

# INFINITE BIM Platform

Davide Madeddu, One Team srl

Online, 11/06/2024



**INFINITE** project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No **958397**

# Main Functionalities

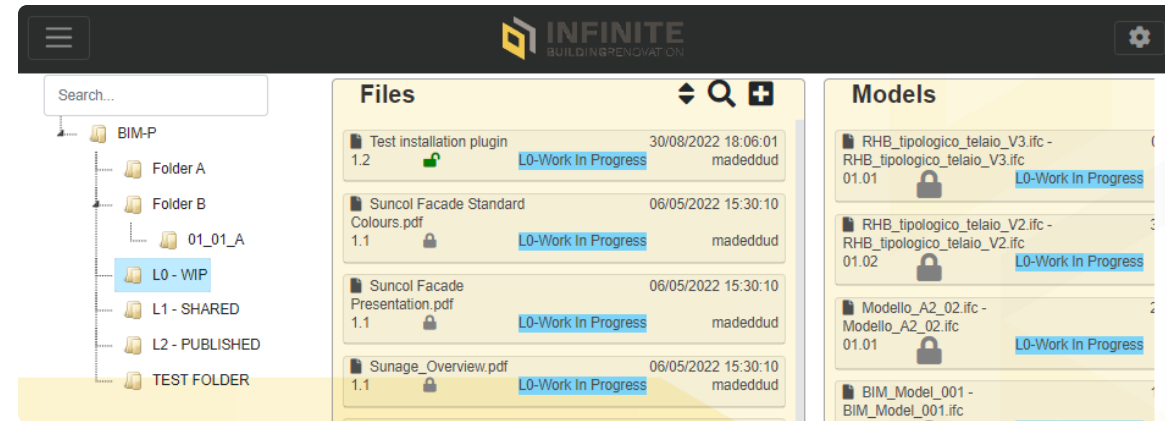
- **Shared workspace:** the platform's shared workspace ensures that multidisciplinary teams of architects and engineers can work together effectively, enhancing overall project quality.
- **All documents in one place:** the platform collect, manage, and disseminate all project information, including models, drawings, specifications, and documentation. This easier document management process reduces the risk of errors due to miscommunication.



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Custom folder hierarchy  
User A –

