

CHEP 2013

14-18 OCTOBER 2013 AMSTERDAM

INDICO 1.0 +

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CERN IT-CIS-AVC



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

WHAT'S INDICO NOW?



Event Management Software

Lectures

Meetings

Conferences



Room Booking Service



Collaborative tools

Videoconference

Webcast

Recording



Long-term
Archive

WHAT'S INDICO?

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INDICO — THE PROJECT

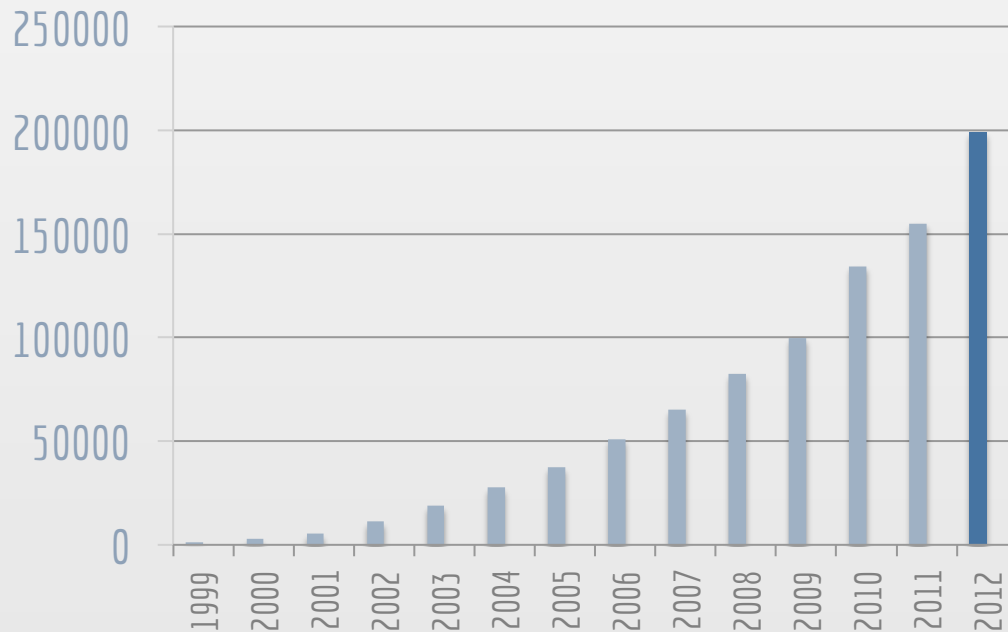
FUTURE

COLLABORATION

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)

