

indico



Indico

Open Source Software for event
organization

Adrian Mönnich, CERN, July 2019



Motivation



Meeting Organization

IT - Activities and Services Discussion Forum

Thursday 6 Apr 2017, 16:00 → 17:20 Europe/Zurich

31-3-004 - IT Amphitheatre (CERN)

Emmanuel Ormancey (CERN)



compiledslides.pdf

Videoconference Rooms

IT_-_Activities_and_Services_Discussion_Forum

Join

IT Amphitheatre

16:00 → 17:20 Activity Reviews

16:00 **DB-DBR: Working with Oracle 12c databases in the Oracle Cloud**

5m

Speaker: Eva Dafonte Perez (CERN)

openlab-oracle12_fe...

openlab-oracle12_fe...

16:05 **CDA-DR: Enabling software citation and discovery workflows**

5m

Minutes

Speaker: Lars Holm Nielsen (CERN)

it-cda-dr-sloan-proje...

16:10 **CDA-DR: Migrating CDS content - from AFS to EOS aka from Invenio 1 to Invenio 3**

5m

Speaker: Ludmila Marian (CERN)

20170406_ASDF_CD...

16:15 **ST-TAB: New monitoring infrastructure for tape operations**

5m

Speaker: Julien Leduc (CERN)

2017-04-06_ASDF_N...

Conference Management



The 59th ICFA Advanced Beam Dynamics Workshop on Energy Recovery Linacs

18-23 June 2017
CERN
Europe/Zurich timezone



Overview

[Workshop poster \(pdf\)](#)

[Registration](#)

[Participant List](#)

[Important dates](#)

[Author information](#)

[Abstract submission](#)

[Committees](#)

[Participants information](#)

[Getting to CERN](#)

[CERN access and workshop room](#)

[CERN shuttle service](#)

[Accommodation](#)

[Welcome reception \(18 June\)](#)

[Laptop registration](#)

[Workshop dinner \(21 June\)](#)

ERL17 is the 7th in the series of International Workshops on Energy Recovery Linacs covering their accelerator physics, technology and applications. The workshop will serve as a forum for scientists and engineers from around the world to review the latest developments in the field, to exchange ideas and discuss "hot topics".

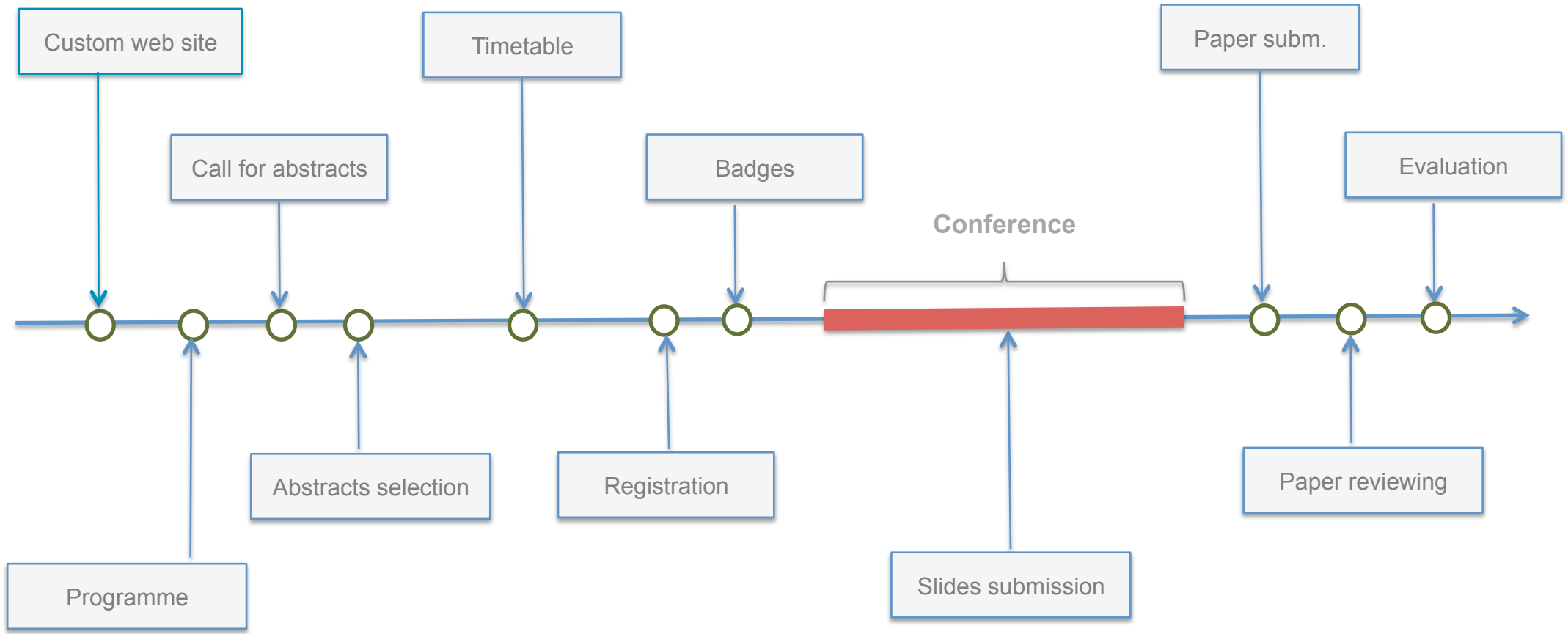
Among the areas covered are injectors for ERLs, ERL optics, beam dynamics and dedicated instrumentation, test facilities, superconducting RF systems as well as ERL applications. We invite presentations on the experience with operating ERLs, on the status of different ERL projects and on ideas for their improvement. There will be plenary sessions only and the possibility to display posters.



