INVENIO 2.0

THE NEXT GENERATION DIGITAL LIBRARY.

TIND

SERVICE PROVIDER
CERN SPINOFF

CERN

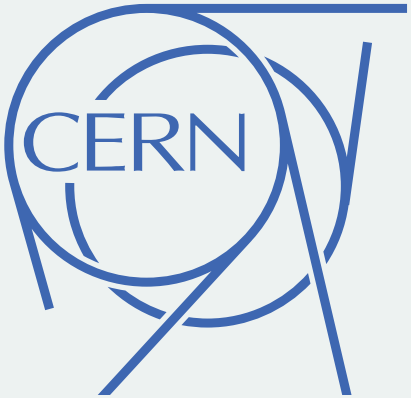
spin-off

INVENIO

OPEN SOURCE GPL
RELEASED IN 2002
2.0 SINCE 2015

CERN

technology


CERN


Eurofound


MAX-PLANCK-GESELLSCHAFT


UNESCO


UNITED NATIONS
HUMAN RIGHTS
OFFICE OF THE HIGH COMMISSIONER


UNOV
United Nations Office at Vienna


Fermilab


EPFL


SLAC

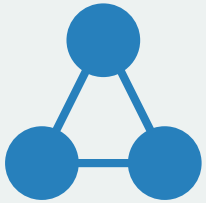

ILO


THE
GRADUATE
INSTITUTE
GENEVA


1542
Universidad
Zaragoza


DESY

AGENDA



FEATURES & ARCHITECTURE

COMMON APPLICATIONS

TECHNOLOGY «HIGHLIGHTS»

N.B. SOME OF THIS STUFF IS STILL IN BETA.

