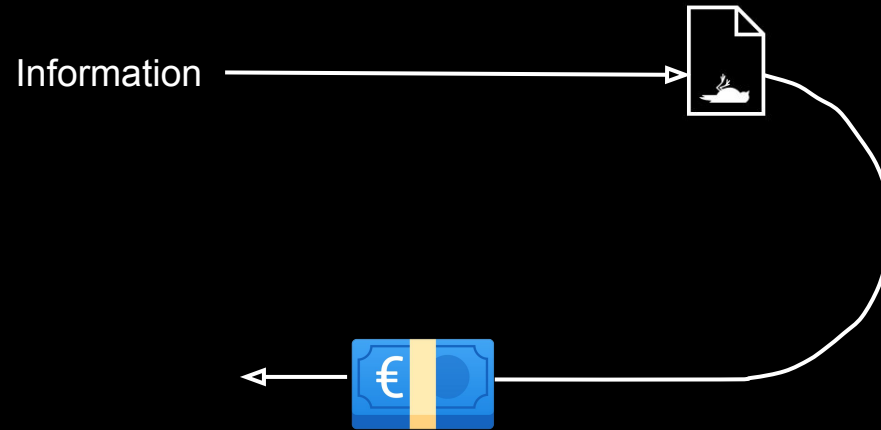


# Open Information Containers: Document interoperability for AEC sectors

John Egan, Founder & CEO at BIMLauncher

~~Files~~ are the currency of a BIM project.

*Information Containers*



# The life of file



*Information*

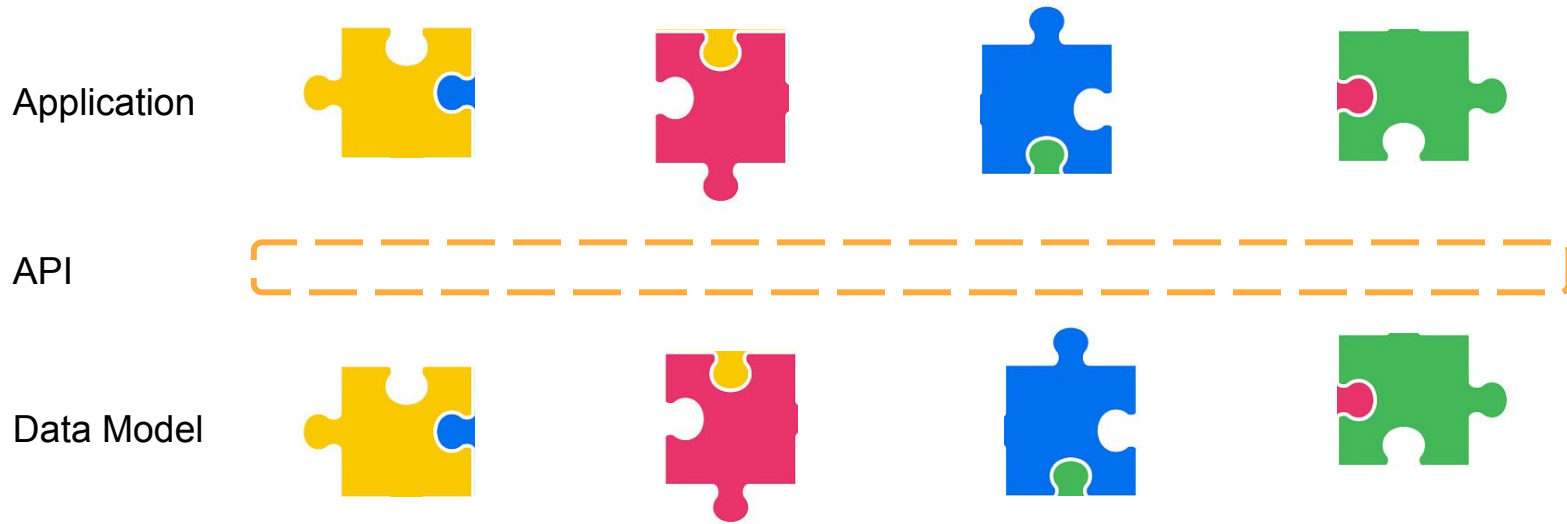
B3-AR-01-1502[1]-CONT-GENERAL ELEVATIONS -  
EAST ELEVATION-20210916.pdf

