



Van Prompt naar Praktijk

PRAKTISCHE USE-CASES DIE VANDAAG AL WERKEN

Spreakers



Louis Casteleyn
BIM Product Owner – BAC



Tim Lugtenburg
BIM Expert



Frederik Van Nespen
BIM @ BEEL architecten



Introductie

Deze sessie wordt georganiseerd door buildingSMART Belgium.



[Home](#)

[News](#)

[Events](#)

[Who We Are](#)

[Downloads](#)

[Become A Member](#)

[C](#)

Developing and encouraging the application of openBIM standards

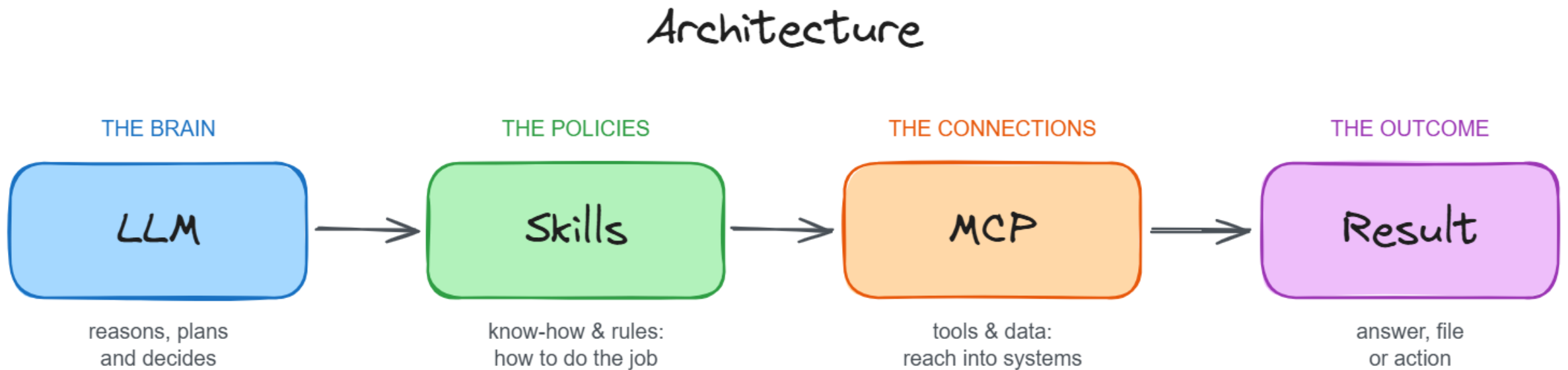
buildingSMART is the worldwide industry body driving the digital transformation of the built environment. buildingSMART is committed to delivering improvement by the creation and adoption of open, international standards and solutions for infrastructure and buildings.



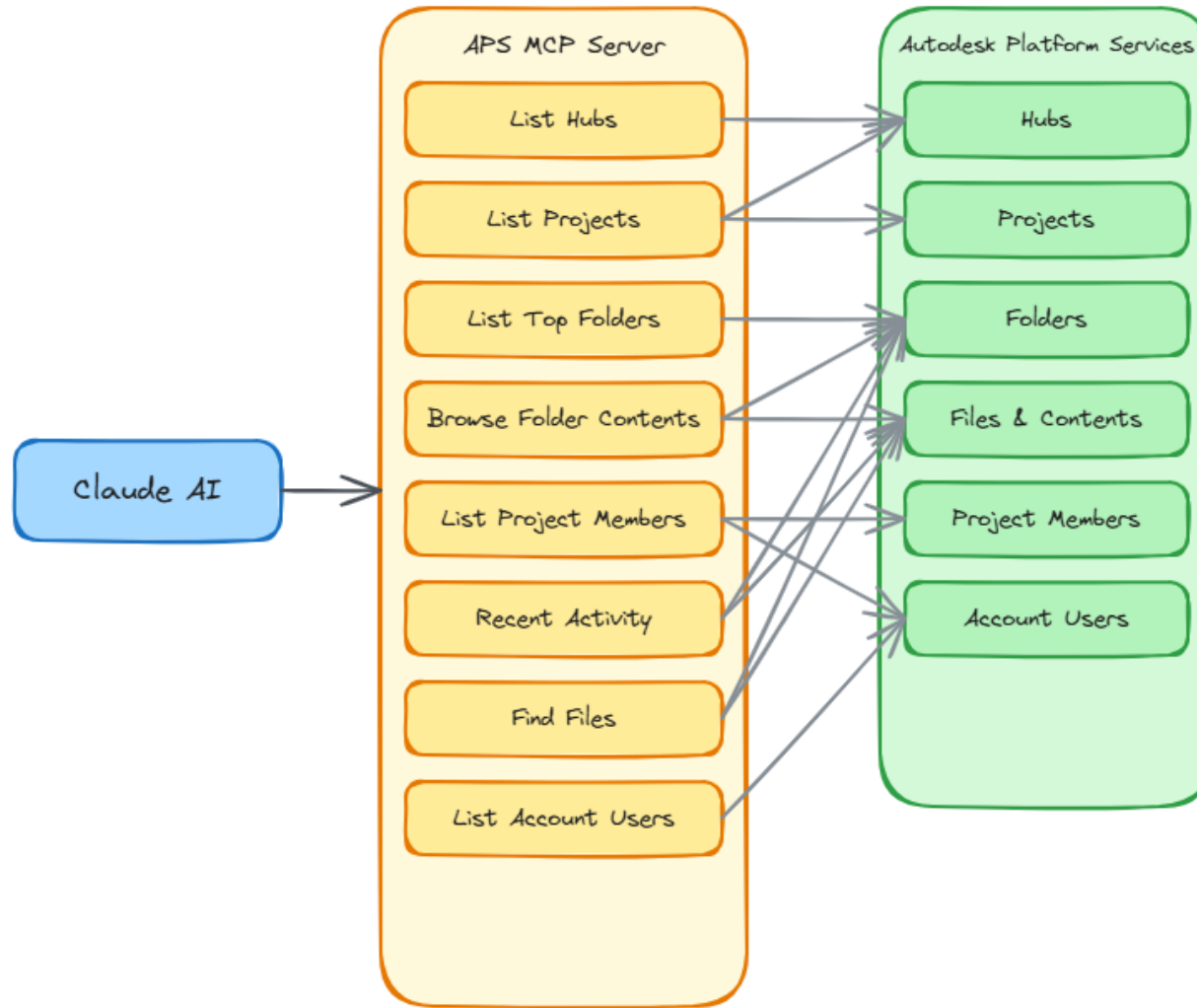
Zichtbaarheid creeëren voor praktische use-case die vandaag al werken

- Use-Case 1
 - Louis Casteleyn (Brussels Airport)
 - Forma Agent ter ondersteuning van het dagelijks beheer van Autodesk Forma
- Use-Case 2
 - Frederik Van Nespen (BEEL architecten)
 - Compliance checking using AI
- Use-Case 3
 - Tim Lugtenburg
 - Van technische fiche naar Revit-model

MCP & SKILLS



MCP & SKILLS



UseCase 1 – Forma MCP – Brussels Airport Company

Probleemstelling

- Moeilijk om de juiste dashboards te laten bouwen die inzicht geven op Forma
- Veel kliks om users toe te voegen in bulk aan projecten of rechten en projecten van persoon x te spiegelen na persoon
- Onmogelijk om zaken te veranderen aan duizenden mappen (gebouwenpark) in bulk
- Lastig om policies af te dwingen
- Bijkomende ontwikkeling op Forma duur, niet voorzien in projectbudget, extern te ontwikkelen en lastig met onvolledige lijst van requirements

