



Persistent identifiers as a facilitator for Open Scholarship

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For the THOR consortium

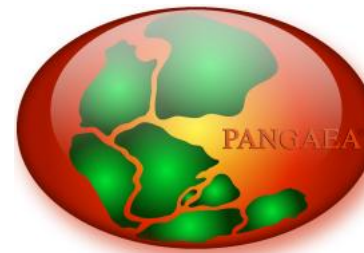
Agenda

- Partners
- Objectives
- Work ahead of us
- Use cases
- Early achievements
- How to get involved



ORCID

EMBL-EBI



Technical and Human infrastructure for Open Research

Establishing **seamless** integration between articles, data, and researchers across the research lifecycle

Making persistent identifier use for people and research artefacts *the default*

Comprises a technical **and** a human component

<http://project-thor.eu>

THOR facts

- 2.5 years
- Research, implementation/services, community training and support
- Built on established tools – THOR enhances and connects
 - 4 early adopter communities
- Community driven
 - Development and support
 - Based on established partnerships

Research and development

- Identifier interoperability throughout
 - Authors, contributors
 - Data, non traditional objects
 - Papers
 - Funding, Affiliations, ...

- Integrate PID in data publishing workflows and enable data citation support
 - Publishers, repositories, 3rd party services

- Facilitate data discoverability through various entry points

- Enable access to information for different use cases

Use case: Researchers

Connect with research workflow

Delete
Save
Submit

Submit an Analysis for CMS

THIS IS JUST A DEMO. DATA IS NOT STORED

Access to all submitted data will be restricted to the CMS collaboration only.

