



Cluster
Digital Construction
Technology cluster powered by Buildwise



C-TECH
SUSTAINABLE BUILDING INNOVATION



Industrialisation de la construction

Quelle est la place de la digitalisation/numérisation dans la logistique de chantier ?



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- Pauline Dewez -

1

Question centrale



Le processus constructif peut-il être plus
rapide/efficace ?









Collaborer, mettre le client au centre







Détailier et planifier un maximum de choses dans la version numérique













Construire = assembler. Les nœuds de construction sont des solutions connues, les techniques sont pensées dès le concept.

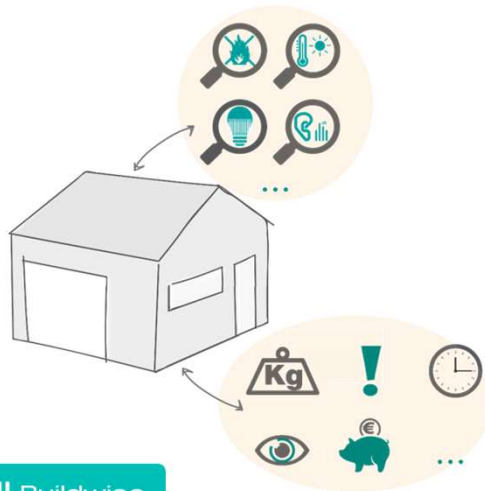
Favoriser la préfabrication pour éviter les problèmes sur chantier



2



De nombreux usages



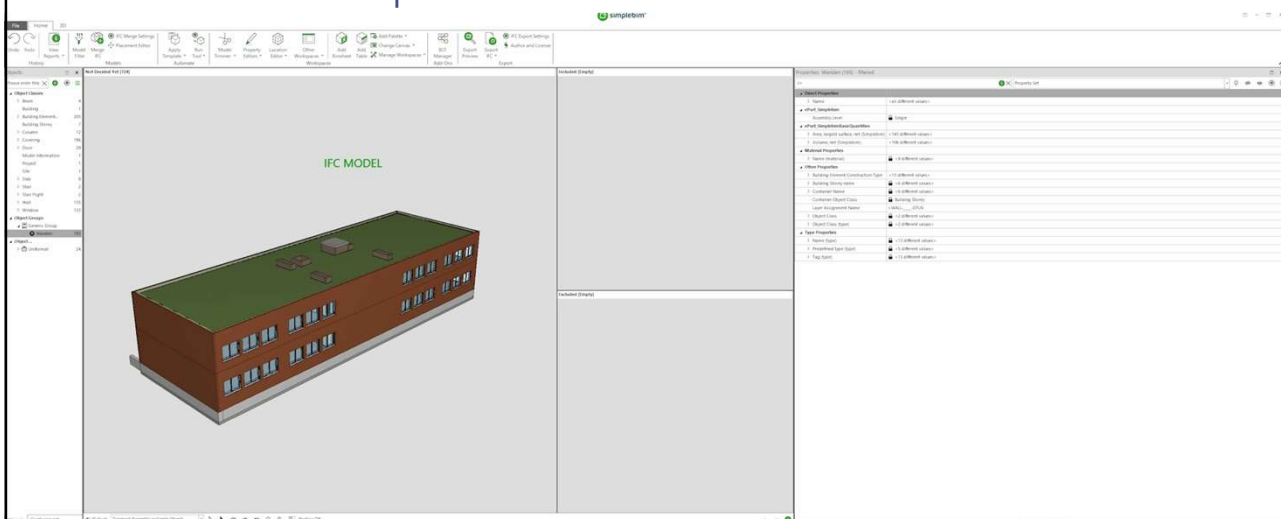
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Un modèle **structuré** pour :

- Effectuer des contrôles de qualité des modèles
- Effectuer des coordinations géométriques
- Partager des informations avec les partenaires de projet
- Calculer des quantités et des coûts
- ...

