

Circularité dans la construction

BRIDGING THE GAP
for circular buildings
& digitalisation

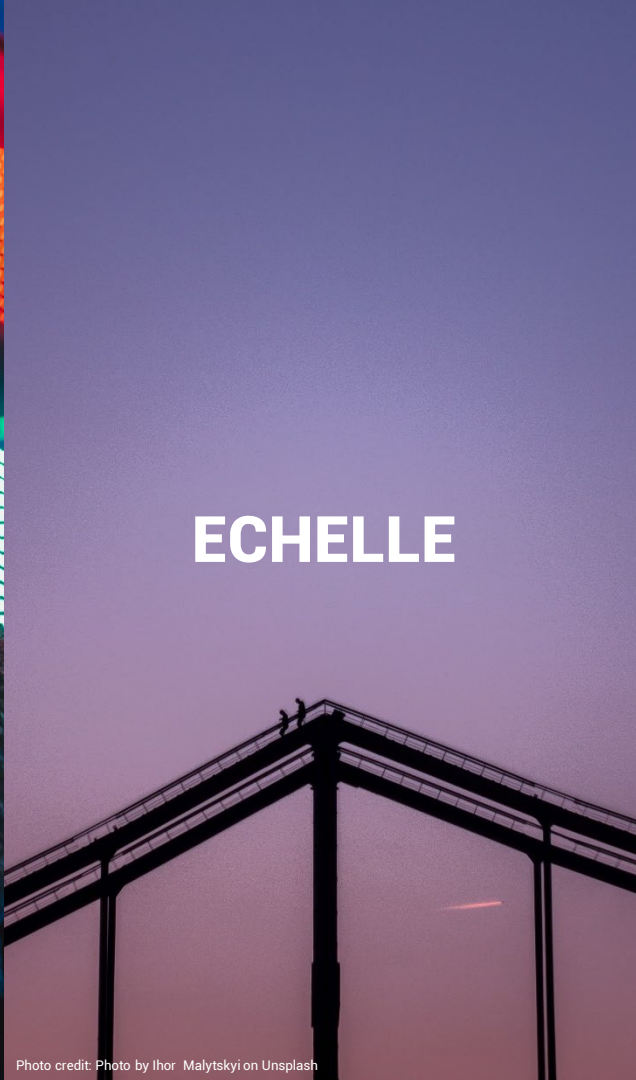
Connaissance





TECHNOLOGIE

Photo credit: Photo by Wilmer Martinez on Unsplash



ECHELLE

Photo credit: Photo by Ihor Malyskyi on Unsplash



DURABILITE

Photo credit: Photo by Clélie Birkner on Unsplash

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

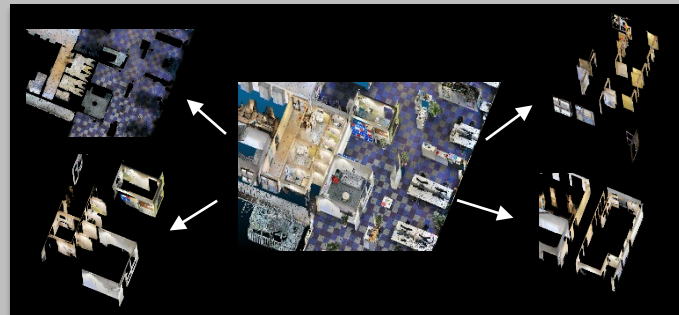
- Détection d'objet
- Inventaire



Segmentation 3D

Pour diviser un nuage de points en sous-ensemble cohérent

- Calcul de quantité
- Modélisation BIM



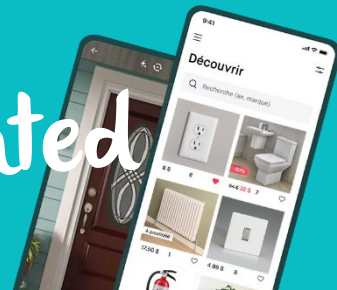
ECHELLE

Citoyen

Pour fournir de l'information
et des produits

- Transparence
- Marché d'occasion

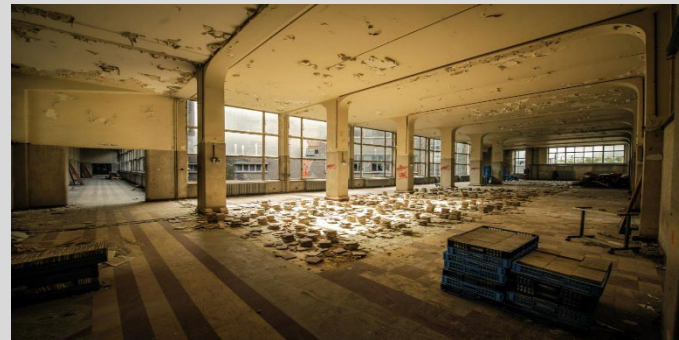
Reusinted



Bâtiment

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

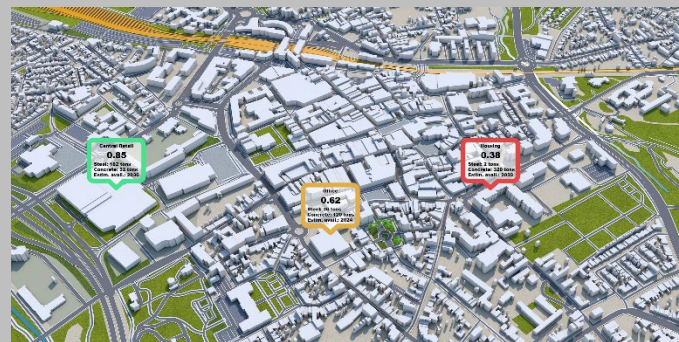
- Démolition vs. Déconstruction
- Analyse Coûts-benefices



