



Informatik  
im Bauwesen

# Nutzungsdokument: ICDD Platform

Zugangsadresse: <https://icdd.vm.rub.de/ui/>

Version: 0.1

## Dokumentinformation

Projektbezeichnung	Entwicklung der Web-Anwendung ICDD Plattform
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Dokumentablage	

## Änderungsverzeichnis

Nr.	Datum	Version	Änderungen	Autor
1	15.09.2021	0.1	Erstellung des Dokuments	M. Kirschstein, L. Liu

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## 1. INFORMATION ABOUT THE WEB APPLICATION

The ICDD PLATFORM is a web-based application. The Platform is for managing Project- and Assetinformation in the form of Information Container for linked Document Delivery (ICDD) according to ISO21597. The URI is <https://icdd.vm.rub.de/ui/>.

The Platform is generally divided into 3 steps:

1. Register/ Log in
2. Projectmanagement
3. Containermanagement

Each of these steps are described in the following sections

## 2. REGISTER AND LOG IN

The buttons to register and log in are in the far right corner of the homepage (see figure. 1 „➡“).

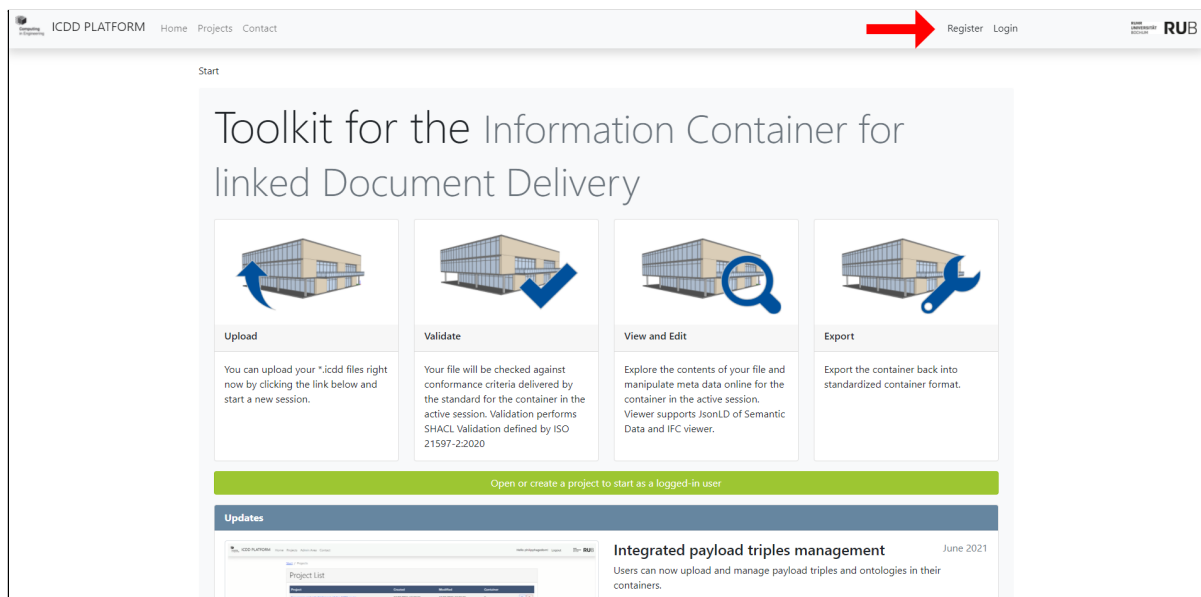


Figure 1: Homepage

### 2.1 Register

To register you have to put in an email address, a username and a password (see figure 2).

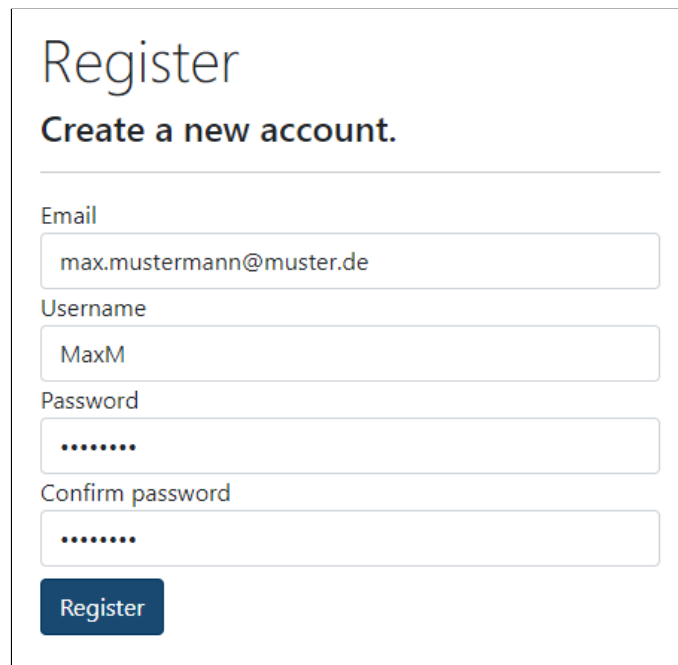
The **username** has to have between 3 - 20 characters using a-z, A-Z, 0-9, . , \_ , -.