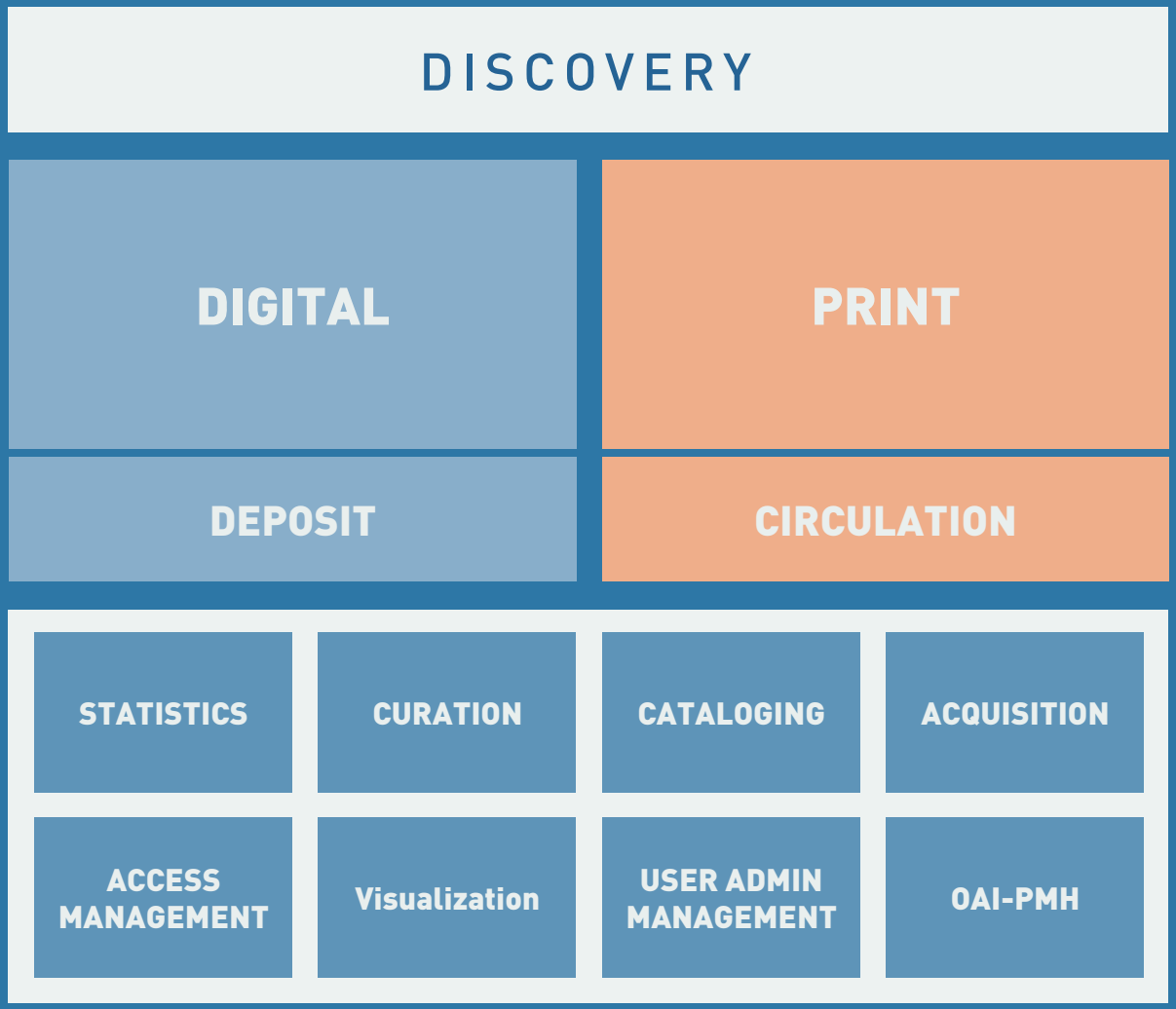
FRONT-END

BACK-END

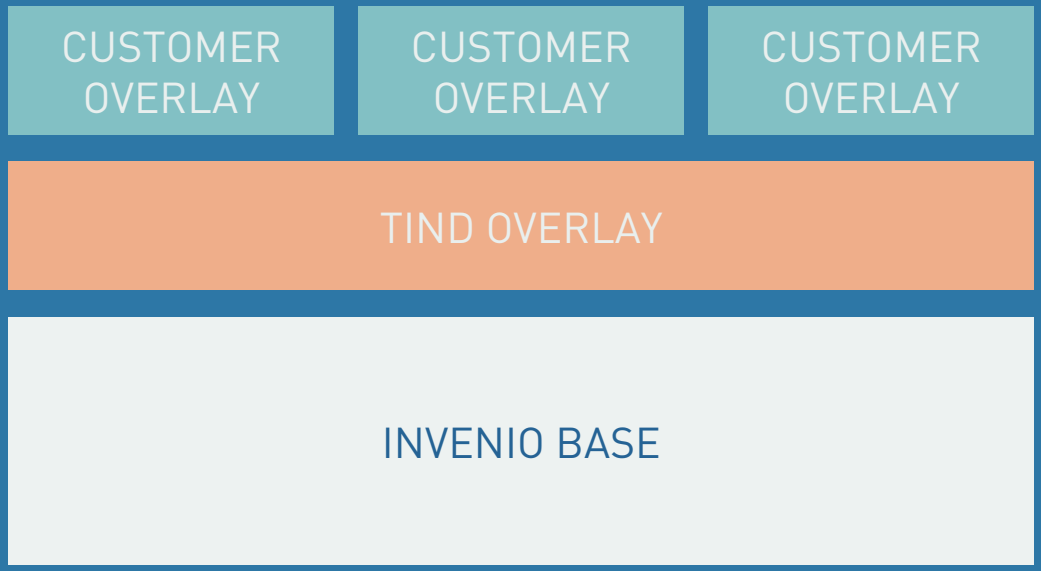
PERSISTENCE

COMBINE +60 MODULES

DEVELOP	MODULE 9	MODULE 10	MODULE 11	MODULE 12
+				
CUSTOMIZE	MODULE 5	MODULE 6	MODULE 7	MODULE 8
+				
OUT OF THE BOX	MODULE 1	MODULE 2	MODULE 3	MODULE 4

