

OpenAIRE Guidelines for CRIS Managers

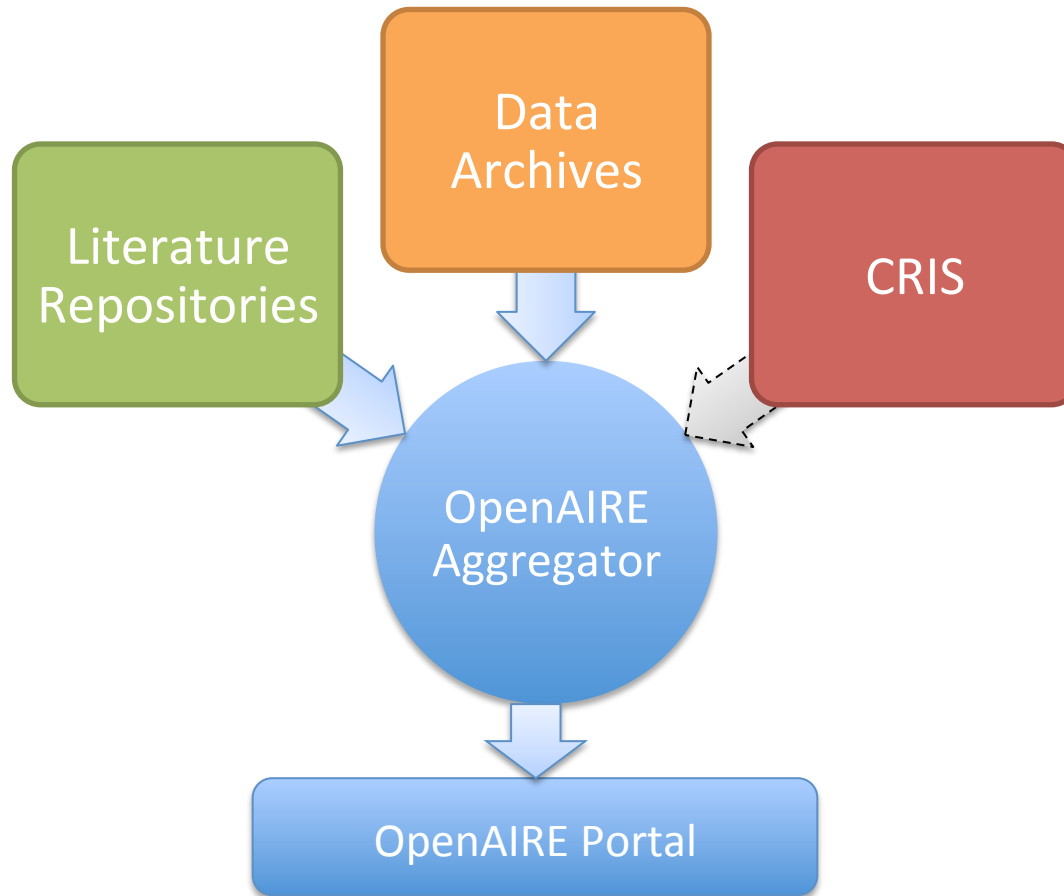
Jan Dvořák

euroCRIS

Charles University

Czech Technical University

OpenAIRE Metadata Flows



CRIS? Have we seen that?

Absolutely!

- ASEP @ Academy of Sciences CR
- OBD+GaP @ Charles University & many others
- IS MU @ Masaryk University & many others
- V3S+EZOP @ Czech Technical University
- GRIS @ Czech Science Foundation
- ISTA @ Technology Agency CR
- CORDIS @ European Commission
- IS VaVal @ R&D&I Dept, Office of the Govt CR

Institutional

Funder

Governmental

Current Research Information Systems

(cs: informační systémy o aktuálním výzkumu)

Contain **info about**
research

Current Research Information Systems

(cs: informační systémy o aktuálním výzkumu)

