an event management system

Pedro Ferreira, Dominic Hollis (CERN)
- Event Management System
- Collaborative effort - MIT License
- Core Developed at CERN
- With contributions from the United Nations, Max-Planck Institute for Physics and many others!
- 70+ developers over the years
The most popular event management system you never heard about

- 300+ servers
- > 350K users
- Initial growth in research, but growing beyond it
  - indic.un.org
  - events.canonical.org
  - indic.gnome.org
  - lpc.events
History

- 1999 - CDS Agenda
- 2002 - EU Project
- 2004 - Indico in Production
- 2007 - Room Booking
- 2008 - Interface overhaul
- 2013 - First Workshop
- 2015 - The UN starts using it
- 2017 - Indico 2.0 (rewrite)
- 2021 - Indico 3.0 (Python 3)
- 2023 - 1 Million Events surpassed at CERN 🎉
- 2024 - 20 years!

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FOSS at CERN

- Open science is at the core of CERN's mission
- Indico, Invenio, Zenodo, ROOT, ...
- CERN Open Hardware Licence (CERN OHL)
- CERN OSPO (Open Source Program Office)

also **using** a lot of FOSS!
A bit of publicity...

- **Sat 13:30 - K.3.201** - CERN's Open Source Storage Systems
- **Sat 14:20 - K.3.201** - CephFS at CERN in view of Disaster Recovery
- **Sat 16:00 - UB4.132** - Unlocking Research Data Management with InvenioRDM
CERN

- ~17,000 people on campus
- ~230 meeting rooms
- 100,000+ events/year
  - 1,000,000+ events total
- (Distributed) Meetings
- Conferences, workshops
Adoption at CERN

EVENTS BY YEAR

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Philosophy

- "General purpose" core
- Extension through plugins
- Themes (customization)
Under the Hood

- Python 3 🐍
- PostgreSQL 🐘
- Flask
- Celery
- SQLAlchemy
- React
- Semantic UI React
- among many others!
Extensions

- Video conferencing
- Payment Systems
- Automatic conversion to PDF
- Search
- Storage
- URL Shortening
- Internal Workflows (e.g. recording, visitors)
Electronic Payment
Workflows
Access Registration
Recording of Events
Hot desking
Themes / Customization
Themes / Customization
Check-in App (PWA)
Conclusion

- Extensible event management system
- Open Source
- Mature and actively maintained
- Ecosystem of plugins: official + 3rd party
- Thriving community
- Everyone is welcome!