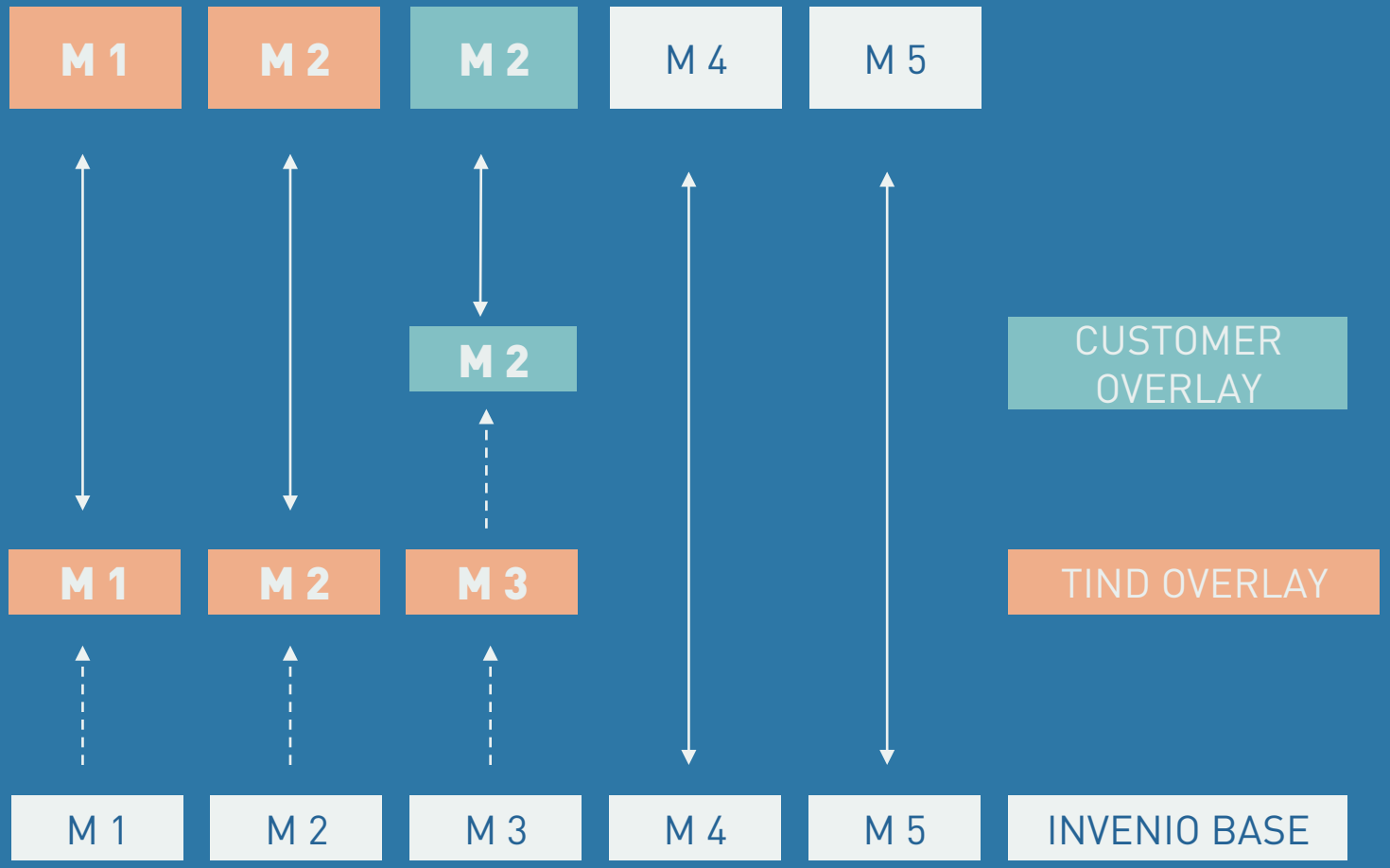

DISCOVERY
DIGITAL
PRINT
DEPOSIT
CIRCULATION
STATISTICS
CURATION
CATALOGING
ACQUISITION
ACCESS MANAGEMENT
Visualization
USER ADMIN MANAGEMENT
OAI-PMH