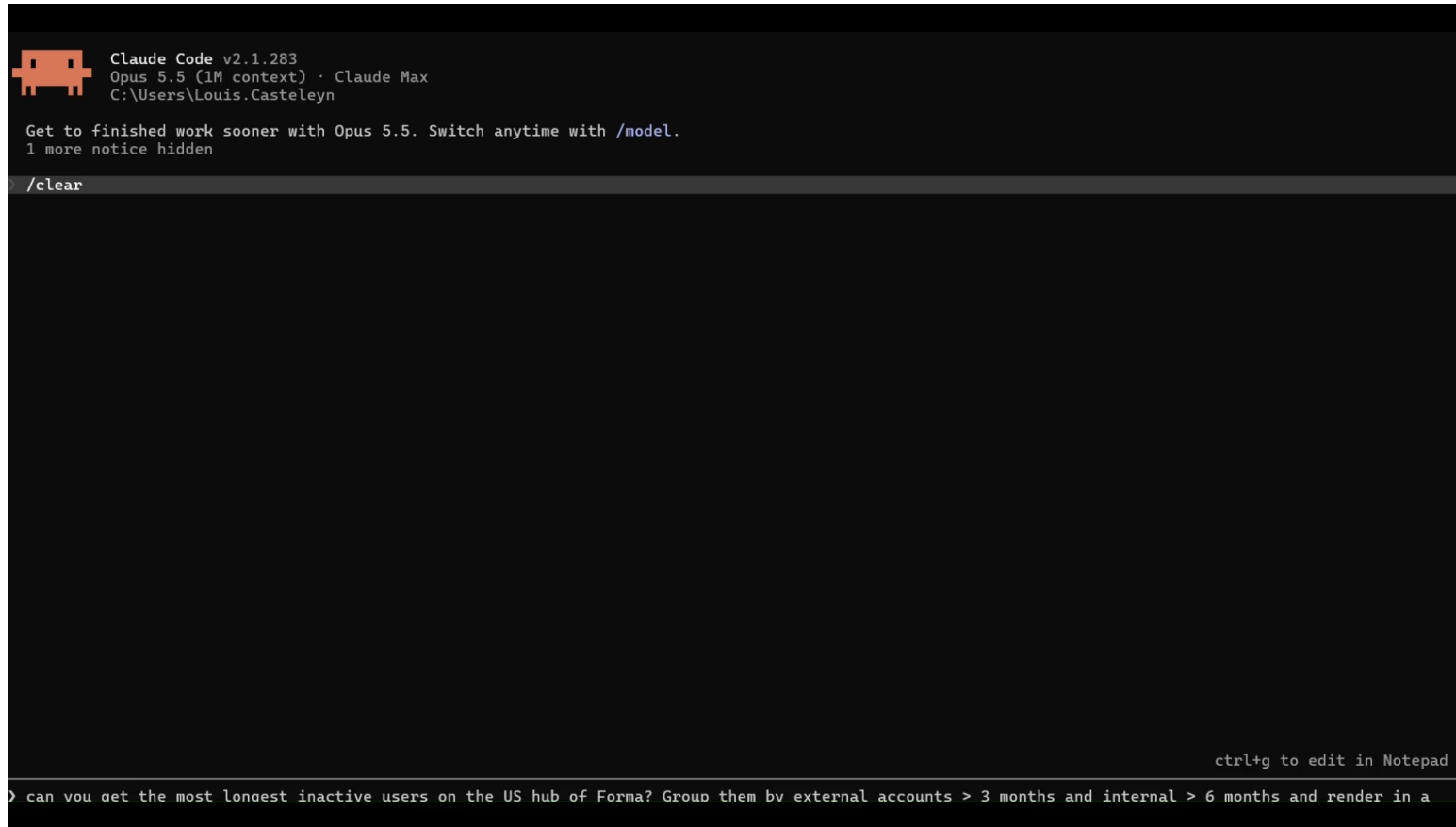
UseCase 1 – Forma MCP – Brussels Airport Company

Policies en dashboarding

"Can you get the longest inactive users on the US hub of Forma? Group them by external accounts > 3 months and internal > 6 months and render in a visual html dashboard in my downloads folder "

UseCase 1 – Forma MCP – Brussels Airport Company

Policies en dashboarding



```
Claude Code v2.1.283
Opus 5.5 (1M context) · Claude Max
C:\Users\Louis.Casteleyn

Get to finished work sooner with Opus 5.5. Switch anytime with /model.
1 more notice hidden

/clear

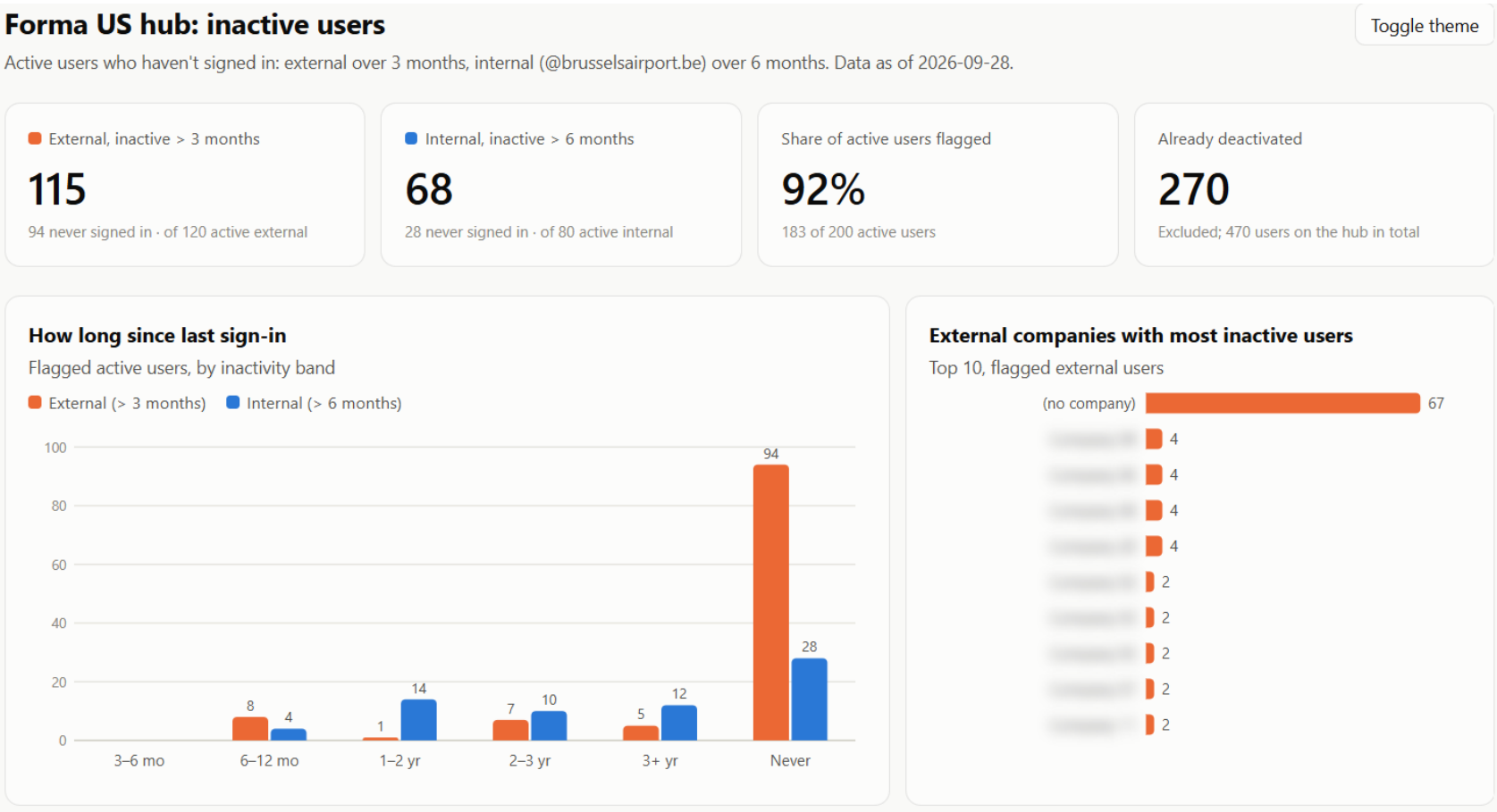
ctrl+g to edit in Notepad

> can you get the most longest inactive users on the US hub of Forma? Group them by external accounts > 3 months and internal > 6 months and render in a
```

UseCase 1 – Forma MCP – Brussels Airport Company

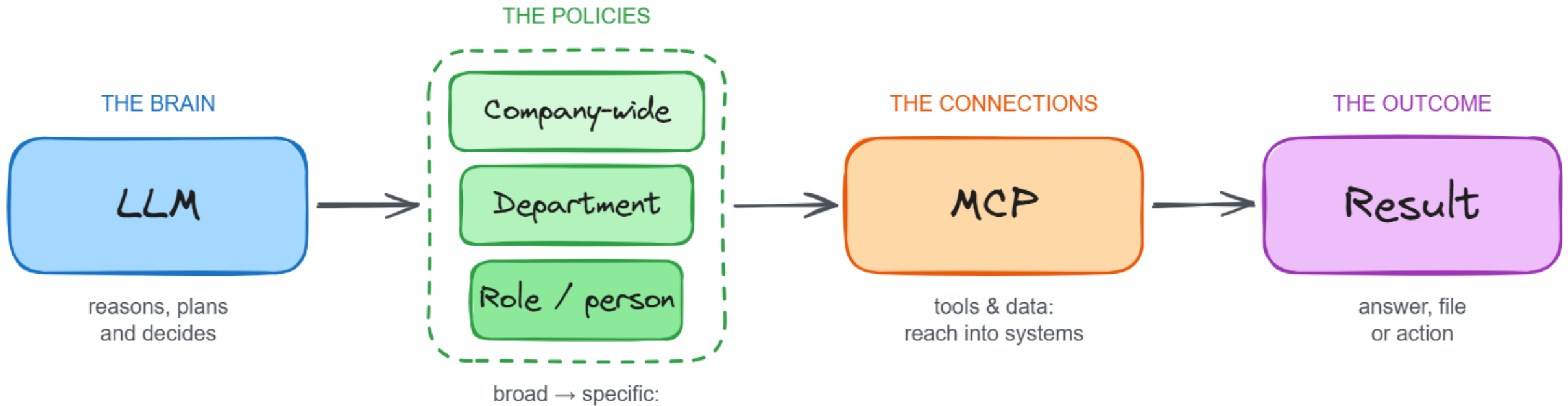
Policies en dashboarding

Forma US Inactive Users



MCP & SKILLS

Future architecture?