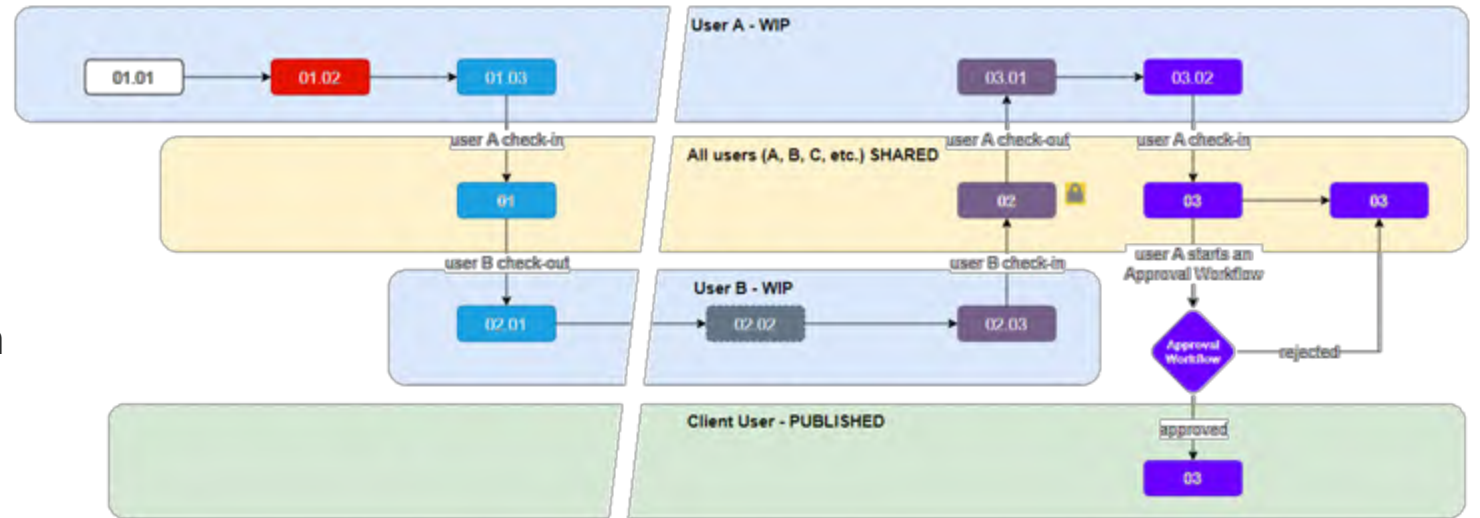


User B –



# Main Functionalities

- **Compliance with industry standards:** the platform aligns with industry standards like ISO 19650, helping architects and engineers stay in compliance with the latest requirements.
- **Classification and tagging:** customizable classifications and tags make it easier to organize and categorize documents. This feature helps architects and engineers find and access the information they need quickly



The search interface includes the following fields and controls:

- Scope:** Select Value (dropdown)
- Category:** Select Value (dropdown)
- Tipology:** Select Value (dropdown)
- Title/Description:** Text input field
- Date To:** Text input field
- Tags:** Text input field
- Status:** All (dropdown)
- Show Last Version:**
- My Review:**
- Resource in Check-in:**  (with lock icon)
- Resource in Check-out:**  (with open lock icon)
- Resource in Check-out another user:**  (with closed lock icon)
- Buttons:** Search, Reset Filter, Close

# Main Functionalities

- **Data security:** BIM-P ensures controlled access to project information, protecting sensitive data while allowing team members to access relevant documents.
- **History of changes:** document revisions over time can be easily tracked, providing a clear history of changes. This is essential for maintaining version control and ensuring that everyone is working with the most up-to-date information.

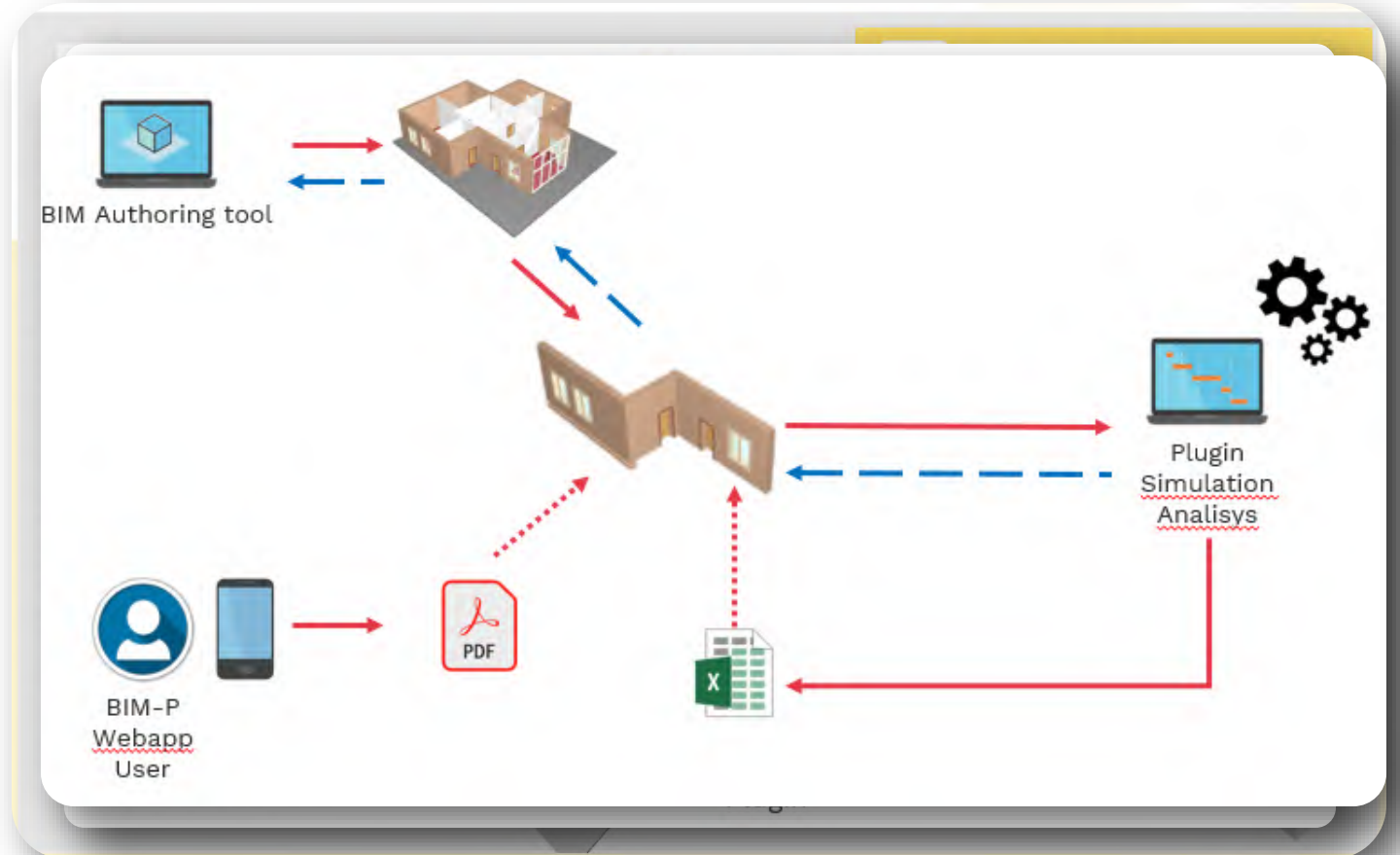
The screenshot displays the INFINITE software interface. On the left, there is a list of users with their names and email addresses. On the right, a table shows a detailed history of document changes, including version numbers, dates, times, statuses, usernames, and specific operations performed.