Ville/Territoire

Pour organiser la stratégie et
gérer les ressources

- Gisement urbain
- Plateforme de stockage et
de redistribution



DURABILITE



Photo credit: Photo by Cherie Birkner on Unsplash

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

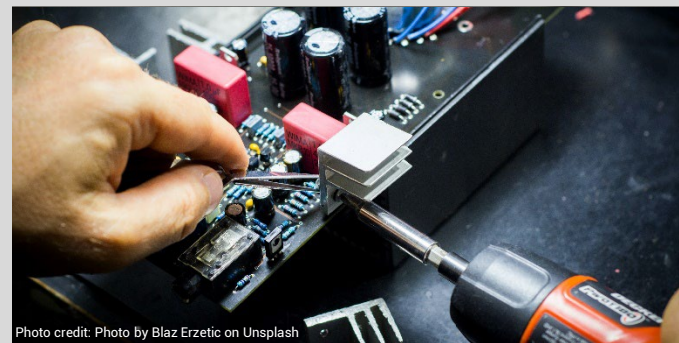


Photo credit: Photo by Blaz Erzetec on Unsplash

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

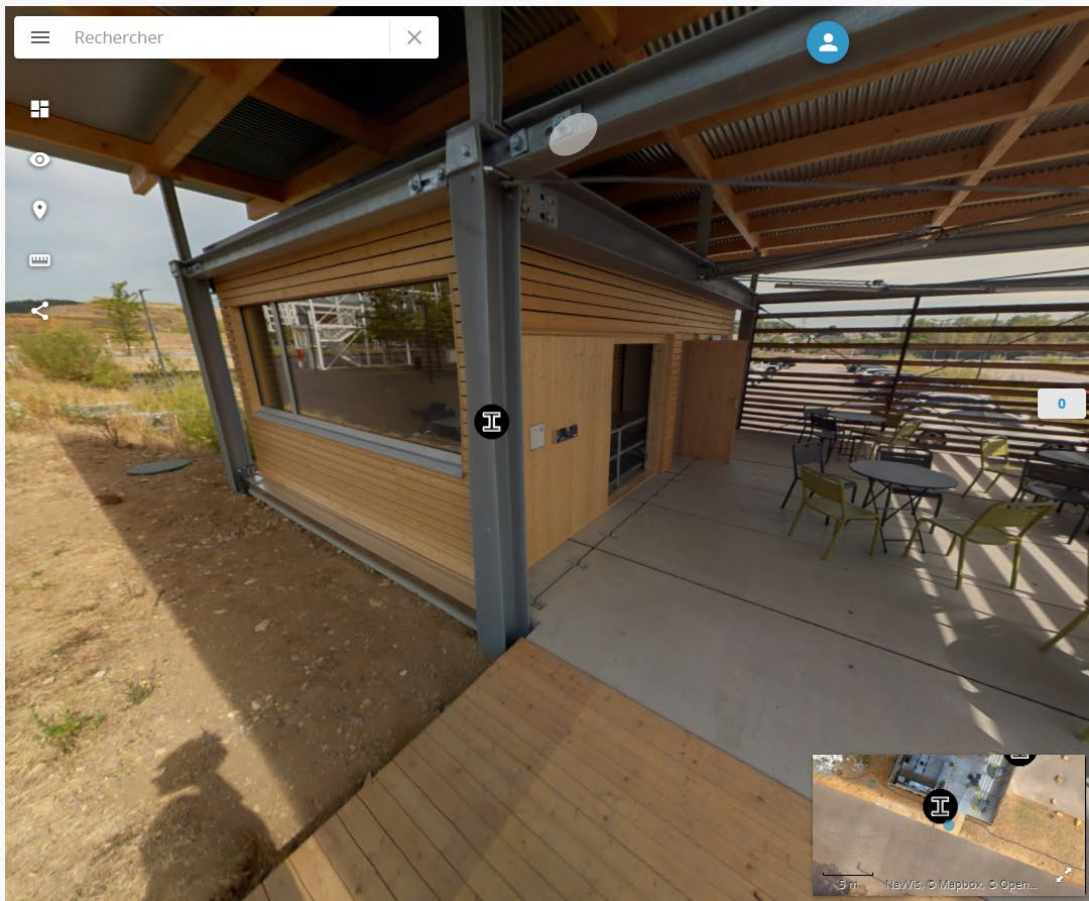


Kopstal



Eurooffice

Visualiser et réserver l'objet qui vous intéresse



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!