5

Extraction de quantités



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6

Viewers BIM et AR pour faire le lien avec le chantier



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7

Viewers BIM et AR pour faire le lien avec le chantier

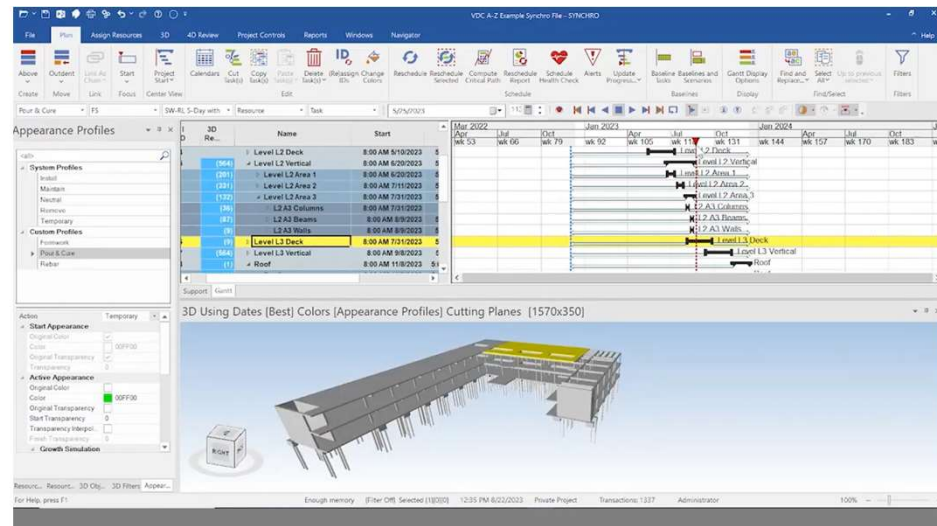


PROCORE | BIM

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8

