

## **Circularité dans la construction**





Connaissance



# TECHNOLOGIE



## Scan 3D

Pour obtenir une vision la plus précise possible du bâtiment

- Nuage de points
- Images 360°



## Computer Vision

Pour identifier automatiquement les équipements d'un bâtiment

- Détection d'objet
- Inventaire



## Segmentation 3D

Pour diviser un nuage de points en sous-ensemble cohérent

- Calcul de quantité
- Modélisation BIM



# ECHELLE



Photo credit: Photo by Ihor Malytskyi on Unsplash

## Citoyen

Pour fournir de l'information et des produits

- Transparence
- Marché d'occasion

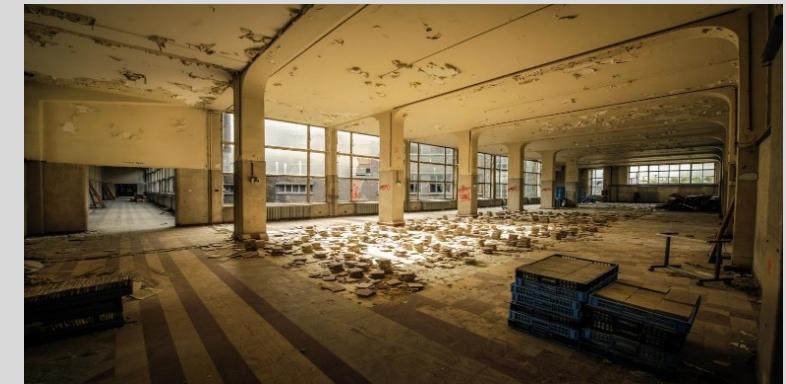
## Reusinte d



## Bâtiment

Pour aider à prendre les bonnes décisions pour le bien-être commun

- Démolition vs. Déconstruction
- Analyse Coûts-bénéfices



## Ville/Territoire

Pour organiser la stratégie et gérer les ressources

- Gisement urbain
- Plateforme de stockage et de redistribution



# DURABILITE

EVERY PERSON MAKES A DIFFERENCE  
EVERY PERSON MAKES A DIFFERENCE



## Consommation responsable

Pour sauvegarder les matières premières et l'énergie

- Design Réversible
- Préfabrication



Photo credit: Photo by Nasa on Unsplash

## Etendre la durée de vie

- Pas d'obsolescence programmée
- Maintenance prédictive
- Flexibilité Spacial

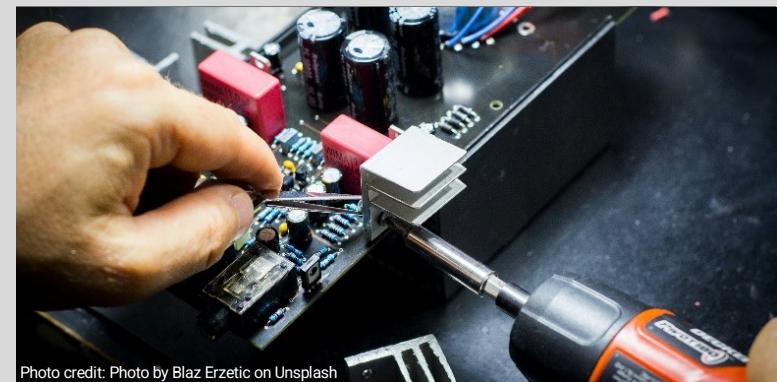


Photo credit: Photo by Blaz Erzetic on Unsplash

## Recycling, Upcycling, Reuse

Pour éviter de créer de nouveaux déchets