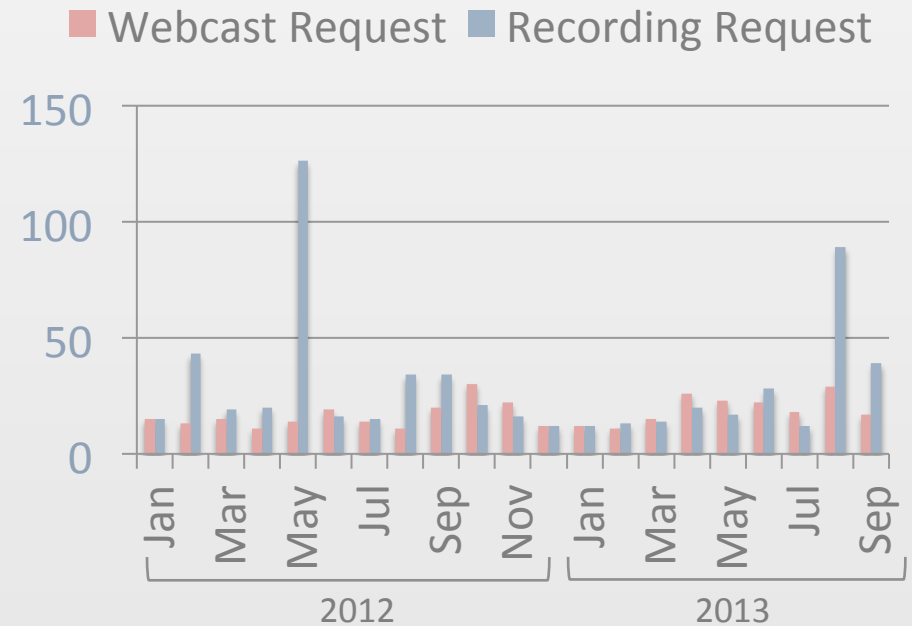
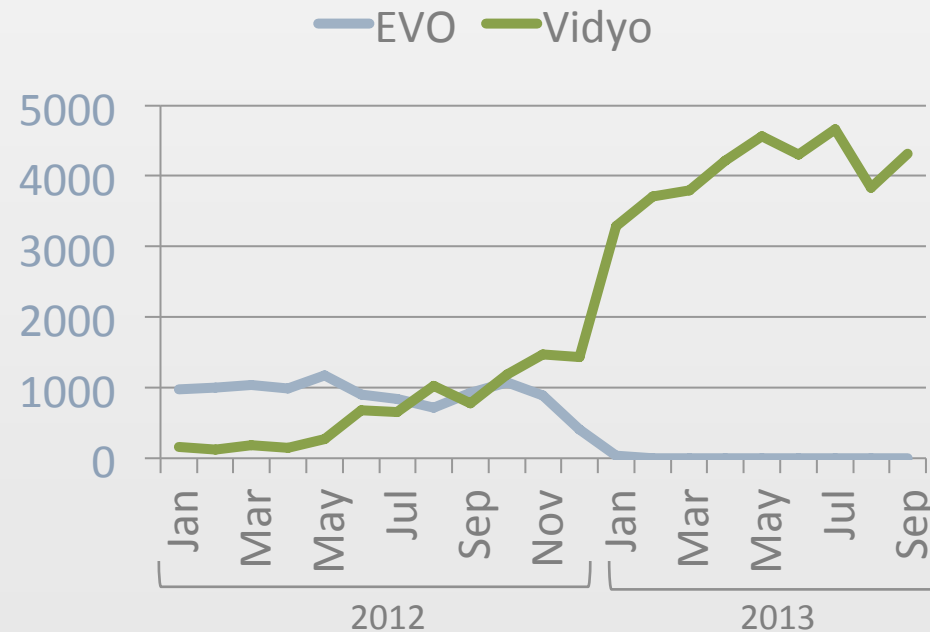


2012 - 2013 @ CERN

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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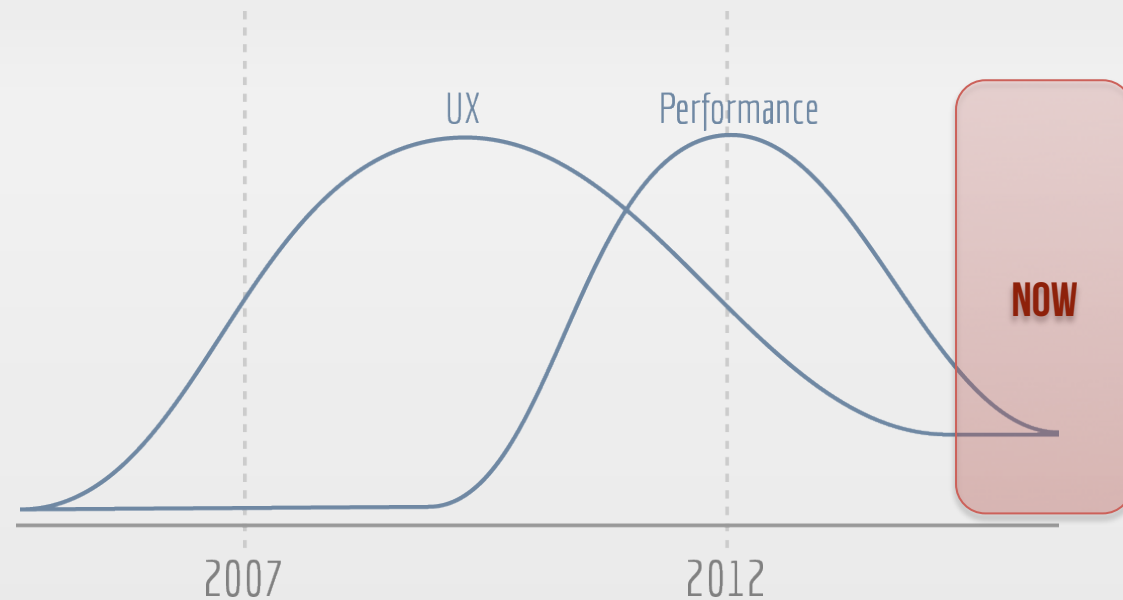
FUTURE