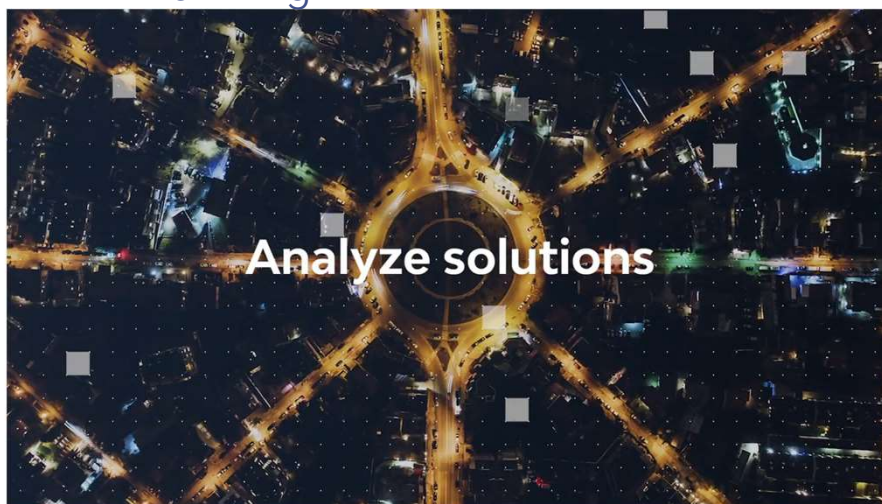
Planning et BIM



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9

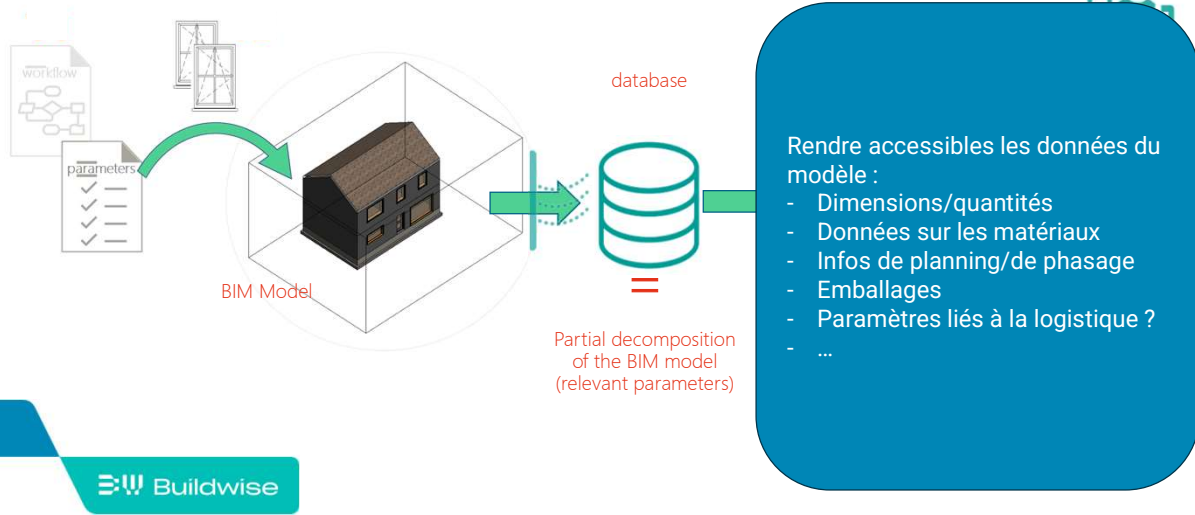
BIM – AI – Planning



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10

BIM -> Database -> on site editing



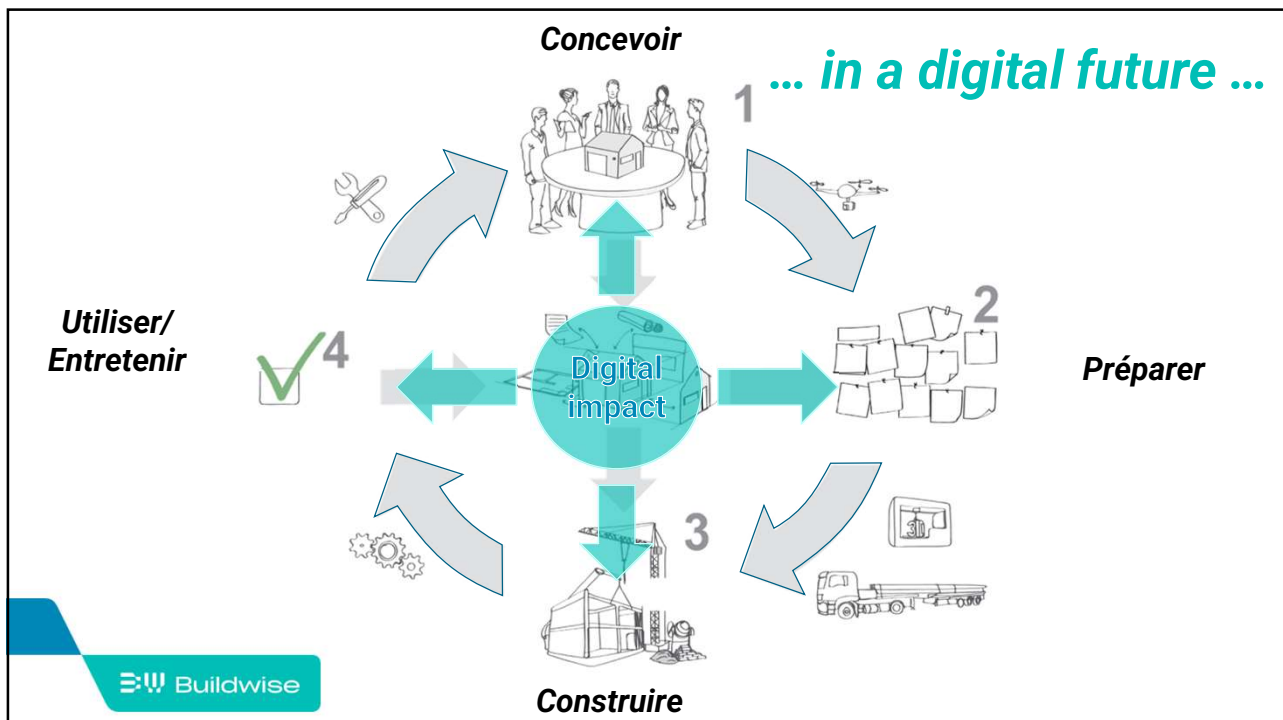
11

Quelle est la place de la digitalisation/numérisation dans la logistique de chantier ?

