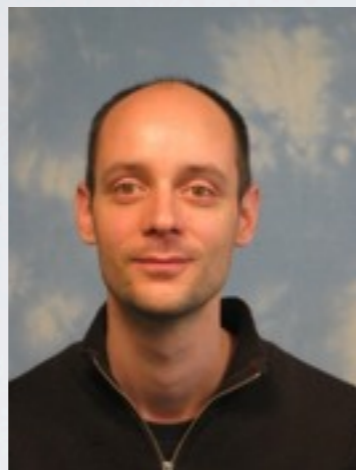
OUR TEAM



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Chemistry



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SV



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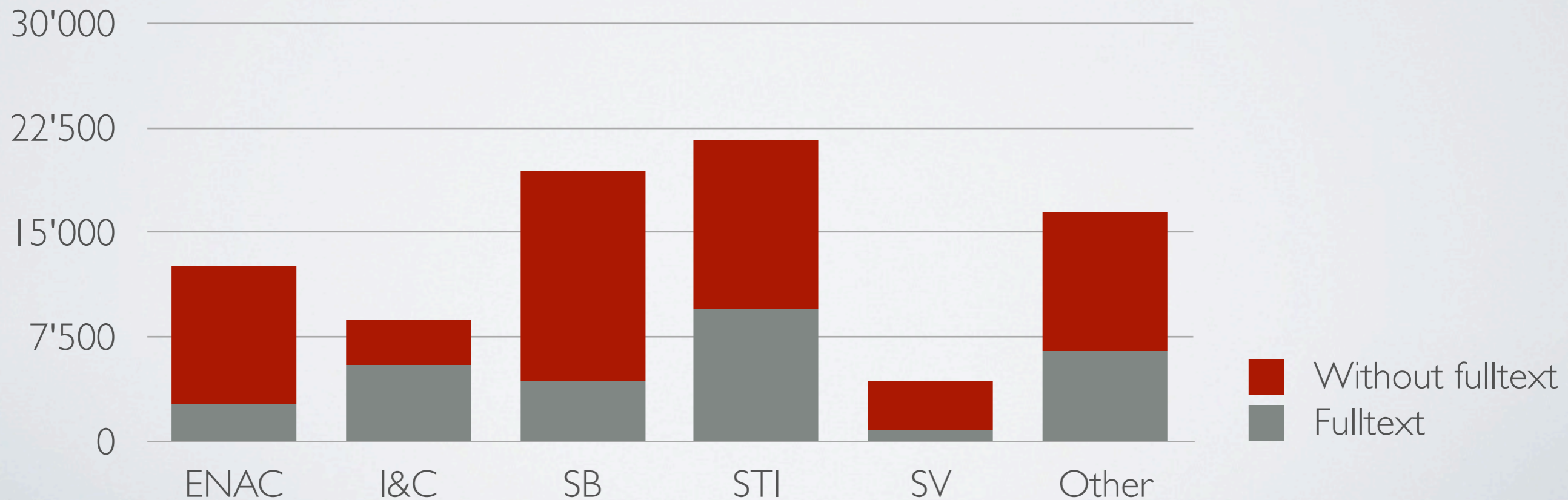
Julien Delasoie
Developer

Previously involved people: Frédéric Gobry (KIS), Pierre Crevoisier (KIS), Thomas Guignard (SISB), Chimène Glayre (SISB) and Geneviève Freda Gueritault (SISB).
Non regularly involved: Valérie Charbonnier (SISB), Sylvie Vuilloud (SISB), Georges Iffland (SISB), Laurence Denoréaz (KIS), Patricia Plaza (KIS) and Noé Cuneo.