Tableau de bord



75%



John



Campus Contern
Luxembourg



Dashboard



Assets



Team



Data room



Inventory



Repository

Dashboard

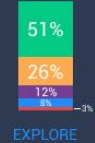
Building A - Level 02



Information

Room: 03-234

- Low Voltage: 51
- HVAC: 26
- Windows: 12
- Fire Detection: 8
- Doors: 3



EXPLORE

GID 555

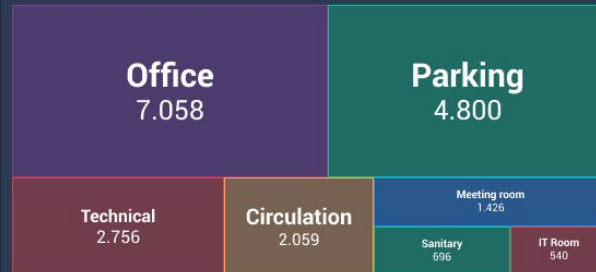
Level of Information



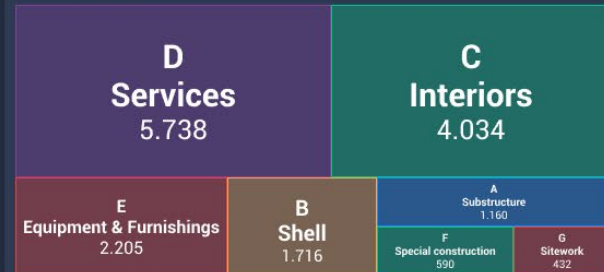
Level of Documentation



Room Typology



Asset Typology





75%



John



Campus Contern
Luxembourg



Dashboard



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Inventory



Repository

Repository

List

GID xxx

[DETAIL](#)

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 / www.digitalbuilding.lu

NBS

[DETAIL](#)

Country: United Kingdom
Classification: Uniclass 2015
Description: It defines on a scale of 2 to 6 the Level of Information
Managed by: NBS / www.nbs.com

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	x5x
Naming / Name		X	X	X	X	X
Naming / Tag				If required	If required	If required
Classification		X	X	X	X	X
Type			X	X	X	X
Statut		X	X	X	X	X
Material			X	X	X	X
Method of construction				X	X	X
Reinforcement Volume Ratio				X	X	X
Load Bearing		X	X	X	X	X

Inventaire



75%



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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



75%



John



Campus Contern
Luxembourg



Dashboard



Assets



Team



Data room



Inventory

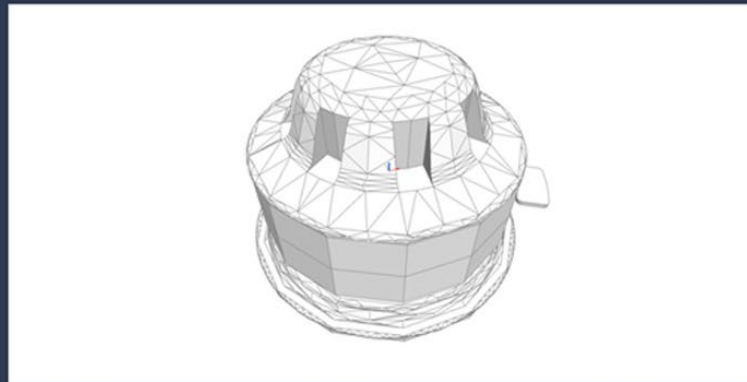


Repository

Asset board

Code: CC1_AL_00_OFFB01_LC_FDE_06_BR_001

Uniclass: Pr_75_75_30_65 - Point smoke detectors



Data Quality

GENERAL

85.2 %

ATTRIBUTE

100 %

ELECTRICAL PROPERTY

72.6 %

ASSET PROPERTY

61.8 %

MATERIAL PASSPORT

45.3 %

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 as likely
Finish	Gloss
Grade	n/a
Installation Date	10.08.2003
Manufacturer	Apollo fire

Attribute

Electrical Property Set

Asset Property Set

Material Passport

Data room



75%



John



Campus Contern
Luxembourg



Dashboard



Assets



Team



Data room



Inventory



Repository

Data Room

... / Fire Protection / Sprinkling / Datasheet



LAST

FIRST

SIZE

A-Z

Datasheet



Gestion des intervenants



75%



John



Campus Contern
Luxembourg



Dashboard



Assets



Team



Data room



Inventory



Repository

Team



Group	Authority	Name	Role	Company	Country	
Architect	Admin	John Doe	Architect	Architectura +	Luxembourg	EDIT ▶
Engineer	Editor	Vanessa Smith	HVAC Engineer	SGI	France	EDIT ▶
Builder	Publisher	Ignacio Garcia	Project Manager	Vinci	France	EDIT ▶
Pending validation						
Owner	Admin	Sophie Muller	Invitation sent on: April, 12 2021 at 2:30 PM			RESEND INVITATION ▶



Respect people and nature
Advocate gender equality
Promote social inclusion
Share your knowledge
Help each other

Thank you !

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