International Organizing Committee:

Eric Jensen (CERN, ERL17 Chair)
Sergiy Belorousskiy (FNAL)
Stephan Besson (CERN)
Hsin-Bin Zeng (NSL, SLAC)
Ryutaro Higo (KEK)
Georg Hoffstaetter (Cornell)
Hiromichi Kawata (KEK)
Kwang-Ju Kim (ANL, ALI at Chicago)
Jochen Knobloch (PSB)
Gennady N. Kolpanov (SRM)
Kexin Liu (Peking U)
Elihu Mermel (CERN)
Susan Smith (STYCO, JASRAO)


Local Organizing Committee:



7th High Energy Physics Conference

8-11 April 2017
CERN
Europe/Zurich timezone

Search... 

 This is a **Test Event**. It will be automatically **deleted** after some time.

Overview

Call for Abstracts

Timetable

Contribution List

My Conference

... My Contributions

Call for Papers


... Reviewing Area

... Judging Area

Book of Abstracts

Participant List

Contact

 test@conference.com

 0041 321 789 65 98

Call for Papers

Paper for Indico 2.0 - the whole Iceberg #1

Submitted




Ilias Trichopoulos submitted this paper for the contribution [Indico 2.0 - the whole Iceberg](#)

 Indico-iceberg-paper.pdf  paper.docx  latex-paper.odt


Submitted on 17 Mar 2017 by Ilias Trichopoulos

I

Ilias Trichopoulos submitted paper revision #1 · 17 Mar 2017

 paper.docx
 latex-paper.odt
 Indico-iceberg-paper.pdf

I

Ilias Trichopoulos left a review  · 17 Mar 2017

[Layout](#)

Proposed to **correct** · score **1.5** (show ratings)

The color scheme of the paper needs to be corrected.

A

Alejandro Avilés left a review  · 17 Mar 2017

[Layout](#)

Proposed to **correct** · score **0.5** (show ratings)

The color scheme of the paper needs to be corrected.

P

Leave a comment...

Collaborative Services

IT - Activities and Services Discussion Forum

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2017-04-06_ASDF_N...

5m

Service Requests

The screenshot shows the CERN Webcast homepage. At the top, there are navigation links for "Live Webcast", "Permanent Webcast", and "Archive". Below this, a "Live now" section features a video player for "CMS Week Agenda 3.04.2017 -" with a play button icon and an "Event Website" link. The bottom section is divided into "Upcoming Events" and "Recent Broadcasts".

Upcoming Events:

- 113th meeting of the...** by Choi Su Yong, hadley ...
07th Apr 2017 - 13:00 Europe/Zurich
- ATLAS Weekly** by Jakobs Karl
11th Apr 2017 - 14:00 Europe/Zurich
- DRAFT agenda: ATLA...** by Jakobs Karl
18th Apr 2017 - 14:00 Europe/Zurich

Recent Broadcasts:

- Precision Jet produ...** by Currie James
- New searches for s...** by Botta Cristina
- HNSciCloud Protot...** by Gasthuber Martin
- HNSciCloud Protot...** by ...

The screenshot shows a video player interface for a lecture titled "Precision Jet production for the LHC". The video is from a "Talk" series and is the first of 66 videos in the series. The video content shows a presenter in a lecture hall and a slide titled "Precision Jet Production for the LHC" by James Currie (IPPP, Durham) from the CHRM Theory Colloquium on 5th April 2017. The slide also features logos for CERN, IPPP, and MC@NNLO. The video player includes a progress bar showing 00:00:23 / 01:13:06 and a "Download" button. Metadata for the video is provided below the player.

Video Metadata:

- Author(s):** Currie, James (speaker) (IPPP Durham)
- Corporate author(s):** CERN. Geneva
- Imprint:** 2017-04-05. - Streaming video.
- Series:** (Theory Colloquium)
- Lecture note:** on 2017-04-05T14:00:00

Service Requests

Switch to display view

Indico WHO Meeting 7 Apr

Manage service request

Comment

The comment will be shown only if the request is accepted or rejected.

Webcast URL

`http://webcast.web.cern.ch/webcast/play.php?event={event_id}`

Custom URL to view the webcast. Can contain {event_id} which will be replaced with the ID of this event.

Accept

Reject

General settings

Timetable

Protection

Organization

Materials

Participants

Reminders

Surveys

Room Booking

Services

Agreements

Logistics

Videoconference

Speaker Release



Pedro Ferreira

pedro.ferreira@cern.ch

Event Information

Test Conference (Pedro)

🕒 30 Mar 2017, 11:00

📍 CERN

Contribution details

Talk: [Test](#)

Scheduled on: 30 Mar 2017 from 12:00 to 12:20

Place: CERN: 500-1-001 - Main Auditorium

CERN SPEAKER RELEASE

I hereby consent to the photographic, audio and video recording of my performance or presentation at CERN. The term "performance or presentation" includes any material incorporated therein including but not limited to text, images and references.