FLEXIBLE OVERLAY STRUCTURE

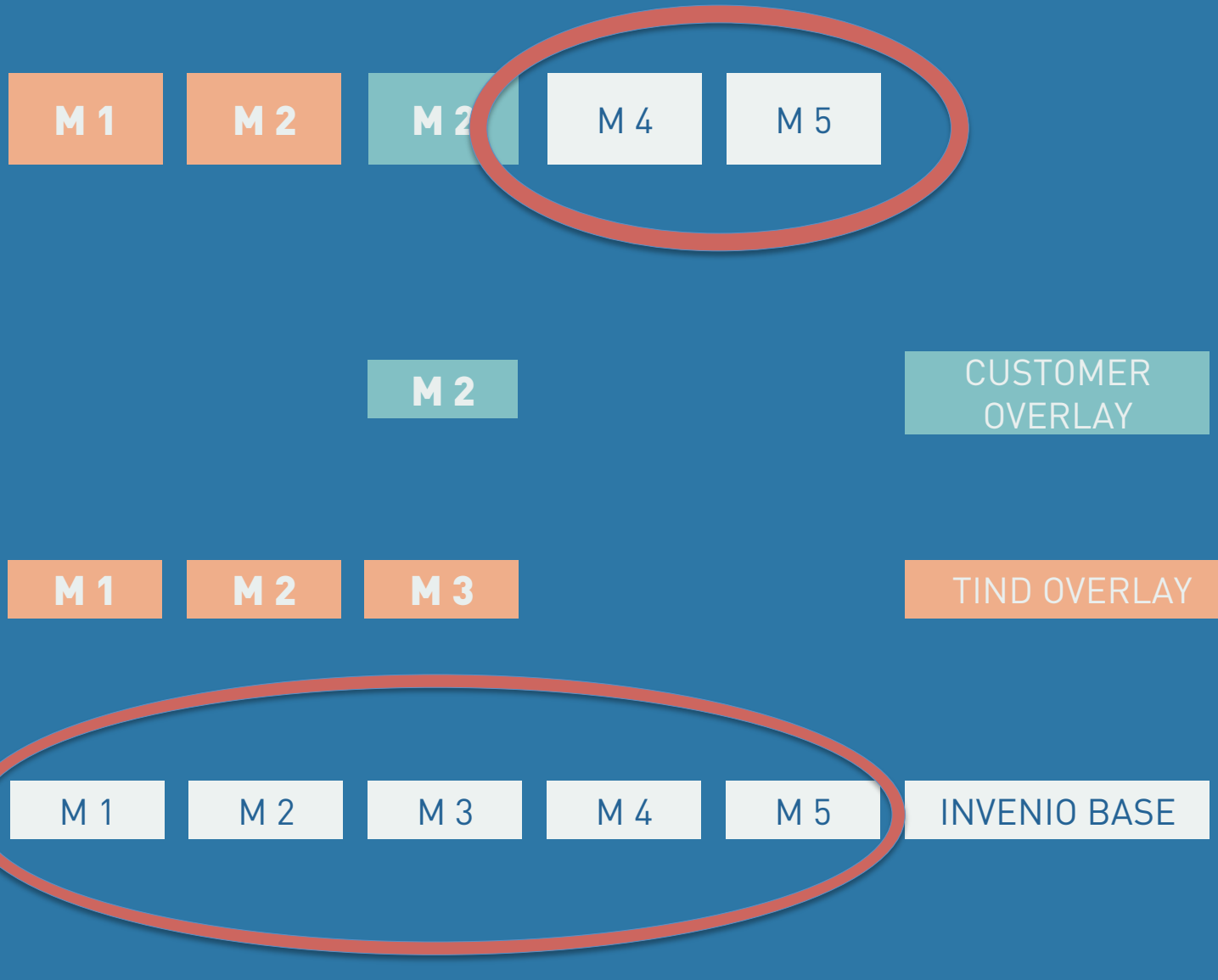


FLEXIBLE OVERLAY STRUCTURE

FLEXIBLE OVERLAY STRUCTURE



FLEXIBLE OVERLAY STRUCTURE



12 YEARS OF OPEN SOURCE SOFTWARE DEVELOPMENT:

SEAMLESS UPDATES WHILE MAINTAINING LOCAL CUSTOMIZATIONS.

COMMON APPLICATIONS

INSTITUTIONAL REPOSITORY

RESEARCH DATA MANAGEMENT

INTEGRATED LIBRARY SYSTEM

PUBLISHING PLATFORM

INSTITUTIONAL REPOSITORY

DOCUMENTS

MULTIMEDIA

SPECIAL

INSTITUTIONAL REPOSITORY

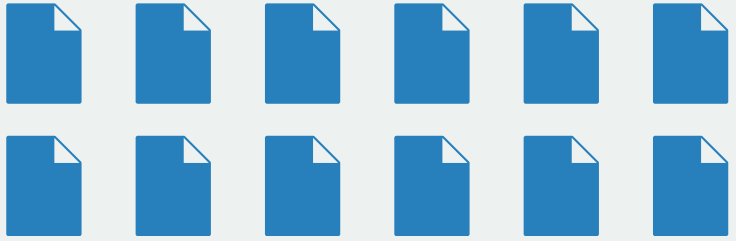
2-STEP REGISTRATION WORKFLOW

STEP 1. + **'BASE' METADATA**

Register metadata that is consistent for all files in one single operation.

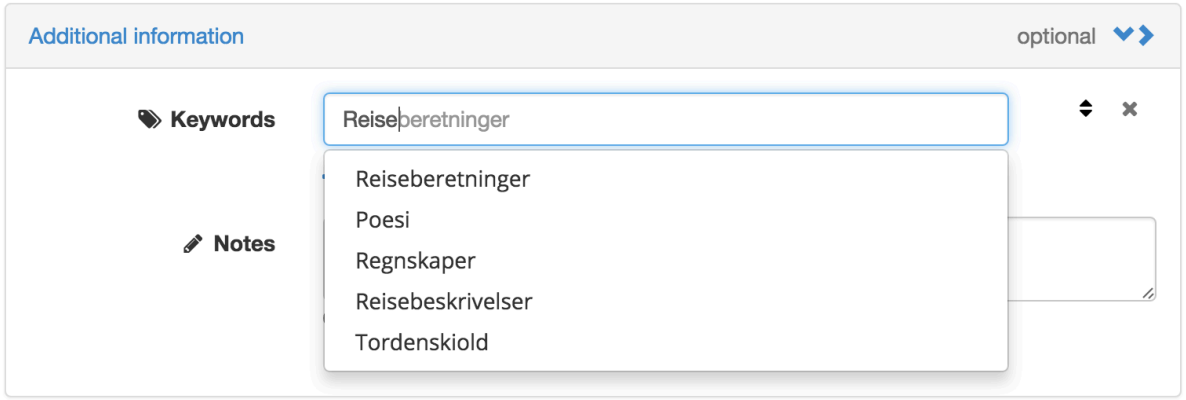
STEP 2. + **'ITEM' METADATA**

Register metadata that is unique for each file in a unified workflow.