Contain info about

- **on-going**
research

Current Research Information Systems

(cs: informační systémy o aktuálním výzkumu)

Contain info about

- **past** (but relevant today)
- on-going
research

Current Research Information Systems

(cs: informační systémy o aktuálním výzkumu)

Contain info about

- past (but relevant today)
- on-going
- **planned**

research

Current Research Information Systems

(cs: informační systémy o aktuálním výzkumu)

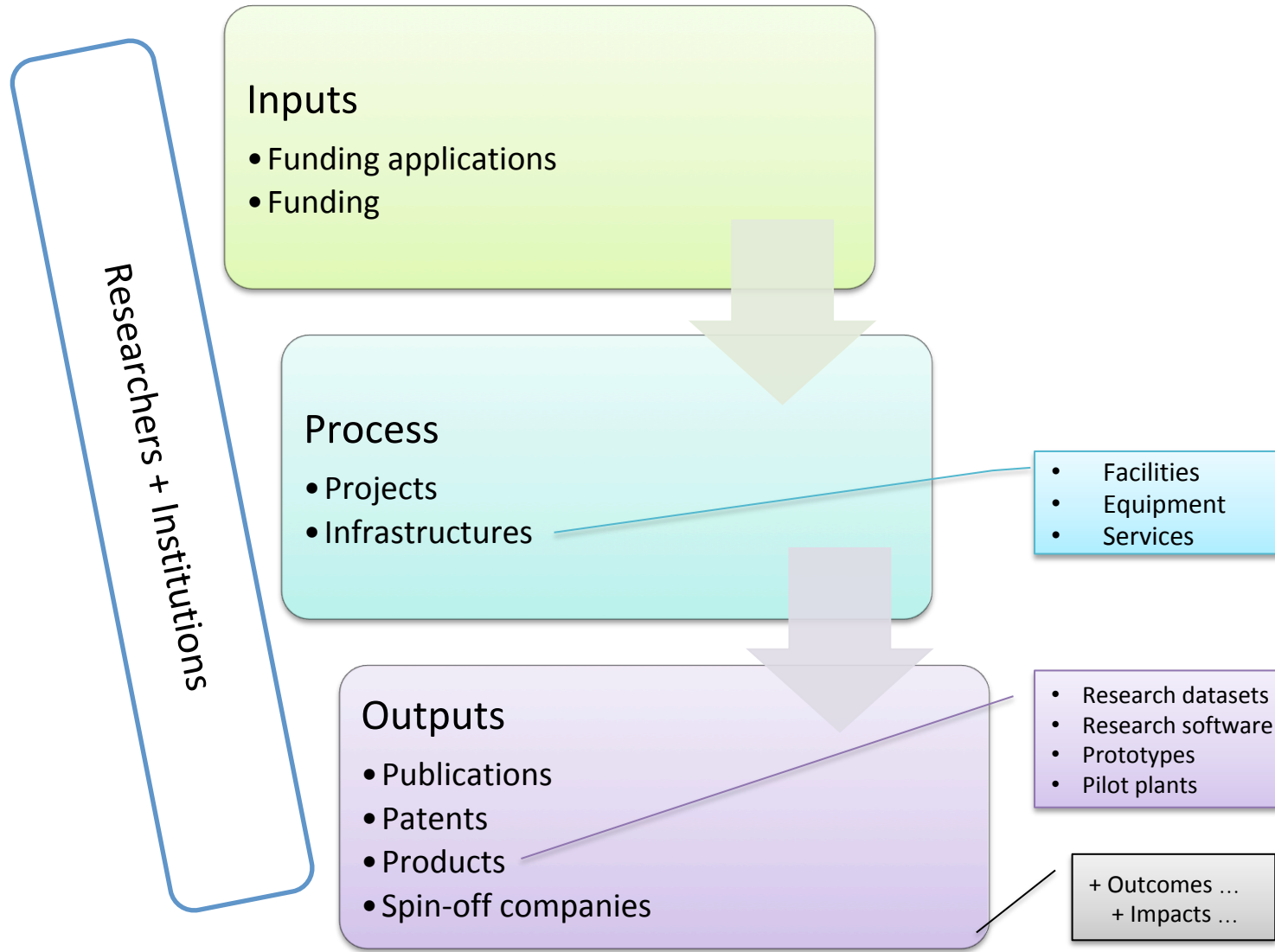
Contain info about

- past (but relevant today)
- on-going
- planned

research

**Many
aspects!**

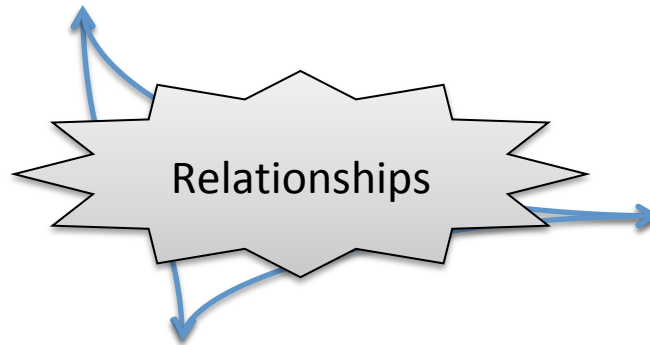
Research Information



Research Information

The **process** of research

- Research projects
- Funding
- Research infrastructures



The research **actors**

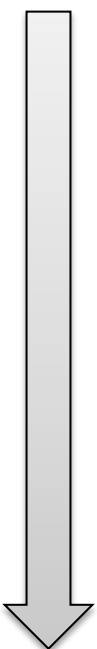
- Researchers
- Institutions
- Funders
- Publishers
- Facility operators
- Associations