Version	Date	Status	Username	Operation
02.03	9/8/2023 3:18:34 PM	L0-Work In Progress	mad1	CHANGE DOCUMENT STATE CHECK-IN
02.03	9/8/2023 3:18:18 PM	L0-Work In Progress	mad1	MODIFY RESOURCE
02.03	9/8/2023 3:17:37 PM	L0-Work In Progress	mad1	CHANGE DOCUMENT STATE CHECK-OUT
02.03	9/8/2023 3:17:37 PM	L0-Work In Progress	mad1	INCREMENT WIP OF THE PRIMARY REVISION ISO DOCUMENT
02.02	9/8/2023 3:14:12 PM	L0-Work In Progress	mad1	MODIFY RESOURCE
02.02	9/8/2023 3:14:12 PM	L0-Work In Progress	mad1	CHANGE DOCUMENT STATE CHECK-IN
02.02	9/8/2023 3:11:47 PM	L0-Work In Progress	mad1	CHANGE DOCUMENT STATE CHECK-OUT
02.02	9/8/2023 3:11:47 PM	L0-Work In Progress	mad1	INCREMENT WIP OF THE PRIMARY REVISION ISO DOCUMENT
02.01	9/8/2023 3:10:57 PM	L0-Work In Progress	mad1	MODIFY RESOURCE
02.01	9/8/2023 3:10:57 PM	L0-Work In Progress	mad1	CHANGE DOCUMENT STATE CHECK-IN
02.01	9/8/2023 3:05:39 PM	L0-Work In Progress	mad1	INCREMENT REVISION ISO DOCUMENT
02.01	9/8/2023 3:05:39 PM	L0-Work In Progress	mad1	CHANGE DOCUMENT STATUS
01	9/8/2023 3:05:01 PM	L1-Shared	madedddud	ADD USER PERMISSION ON RESOURCE
01	9/8/2023 2:49:55 PM	L1-Shared	madedddud	ADD USER PERMISSION ON RESOURCE
01	9/8/2023 2:48:52 PM	L1-Shared	madedddud	CHANGE DOCUMENT STATUS
01.03	9/8/2023 2:47:53 PM	L0-Work In Progress	madedddud	MODIFY RESOURCE
01.03	9/8/2023 2:47:53 PM	L0-Work In Progress	madedddud	CHANGE DOCUMENT STATE CHECK-IN
01.03	9/8/2023 2:44:20 PM	L0-Work In Progress	madedddud	CHANGE DOCUMENT STATE CHECK-OUT
01.03	9/8/2023 2:44:20 PM	L0-Work In Progress	madedddud	INCREMENT WIP OF THE PRIMARY REVISION ISO DOCUMENT
01.02	9/8/2023 2:42:32 PM	L0-Work In Progress	madedddud	MODIFY RESOURCE
01.02	9/8/2023 2:42:32 PM	L0-Work In Progress	madedddud	CHANGE DOCUMENT STATE CHECK-IN
01.02	9/8/2023 2:39:40 PM	L0-Work In Progress	madedddud	CHANGE DOCUMENT STATE CHECK-OUT
01.02	9/8/2023 2:39:40 PM	L0-Work In Progress	madedddud	INCREMENT WIP OF THE PRIMARY REVISION ISO DOCUMENT
01.01	9/8/2023 2:38:08 PM	L0-Work In Progress	madedddud	CHANGE DOCUMENT STATE CHECK-IN
01.01	9/8/2023 2:37:02 PM	L0-Work In Progress	madedddud	MODIFY RESOURCE
01.01	9/8/2023 2:33:05 PM	L0-Work In Progress	madedddud	CREATE NEW RESOURCE