- Cradle to Cradle
- Circularité



Photo credit: Photo by Roger Starnes on Unsplash



## Une plateforme digitale pour le réemploi

<https://reuse.bim-y.com>



Homepage Buildings

Login ▾



Ettelbruck Station



Petite Maison

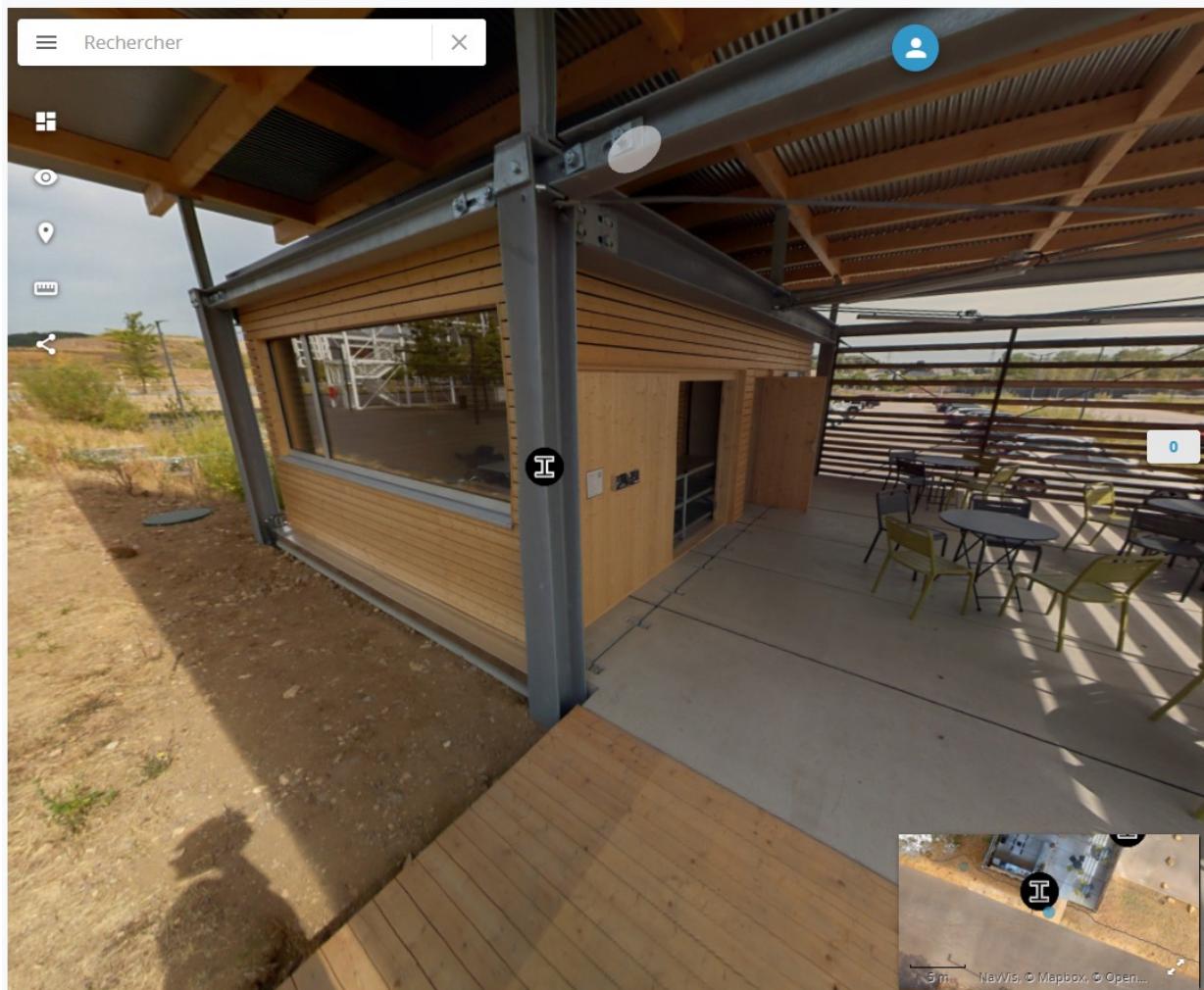


Kopstal



Eurooffice

# Visualiser et réserver l'objet qui vous intéresse



Rechercher X

Profilstütze - StSt-6

Information

Classifications

Imbedded Materials

Reuse Properties

Reuse Potential	Quality Good	Très bon état
Reuse Decision		
Status		
Historical Value		

Physical Properties

Name	Value	Unit
Length	270	mm
Width	280	mm
Height	3.7	ml
Volume		
Color	Gris	

Electrical Properties

Book it!

QR code

# Tableau de bord

   75%   John ▾



Campus Contern Luxembourg

 **Dashboard**

 **Assets**

 **Team**

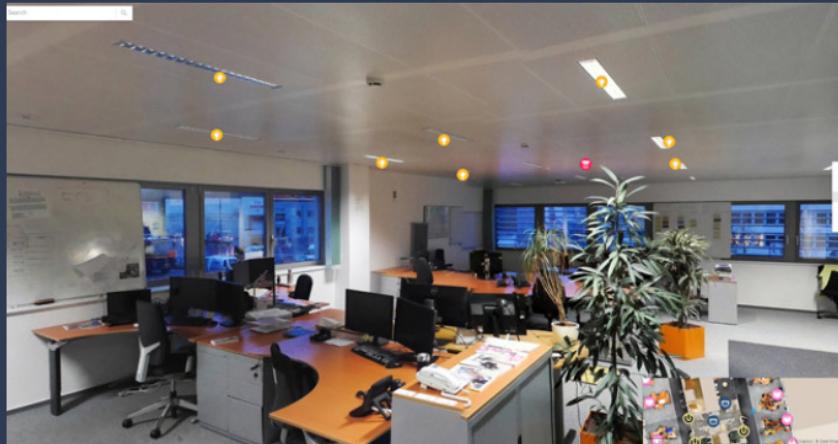
 **Data room**

 **Inventory**

 **Repository**

## Dashboard

**Building A - Level 02**

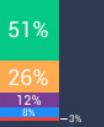


### Information

Room: 03-234

Category	Count
Low Voltage	51
HVAC	26
Windows	12
Fire Detection	8
Doors	3

  
51%  
26%  
12%  
8%  
3%

**EXPLORE ➔**

### GID 555

Level of Information: 65 %



Level of Documentation: 83 %



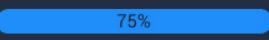
### Room Typology

<b>Office</b> 7.058	<b>Parking</b> 4.800
<b>Technical</b> 2.756	<b>Circulation</b> 2.059
<b>Meeting room</b> 1.426	<b>Sanitary</b> 696
<b>IT Room</b> 540	