Bytes: 144473

# A Construction Platform



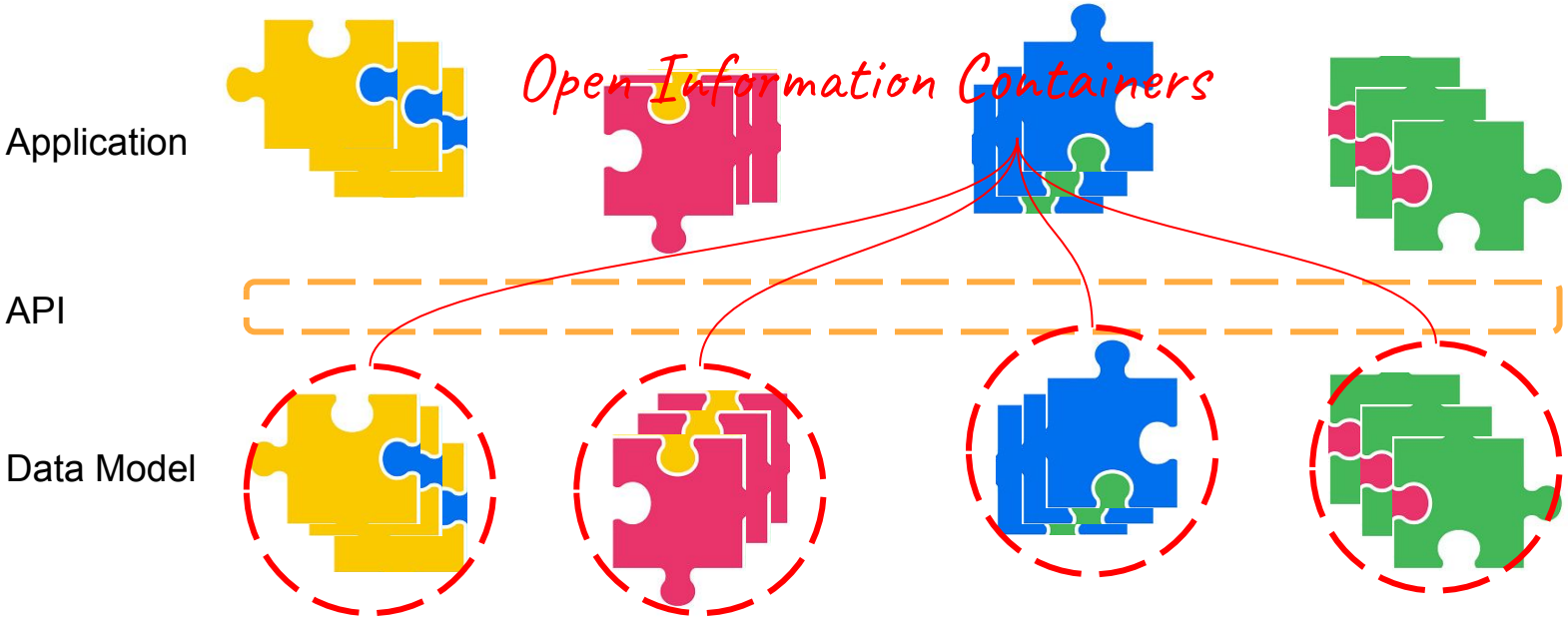
# Technology components of a Construction Platform



# Construction platforms on Projects



# Construction Platforms



# Based on Uniclass

Code	Title	Code	Title
FI	Form of information	PM	Project Management
FI_10	Communication	PM_10	Project information
FI_10_03	Agenda (AG)	PM_10_10	Project
FI_10_10	Brochure (BL)	PM_10_10_60	Project description
FI_10_15	Comment (CT)	PM_10_20	Client requirements
FI_10_17	Conversation record (CD)	PM_10_20_03	Appointment document
FI_10_20	Correspondence (CO)	PM_10_20_07	Brief
FI_10_27	Email (EM)	PM_10_20_09	Buildability statement
FI_10_30	File note (FN)	PM_10_20_14	Community and tenant liaison plan
FI_10_45	Leaflet (LF)	PM_10_20_16	Construction industry registration scheme requirements