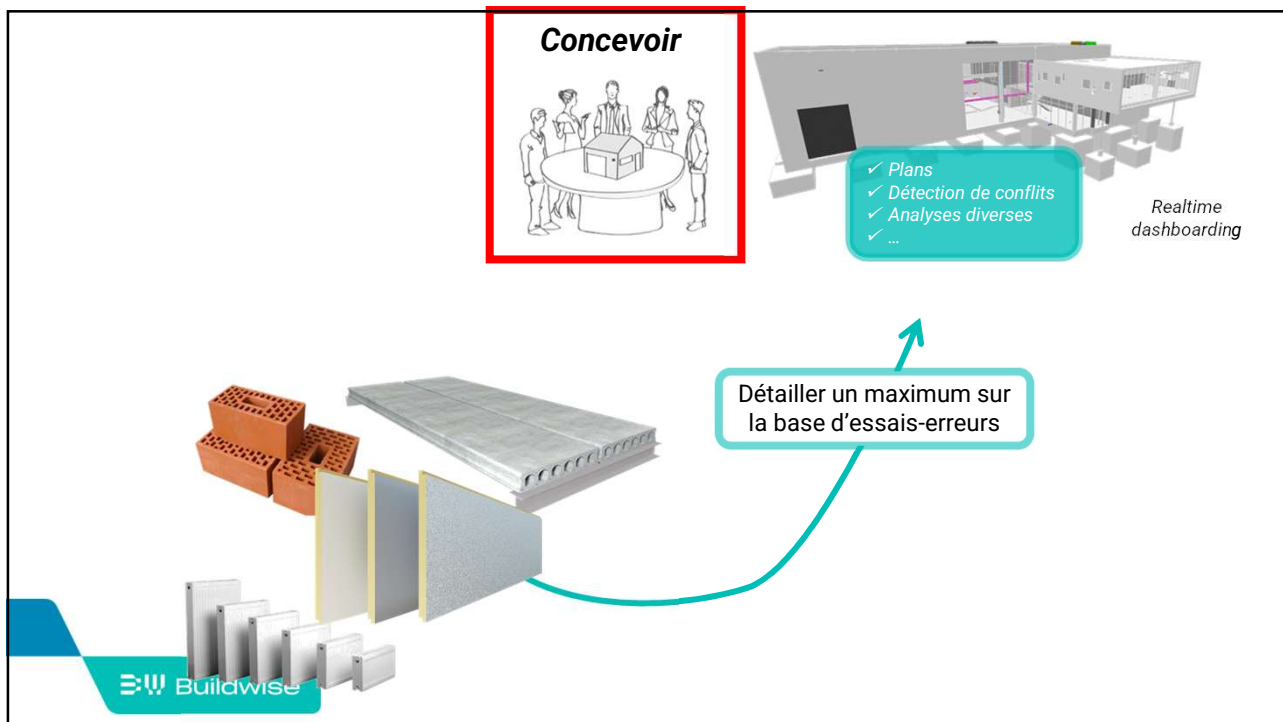
- 2 Quel rôle pourraient jouer le BIM, la standardisation et l'industrialisation dans le cadre de la logistique ?
- ✓ 1 L'expérience montre que la logistique commence par des plans et un planning stables et fiables