I hereby grant CERN a royalty-free license to use my image and name as well as the aforementioned recordings, in whole or in part, and to broadcast or distribute same in any format, in the furtherance of CERN's scientific and educational mission. I agree to the modification of the afore-mentioned recordings provided that the substance of the performance or presentation is preserved.

I hereby confirm that the content of my performance or presentation does not infringe the copyright, intellectual property or privacy rights of any third party. I have cited and credited any third party contribution in accordance with applicable professional standards and legislation in matters of attribution.

Do you agree with the stated above?

- I agree
 I disagree

📺 Switch to display view

⚙️ General settings

📅 Timetable

🛡️ Protection

📁 Organization

Materials

Call for Abstracts

Contributions

Paper Reviewing

Programme

Registration

Reminders

Sessions

Surveys

📍 Room Booking

📶 Services

📄 Agreements

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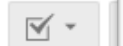
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RAVEM

Videoconference Rooms

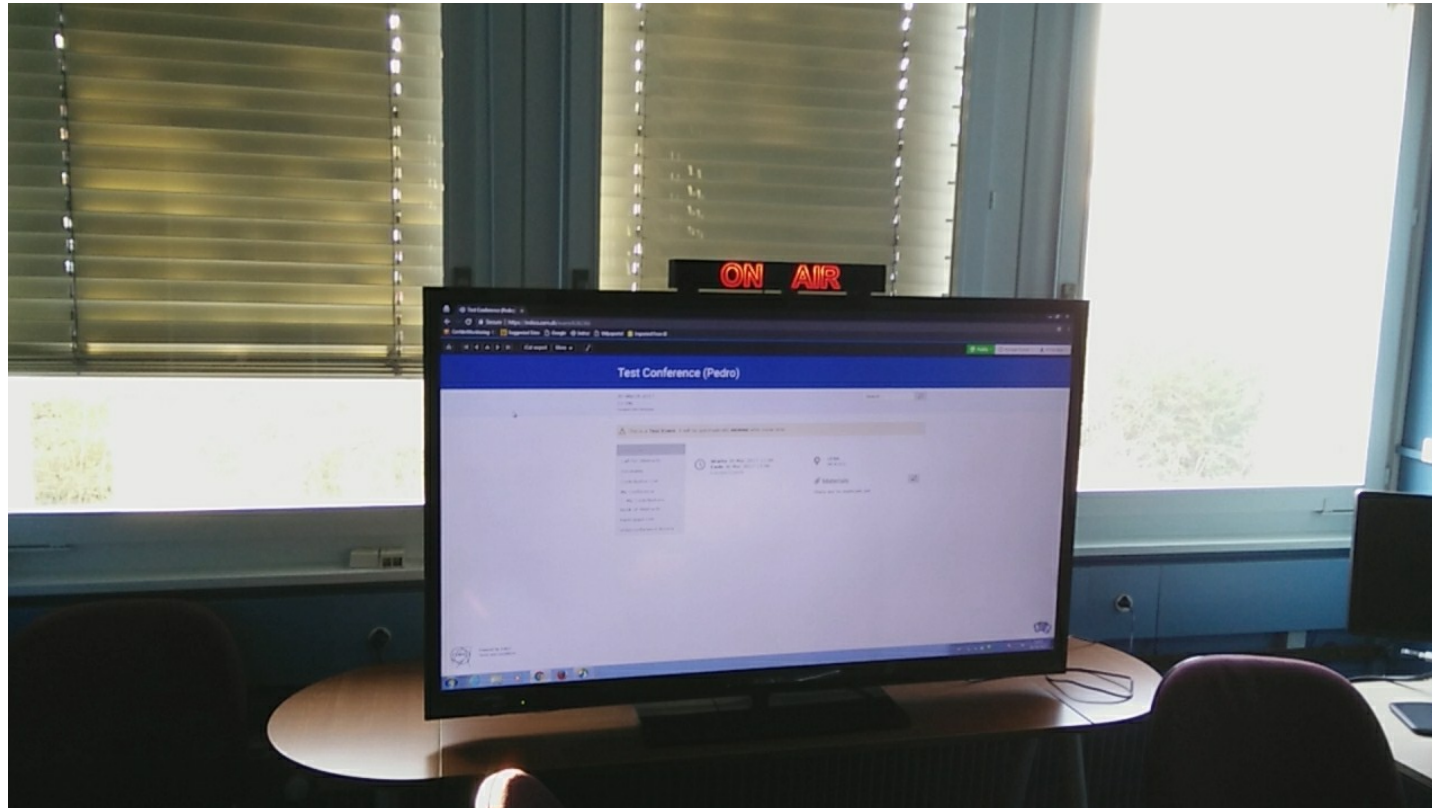


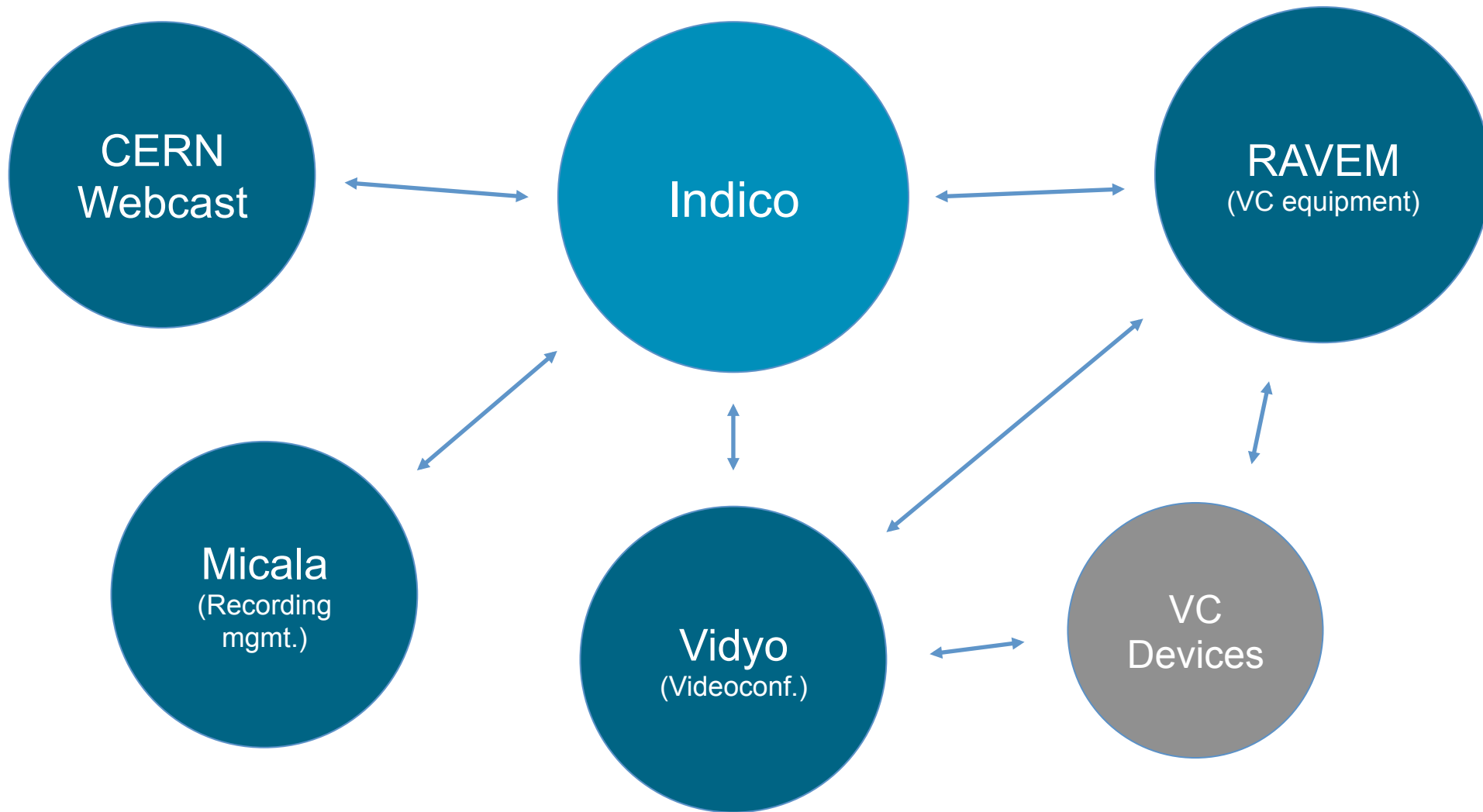
IT_-_Activities_and_Services_Discussion_Forum

Join



IT Amphitheatre







Search engine integration

 Europe/Zurich English Login



Home Create event Room booking Help

Search