COLLABORATION

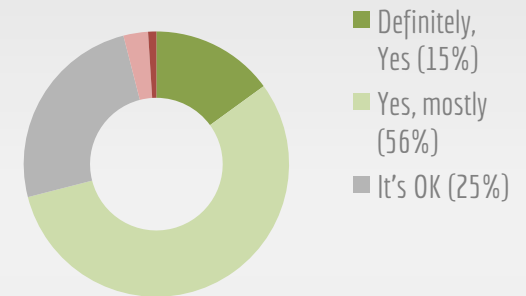


LAST 5 YEARS

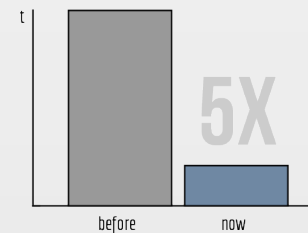
Features, UX and Performance



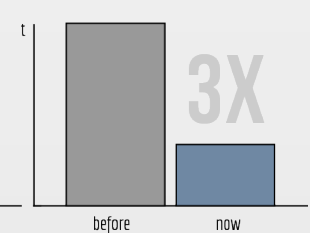
ARE YOU SATISFIED WITH INDICO? (2011)



EVENT OVERVIEW



BOOKING CALENDAR



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>



git



Jenkins

 Sphinx



trac

Integrated SCM & Project Management

1.0 RELEASED

31th 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)

The screenshot shows the INDICO user dashboard for Jose Benito GONZALEZ LOPEZ. The navigation menu includes Home, Create event, Room booking, Administration, My profile (highlighted with a red box), and Help. The dashboard is titled 'Personal Area for Jose Benito GONZALEZ LOPEZ' and features tabs for Dashboard, Account Details, Preferences, Favorites, HTTP API, and Authorized Apps. The main content area is divided into three sections: 'Your events at hand' (listing events like Paper Reviewing test, Indico developers review meeting, etc.), 'Your categories' (listing categories like CIS, IT, Indico, Section Meetings), and 'Happening in your categories' (listing upcoming events like Visual Media Office weekly meeting, Section Meeting on 23/05/2012).

INDICO DASHBOARD

Favourite categories

Home » Departments » IT » Groups » CIS

CIS

Collaboration and Information Services Group

SLM	106 events	🛡️	➡️
Group Meetings	19 events	🛡️	➡️
Audio Visual & Conferencing Services	242 events	🛡️	➡️
Digital Library Services	106 events	🛡️	➡️
Digital Library Technology	105 events	🛡️	➡️

Parent category | 👁️ | + | ✎️ | 📌

Add to your favorites

This will make events in this category visible on your [Dashboard](#).

👤 Le Meur, J.
👤 Smith, T.