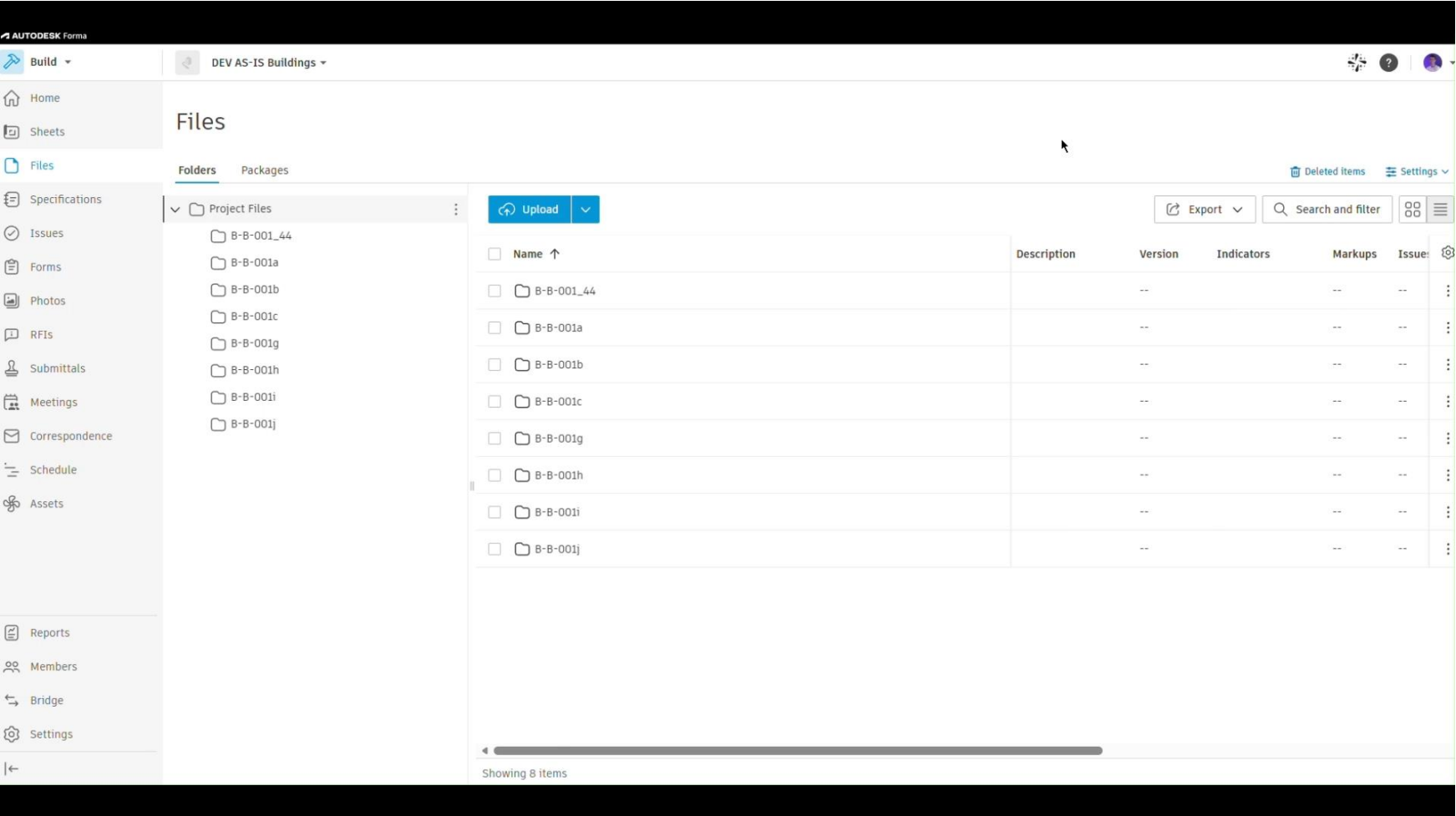
UseCase 1 – Forma MCP – Brussels Airport Company

Bulk operations

"Take this spreadsheet with all our building, make one folder in Forma for every building"

UseCase 1 – Forma MCP – Brussels Airport Company

Bulk operations



UseCase 1 – Forma MCP – Brussels Airport Company

Project set-up automation

"Take this filled in project template and set it up as a new project in Forma"

UseCase 1 – Forma MCP – Brussels Airport Company

Project set-up automation

The screenshot shows a Microsoft Excel spreadsheet titled "I-XXXX_BAC_XXX_X-XXX-XXX_XXX_TE_IFM_000000_FormaProjectConfiguration". The spreadsheet is used for project set-up automation. The interface includes a ribbon with tabs: File, Home, Insert, Share, Page Layout, Formulas, Data, Review, View, Automate, Help, and Draw. A search bar is located at the top right, and a "Share" button is visible. The spreadsheet itself has a grid with columns A through J and rows 1 through 31. The columns are labeled as follows: A: Organisation, B: Name, C: Email, D: Phone number, E: Function, F: Role 1, G: Role 2, H: Role 3, I: Role 4, and J: Role 5. The "Function" column (E) is currently selected, and a small green box is visible in cell E11.

	A	B	C	D	E	F	G	H	I	J
1	Organisation	Name	Email	Phone number	Function	Role 1	Role 2	Role 3	Role 4	Role 5
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

UseCase 1 – Forma MCP – Brussels Airport Company

Project set-up automation

I-XXXX_BAC_XXX_X-XXX-XXX_XXX_TE_IFM_000000_FormaProjectConfiguration															
Search for tools, help, and more (Alt + Q)															
File Home Insert Share Page Layout Formulas Data Review View Automate Help Draw															
C2 Key Reviewer (Name or role)															
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Approval Flows	Initiator	First Review	Optional Reviewer	Minimum # of Key Reviewers	Working Days	Second Review (OPTIONAL)	Optional Reviewer	Minimum # of Key Reviewers	Working Days	Final Review	Working Days	Total Time	OK	Final Rev
2			Key Reviewer (Name or role)				Key Reviewer				Key Reviewer				
3	0. Approval Planning	Everyone	EXT Architect		1	10	BAC Build		1	5	BAC Build	5	20	Approved	Rejected
4	1. Approval Architecture	Everyone	EXT Architect; EXT Study Office Architecture	EXT Control Office	2	10	EXT Control Office		1	10	BAC Build	5	25	Approved	Rejected
5	2. Approval Infrastructure	Everyone	EXT Architect; EXT Study Office Infrastructure	EXT Control Office	2	10	EXT Control Office		1	10	BAC Build	5	25	Approved	Rejected
6	3. Approval Stability	Everyone	EXT Architect; EXT Study Office Stability	EXT Control Office	2	10	EXT Control Office		1	10	BAC Build	5	25	Approved	Rejected
7	4. Approval Technics	Everyone	EXT Architect; EXT Study Office Technics	EXT Control Office	2	10	EXT Control Office		1	10	BAC Build	5	25	Approved	Rejected
8	5. Approval Safety	Everyone	BAC Safety Coordinator OR EXT Safety Coordinator		1	10					BAC Build	5	15	Approved	Rejected
9	6. Approval Financial	Everyone	BAC Build		1	5					BAC Build	5	10	Approved	Rejected
10	7. Approval Tenant	Everyone									EXT Tenant	10	10	Approved	Rejected
11	8. Approval Models	Everyone									BAC BIM Coordiniator	5	5	Approved	Rejected
12	9. Approval BAC CAD Standard Drawings	Everyone									BAC BIM Modeller	5	5	Approved	Rejected
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
32															
33															

UseCase 1 – Forma MCP – Brussels Airport Company

Project intelligence

"What's the latest activity on project X"

> can you give me the latest file activity on the [redacted] project on forma?

Called aps 3 times

- Nobody has changed any files on [redacted] (BAC – EU Hub) in the last 7 days, since 2026-09-21.

I then checked back to 1 June. Since then, only two files have changed, both on 26 Aug 2026 and both uploaded by [redacted]

File	Last modified (UTC)
I.0564_SBA_NVTP_DD_E-Grondplan Steenslag ifv Brandweer - Simulatie.dwg	2026-08-26 07:12
I.0564_SBA_NVTP_DD_E-Grondplan Steenslag ifv Brandweer-Simulatie Crashtender.pdf	2026-08-26 07:12

They're a DWG and its matching PDF of the gravel ground plan for the fire brigade crash-tender simulation. So the project has had no file changes for about a month.