Warning: since you are not logged in, only results from public events will appear.

First Indico Workshop Search  Search powered by 

Show advanced options

Result Type **1-10** of 37,161 results Sort by: Relevance  


Any Result Type

Adobe PDF (20336)

Microsoft PowerPo... (14105)

Microsoft Word (1180)

Minutes (585)

show more 

Author

Any Author

Shiers Jamie (199)

Jamie Shiers (178)


Zimmermann Frank (170)

Ian Bird (135)

Blondel Alain (135)

Bird Ian (109)

J.Shiers (106)


show more 

Modified Date


Any Modified Date

Past 24 Hours (19)


Your search results contain public documents only. Please sign in to search also protected documents.

 **First Indico Workshop**

Indico Event
Start date: 27/05/2013
End date: 29/05/2013
Location: CERN, 513-1-024
<http://indico.cern.ch/event/235520/>
[Similar Results](#)

 **Indico @ GSI**

Adobe PDF
Authors: Hesselbach Stefan
Contribution date: 27/05/2013
Size: 466KB
[Event Details - Contribution Details](#)
<http://indico.cern.ch/event/235520/session/5/contribution/15/material/slides/0.pdf>
[Similar Results](#)

 **Preparing Indico for the Future and the World**

Microsoft PowerPoint
Authors: Ferreira Pedro
Contribution date: 28/02/2014
Size: 18MB
[Event Details - Contribution Details](#)
<http://indico.cern.ch/event/296686/contribution/0/material/slides/0.pptx>
[Similar Results](#)

Electronic Payment


Payments

Event-wide payment settings



General settings

Configure general settings for payments.