Research **results**

- Outputs (Publications, Research Datasets, Patents, ...)
- Outcomes, Impacts

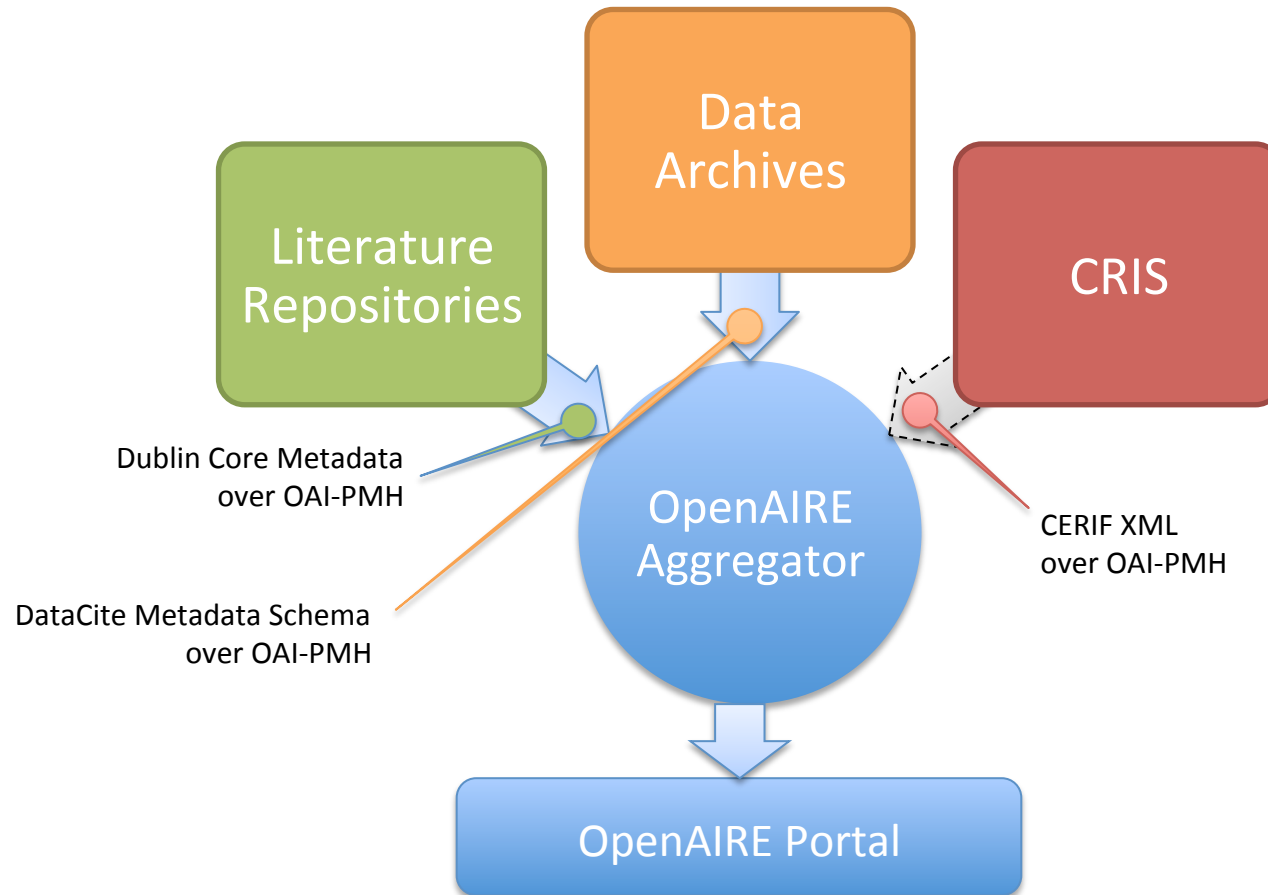
OpenAIRE CRIS Metadata Interchange

- CRIS

- 
- Institutional: Publications & other Outputs, Equipment
 - Funder: Funding Programmes, Calls, Projects
 - National/Regional: all of the above pre-aggregated