The **password** must have at least 8 characters with at least one upper- and one lowercase letter, a number and a special character.

To **activate** the account an email is sent to the given email address with a link to activate the account.

### 2.2 Log in

After activating the account you can log in using the username and password priorly chosen. (see figure 3).



The Register form is titled "Register" and "Create a new account." It contains four input fields: "Email" with the value "max.mustermann@muster.de", "Username" with the value "MaxM", "Password" with masked characters ".....", and "Confirm password" with masked characters ".....". A dark blue "Register" button is at the bottom.

Register

Create a new account.

Email

max.mustermann@muster.de

Username

MaxM

Password

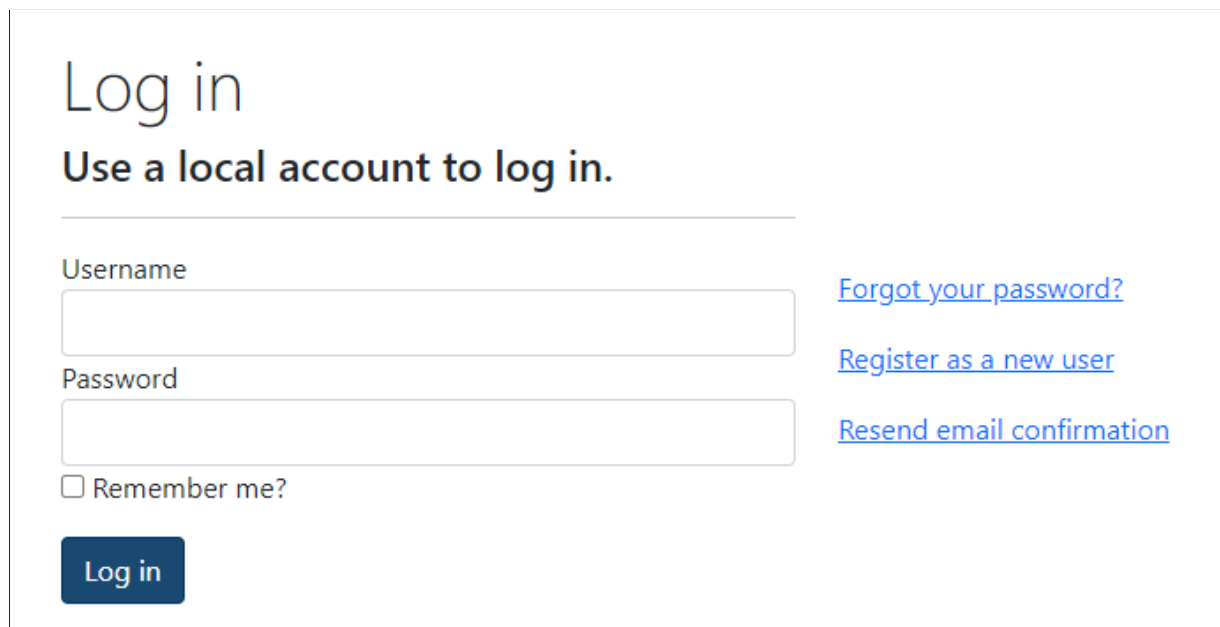
.....

Confirm password

.....

Register

Figure 2: Register



The Log in form is titled "Log in" and "Use a local account to log in." It contains two input fields: "Username" and "Password". Below the "Remember me?" checkbox is a dark blue "Log in" button. To the right of the form are three links: "Forgot your password?", "Register as a new user", and "Resend email confirmation".

Log in

Use a local account to log in.

Username

Password

☐ Remember me?