### Asset Typology

<b>D Services</b> 5.738	<b>C Interiors</b> 4.034
<b>E Equipment &amp; Furnishings</b> 2.205	<b>B Shell</b> 1.716
<b>A Substructure</b> 1.160	<b>F Special construction</b> 590
	<b>G Sitework</b> 432

# Référentiel





Campus Contern  
Luxembourg

Dashboard

Assets

Team

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Repository

## Repository

List	
<b>GID xxx</b>	<a href="#">DETAIL ▶</a>
Country:	Luxembourg
Classification:	UNIFORMAT II
Description:	It defines on a scale of 1 to 5, the LOD, the LOI and the level of documentation
Managed by:	CRTI-B / <a href="http://www.digitalbuilding.lu">www.digitalbuilding.lu</a>
<b>NBS</b>	<a href="#">DETAIL ▶</a>
Country:	United Kingdom
Classification:	Uniclass 2015
Description:	It defines on a scale of 2 to 6 the Level of Information
Managed by:	NBS / <a href="http://www.nbs.com">www.nbs.com</a>

Detail						
Space	Infrastructure	Superstructure	Finishing	Transportation	Drainage	...
Standard Foundation	Special Foundation	Wall for Subgrade Enclosure	Standard Slabs-on-Grade	Structural Slabs-on-Grade	Slabs-on-Grade Supplementary Components	
LEVEL OF DETAIL			LEVEL OF INFORMATION			LEVEL OF DOCUMENTATION
Title			x1x	x2x	x3x	x4x
Naming / Name			X	X	X	X
Naming / Tag					If required	If required
Classification			X	X	X	X
Type				X	X	X
Statut			X	X	X	X
Material				X	X	X
Method of construction				X	X	X
Reinforcement Volume Ratio				X	X	X
Load Bearing			X	X	X	X

# Inventaire



75%



John



Campus Contern  
Luxembourg



Dashboard



Assets



Team



Data room



Inventory



Repository

## Inventory

### Select the assets



### Add documents

Light3269.pdf

Data sheet

Diag\_2045.pdf

Schematic

Inst\_mont.pdf

Manual



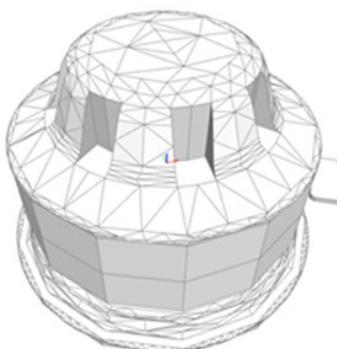
CONFIRM THE PAIRING

# Gestion des équipements

BIMY

Asset board

Code: CC1\_AL\_00\_0FFB01\_LC\_FDE\_06\_BR\_001  
Uniclass: Pr\_75\_75\_30\_65 - Point smoke detectors



General

Accessibility Performance	n/a
Asset Identifier	n/a
Asset Type	Fixed
Bar Code	n/a
Code Performance	EN 54-7
Color	White
Constituents	n/a
Description	Discovery optical smoke detector
Expected Life	10 Years
Features	Works using the light scatter principle and is ideal for applications where slow-burning or smouldering fires are likely
Finish	Gloss
Grade	n/a
Installation Date	10.08.2003
Manufacturer	Apollo fire

Attribute

Electrical Property Set

Asset Property Set

Material Passport

Data Quality

GENERAL	ATTRIBUTE	ELECTRICAL PROPERTY	ASSET PROPERTY	MATERIAL PASSPORT
85.2 %	100 %	72.6 %	61.8 %	45.3 %

# Data room

   75%   John ▾



Campus Contern  
Luxembourg

-  Dashboard
-  Assets
-  Team
-  Data room
-  Inventory
-  Repository

## Data Room

... / Fire Protection / Sprinkling / Datasheet

Datasheet

LAST FIRST SIZE A-Z



# Gestion des intervenants

[Home](#) 75%   John 



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Luxembourg

 [Dashboard](#)

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## Team

Group	Authority	Name	Role	Company	Country	Actions
Architect	Admin	 John Doe	Architect	Architectura +	Luxembourg	<a href="#">EDIT</a>
Engineer	Editor	 Vanessa Smith	HVAC Engineer	SGI	France	<a href="#">EDIT</a>
Builder	Publisher	 Ignacio Garcia	Project Manager	Vinci	France	<a href="#">EDIT</a>

**Pending validation**

 Owner	Admin	 Sophie Muller	Invitation sent on: April, 12 2021 at 2:30 PM	<a href="#">RESEND INVITATION</a>
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Respect people and nature  
Advocate gender equality  
Promote social inclusion  
Share your knowledge  
Help each other

# Thank you !

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*Photo credit: Jose A. Thompson, Unsplash.com*