- The OpenAIRE Aggregator

OpenAIRE Metadata Flows



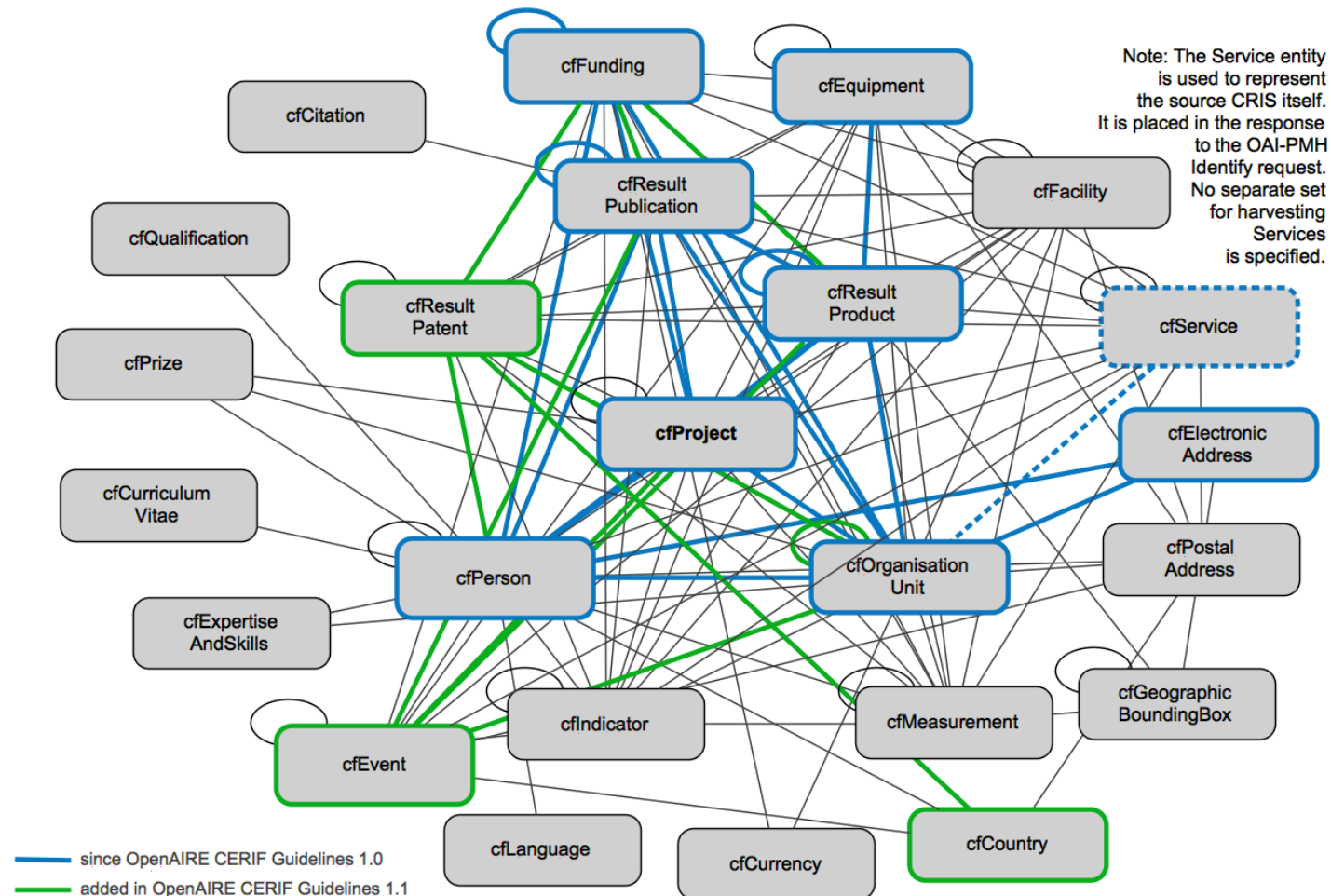
Common European Research Information Format

- Comprehensive information model for research
- Interchange format
 - Based on XML & XML Schema
 - Customizable in profiles
- EC recommendation for the member states
- Developed and maintained by euroCRIS

OpenAIRE Guidelines for CRIS Managers 1.1

Goals:

1. Enable rich, structured metadata to be harvested by OpenAIRE from CRISs
2. Serve as model for similar metadata interchange scenarios



Output Types: COAR Resource Types vocabulary 1.1

workspace - guidelines-cris-managers/schemas/coar_publication_types.xsd - Eclipse