SLM	106 events	🛡️	➡️
Group Meetings	19 events	🛡️	➡️
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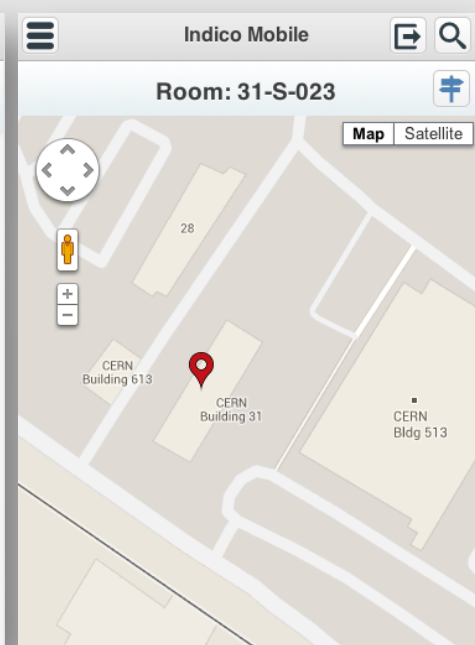
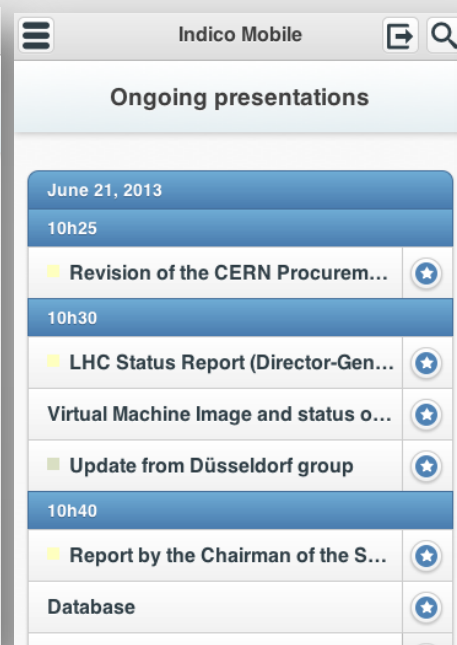
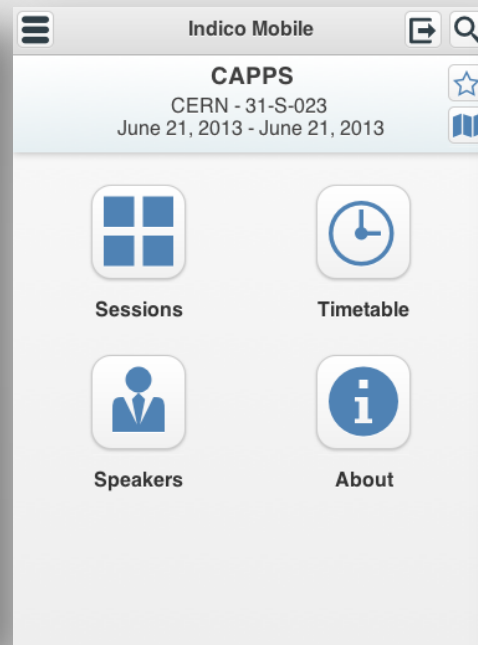
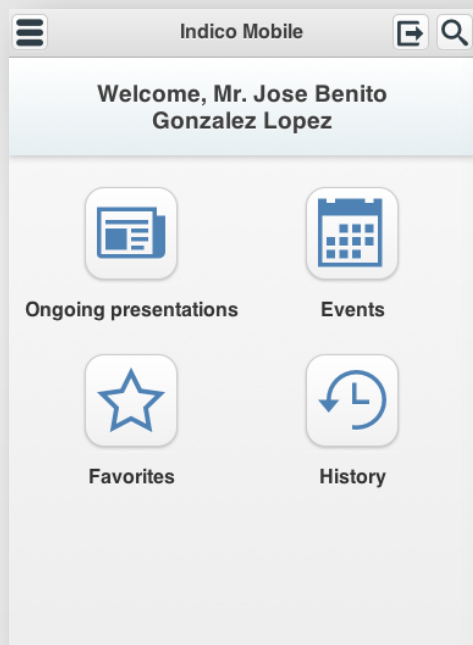
Parent category | 👁️ | + | ✎️ | 📌

Managers

👤 Le Meur, J.
👤 Smith, T.

INDICO MOBILE

http://indicomobile.cern.ch



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



RICH ABSTRACT EDITOR

test

10 October 2013
CERN
Europe/Zurich timezone

Overview

Scientific Programme

Call for Abstracts

↳ View my Abstracts

↳ Submit Abstract

Timetable

Contribution List

Author List

My Conference

Book of Abstracts

Abstract

Title *

Abstract content *

B *I* |      |     |  

Important equation

Introduction

This is the formula in question:

$$\int_0^{\infty} e^{-x^2} dx = \frac{\sqrt{\pi}}{2}$$

Conclusion

Important equation

Introduction

This is the formula in question:

$$\int_0^{\infty} e^{-x^2} dx = \frac{\sqrt{\pi}}{2}$$

Conclusion

REGISTRATION FORM

One of the most popular modules

WYSIWYG Easy to create and edit

REGISTRATION FORM

General settings

Timetable

Material

Room booking

Programme

Registration

Call for Abstracts

Contributions

Paper Reviewing

Video Services

Evaluation

Chat Rooms

Advanced options

Lists

Protection

Tools

Layout

Logs

Setup Registrants **Edition** e-payment

Recover/Discard sections Create section Collapse All Expand All

Personal Data

(click to add a description)