 [Configure](#)

Payment methods



Manual

enabled



PostFinance
CERN

disabled

PayPal™

PayPal

disabled



Bank Transfer

disabled

PDF Conversion

Upload files

0.1 MB
unog_12112...

Remove file

Choose from your computer

Convert to PDF YES

If enabled, your files will be converted to PDF if possible. The following file types can be converted: doc, docx, odp, ppt, pptx, sxi

Pedro's test meeting

Monday, 9 November 2015 from 08:00 to 18:00 (Europe/Zurich)

CERN (513-1-024)

Manage

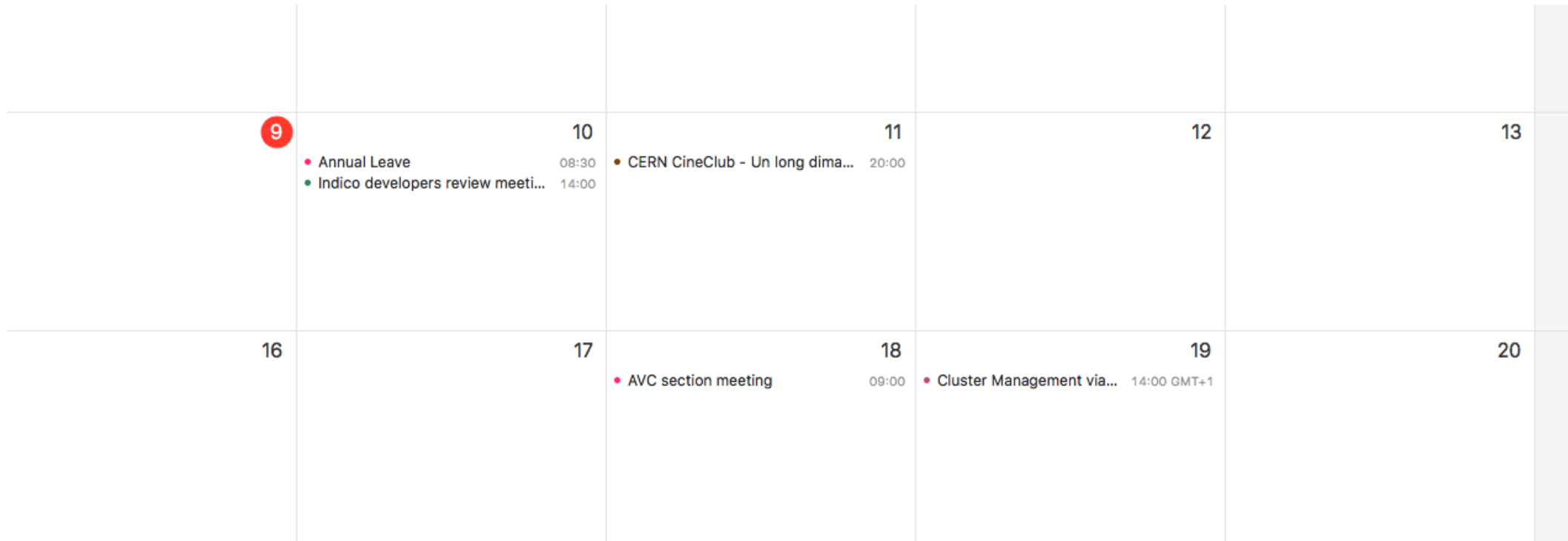
unog_12112015.pptx unog_12112015.pdf

PDF conversion pending

Monday, 9 November 2015

08:00 - 08:20	Introduction 20'	
	Welcome 15'	
08:20 - 09:20	First session	

Exchange integration



Physical Resources (Rooms)

250 Rooms

1700 bookings/week

The screenshot displays the Indico web interface for managing physical resources. At the top, the Indico logo is visible on the left, and the user's location (Europe/Zurich) and name (P. Ferreira) are on the right. A navigation bar below the logo contains links for Home, Create event, Room booking, Server admin, Services, My profile, and Help.

The main content area features a map of Meyrin, Switzerland, with several red location pins indicating room locations. Above the map, a navigation bar lists various room categories: Meyrin(202), PREVESSIN(28), POINT 1(17), POINT 2(3), POINT 5(5), POINT 6(2), and POINT 8(4). The map itself shows a satellite view of the area, including landmarks like Carrefour Market, Golf de St Genis, and Hotel ibis Saint Genis Pouilly Genève. The Google logo is visible in the bottom left corner of the map.

On the left side of the map, there is a sidebar menu with the following options: Book a Room (checked), Map of Rooms (selected), Calendar, My Bookings, Search (with sub-options for Search bookings and Search rooms), Room Blocking, and Administration.

On the right side, there is a search criteria panel with the following options: Building (input field), Around the building (checkbox), Floor (input field), Description (input field), Min. capacity (input field), Videoconference (checkbox), Webcast/Recording (checkbox), Only public rooms (checkbox), Auto confirm (checkbox), Only mine (checkbox), Is active (checked), Is available (checkbox), From (05/04/2017), To (05/04/2017), Hours (08:30 - 17:30), Type (Single reservation), Filter, and Reset buttons.

At the bottom right of the search criteria panel, a summary indicates: Total 244 room(s) / 100 building(s).

Once Mon 6 Aug 18:00 - 19:00 100

Equipment



Advanced



There are 15 rooms available for booking



6-2-024 - BE Auditorium Meyrin
BE
videoconference-support@cern.ch, helpd...

120



13-2-005
EP-AGS-SI
Please note that important noisy works ...