Quick Access

entities_cs.pro CitationMapper. logback.xml application.pro RemoteCertifica constraints.xml policy.xsd implementation. cris_elements_o index.rst openaire-cerif- coar_publicatio

```

32 <xs:simpleType name="Enum">
33   <xs:restriction base="xs:string">
34     <xs:enumeration value="http://purl.org/coar/resource_type/c_1162">
72     <xs:enumeration value="http://purl.org/coar/resource_type/c_0640">
111     <xs:enumeration value="http://purl.org/coar/resource_type/c_6501">
112     <xs:annotation>
113       <xs:documentation xml:lang="en">journal article</xs:documentation>
114       <xs:documentation xml:lang="zh">学术论文</xs:documentation>
115       <xs:documentation xml:lang="es">articulo</xs:documentation>
116       <xs:documentation xml:lang="it">articolo in rivista</xs:documentation>
117       <xs:documentation xml:lang="fr">article</xs:documentation>
118       <xs:documentation xml:lang="de">Wissenschaftlicher Artikel</xs:documentation>
119       <xs:documentation xml:lang="ru">журнальная статья</xs:documentation>
120       <xs:documentation xml:lang="ca">article de revista</xs:documentation>
121       <xs:documentation xml:lang="pt">artigo</xs:documentation>
122       <xs:documentation xml:lang="nl">wetenschappelijk artikel</xs:documentation>
123       <xs:documentation xml:lang="ja">研究論文</xs:documentation>
124     <xs:appinfo>
125       <cf:Class id="http://purl.org/coar/resource_type/c_6501"
126         classSchemeId="https://www.openaire.eu/cerif-profile/vocab/COAR_Publication_Types">
127         <cf:Term xml:lang="en" trans="o">journal article</cf:Term>
128         <cf:Term xml:lang="zh" trans="h">学术论文</cf:Term>
129         <cf:Term xml:lang="es" trans="h">articulo</cf:Term>
130         <cf:Term xml:lang="it" trans="h">articolo in rivista</cf:Term>
131         <cf:Term xml:lang="fr" trans="h">article</cf:Term>
132         <cf:Term xml:lang="de" trans="h">Wissenschaftlicher Artikel</cf:Term>
133         <cf:Term xml:lang="ru" trans="h">журнальная статья</cf:Term>
134         <cf:Term xml:lang="ca" trans="h">article de revista</cf:Term>
135         <cf:Term xml:lang="pt" trans="h">artigo</cf:Term>
136         <cf:Term xml:lang="nl" trans="h">wetenschappelijk artikel</cf:Term>
137         <cf:Term xml:lang="ja" trans="h">研究論文</cf:Term>
138         <cf:Definition xml:lang="en">An article on a particular topic and published in a journal issue.
139 (adapted from fabio)</cf:Definition>
140       <cf:Broader>
141         <cf:Class id="http://purl.org/coar/resource_type/c_3e5a"
142           classSchemeId="https://www.openaire.eu/cerif-profile/vocab/COAR_Publication_Types"/>
143       </cf:Broader>
144     </cf:Class>
145   </xs:appinfo>
146 </xs:annotation>
147 </xs:enumeration>
148 <xs:enumeration value="http://purl.org/coar/resource_type/c_b239">
149   <xs:annotation>
150     <xs:documentation xml:lang="en">editorial</xs:documentation>

```

Design Source

xs: schema Writable Smart Insert 2 : 1

Identifiers Supported

```

profile2html-ta  openaire-cerif-  xsd2cerif-rst.x  openaire_cerif_  cerif_xml_perso  cerif-profile-
1  <?xml version="1.0" encoding="UTF-8"?>
2  <!-- Examples of metadata records in OpenAIRE CERIF XML format as OAI-PMH payload. OAI-PMH S
3  <OAI-PMH xmlns="http://www.openarchives.org/OAI/2.0/" xmlns:xsi="http://www.w3.org/2001/XMLS
4      <responseDate>2018-01-12T14:00:00Z</responseDate>
5      <request metadataPrefix="cerif_openaire" verb="ListRecords" set="openaire_cris_persons">
6      <ListRecords>
7          <record>
8              <header>
9                  <identifier>oai:cris.example.org:Persons/2123451</identifier>
10                 <datestamp>2018-01-07T14:00:00Z</datestamp>
11                 <setSpec>openaire_cris_persons</setSpec>
12             </header>
13             <metadata>
14                 <Person xmlns="https://www.openaire.eu/cerif-profile/1.1/" id="2123451">
15                     <PersonName>
16                         <FamilyNames>Houssos</FamilyNames>
17                         <FirstNames>Nikos</FirstNames>
18                     </PersonName>
19                     <ORCID>https://orcid.org/0000-0002-5277-285X</ORCID>
20                     <ResearcherID>F-8684-2012</ResearcherID>
21                     <ScopusAuthorID>6508266266</ScopusAuthorID>
22                     <ElectronicAddress>mailto:email1@example.org</ElectronicAddress>
23                     <ElectronicAddress>tel:+301234567890</ElectronicAddress>
24                     <ElectronicAddress>fax:+301234567891</ElectronicAddress>
25                 </Person>
26             </metadata>
27         </record>