Log in

[Forgot your password?](#)

[Register as a new user](#)

[Resend email confirmation](#)

Figure 3: Log in

### 3. PROJECTMANAGEMENT

Projects can be created, edited or deleted. To open the project list click the button „Open or create a project to start as a logged-in user“ or click on “Projects” in the upper left corner (see figure4).

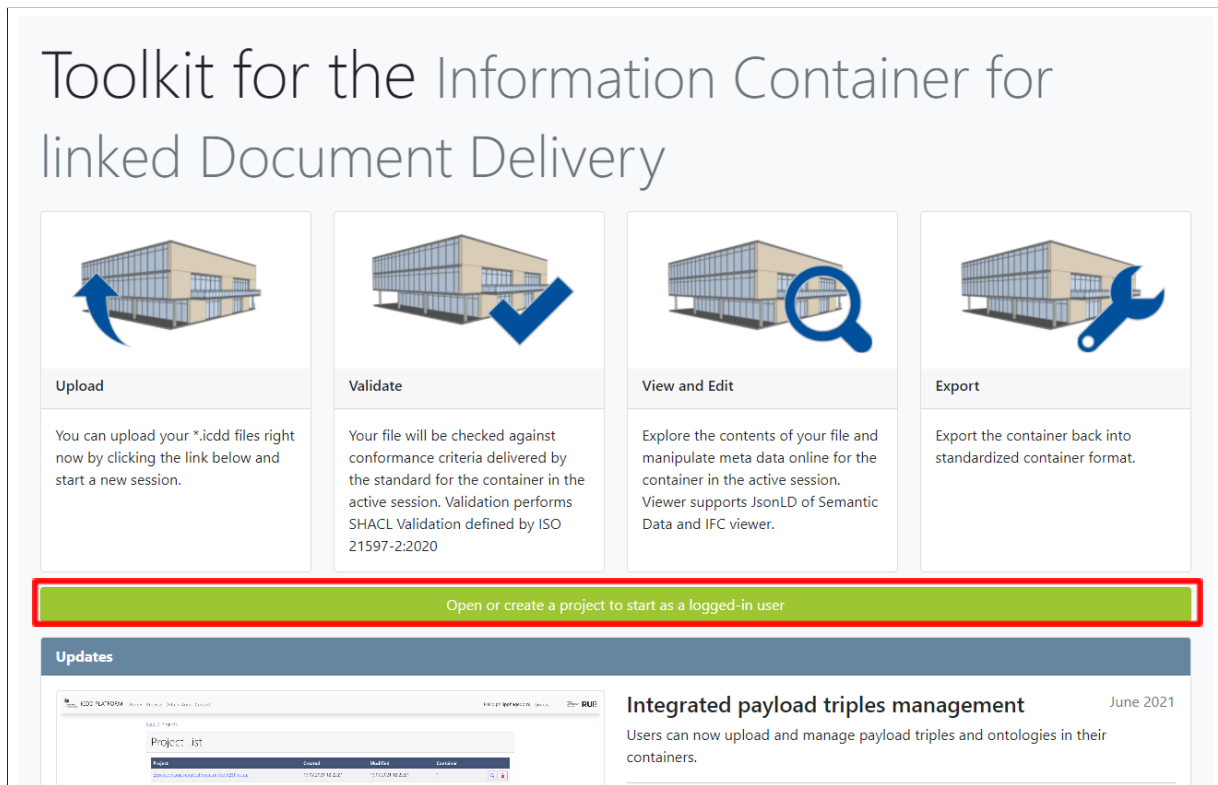


Figure 4: Homepage to Create Project

#### 3.1 Create project

To create a project open the project list (see figure 5):

- put in a project name
- click “create Project”

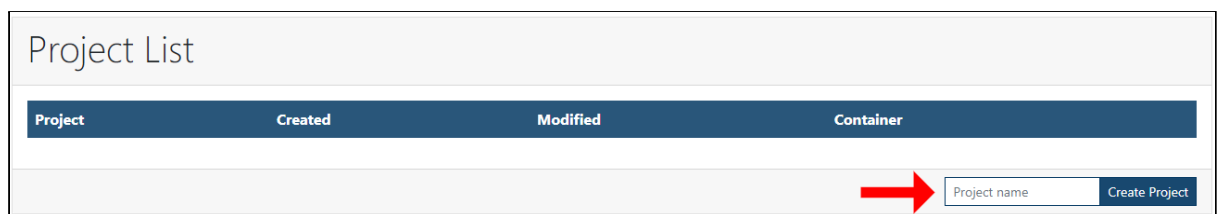


Figure 5: Create Project

After creating a new project, it is listed on the “Project list” with information about the date of creation, modification and the amount of containers.

