WHAT’S INDICO?

INDICO — THE SERVICE @ CERN

INDICO — THE PROJECT

FUTURE

COLLABORATION
2002 Indico project begins

WHO
European project
CERN, SISSA, U. Udine, TNO, U. Amsterdam

GOAL
"Web-based multi-platform conference storage and management system"

CERN
Conference Management Web Application
Timetable and Abstracts management
WHAT'S INDICO NOW?

Event Management Software
Lectures
Meetings
Conferences

Room Booking Service

Collaborative tools
Videoconference
Webcast
Recording
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Event Management Software
- Lectures
- Meetings
- Conferences

Room Booking Service

Collaborative tools
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Long-term Archive
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TODAY @ CERN

~ 250,000 events
~ 25% Avg Growth Rate per year
~ 1,000,000 contributions
~ 1,200,000 files (~2.5 TB)
~ 8,000 unique visitors per day

CONTRIBUTIONS PER YEAR (START DATE)
2012 - 2013 @ CERN

**Room Booking:** ~200 Rooms, ~350 Bookings per day

**Video-Conference:** ~44,000 total Vidyo bookings

**Webcast/Recording:** ~45 requests per month (avg)
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COLLABORATION
LAST 5 YEARS
Features, UX and Performance

Are you satisfied with Indico? (2011)
- Definitely, Yes (15%)
- Yes, mostly (56%)
- It's OK (25%)

Event Overview:
Before: 1
Now: 5X

Booking Calendar:
Before: 1
Now: 3X

UX
Performance

2007
2012
NOW
LAST 5 YEARS

Development process

Radical change searching for QA

Pull request model (integrator)

Based on Git

Enforce unit & functional testing

Keep documentation up-to-date

Centralized wiki & ticketing

http://indico-software.org
1.0 RELEASED

31st June 2013

11 years of development

9 years in production at CERN (CHEP 2004)

Many enhancements and some new features

Stable!

Currently: 1.1 released 2nd September 2013
NEW SINCE CHEP 2012
INDICO USER DASHBOARD

The dashboard aims to be a very important tool

Digest of what you care about:
› Your events
› Categories
› ...

Recommendations:
› What are you interested in?

Evolution:
› Gradually move it to the front line (home page)
## Indico Dashboard

### Favourite categories

<table>
<thead>
<tr>
<th>Category</th>
<th>Events</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLM</td>
<td>106</td>
<td><img src="add-to-favorites.png" alt="Add to favorites" /></td>
</tr>
<tr>
<td>Group Meetings</td>
<td>19</td>
<td><img src="add-to-favorites.png" alt="Add to favorites" /></td>
</tr>
<tr>
<td>Audio Visual &amp; Conferencing Services</td>
<td>242</td>
<td><img src="add-to-favorites.png" alt="Add to favorites" /></td>
</tr>
<tr>
<td>Digital Library Services</td>
<td>106</td>
<td><img src="add-to-favorites.png" alt="Add to favorites" /></td>
</tr>
<tr>
<td>Digital Library Technology</td>
<td>105</td>
<td><img src="add-to-favorites.png" alt="Add to favorites" /></td>
</tr>
</tbody>
</table>

*This will make events in this category visible on your Dashboard.*
MORE?

Check our project website

https://indico.cern.ch/news.py
http://indico-software.org/blog/Indico1.0
http://indico-software.org/blog/Indico1.1
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FEATURES

Version 1.2 scheduled to be released ~ 30 Nov 2013
Abstract

# Important equation

## Introduction

This is the formula in question:

$$\int_{-\infty}^{\infty} e^{-x^2} \, dx = \sqrt{\pi}$$

## Conclusion
One of the most popular modules

**WYSIWYG** Easy to create and edit
E-Ticket

Indico developer conf
Monday, 19 August 2013 - Saturday, 31 August 2013
CERN

e-Ticket

Mr. KOLOBARA, Bernard
FER
Vranesina 10
Zagreb
HR
OFF-LINE WEBSITE

STORE your event in a pendrive, etc
works off-line
access to files
FLASK & URLs

Homemade framework (2002)

Moved to Flask: micro-framework, well documented

Benefit to shorten and beautify URLs:

/user/dashboard
/event/1234/
/category/123/
/category/123/create/event/meeting
/event/456/call-for-abstracts/my-abstracts
/rooms/book/
AUTHENTICATION SYSTEM

Now
Local, LDAP, CERN Auth.
Very difficult to extend

1.2
Local, LDAP, **SSO**
Redesigned, easy to extend, faster
DATABASE

Growth  Every year more events and users
ZODB   Works good, scales bad
6 months  Project to Survey, Evaluate, Prototype
Follow  Feedback please
http://indico-software.org/wiki/Dev/FutureDB
GOAL Boilerplate by the end of 2013
DATABASE

Growth  Every year more events and users
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http://indico-software.org/wiki/Dev/FutureDB
GOAL  Boilerplate by the end of 2013

2014  Freeze development of new features
Focus on DB migration
INDICO AGGREGATOR

Crawling HEP Conf Sources

One site, many sources

Upcoming conferences

Nearby, Favourites,...
GLOBAL INDICO SERVICE

New service
No restrictions
Open to the whole research world
Hosted by IT department at CERN
Benefit from effort on scalability, virtualization
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AROUND THE WORLD

Open Source Software

Indico is the *de facto* HEP standard collaboration tool

Growing Community

4 Continents

› 110 known servers

› 180 project indico admins
FIRST INDICO WORKSHOP
27-29 May 2013

Goal: Expose, inform, feedback and community

3 days/sessions: users, administrators and developers
20 participants, 6 countries, 12 institutions
Hands-on: installing Indico, developing a plugin
Very positive feedback: proposed to repeat regularly
Check out the slides: http://indico.cern.ch/e/first-indico-workshop
HOW TO COLLABORATE?

http://github.com/indico

project-indico-administrators@cern.ch (> 180 members)
project-indico-devel@cern.ch (> 60 members)

indico@conference.jabber.cern.ch
QUESTIONS?

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