UseCase 1 – Forma MCP – Brussels Airport Company

Other prompts

BUSINESS REQUEST

An intern comes to support a Project Manager



PROMPT TO THE FORMA MCP

"Can you add User X to the same projects and with the same rights as User Y?"

A subcontractor leaves the project



"Delete all users from company X from project Y."

Is the As-Built complete?



"Cross-check this Excel file with the files on Forma in the execution folder."

UseCase 1 – Forma MCP – Brussels Airport Company

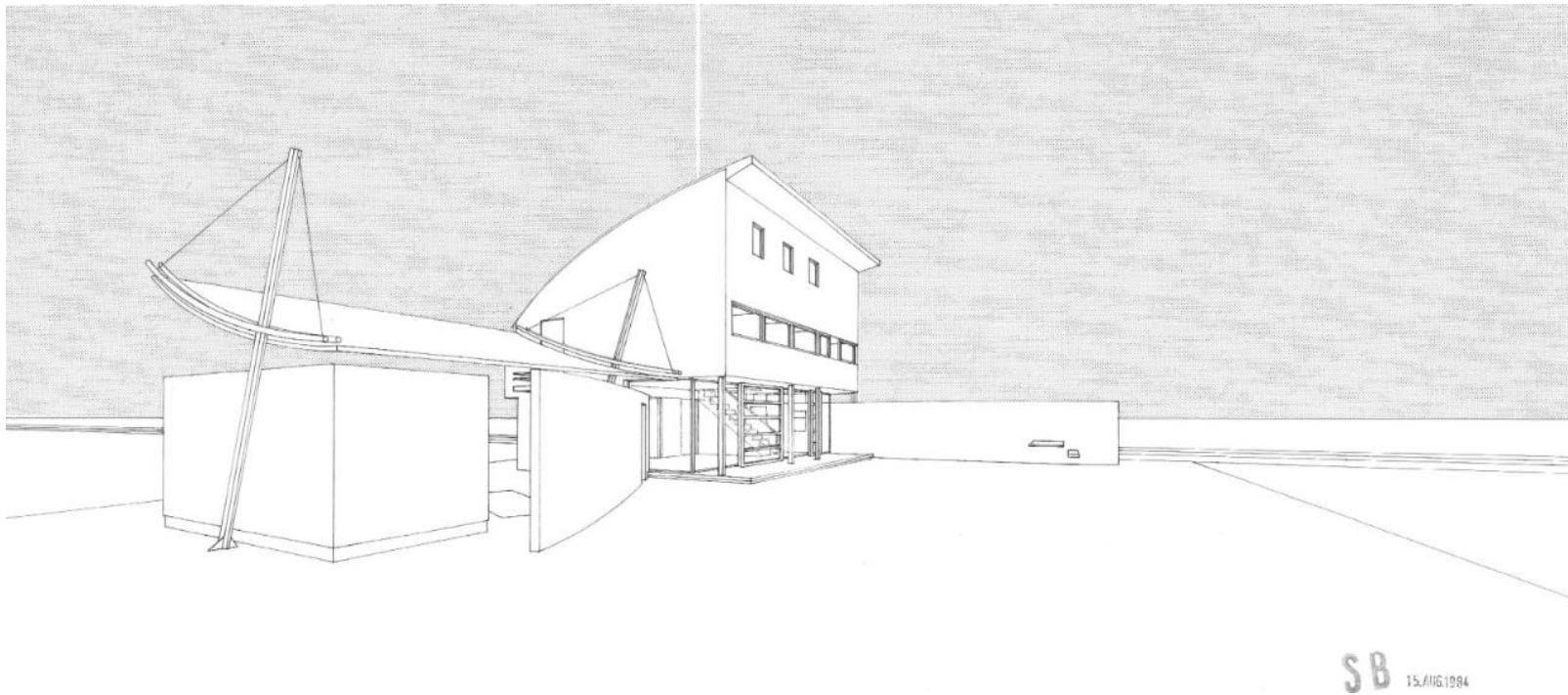
Wat zou jij prompten?

“Typ hier je prompt...” |



UseCase 2 – Compliance checking using AI

**AI system that understands design
understands project definitions and building code
understands our BIM Models**



What architects do

Design is complex

- Design what the client wants
 - Brief, budget, ambitions
- What the architect wants...
 - Concept, quality, experience
- What the government wants
 - Planning, regulations, permits
- What the fire department wants
 - Safety, evacuation
- Building code
 - H&S, accessibility

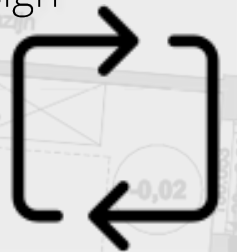
Question the design

- Does it fit?
- Does it comply?
- Does it meet ambitions?
- Does it include everything?
- Can it be built?
- Is it permissible?
- How's the budget?



Iterative proces

- The more you question the design
- The better it gets

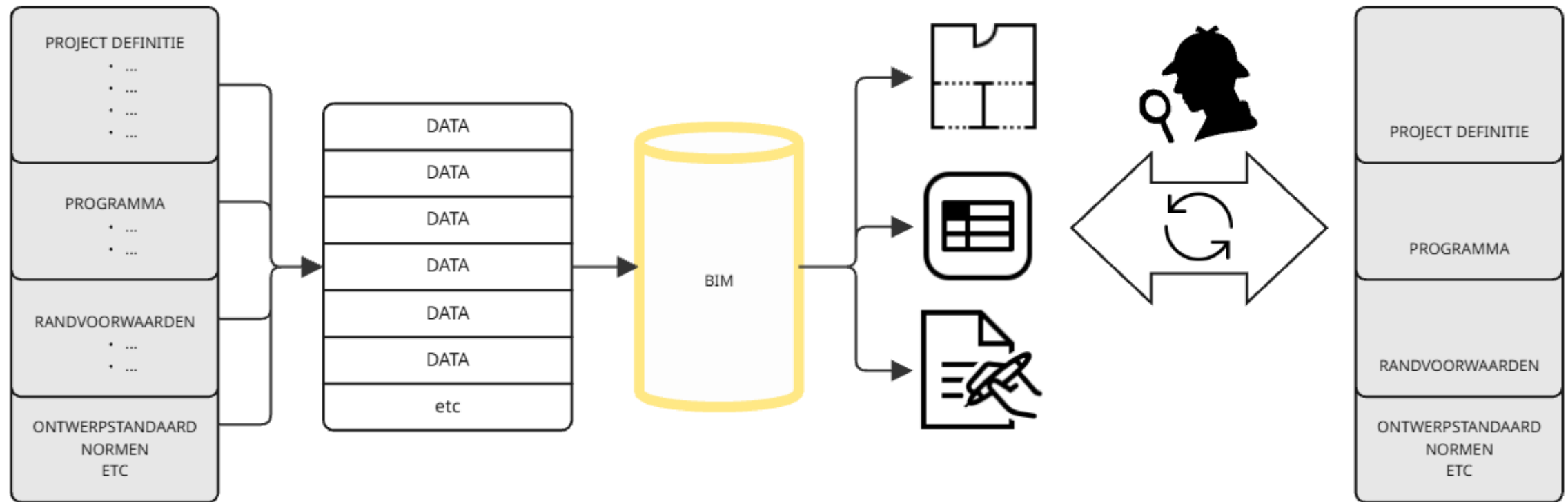


How we do it – traditional BIM

Read the brief, know the rules.

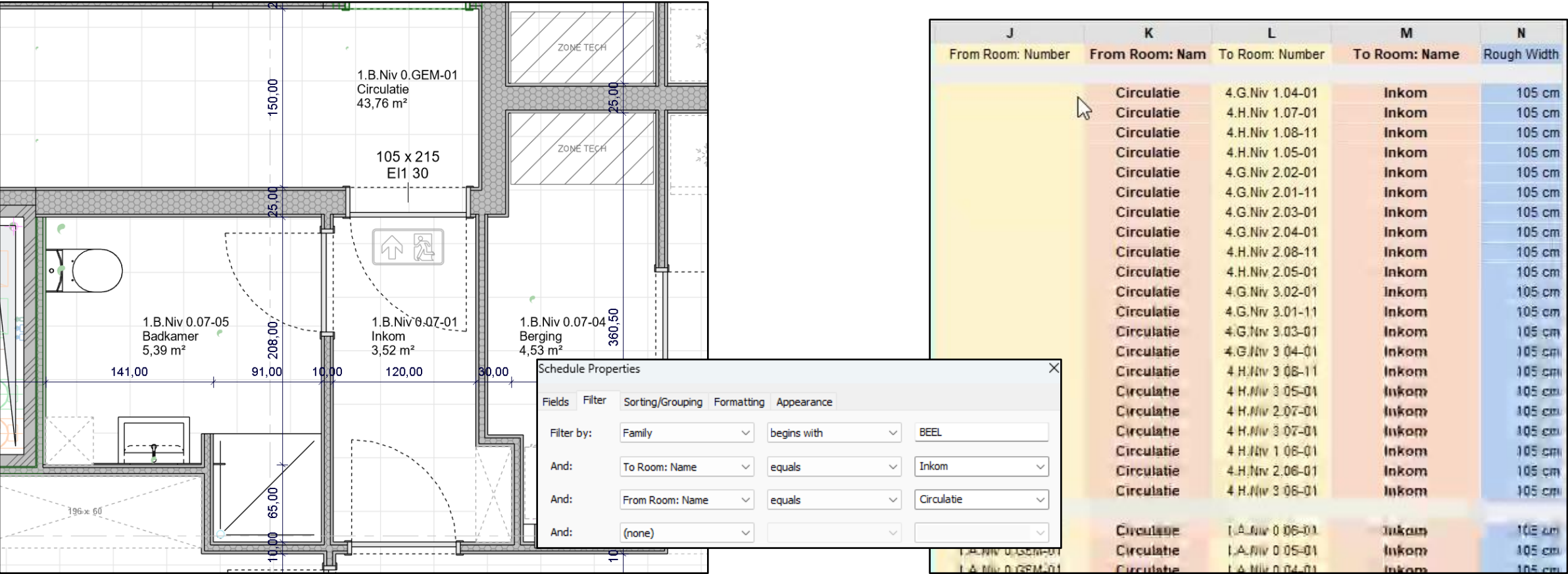
Take the data we think we need – put in the model.