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12



13



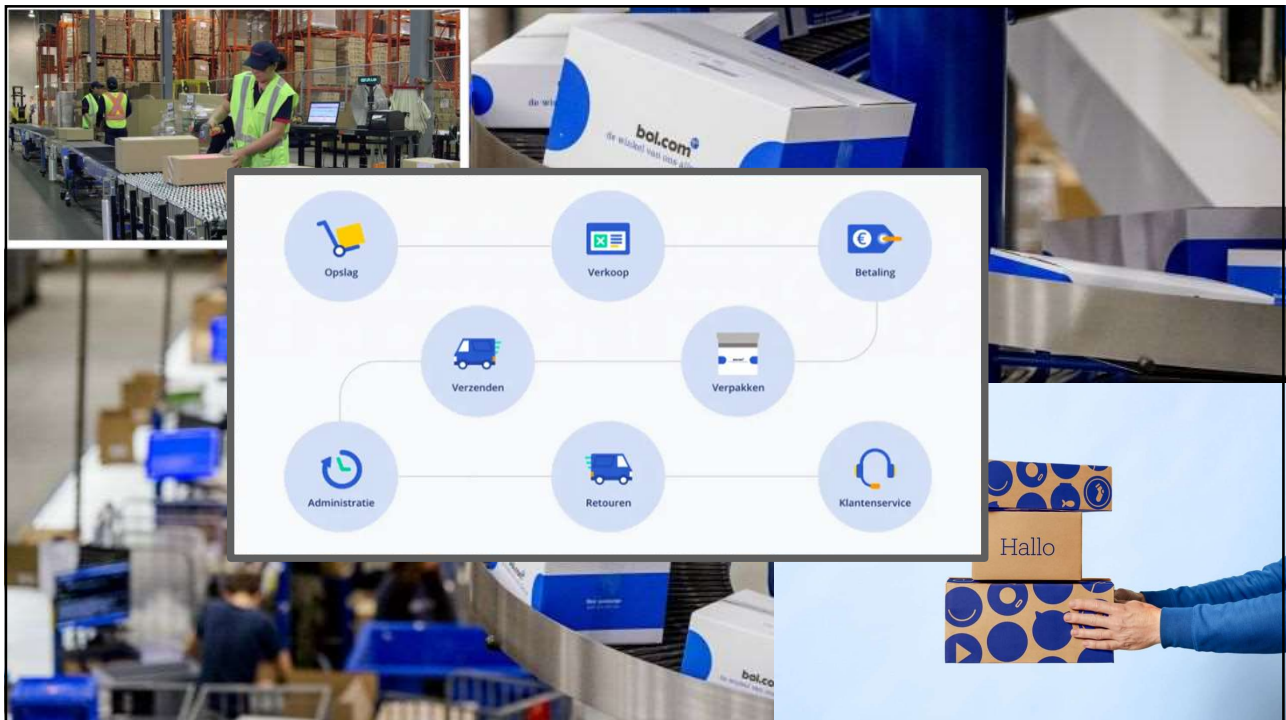
14

Aide au choix et au calepinage de matériaux

