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# Open Source at CERN: our OSPO

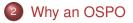
## Javier Serrano on behalf of the CERN OSPO Team

CERN, Geneva, Switzerland

CERN Open Source Program Office Inaugural Event 28 November 2023

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- Interlude: some CERN examples of Open Source
- 4 How the OSPO will operate



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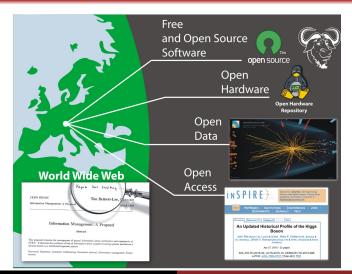
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Disseminat	ion			



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 How to interpret one's dissemination mandate in the





**CERN OSPO Team** 

#### Open Source at CERN: our OSPO

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The CERN	I OSPO			

The CERN OSPO is an open and inclusive service, working internally across departments with and for the entire CERN community, and externally as a visible interface to potential partners and the interested public. It is a consultation body providing advice.

See https://cds.cern.ch/record/2879995 for its abridged mandate.

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# Our mandate in a nutshell

## Internally

- Consult, advise, train on Open Source best practices, tools, licenses, etc.
- Advise on open-sourcing CERN software, gateware and hardware.
- Identify/track FOSS dependencies for critical services.
- Advise CERN management on Open Source matters.

### Externally

- Showcase CERN contributions to Open Source.
- Facilitate partnerships with external entities.
- Promote CERN as an Open Source lab.

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# Other things the OSPO will do:

- Maintain a catalogue of open-source software and hardware published by CERN.
- Organise courses in collaboration with Learning & Development Group.
- Liaise with Purchasing Group in matters regarding the procurement of open-source products.
- Define metrics for Open Source adoption at CERN and publish a yearly report.

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## To answer recurrent questions

### From designers/developers

"I want to open-source my work. How should I do it? How to find the time to open-source right? How to create and nurture a thriving community around my project?"

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## To answer recurrent questions

#### From management

"How are we fulfilling our Open Science mandate as regards software and hardware? What pieces of open-source software do we strategically depend on? How are we making sure they are sustainable?"

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# To answer recurrent questions

### From outside CERN

"What is CERN's contribution to the world in software and hardware? What is the position of CERN on issue xyz related to Open Source?"

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## **Information Management: A Proposal**

#### Abstract

This proposal concerns the management of general information about accelerators and experiments at CERN. It discusses the problems of loss of information about complex evolving systems and derives a solution based on a distributed hypertext system.

Keywords: Hypertext, Computer conferencing, Document retrieval, Information management, Project control

#### See https://home.cern/science/computing/birth-web/licensing-web

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# Indico (https://getindico.io/)



November 28, 2023 CERN
Europe/Zurich timezone
There is a live webcast for this event.

#### Overview

Timetable

Registration

Videoconference

Speakers

How to get there

#### CERN OSPO Team

Open.Source@cern.ch

#### Welcome to CERN's OSPO!

Please join us for the inaugural event to celebrate its birth, whether you are a member of the community or an interested guest!

Below is the registration for joining the inaugural event in person on November 28th. A live webcast is also available for that day. Join us!

The inaugural event is followed by a more community/CERN focused workshop on the next day (Nov 29th). Details for the second day are available here.



CERN 81/R-003C - Science Gateway Auditorium C Go to map

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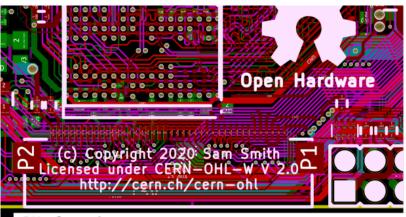
# InvenioRDM partners

https://inveniosoftware.org/products/rdm/



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KiCad				





@supyrow 9 years ago

That is the sexiest thing I have seen in a long time. THANK YOU THANK YOU CERN !!!



(from https://www.youtube.com/watch?v=CCG4daPvuVI)

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# White Rabbit



www.ohwr.org/projects/white-rabbit/wiki/wrcompanies

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	Commercial	Non-commercial
Open	Winning combination. Best of both worlds.	Whole support burden falls on developers. Not scalable.
Proprietary	Vendor lock-in.	Dedicated non-reusable projects.

We are currently exploring this combination with the support of CERN's Knowledge Transfer Group.

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HPM7177	ADC			



Re: HPM7177 ADC from CERN « Reply #148 on: April 08, 2021, 05:19:07 pm »

#### (from https://www.eevblog.com/forum/metrology/hpm7177-adc-from-cern)

CERN must be a gold mine for us electronic engineers! I am realy glad that CERN is making the 8,5 digit DVM open to the public! Is the LTC2378-20, LT1236, THS4531-based driver and SMN resistor networks also open to the public?

#### @DrJohnnyLemonhead 2 years ago

That feeling when you take 30 minutes of your day to bask in the raw magnificence of a beautiful machine coming together. Wonderful work Marco and nothing but love to CERN for open sourcing this. Magnificent work by everyone. Thank you for sharing.

r G Reply (from https://www.youtube.com/watch?v=D28uSzCs7-k)

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## The main use case: "I want to open-source my project"

#### Software

Get in touch by writing to Open.Source@cern.ch

### Hardware

The entry point for dissemination in this case is KT. Contact them for advice and the OSPO will be involved if you decide to open-source the designs.

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# Most common questions will hopefully be answered in:

### The OSPO website (https://opensource.cern)

This site contains information about the OSPO itself and is more "outreachy" in nature.

## The documentation website (https://ospo.docs.cern.ch)

- Best practices for open-sourcing sw/gw/hw
- Advice on how to participate in external projects
- Also how to integrate external open-source components

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# "My question is not answered in any of the above"

## For questions which you feel at ease discussing in public:

Ask in the forum (https://ospo.web.cern.ch/). In that way, others will also benefit from the discussion.

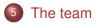
## For any other question:

Write to Open.Source@cern.ch or get in touch directly with any member of the OSPO.

See the list at https://opensource.cern/who\_we\_are.

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The CERN OSPO is a community endeavour. We want many people to participate. This is the current list of members: Matthias Bonora (TE), Hamza Boukabache (HSE), Andriy Boychenko (HSE), Sunje Dallmeier-Tiessen (RCS-SIS), Han Dols (KT), Philip Elson (BE), Axel Naumann (EP, Chair), Giacomo Tenaglia (IT), Javier Serrano (BE) and Alexander Yohei Huss (TH), with the precious help of Victoria Huisman Sigcha (IT-CA) Hafsa Saboor (RCS-SIS) and Antonia Winkler (RCS-SIS).

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Links and further discussion						



OSPO website: https://opensource.cern Documentation website: https://ospo.docs.cern.ch OSPO forum: https://ospo.web.cern.ch/ OSPO email address: Open.Source@cern.ch

Join us for more in-depth discussion tomorrow at 14:00 in the Main Auditorium: https://indico.cern.ch/event/1327563/.