Exports from the model and compare them with the original information



Compliance checking – as usual

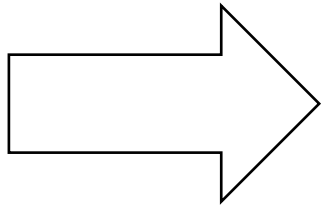
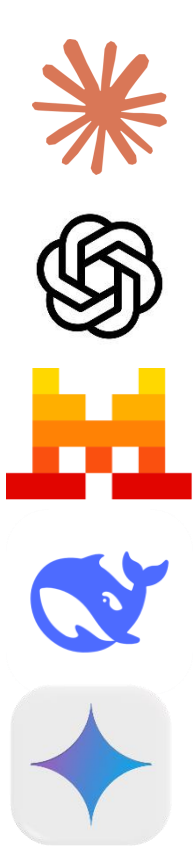
A simple example. All entrance doors should be 105 cm wide (rough width)



Design the plan, name all the rooms, dimension the door or put a tag on it. Or we make a list – either way, we check the plan or we check the list

Compliance checking – in “AI”

A simple example. All entrance doors should be 105 cm wide (rough width)



Check in the current model all entrance doors. The rule is their width should be at least 105cm Rough Width. Report any non-compliant.

Check all entrance doors in the current model.
The rule is they should be at least 105 cm rough width.
Report any non-compliant doors.

... Thinking

Write a message...



Opus 5.5 Medium



- Fast
- Non technical
- Reliable
- Repeatable
- No human errors

Compliance checking – in “AI”

What’s the big deal, where is the magic?

What just happened?

- The AI translates all entrance doors to relevant objects
 - Looks for doors
 - Looks for rooms
 - Filters all relevant rooms
 - Retrieves the correct doors
 - Reports in a human readable way.
- AI understands *human language* and *BIM language*

WHY?

WE LEARNED THE AI HOW TO DO THAT

Check in the current model all entrance doors. The rule is their width should be at least 105cm Rough Width.
Report any non-compliant.

Compliance check — entrance doors $\geq$ 105 cm Rough Width

Apartment front doors (81 total, marked "Inkom Appartement"):  all compliant. Every one uses type `BEEL_32.3_(1) (Enk-Dr) (105-215)`, Rough Width = 105 cm exactly. No exceptions across blocks 1.A, 1.B, and 2.C in this Fase 1 model.

Building/shared entrances:

- "Inkom b" main entry (Mark 680): 105 cm —  compliant.
- Crèche entrance — 2 non-compliant doors:

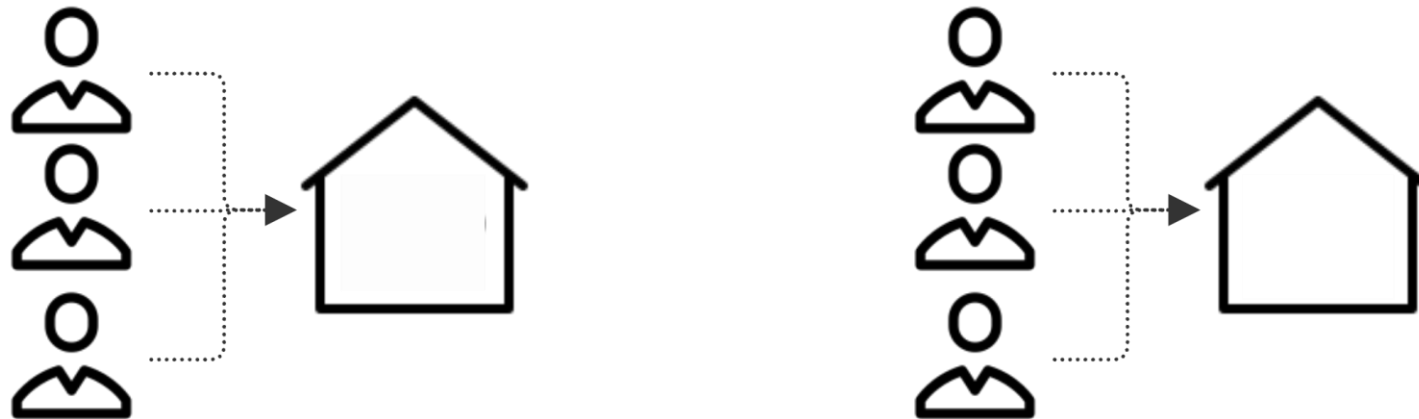
Element ID	Mark	Type	Rough Width	Status
7334282	724	<code>BEEL_32.3_(1) (Enk-Dr) (90-215)</code> <code>casco indicatief</code>	90 cm	 15 cm short
6808175	690	<code>BEEL_32.3_(1) (Enk-Dr) (90-215)</code> <code>casco indicatief</code>	90 cm	 15 cm short

Compliance checking – complex rules example

Another example, the rule:

Bathrooms without toilet are $2 \text{ m}^2 + 0,5 \text{ m}^2$ per person living in the unit.

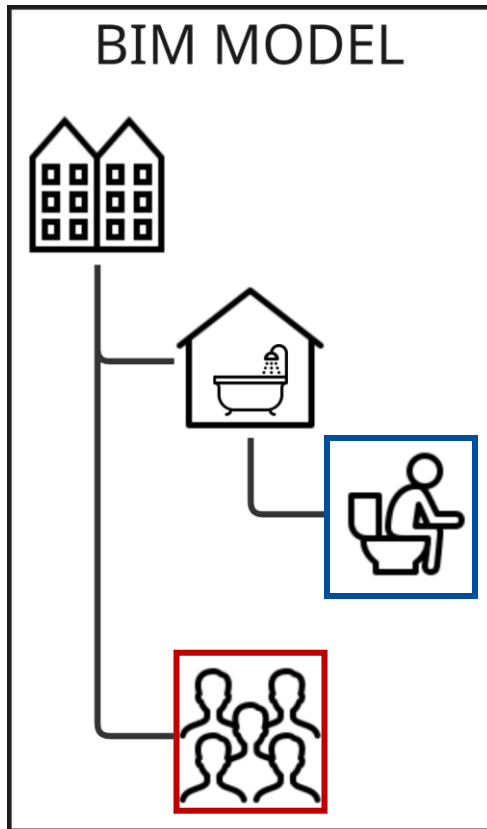
Bathrooms with toilet are $3 \text{ m}^2 + 0,5 \text{ m}^2$ per person



SPOILER
BIM CAN'T DO THAT

Compliance checking – complex rules example

BIM CAN'T DO THAT

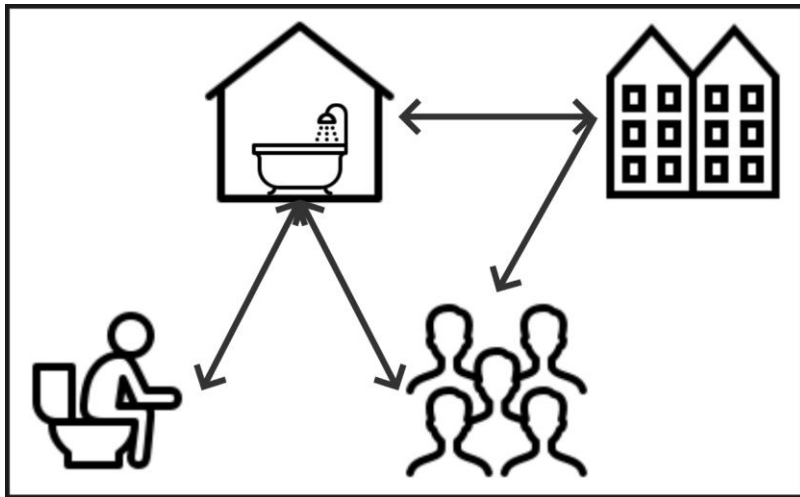


Hierarchy in BIM-models

- ❖ The toilet knows it's in the room
- ❖ The unit knows how many people it's for (occupancy parameter)
- ❖ The room does not know in which unit it is
- ❖ It doesn't know how many people live in the appartement.