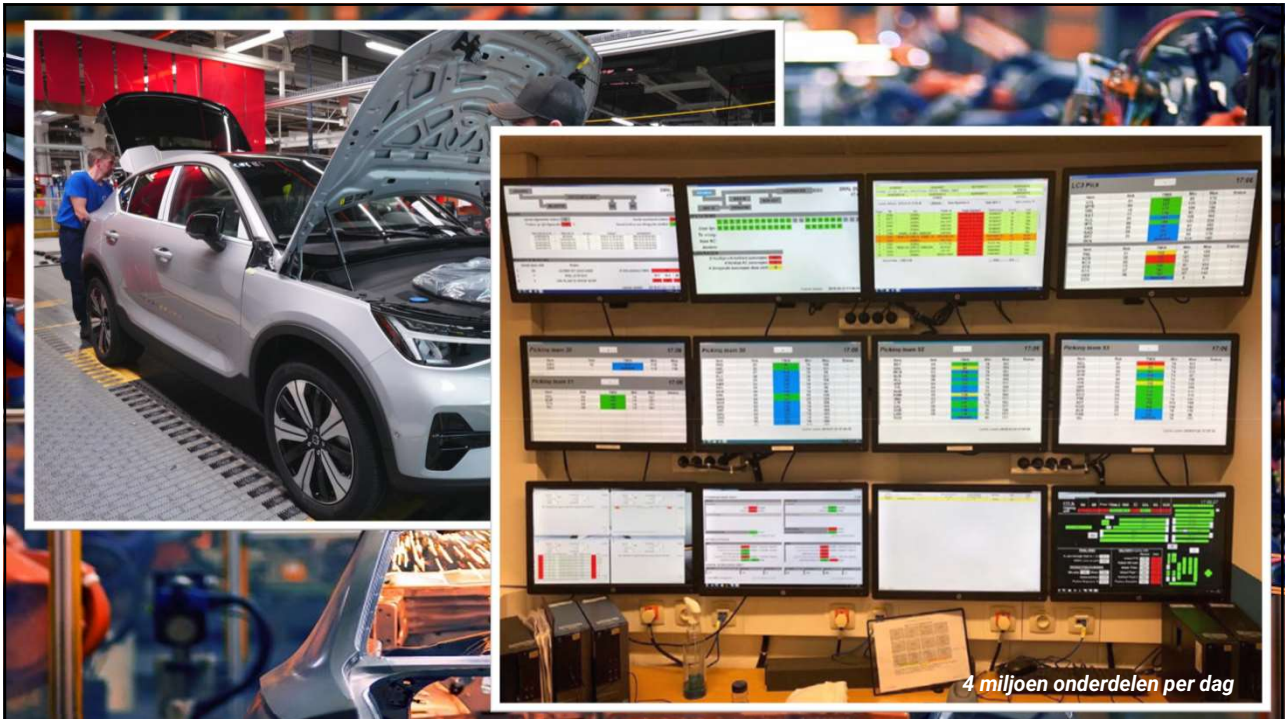


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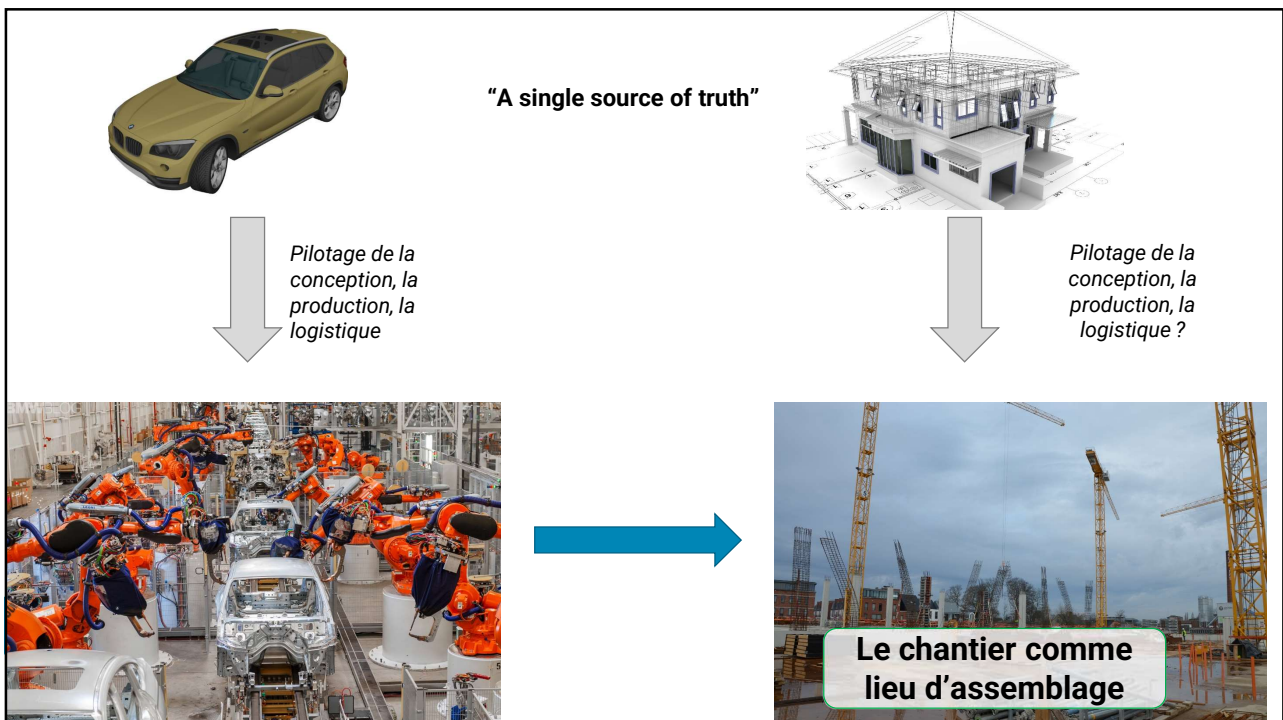
15