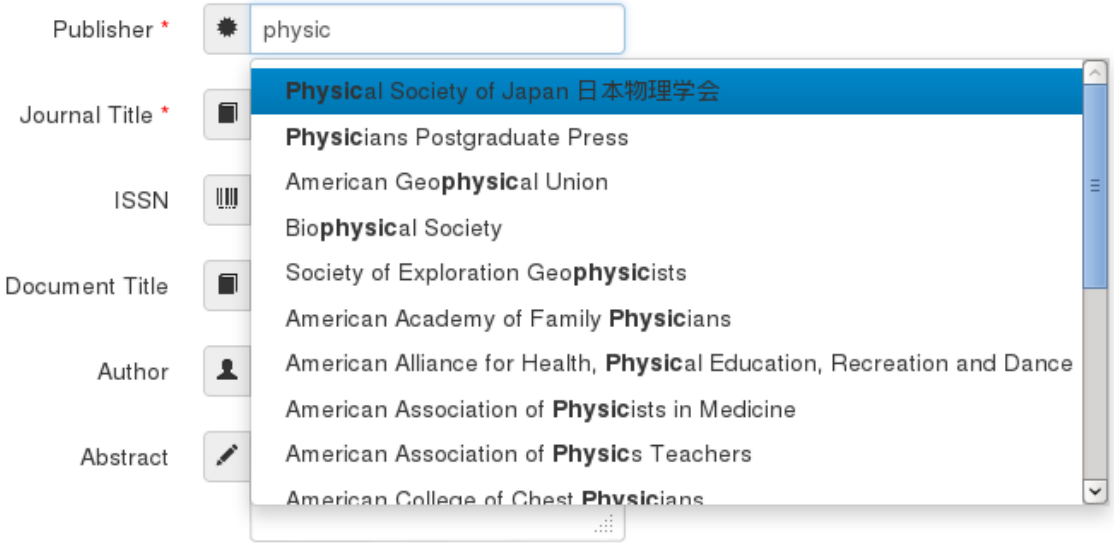
AUTOCOMPLETION OF FIELDS

INTERNAL KNOWLEDGE BASE

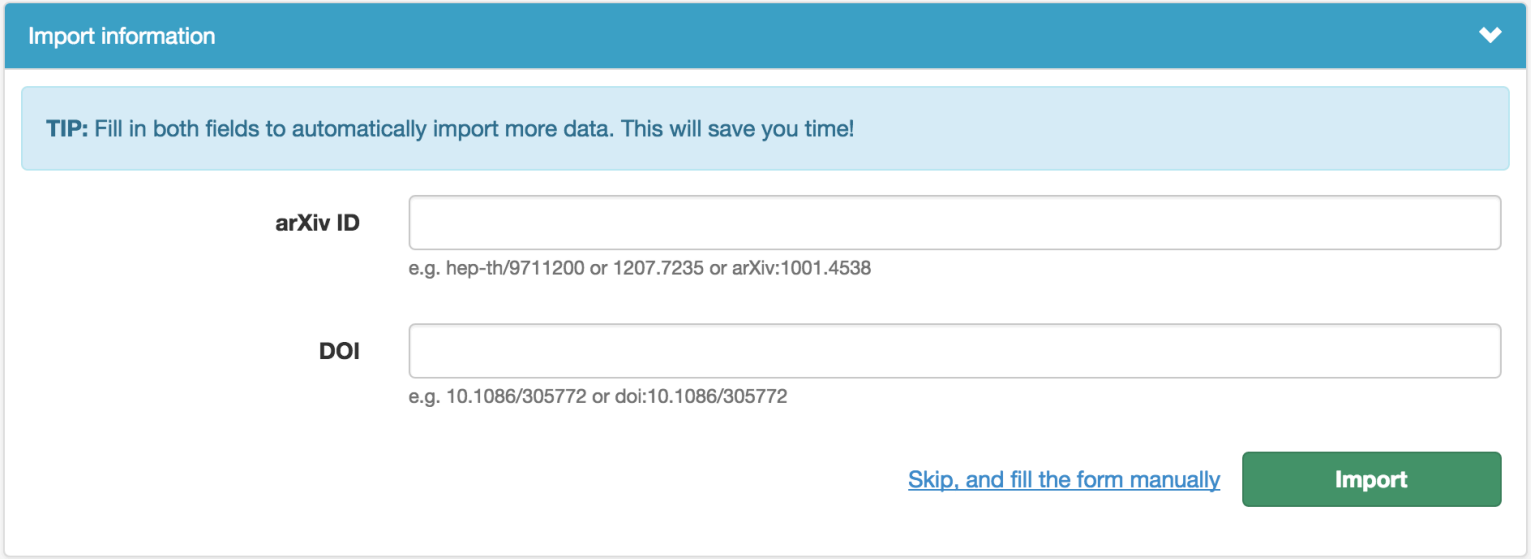


EXTERNAL KNOWLEDGE BASE

SHERPA RoMEO



METADATA IMPORT BASED ON DOIs



CUSTOMIZABLE DEPOSIT FORM

New upload

Instructions: (i) Press "Save" to save your upload for editing later, as many times you like. (ii) Upload and remove extra files in the bottom of the form. (iii) When ready, press "Submit" to finalize and make your upload public.

Type of file(s) required

Publication Poster Presentation Dataset Image Video/Audio Software

Type of publication

Journal article

MARC -> JSON

BECAUSE NOT EVERYTHING CAN OR SHOULD BE DESCRIBED WITH MARC.