# A familiar example (incorporating a standard)



```
markup.bcf - Edited
markup.bcf | <Viewpoints Guid="b5d79d95-10f4-4133-a9f1-c41a1335c7af">
1 <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
2 <Markup xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="markup.xsd">
3 <!--<Header-->
4 <!--<File IfcProject="34407vICwH8qAEwJDJSU" isExternal="false">
5 <!--<Filename>C:\Users\ymarc\Documents\AFFAIRES YM ARCHITECTE\AFFAIRES EN
  COURS\PIERRES ET TERRITOIRES\CHARTRES Parmentier OLYMPI\Projet 2 --
  OLYMPI\PRO\OLYMPI PRO 6 26 SEPT 2020.ifc</Filename>
6 <!--<Date>2020-09-27T13:04:00+02:00</Date>
7 <!--</File-->
8 <!--</Header-->
9 <!--<Topic Guid="6c58d8a1-78c5-4cf1-afc1-65f58bac5c3a" TopicType="Commentaire">
  TopicStatus="Ouvert">
10 <!--<Title>Isolément 37d</Title-->
11 <!--<Index>0</Index-->
12 <!--<Labels>Acoustique</Labels-->
13 <!--<CreationDate>2020-10-06T16:43:50+02:00</CreationDate>
14 <!--<CreationAuthor>crcentin.jouve@wvw.fr</CreationAuthor-->
15 <!--<ModifiedDate>2020-10-07T18:28:50+02:00</ModifiedDate-->
16 <!--<ModifiedAuthor>castel@bven</ModifiedAuthor-->
17 <!--<AssignedTo>ymarchitecte@xxx</AssignedTo-->
18 <!--<Description>Fenêtre PVC de
19 Entrées d'air intégrées à la menuise
20 CRV DnewCtrl=46dB ou plus</Description-->
21 <!--</Topic-->
22 <!--<Viewpoints Guid="4200a24f-8436-4
  01e-8000-000000000000">
  <!--<VisualizationInfo xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    Guid="b5d79d95-10f4-4133-a9f1-c41a1335c7af"
    xsi:noNamespaceSchemaLocation="visinfo.xsd">
3 <!--<Components-->
4 <!--<ViewSetupHints SpacesVisible="false" SpaceBoundariesVisible="false"
  OpeningsVisible="false"/>
5 <!--<Selection-->
6 <!--<Component IfcGuid="21Ip0Hv0v9ix_LmYvA48UD">
7 <!--<OriginatingSystem>ARCHICAD</OriginatingSystem-->
8 <!--<AuthoringToolId>95483611-7E5E-4983-BF95-C22E4A10078D</AuthoringToo
  lId-->
9 <!--</Component-->
10 <!--<Component IfcGuid="0Ve02LVgD1v83yJG_PLFXf">
11 <!--<OriginatingSystem>ARCHICAD</OriginatingSystem-->
12 <!--<AuthoringToolId>1FA00095-7EA3-41E4-84FC-B50F9954F869</AuthoringToo
```

Code	Title
FI_90_72	Report (RP)
PM_60_30_40	Issues log

# How might this work in practice

OIC registry would serve as source of truth for client teams to prescribe via BEP information to many stakeholders, query/validation tools would check deliverables and better project outcomes would arise.

# Recap

"Open Information Containers" go beyond a classification code in a file name and provide a common language for explicitly defining information intent at the information container level which can be used by humans and computers throughout the lifecycle of a BIM project.

# How would this benefit the industry?

Lower barrier to entry to exchange this data between different vendors as semantic mapping can be setup for exchange between different project systems.

More vendors supporting OIC protocol would result in more “open” project data/information is more accessible for query.

New sources of value on top. A framework of software components to work with your ICs?

# Who is working on this?

- AEC Hive
- University of Maynooth
- ArcDox
- BIMLauncher

# Closing notes

ICs are the currency of the industry, and Open Information Containers, the stepping stone to advancing information exchange and stakeholder communication/collaboration on projects.

Thank you for listening.