Save

Cancel

Title

+

First Name *

Surname *

Position

Institution *

Address

City *

Country *

-- Select a country --

Phone

(+) 999 99 99 99

Fax

(+) 999 99 99 99

Email *

Personal homepage

Reason for participation

Please, let us know why you are interested to participate in our event:

+

E-TICKET

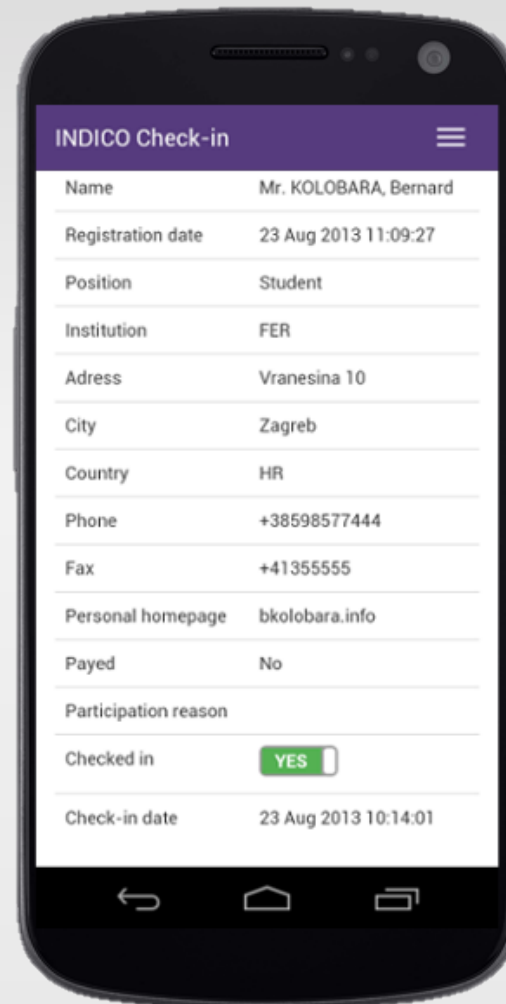
Indico developer conf

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

The screenshot shows a web application interface with a sidebar on the left and a main content area on the right. The sidebar contains a list of navigation items: General settings, Timetable, Material, Room booking, Programme, Registration, Abstracts, Contributions, Paper Reviewing, Video Services, Evaluation, Chat Rooms, Advanced options, Lists, Protection, Tools, Layout, and Logs. The main content area has a top navigation bar with buttons for Alarms, Clone Event, Posters, Badges/Tablesigs, Lock, Delete, Material Package, and Offline version. Below this is a section titled 'Task list' with a clipboard icon. It contains a table with columns: Id, Requested by, Request Time, Creation Time, Status, and Link. The table has one row with the following data: Id: 0, Requested by: Jose Benito GONZALEZ LOPEZ, Request Time: 23 May 2013 12:52:33, Status: Queued, and Link: (empty). Below the table is a paragraph of text: 'Above list contains offline conferences generated in the past. If you want to generate your own copy of the conference click 'Generate' button below.' and a 'Generate' button.

General settings
Timetable
Material
Room booking
Programme
Registration
Abstracts
Contributions
Paper Reviewing
Video Services
Evaluation
Chat Rooms
Advanced options
Lists
Protection
Tools
Layout
Logs

Alarms Clone Event Posters Badges/Tablesigs Lock Delete Material Package **Offline version**