16

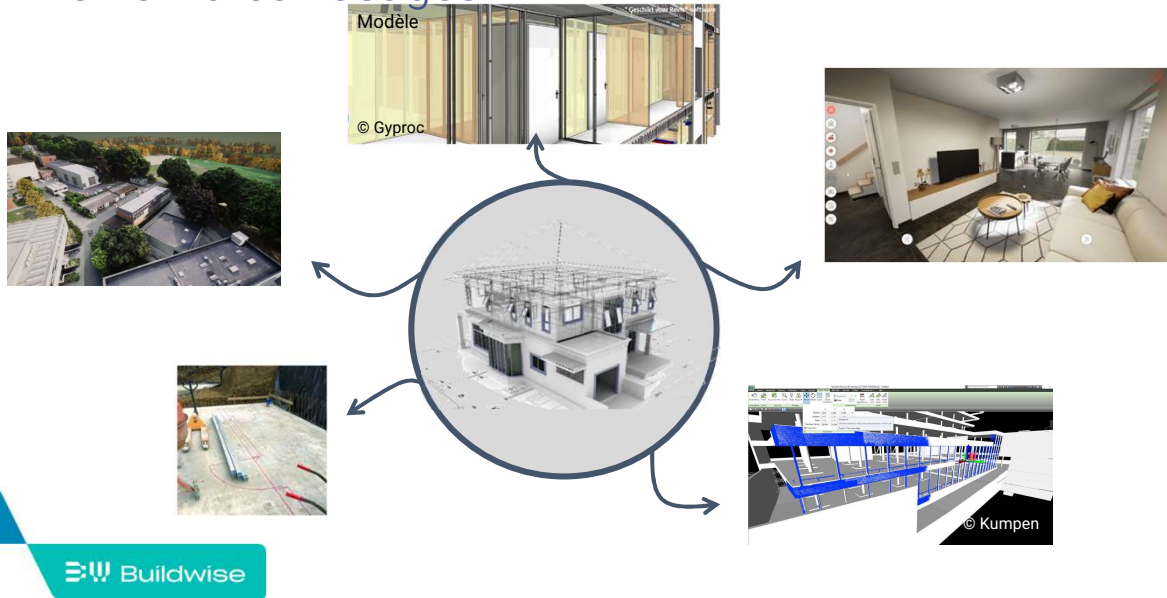


17



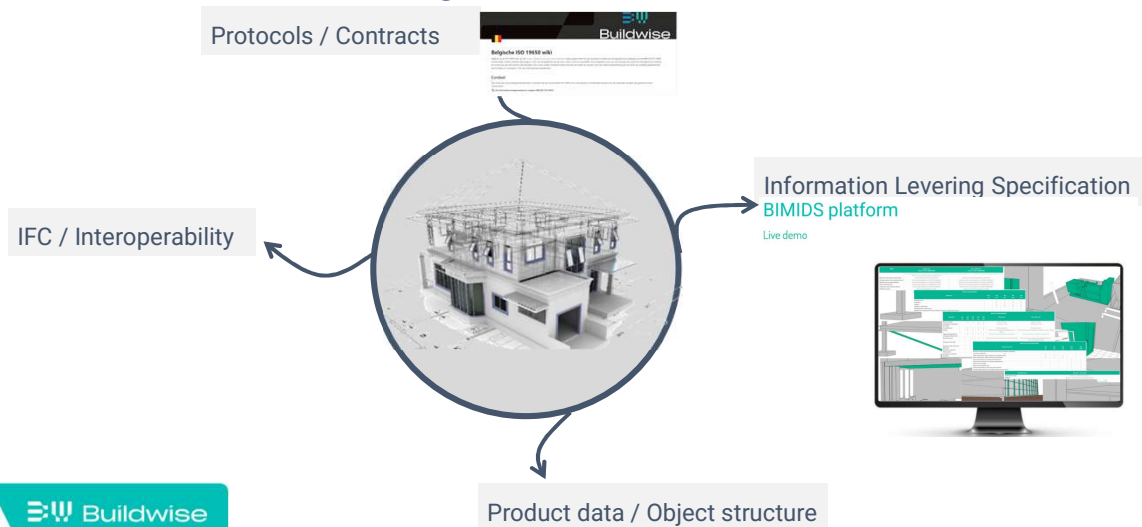
18

De nombreux usages



19

De nombreux usages... rendus possibles par un modèle et des échanges structurés



20

Documents de référence



WG

Working
Groups

Protocol

Classification

BIDS

Manufacturers

Training

Standardization

Publications

Publications

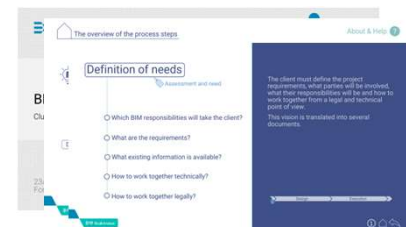
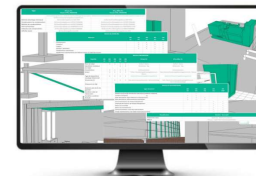


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BIMIDS platform

Live demo



21

DFMA

Concevoir

DFMA

Design For Manufacturing
and Assembly



HSBCad

Buildwise



Construire

Préparer

22

The image displays a comprehensive set of architectural documents for a building project, emphasizing the DfMA approach. It includes two detailed floor plans, a large material schedule table with columns for item, description, quantity, and unit, a 3D perspective rendering of a building, and several cross-sections labeled 'Section A' through 'Section D'. A central banner with a red geometric logo states 'Design for Manufacture and Assembly (DfMA) in 7 steps'.

23

DFMA

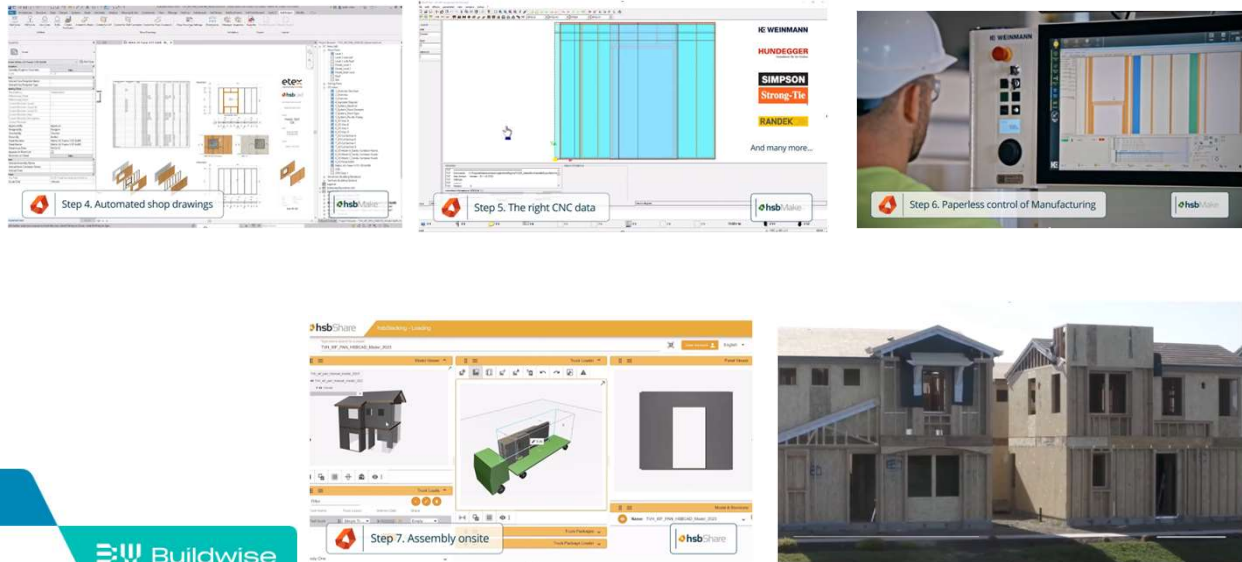
The image shows a sequence of five screenshots from a software interface, illustrating the steps of the DFMA process:

- Step 1. Flexible detailing:** Shows a 3D model of a building structure with various components highlighted in different colors.
- Step 2. Automated framing:** Shows a 3D model of a building structure with a detailed framing system.
- Step 3. Automated tools:** Shows a 3D model of a building structure with a detailed framing system, including a table of material quantities.
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A blue double-headed arrow connects the two 'Step 3. Automated tools' screenshots, indicating a comparison or transition between different tool configurations. The Buildwise logo is visible in the bottom left corner.

24

DFMA



25

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DIGITAL triggers DIGITAL

26

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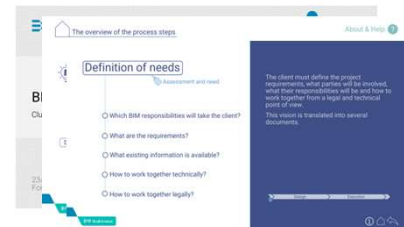
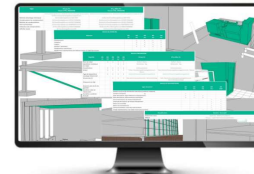


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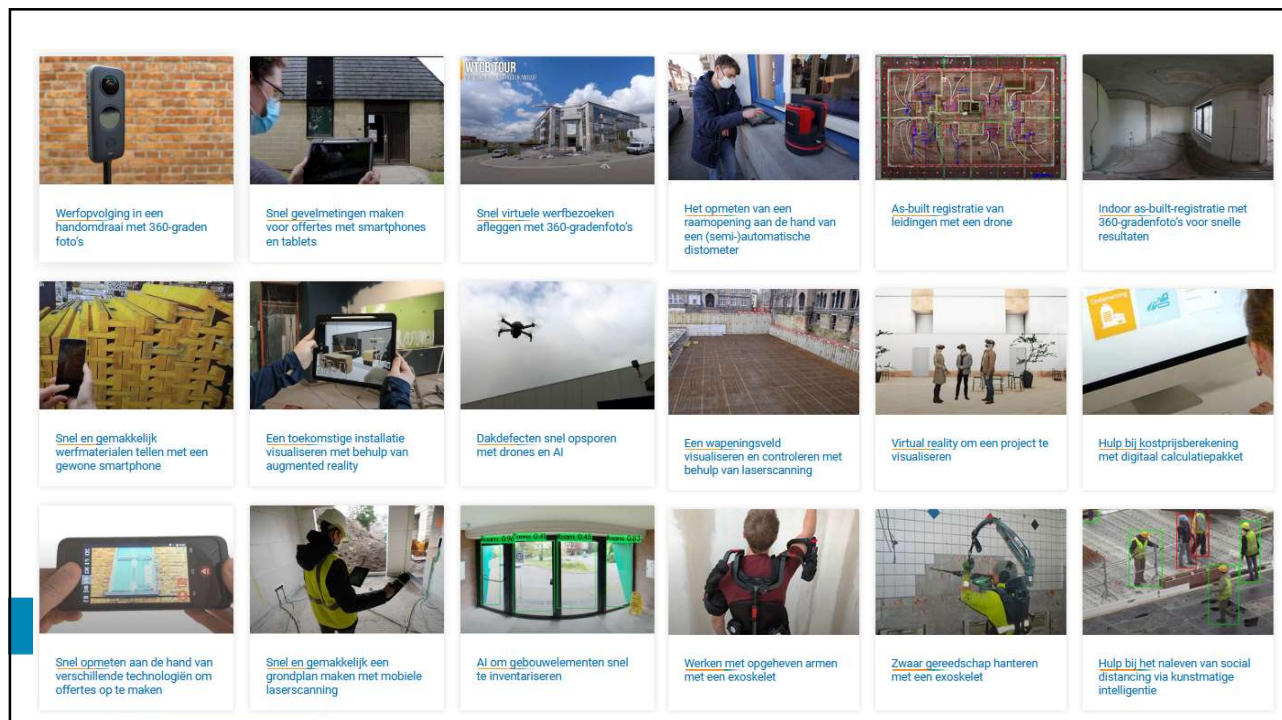


BIMIDS platform

Live demo



27



28