90



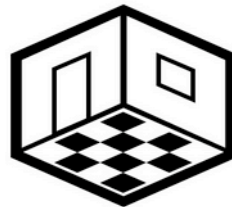
14-4-010
EP-ESE

Not specified



14-5-022
EP-ESE

Not specified



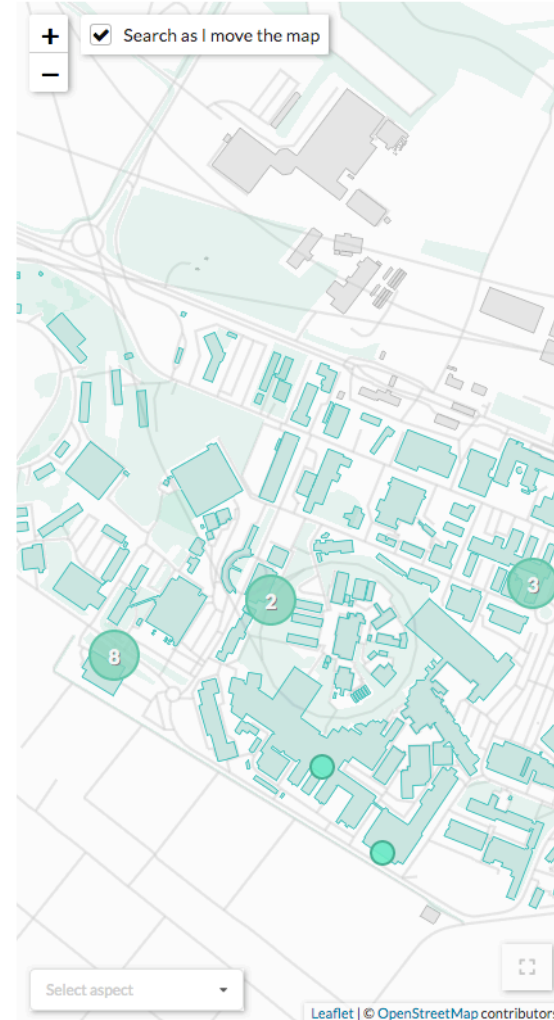
18-3-008 - CLIC Meeting room
BE-RF

Not specified



31-3-004 - IT Amphitheatre
IT-DI
Only IT personnel can book it more than ...

105





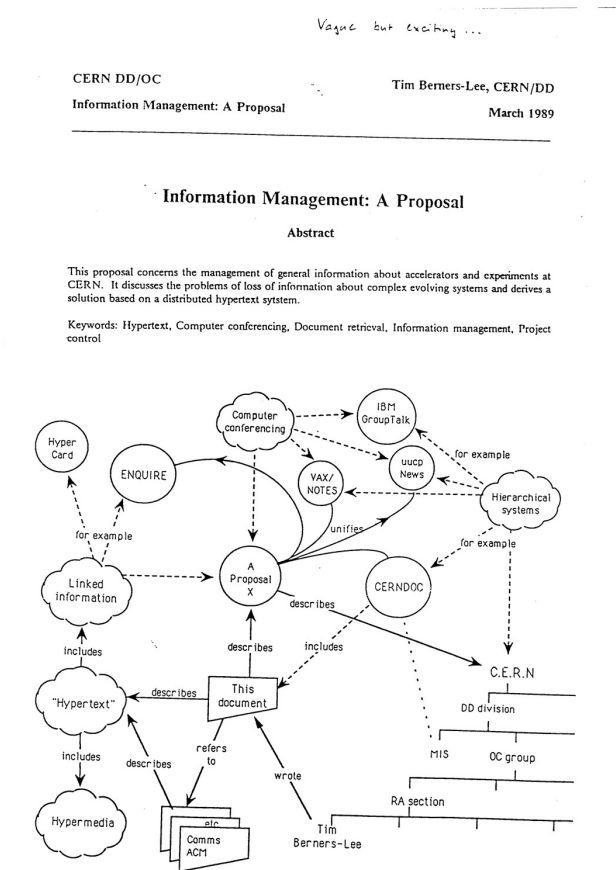
Milestones

Milestones

1989 – Tim Berners-Lee invents WWW at CERN
Sharing/archival of scientific data

1999 – CDS Agenda
Sharing/archival of meeting data
Indico “ancestor”

2002 – InDiCo EU Project starts



Milestones

2004 - Indico goes live at CERN

For CHEP 2004 conference

Focused on conference events



2007 – Indico replaces CDS Agenda

Support for meeting/lecture events

Room Booking introduced

Milestones

2009 – Collaborative tools

Integration with VC systems

“Growth” phase

2014 – Path to Indico 2.0

Growth accelerates

Massive rewrite of code base



Milestones

2017 – Indico 2.0

~98% code rewritten

New Database system (Postgres)