DOCUMENTS & RECORDS

79'000 records

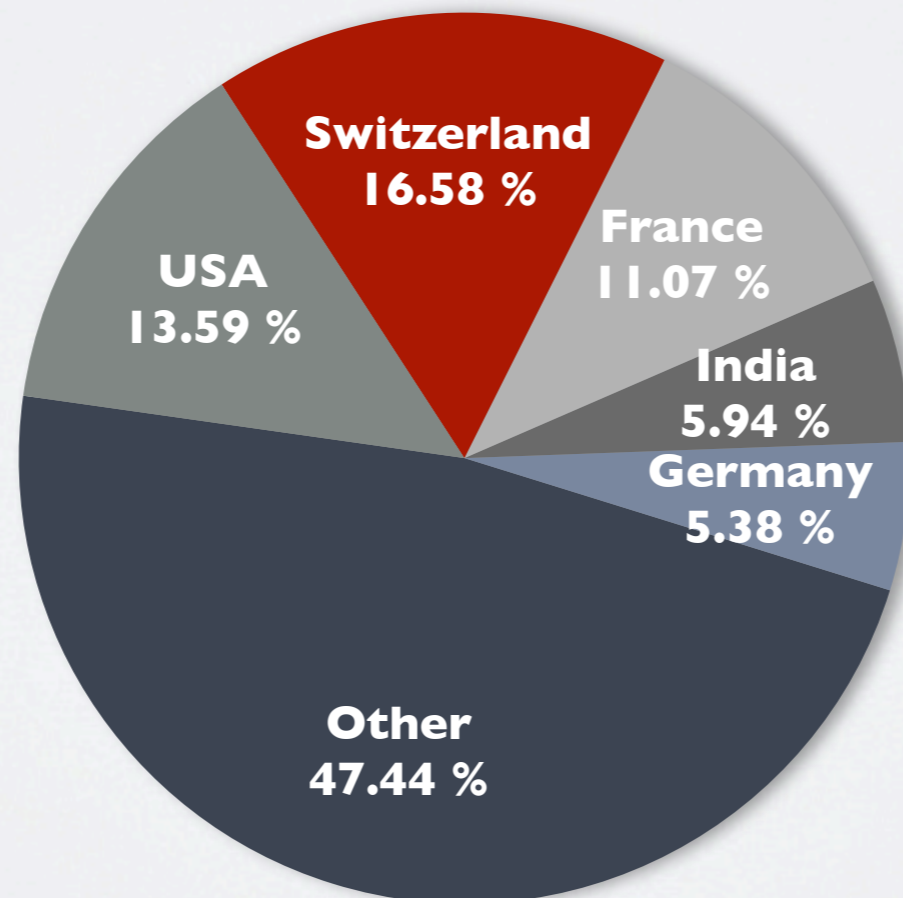
26'600 full texts → **33.6%**



USERS (2010)

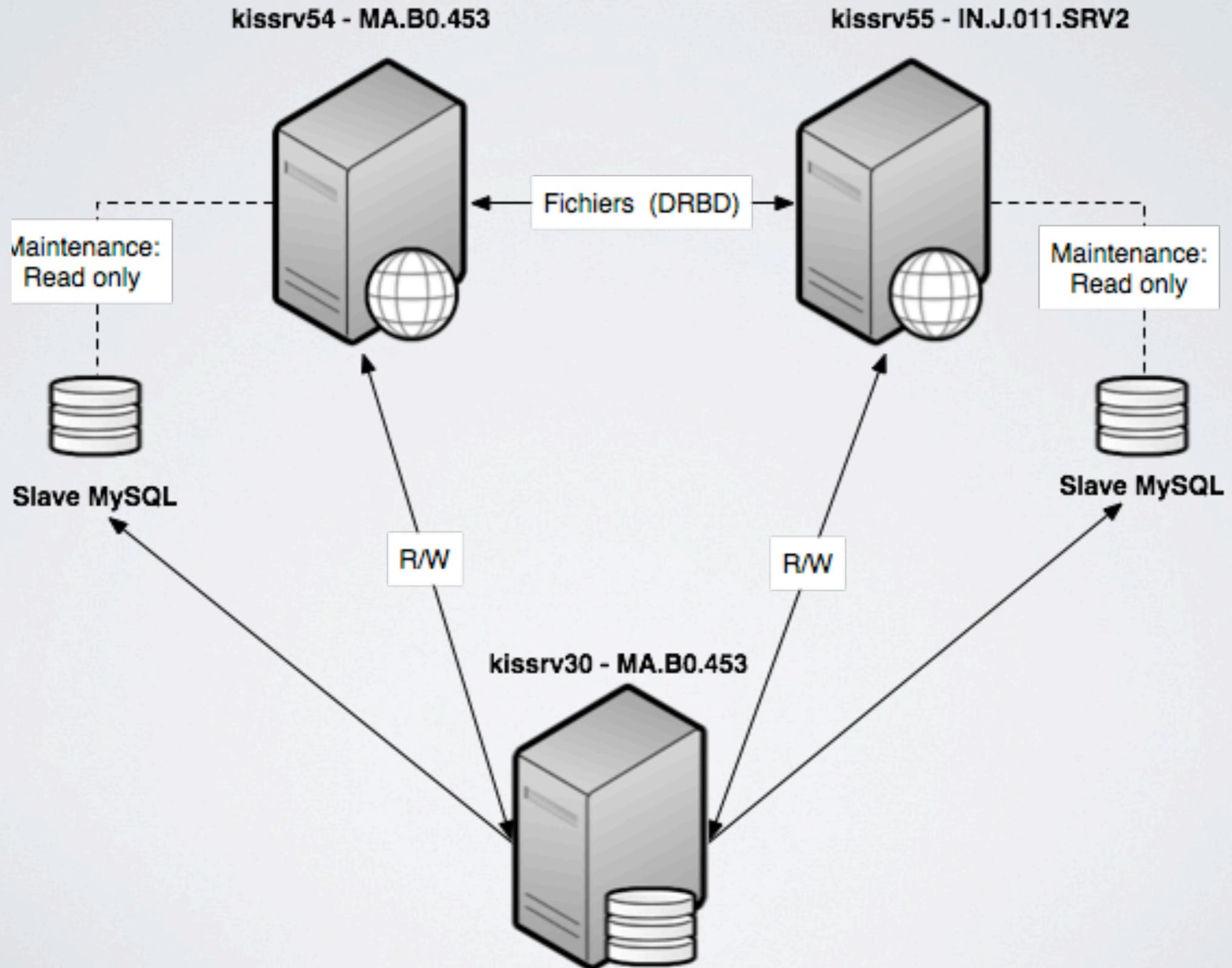
7911 records added by **800** distinct users