# Main Functionalities

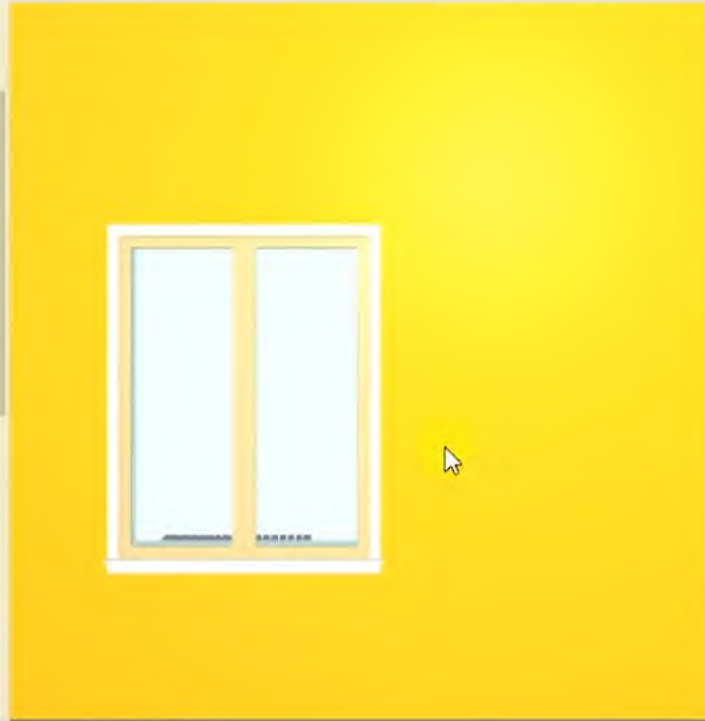
- **Integration with 3D Models:** BIM-P enables architects and engineers to link documents with 3D models and model elements. This is particularly useful for design, analysis, and simulation activities.
- **Open API interface:** external applications can be integrated with the platform through an open API interface. This feature extends functionality and allows for seamless interaction with other tools.