#### 3.2 Edit project

To open a project click on the name of the project or the magnifying glass(see figure 6 & 7).

[Start](#) / [Projects](#) / Concrete Monitoring

## Concrete Monitoring


### Project Properties

ID	571937c7-cd12-476c-8838-29ebdf9e620a
Name*	Concrete Monitoring

#### General

Created	07.07.2021 12:56:28
Modified	07.07.2021 12:56:28
Members	liuliu

\* Required Field

 Update

### Containers









Container	Version	Created	Modified	Suitability	Status
<div>Upload a Container</div> <div>Create new Container</div>					

Figure 6: Project details

### 3.3 Delete project

To delete a project click the trash can image shown in figure 7.

### Project List

Project	Created	Modified	Container	
<a href="#">AMSfree</a>	07.06.2021 21:59:30	07.06.2021 23:24:00	1	 
<a href="#">BIM4AMS</a>	07.06.2021 15:53:47	07.06.2021 23:24:47	2	 
<a href="#">Concrete Monitoring</a>	07.07.2021 12:56:28	07.07.2021 12:56:28	0	 
<a href="#">i3CE</a>	08.09.2021 10:33:13	08.09.2021 10:33:13	2	 

Create Project

Figure 7: Delete project

## 4. CONTAINERMANAGEMENT

In container management the containers of each project can be created, edited and deleted (see figure 6).

### 4.1 Create a Container

There are two ways to create a container (see figure 8):

- „Upload a Container“ (A)
- „Create new Container“ (B).





Containers						
Container	Version	Created	Modified	Suitability	Status	(1)
<a href="#">TestContainer.icdd</a>	1	02.09.2021 12:40:36	02.09.2021 12:42:38	Default container	WORK_IN_PROGRESS	  
<div>Upload a Container <b>A</b> <span style="float: right;"><b>B</b> Create new Container</span></div>						

Figure 8: Container list

To upload a container a file, a suitability and a status have to be chosen (see figure 9). To create a new container additionally to choosing the suitability and status, a name, description and revision have to be chosen.

#### Upload Container to project: TestProjekt



File Name\*

Description\*

Revision\*

Suitability\*

DEFAULT

Status\*

WORK\_IN\_PROGRESS

\* Required Field

+ Create

Figure 9: Create new Container

#### Special features in Suitability

Under suitability in the metadata of the container are two options called „SUITABLE\_FOR\_AM\_MAINTENANCE„ and „SUITABLE\_FOR\_AM\_INSPECTION„. Those options are templates for Asset Management Maintenance and Asset Management Inspection Container for the two research projects AMSFree and BIM4AMS.



## 4.2 Delete and export containers

There are two different ways to delete and export a container

- in the containerlist of an open project (see figure. 8 – (1))
- under the explorer in an open container using „Remove“ or „Export“. (see figure 10)