DATA MODEL: DATA STORED IN JSON

```
{
    "title": ”Invenio 2.0:”
    ”subtitle": ”The new generation Digital Libraries”,
    "firstName": “Kenneth”
    "lastName": “Hole”
}
```

DATA MODEL: EXAMPLE OF JSON SCHEMA

```
{
        ”name": "Example Schema",
        "type": "object",
        "properties": {
                    ”tile": {
                                "type": "string"
                    ”subtitle": {
                                "type": "string”

                    "firstName": {
                                "type": "string"
                    },
                    "lastName": {
                                "type": "string"
                    },
                    },
        "required": [”title”, firstName", "lastName"]
}
```

DATA MODEL: JSON Alchemy

```
title:
    schema:
        {'title': {'type': 'dict', 'required': False}}
    creator:
        @legacy((("245", "245__","245__%"), ""),
                ("245__a", "title", "title"),
                ("245__b", "subtitle"),
         marc, '245..', {'title': value['a'], 'subtitle': value[b]}
         dc, 'dc:title', {'title': value}

    producer:
        json_for_marc(), {'a': 'title', 'b': 'subtitle'}
        json_for_dc(), {'dc:title': ''}
```

DATA MODEL: JSON SCHEMAS

- Change bases on use cases (books vs, research data, physic vs. chemistry)
- Migration purposes
- Preservation purposes

RESEARCH DATA MANAGEMENT

DATASETS

SOFTWARE

IMAGES

RESEARCH DATA MANAGEMENT

DataCite
FIND, ACCESS, AND REUSE DATA

ASSIGN **DIGITAL OBJECT IDENTIFIERS** TO MAKE THE DATA CITEABLE.

GitHub

GITHUB INTEGRATION FOR SEAMLESS PRESERVATION OF **SOFTWARE AND CODE**.

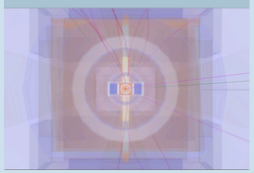
Recline.js
relax with your data

VISUALIZE DATA USING BUILT IN HTML AND JAVASCRIPT APPLICATIONS.

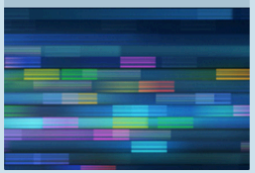
CMS is releasing data in the same format as used in data analysis by CMS physicists. A CMS-specific analysis framework is needed, and it is provided as a Virtual Machine image with the CMS analysis environment. The data can be accessed directly through the VM image. Basic information of the data contents is provided in About CMS and in About CMS Physics Objects. The original data are in primary datasets, i.e. no selection nor identification criteria have been applied (apart from the trigger decision), and these have to be applied in the subsequent analysis step. For the first release, no simulated Monte Carlo datasets are provided

VMs

Getting started!



Software and tools



CMS Primary Datasets

CMS primary datasets are AOD (Analysis Object Data) files, which contain the information that is needed for analysis

Total records:

14

CMS Derived Datasets

This collection includes data that have been derived from the CMS primary datasets

Total records:

37

CMS Tools

This collection includes tools, with which the CMS open data can be accessed and used

Total records:

7

CMS Validated Runs

This collection includes CMS Validated Runs

Total records:

1

CMS Learning Resources

This collection includes learning resources that use CMS public data

Total records:

6

CMS Open Data Instructions

This collection contains CMS open data instructions.

Total records:

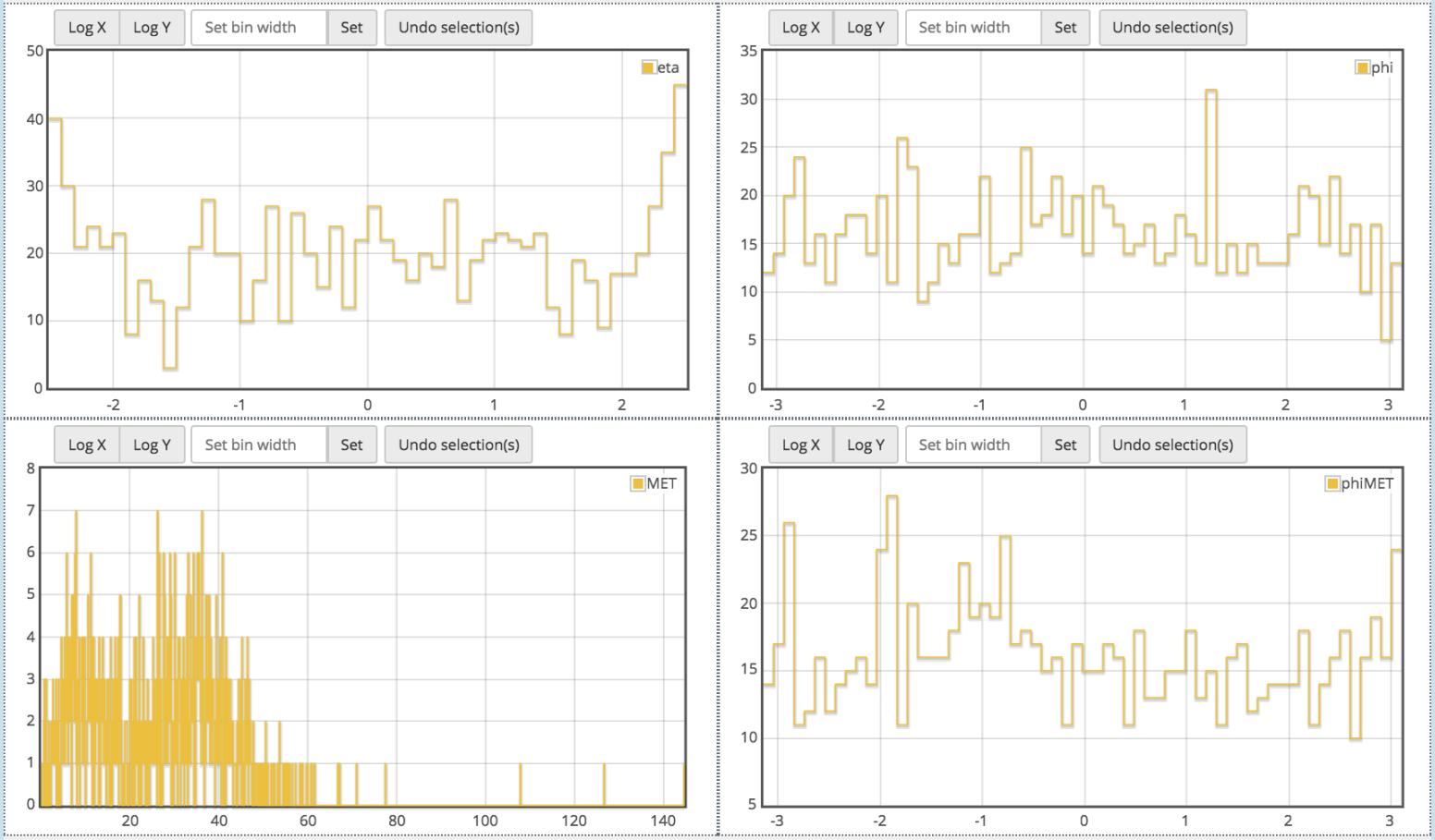
4

Explore CMS open data and play with the histograms

W bosons decaying to an electron and a neutrino

Select one or more parameters:

E | pt | eta | phi | Q | MET | phiMET



Event display file derived from /ZeroBias/Run-2010B-Apr21ReReco-v1/AOD

McCauley, Thomas

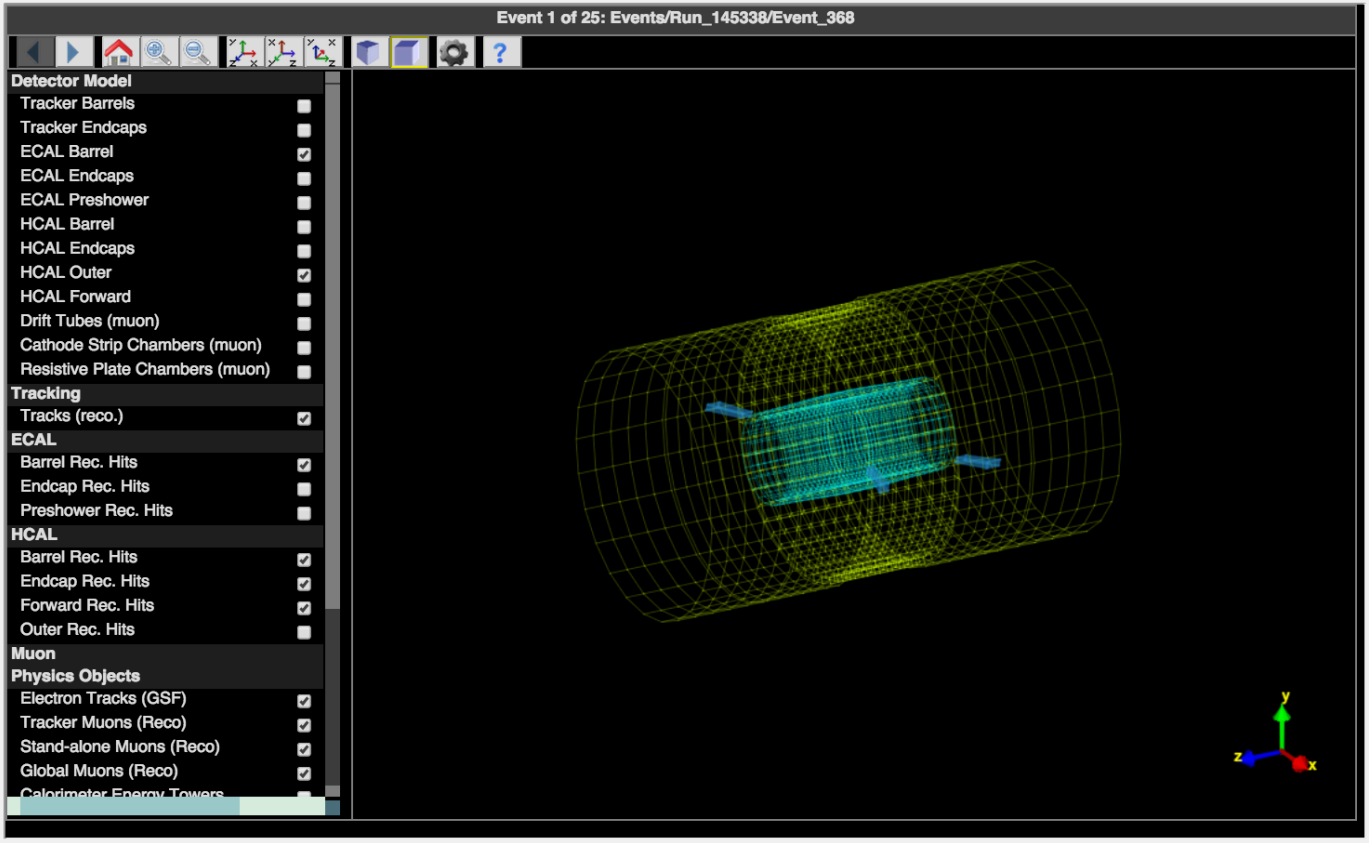
Cite as: McCauley, T. (2014). Event display file derived from /ZeroBias/Run-2010B-Apr21ReReco-v1/AOD. CERN Open Data Portal. DOI: 10.7483/OPENDATA.CMS.QZZX.4TZG