# BasicModel\_Demonstration

Hierarchy    Zones    Groups    filter text

- 28 - IfcSpace
- 1 - IfcSpace
- 2 - IfcSpace
- 3 - IfcSpace
- 4 - IfcSpace
- 5 - IfcSpace
- 6 - IfcSpace
- 7 - IfcSpace
- 9 - IfcSpace
- Muro di base:Exterior - Render on Brick on Block:346560 - IfcWallStandardCase
- Muro di base:Exterior - Render on Brick on Block:346561 - IfcWallStandardCase
- Muro di base:Exterior - Render on Brick on Block:346562 - IfcWallStandardCase
- Facciata continua:Storefront:346563 - IfcCurtainWall
- M\_Window-Casement-Double:1400 x 1800mm:346760 - IfcWindow
- M\_Trim-Window-Exterior-Flat:with Sill:346765 - IfcBuildingElementProxy
- M\_Window-Casement-Double:1400 x 1800mm:346831 - IfcWindow
- M\_Trim-Window-Exterior-Flat:with Sill:346836 - IfcBuildingElementProxy
- M\_Window-Casement-Double:1400 x 1800mm:346907 - IfcWindow
- M\_Trim-Window-Exterior-Flat:with Sill:346912 - IfcBuildingElementProxy
- M\_Window-Casement-Double:1400 x 1800mm:346963 - IfcWindow
- M\_Trim-Window-Exterior-Flat:with Sill:346968 - IfcBuildingElementProxy
- M\_Window-Casement-Double:1400 x 1800mm:347023 - IfcWindow
- M\_Trim-Window-Exterior-Flat:with Sill:347028 - IfcBuildingElementProxy
- Muro di base:Interior - 79mm Partition (1-hr):347365 - IfcWallStandardCase
- Muro di base:Interior - Blockwork 190:347706 - IfcWallStandardCase
- Muro di base:Interior - 79mm Partition (1-hr):347735 - IfcWallStandardCase



Main    Type    Material    Properties

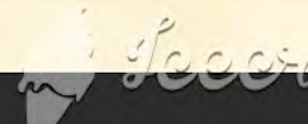
Custom    Ref&Links

ConnectedTo

IfcRelConnectsPathElements	IfcRelConnectsPathElements #
IfcRelConnectsPathElements	IfcRelConnectsPathElements #
IfcRelConnectsPathElements	IfcRelConnectsPathElements #
IfcRelConnectsPathElements	IfcRelConnectsPathElements #
IfcRelConnectsPathElements	IfcRelConnectsPathElements #
IfcRelConnectsPathElements	IfcRelConnectsPathElements #

General

ContainedIn Structure (∞)	IfcRelContainedInSpatialStructu
ContainedIn Structure (∞)	IfcRelContainedInSpatialStructu
Defining Type	Muro di base:Exterior - Render #1397
Defining Type	Muro di base:Exterior - Render #1397



# BasicModel\_Demonstration

Hierarchy Zones Groups filter text

- 28 - IfcSpace
- 1 - IfcSpace
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- Muro di base:Interior - Blockwork 190:347706 - IfcWallStandardCase
- Muro di base:Interior - 79mm Partition (1-hr):347735 - IfcWallStandardCase



Main	Type	Material	Properties	Custom	Ref&Links
<b>ConnectedTo</b>					
IfcRelConnectsPathElements			IfcRelConnectsPathElements #10680		
IfcRelConnectsPathElements			IfcRelConnectsPathElements #10681		
IfcRelConnectsPathElements			IfcRelConnectsPathElements #10682		
IfcRelConnectsPathElements			IfcRelConnectsPathElements #10680		
IfcRelConnectsPathElements			IfcRelConnectsPathElements #10681		
IfcRelConnectsPathElements			IfcRelConnectsPathElements #10682		
<b>General</b>					
ContainedInStructure (∞)			IfcRelContainedInSpatialStructure #10580		
ContainedInStructure (∞)			IfcRelContainedInSpatialStructure #10580		
Defining Type			Muro di base:Exterior - Render on Brick on Block: #1397		
Defining Type			Muro di base:Exterior - Render on Brick on Block: #1397		
GlobalId			4cfbddd2-7e4b-4389-b5b0-6491cdab4229		
GlobalId			4cfbddd2-7e4b-4389-b5b0-6491cdab4229		
HasAssociations (∞)			IfcRelAssociatesMaterial #10603		
HasAssociations (∞)			IfcRelAssociatesMaterial #10603		
HasOpenings (∞)			IfcRelVoidsElement #10739		
HasOpenings (∞)			IfcRelVoidsElement #10739		
Ifc Label			#1330		
Ifc Label			#1330		
Name			Muro di base:Exterior - Render on Brick on Block:346560		
Name			Muro di base:Exterior - Render on Brick on Block:346560		

*INFINITE*  
*one team*  
 APPS

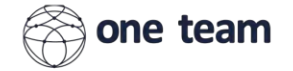
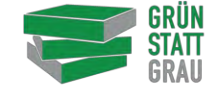


# Consortium

## Coordinator



## Project Partners



# Thank you

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