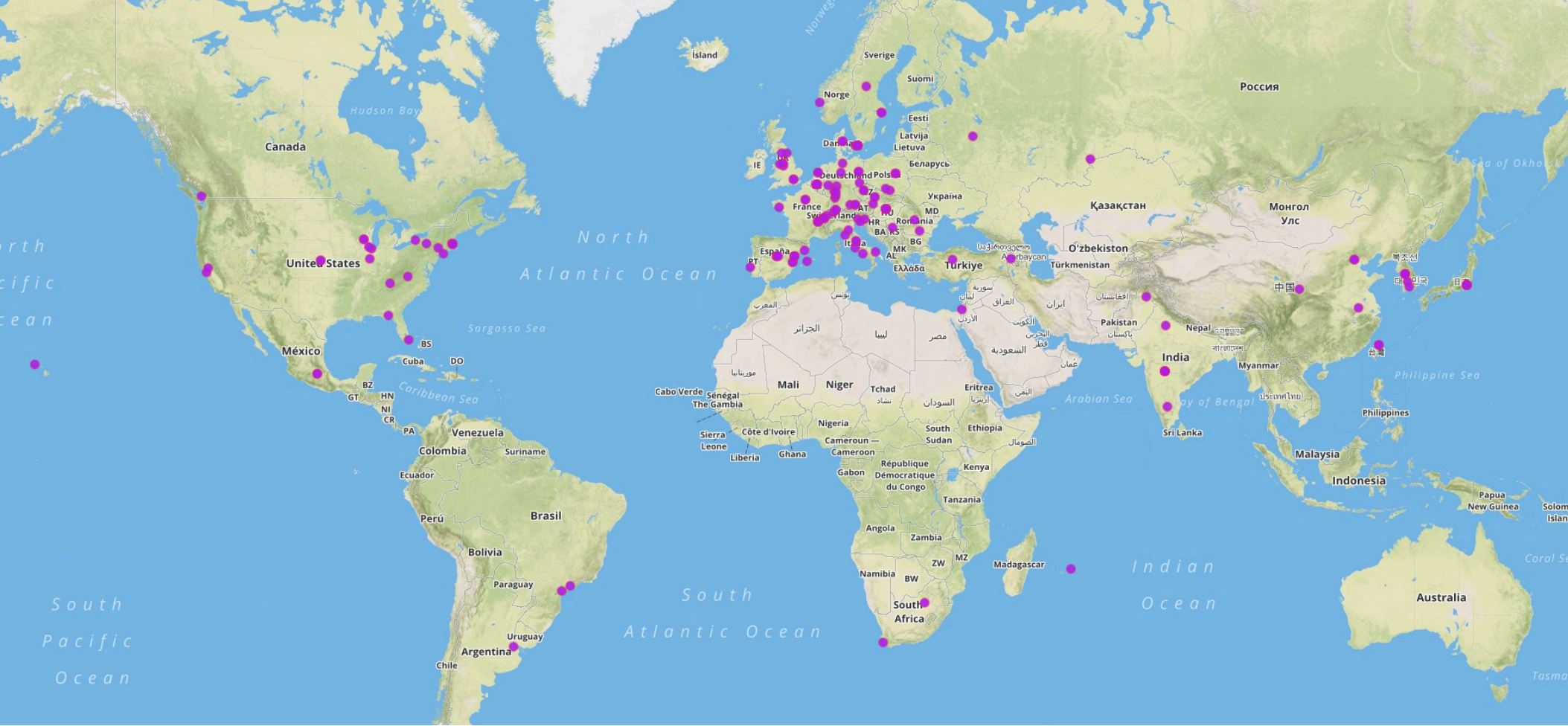
New technology stack (SQLAlchemy + Flask + Jinja...)

Modern and easier to use interface

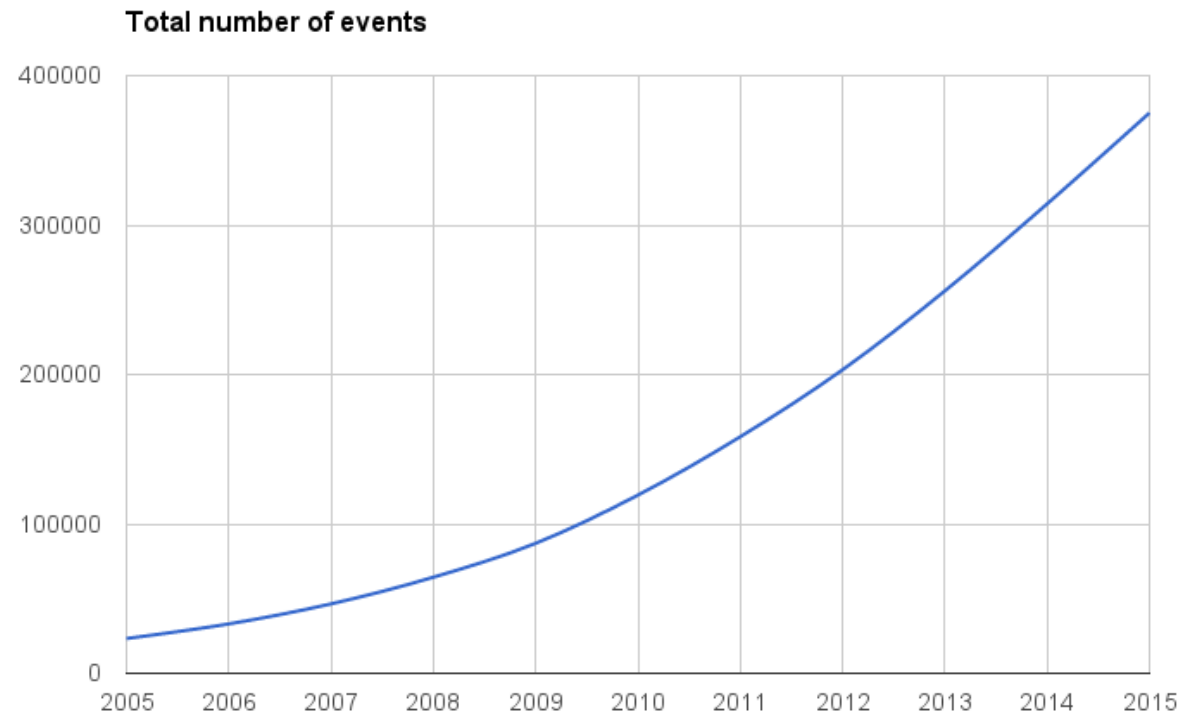
Lots of documentation



Community



Statistics (CERN)