```



```
<Publication xmlns="https://www.openaire.eu/cerif-profile/1.1/" id="852734">
  <Type xmlns="https://www.openaire.eu/cerif-profile/vocab/COAR_Publication_Types">http://purl.org/coar/resource_type/
c_6501<!-- journal article --></Type>
  <Title xml:lang="en">Strong selection against hybrids maintains a narrow contact zone between morphologically cryptic
lineages in a rainforest lizard</Title>
  <PublishedIn>
    <Publication id="893204">
      <Title xml:lang="en">Evolution</Title>
      <Type scheme="https://www.openaire.eu/cerif-profile/vocab/COAR_Publication_Types">http://purl.org/coar/
resource_type/c_0640<!-- journal --></Type>
      <Identifier type="https://www.openaire.eu/cerif-profile/vocab/IdentifierTypes#EISSN">1558-5646</Identifier>
      <Publishers>
        <!-- [ ... ] -->
      </Publishers>
    </Publication>
  </PublishedIn>
  <Volume>66</Volume>
  <Issue>5</Issue>
  <StartPage>1474</StartPage>
  <EndPage>1489</EndPage>
  <Identifier type="https://www.openaire.eu/cerif-profile/vocab/IdentifierTypes#DOI">10.1111/J.1558-5646.2011.01539.X</Identifier>
  <!-- [ ... ] -->
</Publication>
```

```
<Publication xmlns="https://www.openaire.eu/cerif-profile/1.1/" id="852734">
```

```
<!-- [ ... ] -->
```

```
<Authors>
```

```
<Author>
```

```
<Person>
```

```
<PersonName>
```

```
<FamilyNames>Singhal</FamilyNames>
```

```
<FirstNames>Sonal</FirstNames>
```

```
</PersonName>
```

```
</Person>
```

```
<Affiliation>
```

```
<OrgUnit id="301248">
```

```
<Name xml:lang="en">Museum of Vertebrate Zoology</Name>
```

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<PartOf>
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```
<OrgUnit id="329384">
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```
<Name xml:lang="en">University of California, Berkeley</Name>
```

```
</OrgUnit>
```

```
</PartOf>
```

```
</OrgUnit>
```

```
</Affiliation> <!-- [ ... ] -->
```

```
</Author> <!-- [ ... ] -->
```

```
</Authors>
```

```
<!-- [ ... ] -->
```

```
</Publication>
```

```
<Publication xmlns="https://www.openaire.eu/cerif-profile/1.1/" id="852734">
```

```
<!-- [ ... ] -->
```

```
<Keyword xml:lang="en">hybrid zones</Keyword>
```

```
<Keyword xml:lang="en">phylogeography</Keyword>
```

```
<Abstract xml:lang="en">Phenotypically cryptic lineages comprise an important yet understudied part of biodiversity;
```

```
<!-- [...] --></Abstract>
```

```
<References>
```

```
<Product id="729487">
```

```
<Type xmlns="https://www.openaire.eu/cerif-profile/vocab/COAR_Product_Types">http://purl.org/coar/
resource_type/c_ddb1<!-- dataset --></Type>
```

```
<Name xml:lang="en">Data from: Strong selection against hybrids maintains a narrow contact zone between
morphologically cryptic lineages in a rainforest lizard</Name>
```

```
<VersionInfo xml:lang="en">1</VersionInfo>
```

```
<Identifier type="https://www.openaire.eu/cerif-profile/vocab/IdentifierTypes#DOI">10.5061/DRYAD.4GH6HF5G</Identifier>
```