Collection: CMS Derived Datasets | Collision Energy: 7TeV | Parent Dataset: /ZeroBias/Run-2010B-Apr21ReReco-v1/AOD

Description

Sample event set from /ZeroBias/Run-2010B-Apr21ReReco-v1/AOD primary dataset in json format readable from the browser-based 3d event display

Preview



Characteristics

STORAGE

- Storage on multiple places
- File to link
- Point directly to correct storage place
- Optimizing the merging of chunks

INTEGRATED LIBRARY SYSTEM

BORN DIGITAL

LESS COMLEXITY

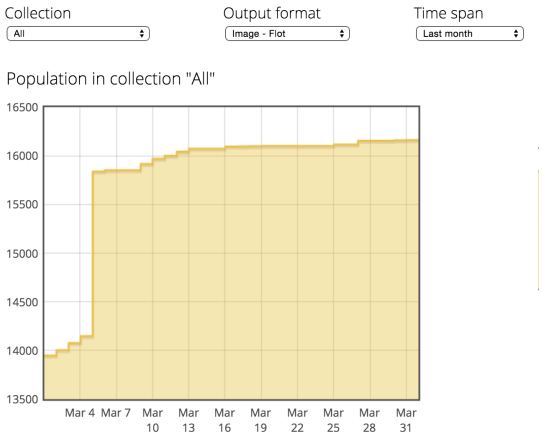
FRESH THINKING

INTEGRATED LIBRAY SYSTEM

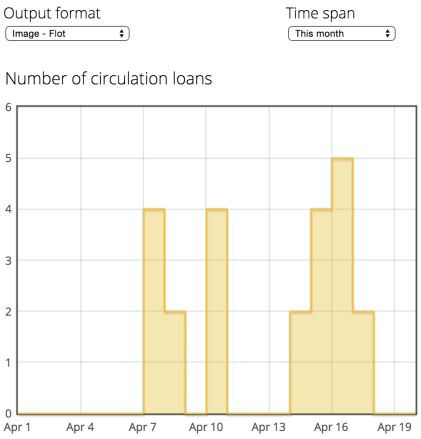
ADVANCED STATISTICS

- OVER 20 PRE-CONFIGURED KEY STATISTICS DASHBOARDS
- CONFIGURE YOUR OWN DASHBOARD WITH CUSTOM QUERIES

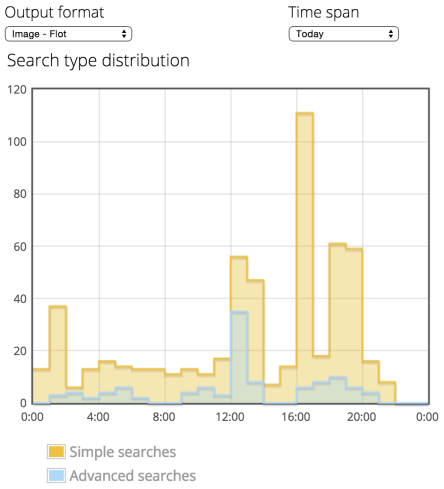
Collection population



Circulation loans



Search type distribution



INTEGRATED LIBRARY SYSTEM

APIs FOR EFFECTIVE INTEGRATION.

DISCOVERY

EBSCO Discovery

Primo

Summon

KNOWLEDGE BASE

EBSCO

WorldCat®

ProQuest

LINK RESOLVER

SFX 360

EBSCO LinkSource®

WHY CHOOSE OPEN SOURCE?

OPEN SOURCE BENEFITS.

FLEXIBLE

OPEN

PERSISTENT

DOWNLOAD OR GET IN TOUCH.

www.tind.io

www.invenio-software.org

contact@tind.io