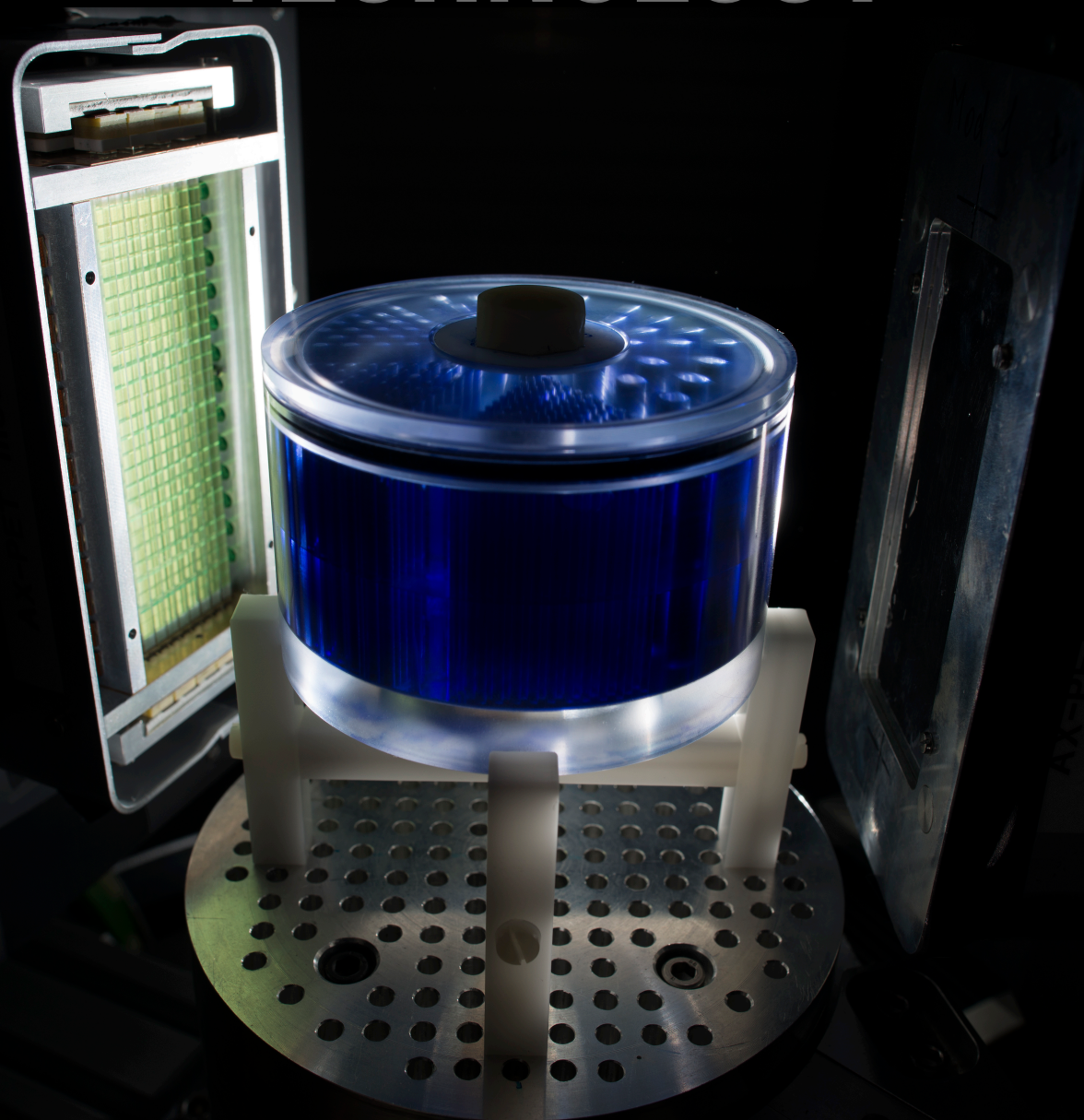
Task list

Id	Requested by	Request Time	Creation Time	Status	Link
0	Jose Benito GONZALEZ LOPEZ	23 May 2013 12:52:33		Queued	

Above list contains offline conferences generated in the past.
If you want to generate your own copy of the conference click 'Generate' button below.

Generate

TECHNOLOGY



FLASK & URLS



Flask

web development,
one drop at a time

v1.2

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

v1.2

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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6 months Project to Survey, Evaluate, Prototype