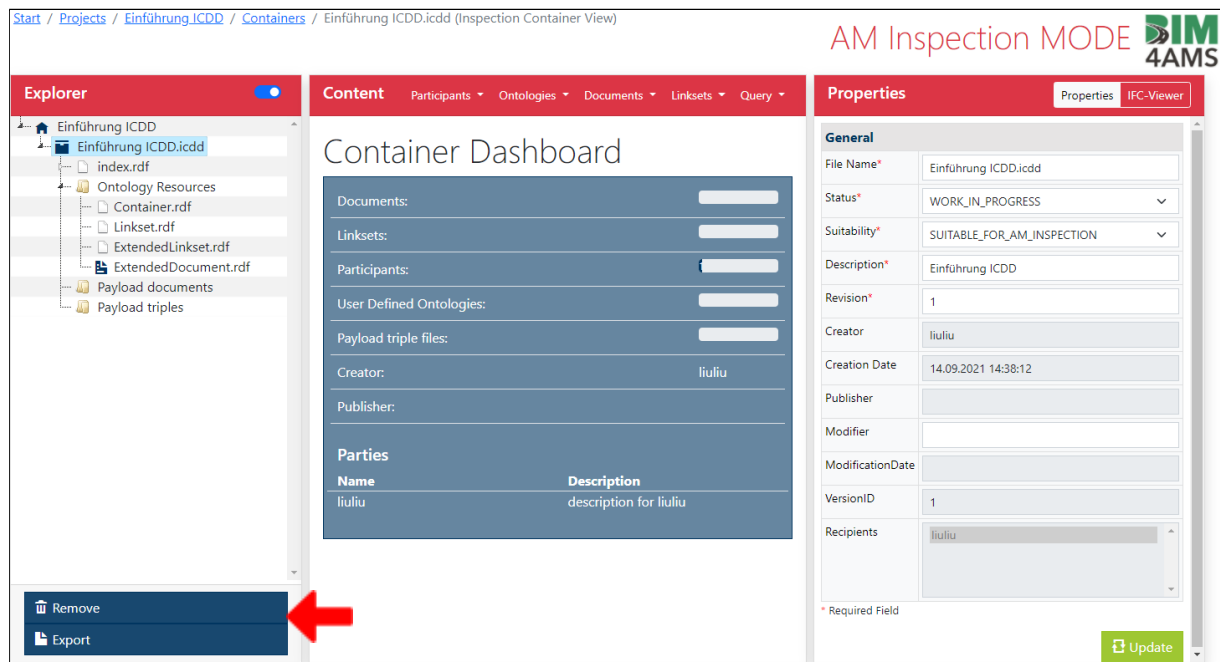


Figure 10: Container details

## 4.3 Edit container

In the container details the container can be edited. The container details are divided into 3 sections:

- Explorer (left)
- Content (center)
- Properties / IFC Viewer (right)

### Explorer

The explorer gives an overview over the structure of the container with its three folders *Ontology Resources*, *Payload documents* and *Payload triples* and each of its contents. The explorer can be hidden or unhidden with the controller on the far right corner (see figure 11).

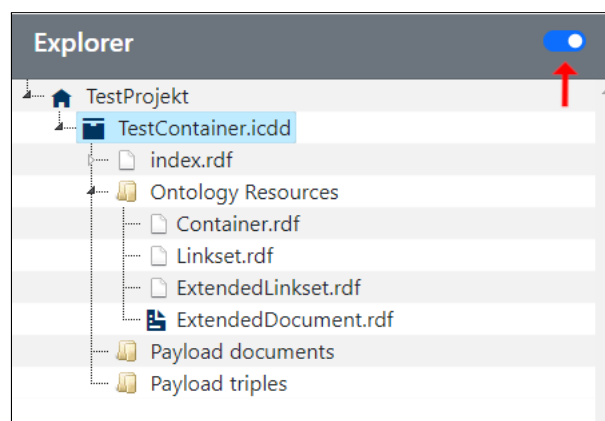


Figure 11: Explorer and controller

## Content

Within the content window are the contents of the files and the container dashboard with information about the container. The container dashboard offers 5 ways to edit the container contents (see figure 12)

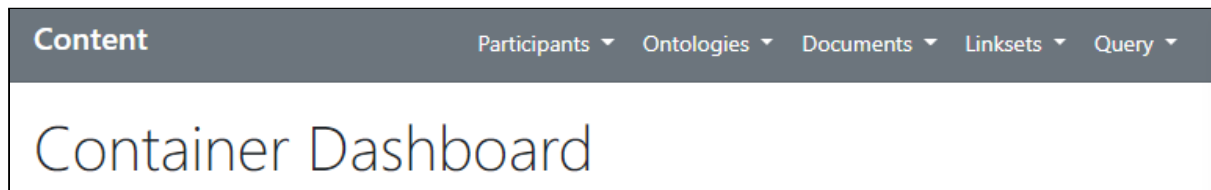


Figure12: Container Dashboard

### Participants

Using *Add Participants* participants can be added to the container. To add a participant a name, a description and a type (*Person* or *Organisation*) have to be chosen. The added participants are listed on the dashboard under *Parties*.

### Ontologies

Using *Ontologies* an ontology or a payload triple can be added to the container. To add those either enter a web URL or upload a file. The files are added to the *Ontology Resources* folder.

### Documents

*Internal Documents*, *External Documents*, *Database Connections* and *Folder* can be added to the container.

When adding an *Internal Document* there are two additional options: *secured* or *encrypted Document*. The documents are added to the *Payload documents* folder.

### Linksets

To create a new linkset to the *Payload triples* folder use *Add Linkset*, enter a name and click *Create*. To edit and add a binary link to the created linkset go to the *Payload triples* folder and use the “*Add Link*” button (see figure 13).