```
<!-- [...] -->
```

```
</Product>
```

```
</References>
```

```
</Publication>
```

Current status: Version 1.1 in finalization

The document:

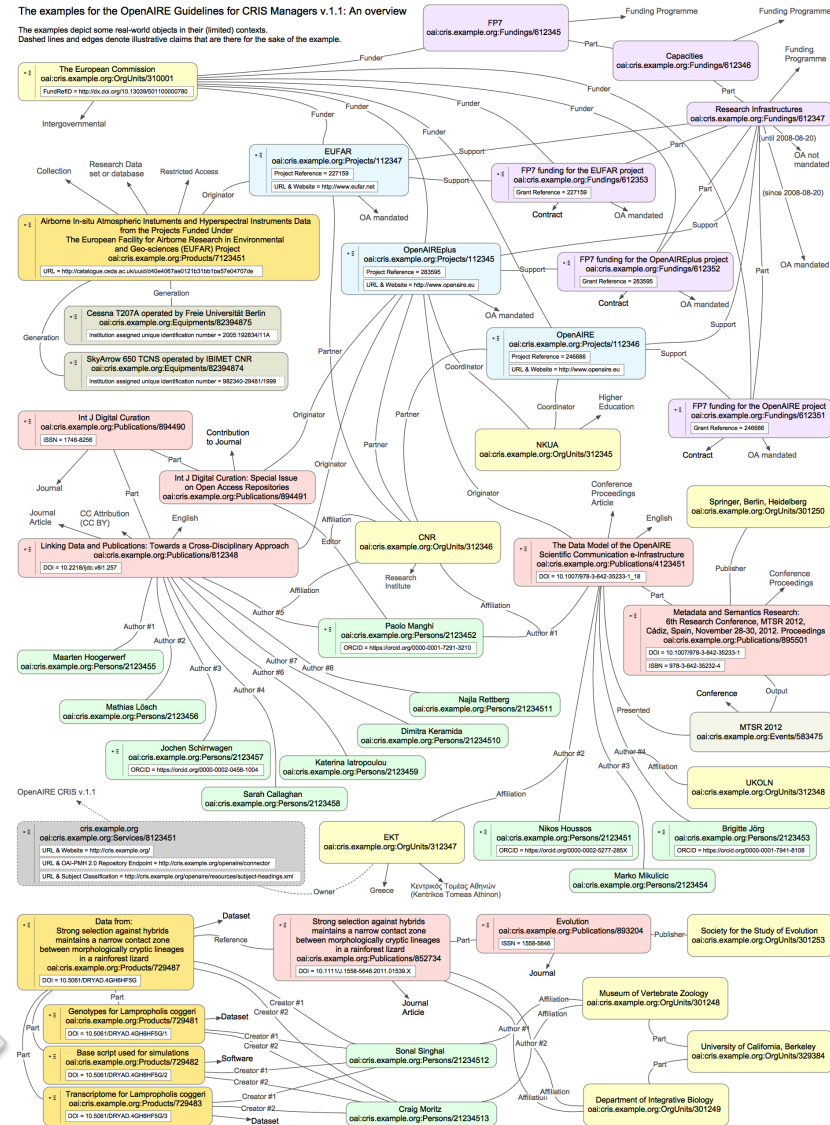
<http://openaire-guidelines-for-cris-managers.readthedocs.io/en/latest/index.html>

The XML Schema and examples:

<https://github.com/openaire/guidelines-cris-managers>

The examples for the OpenAIRE Guidelines for CRIS Managers v.1.1: An overview

The examples depict some real-world objects in their (limited) contexts. Dashed lines and edges denote illustrative claims that are there for the sake of the example.



Pilot implementation

METIS2OpenAIRE project (02–05/2018)

Funded by OpenAIRE

- **METIS** – an institutional CRIS at Radboud University, Nijmegen [NL]

- Prototype validator

<https://github.com/jdvorak001/openaire-cris-validator#openaire-cris-validator>

Plus two budget-neutral partners:

- **Omega-PSIR** (Warsaw University of Technology, >12 installations in [PL])
- **PURE** (Elsevier, >250 installations world-wide)



Coming soon!





The 14th International Conference on
Current Research Information Systems

www.eurocris.org – www.cris2018.se

13–16 / 06 / 2018 @ Umeå, SE

57 extended abstracts received
120–150 participants expected