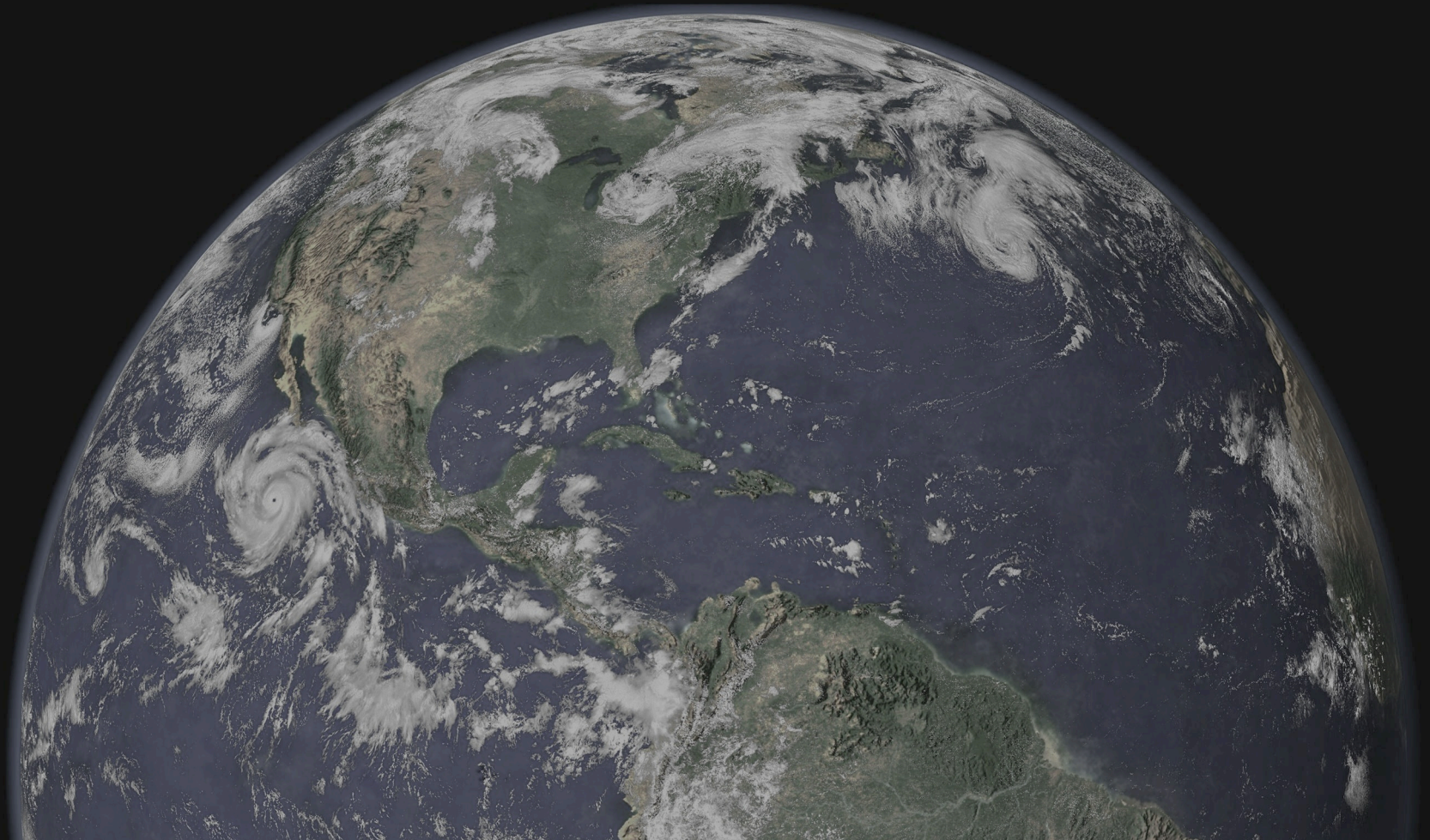
Follow Feedback please

<http://indico-software.org/wiki/Dev/FutureDB>

GOAL Boilerplate by the end of 2013

2014 Freeze development of new features
Focus on DB migration

NEW SERVICES



INDICO AGGREGATOR

Crawling HEP Conf Sources

Upcoming conferences

One site, many sources

Nearby, Favourites,...