Compliance checking – complex rules example

Smarter project process

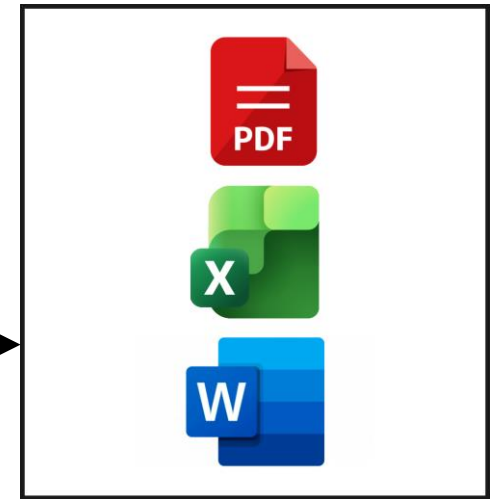


Hierarchy in BIM-models

- ❖ BIM-models are object based
- ❖ Store relevant data into relevant objects / elements
- ❖ Interconnect BIM elements

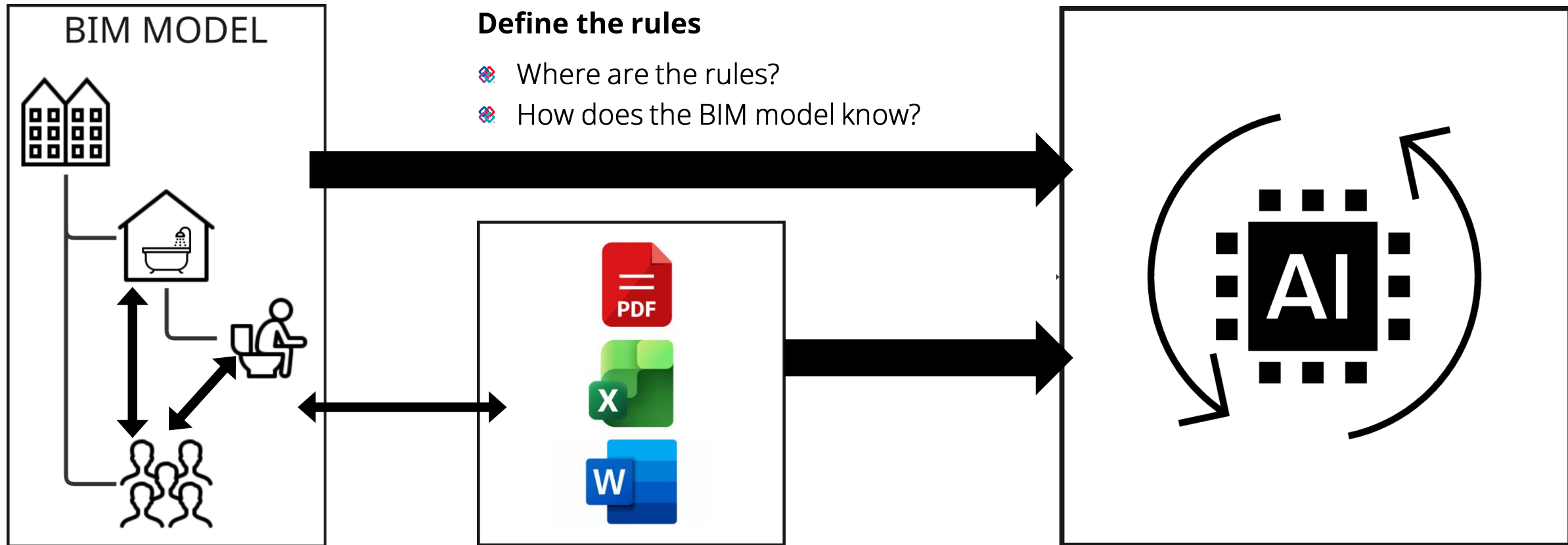
Elements need to talk to other elements

- ❖ In the BIM model, one element to another
- ❖ Outside of the BIM model
 - where do you store the rules?



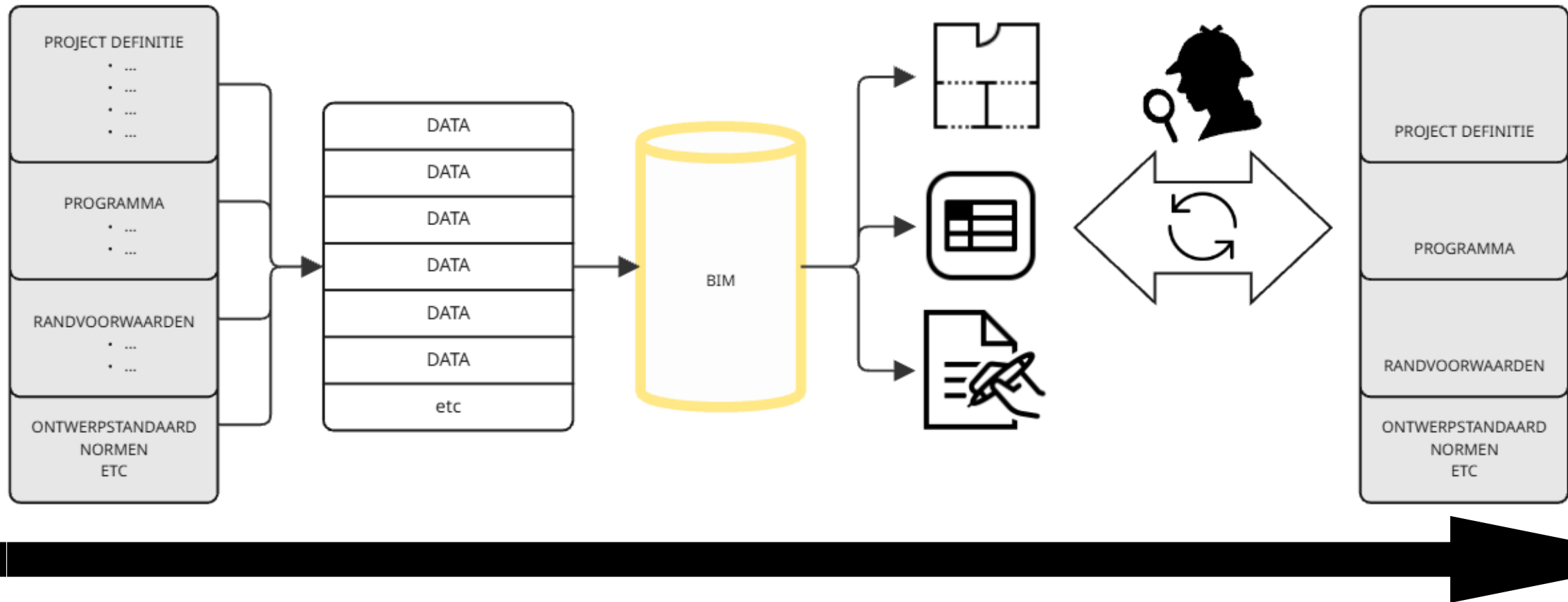
Compliance checking – complex rules example

AI project to link all the data together



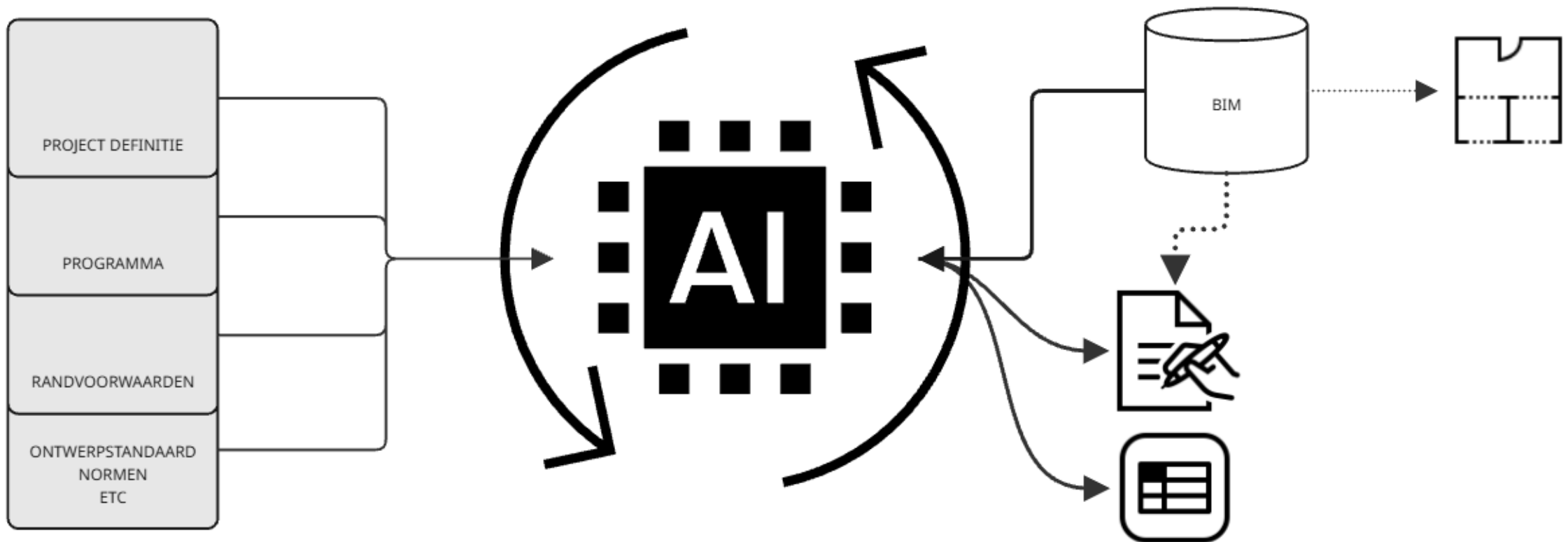
Compliance checking – complex rules example