Nowadays (CERN)

660.000 hosted events

51.000 so far this year

79.000 in 2018

10000 categories

~2.7M attached files

~120k users

Technology



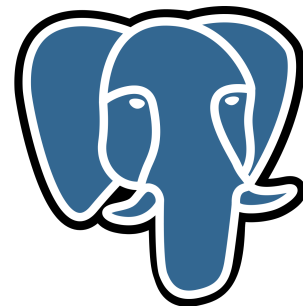
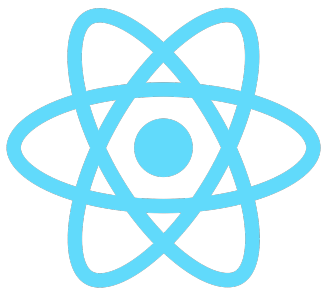
Indico

Open Source Software

Modern Python-based Stack

Extensible architecture (through plugins)

Official plugins – Payment, VC, Search...



Integrations

Integrations with internal tools

CERN Plugins

~~Not Open Source, since very CERN-specific~~

~~Available in internal code repository on GitHub!~~

A red car is shown from a rear perspective, moving through a car wash. The car is covered in white soap suds. The car wash brushes are red and blue, and they are in motion, creating a blurred effect. The car's taillights are illuminated with a yellow and red glow. The background is a grey, industrial-looking structure.

Indico as a Service

Open Source

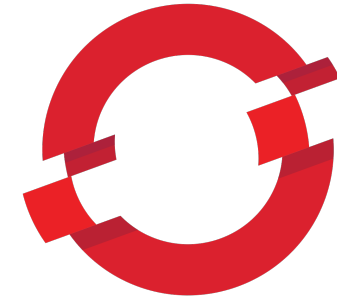
Myth: “you can’t make money out of it!”



Open Core < Open Source



GitLab



OPENSIFT



SENTRY



openstack®



Adam Rackis

@AdamRackis



Company: "We'd like to use SQL Server Enterprise"

MS: "That'll be a quarter million dollars + \$20K/month"

Company: "Ok!"

...

Company: "We'd like to use Babel"

Babel: "Ok! npm i babel --save"

Company: "Cool"

Babel: "Would you like to help contribute financially?"

Company: "lol no"

6:19 PM - Nov 16, 2017



5,018



2,488 people are talking about this



A handy guide to financial support for open source.

"I do open source work, how do I find funding?"

This document aims to provide an exhaustive list of all the ways that people get paid for open source work. Hopefully, projects and contributors will find this helpful in figuring out the best options for them.

The list below is roughly ordered from small to large. Each funding category links to several real examples (using topical articles or pages wherever possible instead of just a project's homepage.)

The categories are not mutually exclusive. For example, a project might have a foundation but also use crowdfunding to raise money. Someone else might do consulting and also have a donation button. Etc.

<https://github.com/nayafia/lemonade-stand>

The Indico Model

Client: We need feature A

Indico: That would make lots of sense in Indico.
Would you like to sponsor the development?

Client: Can we have it in three months?

Indico: Ehhm...

Client: One year?

Indico: OK!

Option 1: Development

Model: develop modules needed by others

At least 2 active “freelancers” + 1 company

Bonus: encourage them to contribute back to the community! 📦

Option 2: Hosting

Model: host Indico, charge monthly/yearly

Optionally provide support

3 known companies

VMs  → Containers 

Option 3: Both

Hosting + Support = constant revenue stream

Developments = peaks in funding



Goals

Goals for 2018+2019

Improvements in Conf. Management tools (2.1) 

Support for larger events

More flexibility

Improvements in Room Booking (2.2) 

Better UX/UI

Tighter integration with rest of application

Goals for 2019+2020

Improvements in Conf. Management tools (2.3)

- Especially reviewing workflows

- Modern UI features in Indico core

Python 3 (3.0)

- Migration to Python 3.7/3.8 (2.7 EOL)

- Unlisted events

- Groupware features

Medium/long term

Greater integration with Enterprise Calendaring

Even greater Scalability

Not only more events, also bigger events

Cloud technology - containers

Deploy Indico anywhere!

Mobile Interfaces

Conclusion

Indico is true Open Source!

Growing service ecosystem = opportunities

Hosting vs. Development

Open Source can generate a profit

When OSS is funded, everyone wins!

Resources

Project site: <https://getindico.io>

GitHub Repo: <https://github.com/indico/indico>

Sandbox: <https://sandbox.getindico.io>

Community forum: <https://talk.getindico.io>

CERN's Indico server: <https://indico.cern.ch>