Basic Information

E.g. CMS-ANA-2012-049

Physics Information

Primary Data Set

 + Add Primary Data Set

MC Data Set Path

 + Add MC Data Set Path

Trigger Selection

 + Add Trigger Selection

Physics Objects

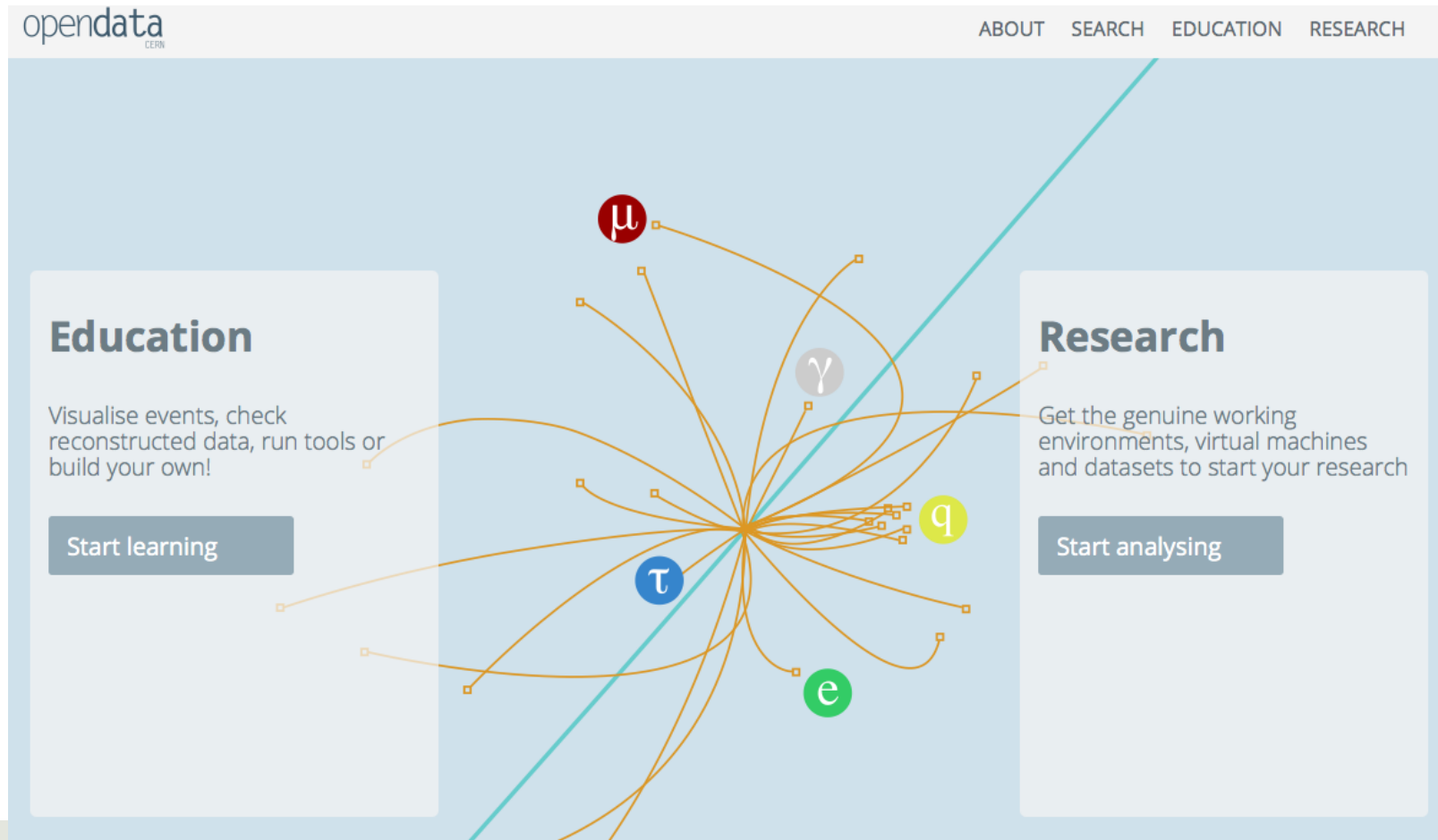
My uploads

Unsubmitted

Untitled
just now
🗑️

- Submit an Analysis for CMS
 - Basic Information
 - Physics Information
 - Post-AOD Processing
 - Post-AOD Processing
 - Final Selection Step
 - Internal Documentation
 - Internal Discussion
 - Presented already?
 - Published already?
 - Other Information
 - Submit

Facilitating seamless Open Science



opendata
CERN

ABOUT SEARCH EDUCATION RESEARCH

Education

Visualise events, check reconstructed data, run tools or build your own!

Start learning

Research

Get the genuine working environments, virtual machines and datasets to start your research

Start analysing

Incentivize Open Science

HEP :: HEPNAMES :: INSTITUTIONS :: CONFERENCES :: JOBS :: EXPERIMENTS :: JOURNALS :: HELP

Cranmer, Kyle S.

Profile Name

2015-09-11 10:56:15

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PERSONAL INFORMATION

PUBLICATIONS AND OUTPUT

STATS

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 CERN-LHC-ATLAS
 CERN-LEP-ALEPH
Identifiers BAI: K.S.Cranmer.1
 INSPIRE: INSPIRE-00074922
 ORCID:

Publications Datasets External

1. Data from figure 1 from: Search for gluinos in events with two same-sign leptons, jets and missing transverse momentum with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV
2. Data from figure 1 from: Search for gluinos in events with two same-sign leptons, jets and missing transverse momentum with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV
3. Additional data from: Search for gluinos in events with two same-sign leptons, jets and missing transverse momentum with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV
4. Data from figure 2 from: Search for gluinos in events with two same-sign leptons, jets and missing transverse momentum with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV
5. Data from figure 2 from: Search for gluinos in events with two same-sign leptons, jets and missing transverse momentum with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV
6. Data from figure 3 from: Search for gluinos in events with two same-sign leptons, jets and missing transverse momentum with the ATLAS

Co-Authors

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Papers

All papers 519
 Single papers authored 12

Citations Summary

619 papers found, 615 of them citeable (published or arXiv)

| | Citeable papers | Published only |
|--|-----------------|----------------|
| Number of papers analyzed: | 615 | 515 |
| Number of citations: | 51 421 | 48 621 |
| Citations per paper (average): | 83,6 | 94,4 |
| h_{HEP} index [?] | 102 | 100 |