Break the linear approach of a traditional BIM process



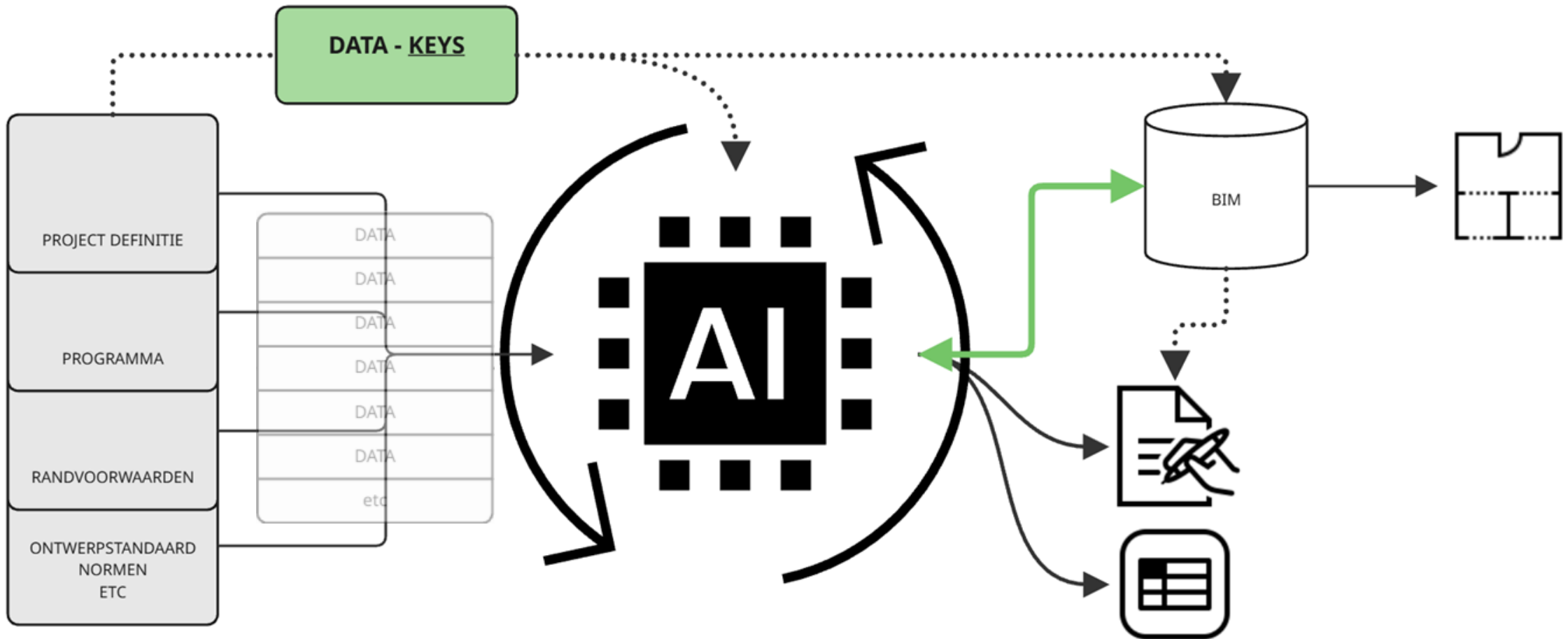
Compliance checking – complex rules example

A more agile approach with AI as the brain that informs



Compliance checking – complex rules example

Use of a “key” to link the data in the project & the BIM model together



Instead of putting a lot of data in the BIM-model we find keys (identifiers) from the project definition and put only that in the BIM-model

Compliance checking – complex rules example

Check the area's for all bathrooms in building 1 - ground floor only.



In blue is what you put in the model
To the right is what the AI knows

Appartement	Personen	Toilet in badkamer	Toepasselijke regel	Norm	Opp.	Marge	Status
1.A.Niv 0.01	4	Ja	3 + 0,5 × personen	5.00 m ²	6.23 m ²	+1.23	✓
1.A.Niv 0.02	3	Nee	2 + 0,5 × personen	3.50 m ²	4.62 m ²	+1.12	✓
1.A.Niv 0.03	2	Nee	2 + 0,5 × personen	3.00 m ²	5.44 m ²	+2.44	✓
1.A.Niv 0.04	2	Nee	2 + 0,5 × personen	3.00 m ²	5.44 m ²	+2.44	✓
1.A.Niv 0.05	2	Nee	2 + 0,5 × personen	3.00 m ²	5.44 m ²	+2.44	✓
1.A.Niv 0.06	2	Ja	3 + 0,5 × personen	4.00 m ²	5.99 m ²	+1.99	✓
1.B.Niv 0.07	2	Ja	3 + 0,5 × personen	4.00 m ²	5.39 m ²	+1.39	✓
1.B.Niv 0.08	2	Nee	2 + 0,5 × personen	3.00 m ²	5.31 m ²	+2.31	✓

Compliance checking – complex rules example

Check the area's for all bathrooms in building 1 - ground floor only.

What just happened?

- It knows which appartement the bathroom is in
- It knows how many people are in the appartement
- Knows if the bathrooms has a toilet
- The AI knows which rules to apply to this project
- It knows how big the bathroom should be
- It knows how big the bathroom is in the model
- It tells us if it is compliant or not

HOW?

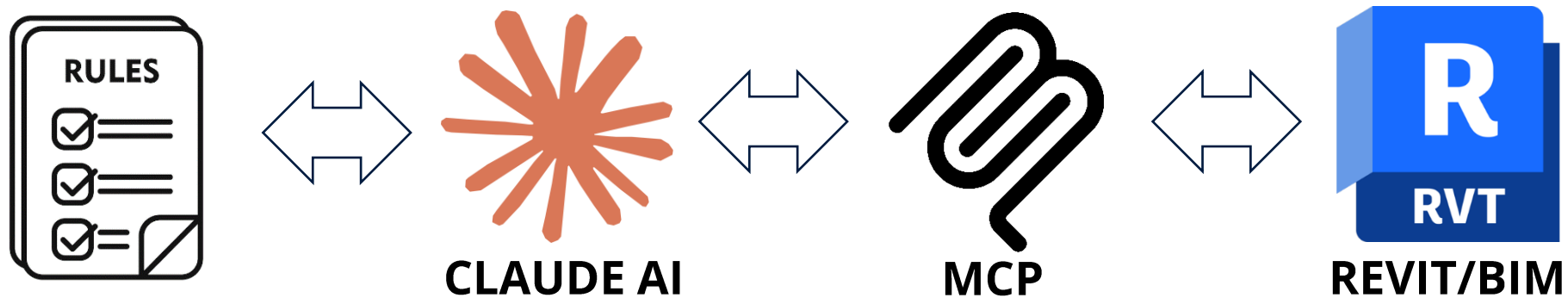
WE LEARNED THE AI HOW TO DO THAT

Appartement	Personen	Toilet in badkamer	Toepasselijke regel	Norm	Opp.	Marge	Status
1.A.Niv 0.01	4	Ja	3 + 0,5 × personen	5.00 m ²	6.23 m ²	+1.23	✓
1.A.Niv 0.02	3	Nee	2 + 0,5 × personen	3.50 m ²	4.62 m ²	+1.12	✓
1.A.Niv 0.03	2	Nee	2 + 0,5 × personen	3.00 m ²	5.44 m ²	+2.44	✓
1.A.Niv 0.04	2	Nee	2 + 0,5 × personen	3.00 m ²	5.44 m ²	+2.44	✓
1.A.Niv 0.05	2	Nee	2 + 0,5 × personen	3.00 m ²	5.44 m ²	+2.44	✓
1.A.Niv 0.06	2	Ja	3 + 0,5 × personen	4.00 m ²	5.99 m ²	+1.99	✓
1.B.Niv 0.07	2	Ja	3 + 0,5 × personen	4.00 m ²	5.39 m ²	+1.39	✓
1.B.Niv 0.08	2	Nee	2 + 0,5 × personen	3.00 m ²	5.31 m ²	+2.31	✓