651'000 visitors, **1'281'000** page views, **3'305'000** downloads



RECENT WORK

NEW INFRASTRUCTURE



DEPLOYEMENT

- We use Puppet:
 - deploys Debian, Python, MySQL, creates /var/www/ subdirs
- We deploy through fabric:
 - invenio, curator project and other pythonic dependencies into virtualenv
 - formats, translations, static files

DEVELOPMENTS / CURATOR

- We use the framework Django:
 - Strict model-view-controller separation
 - Modern ORM
 - Real templating system
- Authentication / rights management is delegated to Invenio.

DEVELOPMENTS / INTERFACE

2010: new EPFL web design

- ➔ We had to adapt every page of infoscience with respect to the graphical chart:
- navigation schemes (menus, pagination, ...),
 - position, number and style of buttons,
 - login system
 - help documentation



















<http://infoscience.epfl.ch>

INVENIO 1.0 RC0

- We chose to upgrade to latest invenio (previously 0.92)
- Real cool new modules / improvements:
 - new bibsched
 - new bibedit
 - multi-record editor / bibmerge

However, migration was kind of a nightmare.

PATCHES WE MAINTAIN

 bibdocfile.py
 bibdocfile.py.patch
 bibedit_engine.py
 bibedit_engine.py.patch
 search_engine.py
 search_engine.py.patch
 webbasket_dblayer.py
 webbasket_dblayer.py.patch
 webbasket.py
 webbasket.py.patch
 webcomment_webinterface.py
 webcomment_webinterface.py.patch
 websearch_webcoll.py
 websearch_webcoll.py.patch
 websubmit_webinterface.py
 websubmit_webinterface.py.patch
 webuser.py
 webuser.py.patch

- Most are due to lack of separation between templates and controllers. (e.g. navtrails)
- UTF-8 problems with bibdocfile.
- JQuery inclusion
- Page construction order.

WHAT SUCKS ABOUT INVENIO TEMPLATES

- Order of calls is unclear
 - Roles of functions is obscure
 - Parameters are incoherent. User and language should always be available.
 - Too many functions, too many parameters, looooooong functions, business logic in templates
- ➔ Adapting **any** template of invenio is a terrific nightmare

I HAD A DREAM

- of an invenio version where:
 - a real templating system was progressively introduced (Mako, Cheetah, Jinja 2, ... django?)
 - Bibdocfile and search_engine were refactored (shorter, simpler)
 - an ORM was introduced to replace _dblayer files: code is easier to read and MUCH shorter, very little SQL is needed.