Breakdown of papers by citations:

| | Citeable papers | Published only |
|----------------------------------|-----------------|----------------|
| Renowned papers (500+) | 11 | 10 |
| Famous papers (250-499) | 13 | 13 |
| Very well-known papers (100-249) | 81 | 78 |

Use case: Service Provider

From Pilot to Service

📅 August 17, 2015 👤 mfenner

Today I am pleased to announce the launch of a new service, DataCite Labs Search – the service is available immediately at <http://search.labs.datacite.org/>. This is one of THOR's first services and is based on work in the earlier EC-funded ODIN Project.

The ODIN project launched the [DataCite/ORCID claiming tool](#) in June 2013. The DataCite/ORCID claiming tool allows users to add works from the DataCite Metadata Store (MDS) to their ORCID profile. This was a successful pilot, enabling researchers to add their datasets to the ORCID service infrastructure.

THOR, the follow-up project to ODIN, started in June 2015. One of the goals of THOR is to build sustainable persistent identifier services based upon the piloting work done in ODIN.

The new DataCite Labs Search includes all functionality of the DataCite/ORCID claiming tool, but we have made some additional changes:

RECENT POSTS

- 🕒 [Interactive API docs for ORCID](#)
September 11, 2015
- 🕒 [Digging into DataCite Metadata using R](#)
September 8, 2015
- 🕒 [DOI for geoscience data – how early practices shape present perceptions](#)
August 24, 2015
- 🕒 [From Pilot to Service](#)
August 17, 2015
- 🕒 [Persistent Identifiers: Enabling Services for Data Intensive Research](#)
August 11, 2015