Figure 13: Add Link

### Query

Using *QueryContainer* a SPARQL query can be written. SPARQL is a RDF query language (see figure 14).

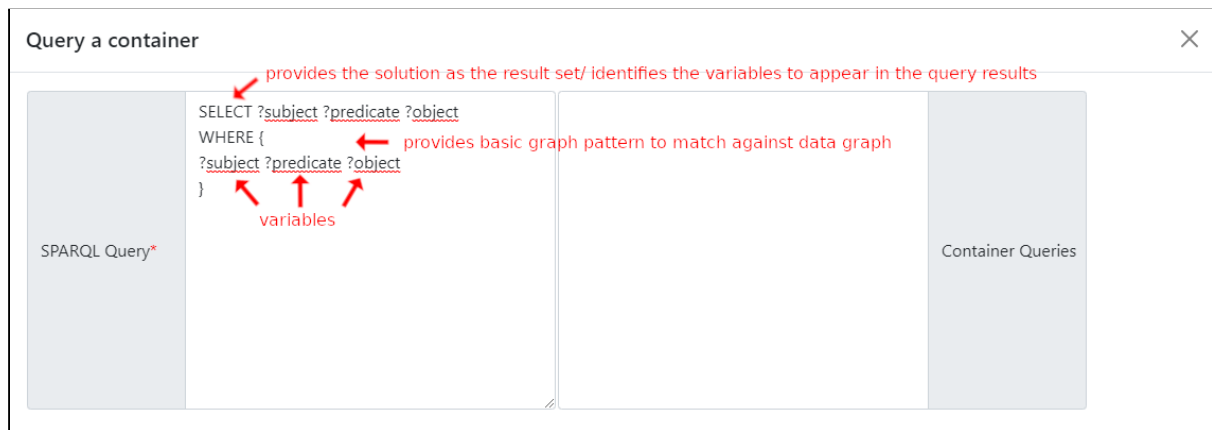


Figure 14: QueryContainer

## Properties

The metadata of the container, selected when creating the container, and further information can be found in *Properties*. In *Properties* the metadata can be changed and updated.

## IFC-Viewer

Additionally to the properties the IFC-Viewer can be found in "Properties" on the upper right corner. The IFC-Viewer shows the added models and the Id, the models can be activated and deactivated with the loaded controller (see figure 15)

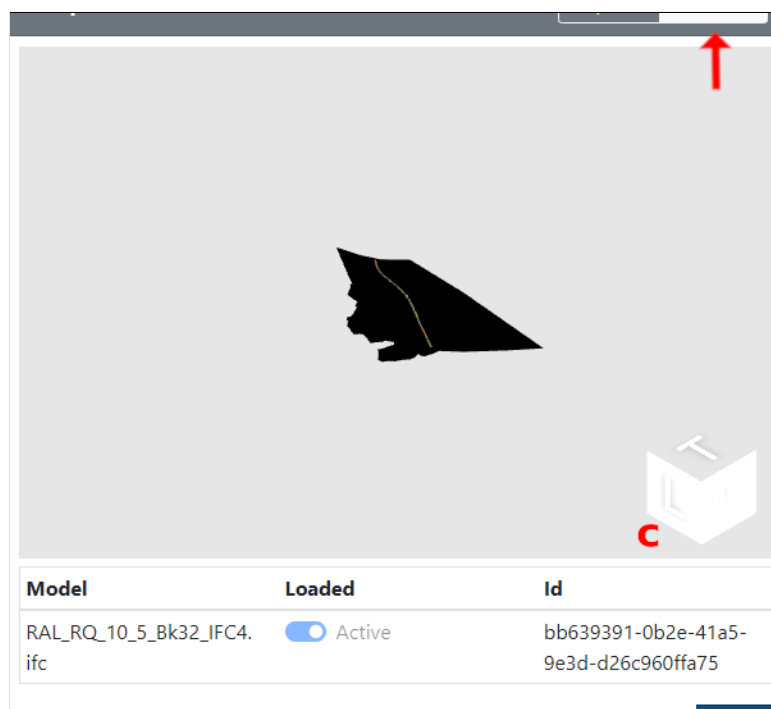


Figure 15: IFC-Viewer

## Operating instructions:

Rotate model:	Cube (C) or hold left mouse key
Move entire model:	Right mouse key
Zoom in and out:	Mouse wheel
Activate/deactivate model:	Loaded controller
Select model element:	Click on it with left mouse key
Back to starting position:	Double-click left mouse key