The screenshot shows the Indico8r website interface. At the top, there is a navigation bar with 'indico8r', 'About', 'Help', and 'Login'. Below the navigation bar, the main header features the 'indico8r' logo, the tagline 'The Indico Aggregator', and buttons for 'Create an account' and 'Login'. A world map is displayed on the right side of the header, with several locations highlighted in blue and connected to the main content area by thin lines. Below the header, there are tabs for 'All Events', 'Ongoing', 'Upcoming', and 'Nearby'. A search bar with a 'Filter' dropdown and a 'Title Start Date End Date' filter is present. The main content area displays a list of upcoming conferences:

- TUG AGM 2012**
4004 Wesbrook Mall
Started on 9 Jul 2012 at 08:00 (America/Vancouver)
No description given
- DOE LARP Review**
SLAC, Research Office Building (048)
Started on 9 Jul 2012 at 08:00 (US/Pacific)
Annual DOE Review of the LARP Program (Under construction, agenda is that of the 2011 Review)
- OSG Planning Retreat**
Madison, WI
Started on 9 Jul 2012 at 08:00 (US/Central)
More details and agenda to follow. Visiting information for Madison: <http://w3.wisc.edu/plan-your-visit/where-to-stay/>
- ICHEP2012**
Started on 4 Jul 2012 at 14:00 (Australia/Melbourne)
38th International Conference on High Energy Physics.

On the right side, there are several event cards:

- ICHEP2012**
Started on 4 Jul 2012 at 14:00
- Quark Matter 2012**
Starts on 13 Aug 2012 at 08:00
qm 1 quark 4 qcd 1 quark matter 1
- 2012 CHIPP Annual Plenary...**
Kartause Ittingen
Starts on 13 Sep 2012 at 08:00
- Top2012 provisional timetable**
Starts on 18 Sep 2012 at 09:00
- TOP 2012 - 5th International...**
Winchester, United Kingdom
Starts on 18 Sep 2012 at 09:00

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

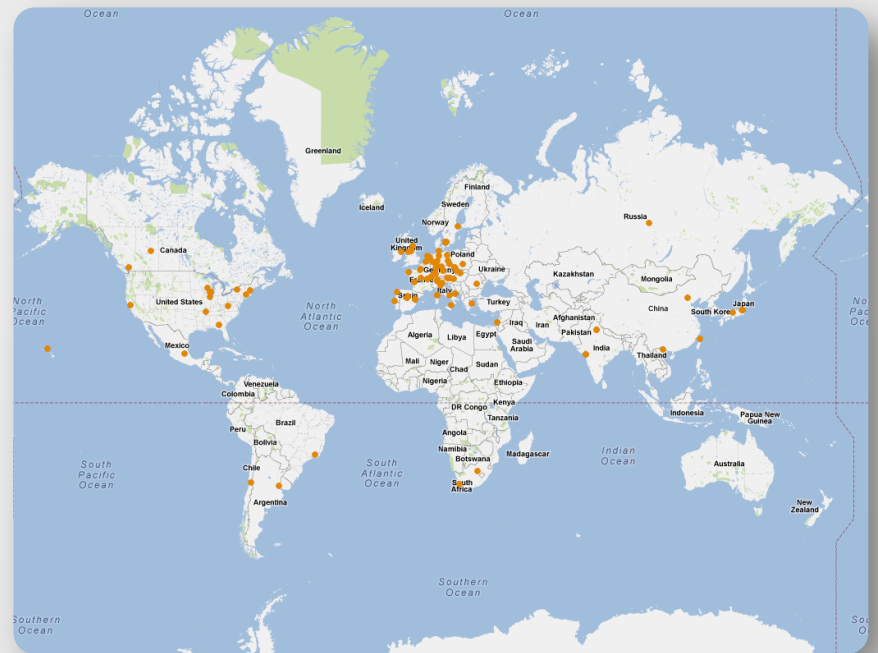
Indico is the *de facto* HEP standard collaboration tool

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

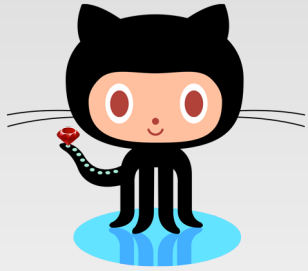
20 participants, 6 countries, 12 institutions

Hands-on: installing Indico, developing a plugin

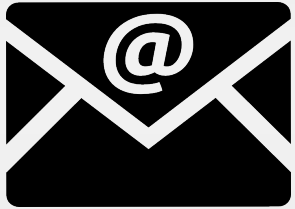
Very positive feedback: proposed to **repeat regularly**

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?

JOSE BENITO GONZALEZ

<http://github.com/jbenito3>

jbenito@cern.ch