<http://search.labs.datacite.org/>

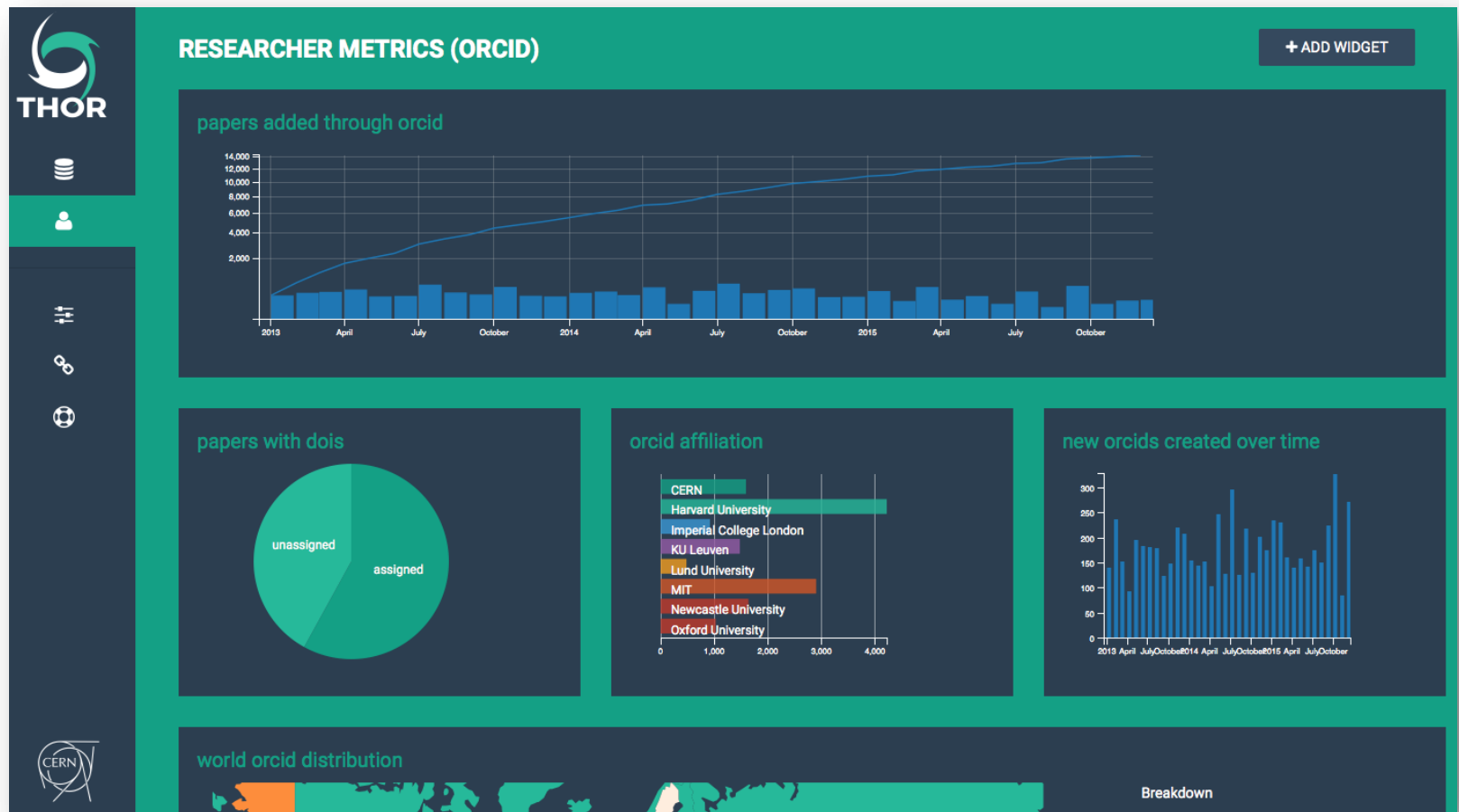
? ☰  Sign in with ORCID



Enter search term



Use case: Institutions/3rd parties





Metrics dashboard

- Global development of persistent identifier development [author, research objects, other resources]
- Project outputs and impact

Why?

- To target and tailor THOR efforts – services and training
- To inform support and policy actions
- To identify partners and facilitate new services
- To assess quality of services, improve them and build **trust**

Mobilizing to build trust: empowerment and engagement

Training

- Foster adoption
 - of persistent identifiers
 - workflows based on PIDs to incentivize Open Science
- Work with “integrators” and researchers
 - Libraries, publishers, data centers, researchers
- Ambassador network
 - Benefit from the expertise of a widespread network
 - ... and spread the work yourself
- Webinars, seminars, online tutorials, ...

Become a THOR Ambassador

What's involved?

- Helping your community adopt PIDs, including ORCIDs and DOIs
- Staying up to date with the latest developments in identifier infrastructure
- Publicising PID use through blog posts, social media, conferences and more
- Sharing your experiences with the wider community and encouraging others to get involved
- You may be invited to contribute a guest post to the project blog



Early achievements

- <http://search.labs.datacite.org/>
 - updated user interface to make it easier to find, access and cite DataCite content
 - ORCID integration (search and claiming)
 - links to related resources (from DataCite metadata and Data-Level Metrics Pilot)
- Metrics dashboard to observe global PID developments to inform support and policy actions
 - Available as a first prototype
- Report on artefact, contributor, and organisation relationships in the ORCID and DataCite metadata schema (available on Zenodo)

Get involved!

- Ambassador network, training/webinars/seminars etc.
- Contact us, give feedback and connect your resource or service

Your feedback

- Will directly inform the next development
- Could help us connecting to the right information resources and partners
- Will help us finding the pieces and use cases we did not think about (yet)

Questions of the day

Open Scholarship requires transparency at all levels of the research life-cycle, which effectively leads to trust and uptake.

What/who do we need to **mobilize to build this trust**?

How to deconstruct Open Scholarship into basic ideas/elements and e-infra-matching elements?

How can e-Infrastructures **facilitate** Open Scholarship?

- ▣ Services (including training and support), costs, incentives for use, barriers and how to go about solving them.

Conclusions

- Improve persistent identifier interoperability globally
- THOR enhances and connects existing services
 - Open Scholarship could become easy, “seamless”, intrinsic
- Research on known gaps → new services and connections
- Early adopter communities to show best practices → transfer knowledge and tools/services to others
- Make PIDs the default

Thank you