How does this work

Claude projects, Revit MCP & revit routes

- Rules are inside a Claude project
- Claude works within the project
 - skills, instructions and a memory
- Claude reads the BIM model through a MCP (Model Context Protocol)
- Claude answers



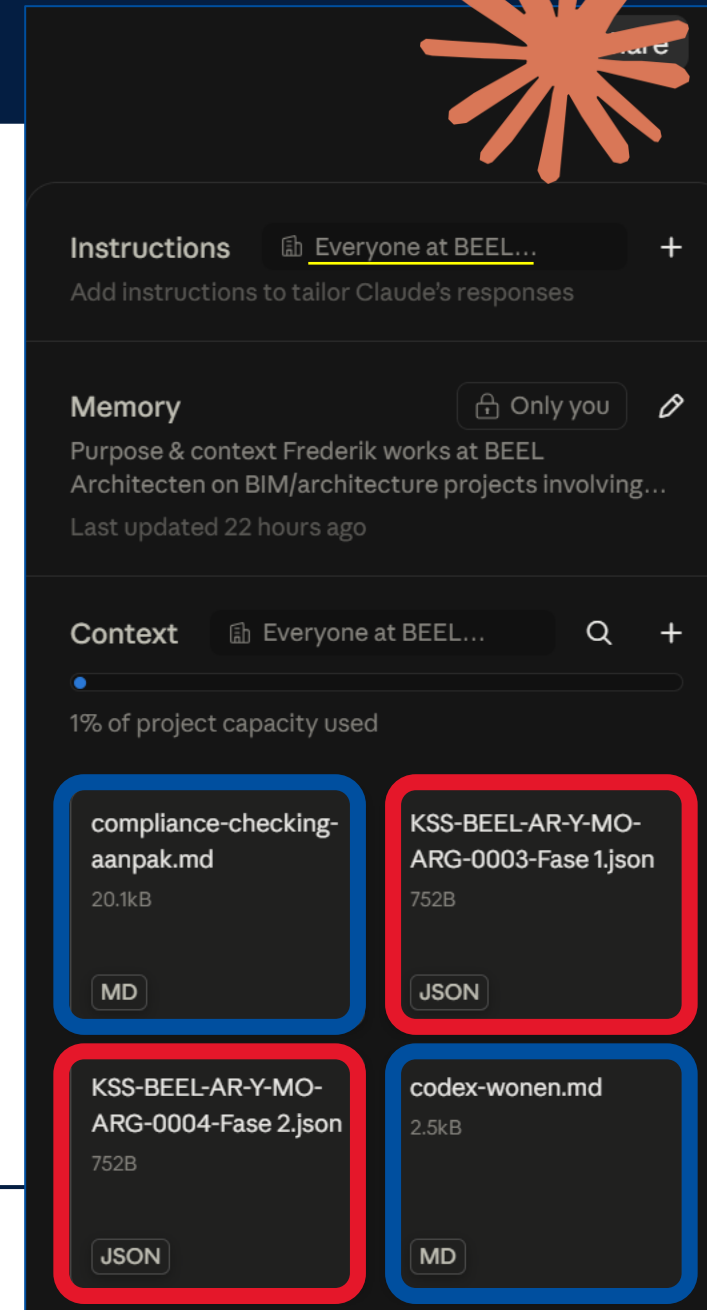
Claude projects

Defines the framework in which to operate

- Rules are inside a Claude project
 - Can be text, code, or anything readable.
 - Tells the AI what to expect

- Tells the AI how the BIM model works

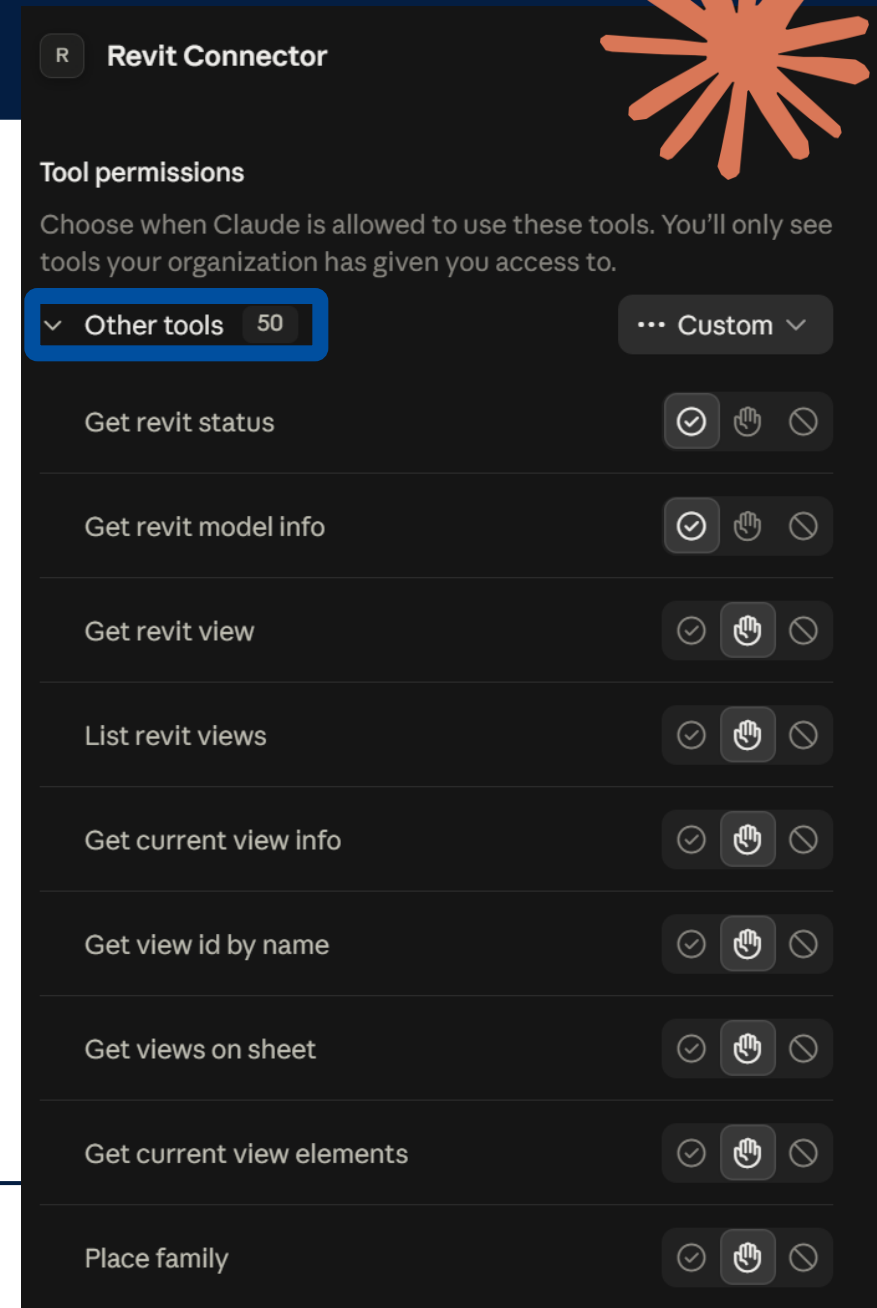
- Claude projects & chats are shared within the company



Claude MCP & Revit routes

Bridge between AI & Revit

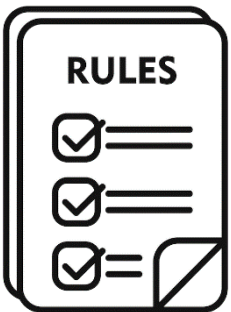
- Actual code
 - Commands that are send to Revit.
 - Standardizes the input and output (to and from Revit)
- You ask Claude a question
- Claude selects a tool and sends it to Revit
- Revit receives the question and translates it to it's own code (Revit API)
- Revit returns the data through the route
- Claude gets the answer and combines it with knowledge of the project



AI layer

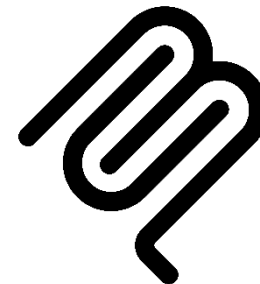
The AI retrieves data – it is not ‘smart’

- ❖ Rules are defined apart from the BIM model
 - ❖ Define the rules you need
 - ❖ Tell the AI where to find the answer.
-
- ❖ AI operates within the project according to instructions



SSOT

- ❖ BIM model is the source
 - ❖ Data is requested through standardized tools & API calls
 - ❖ Return is structured (JSON/REST) – it's not text
-
- ❖ AI does not generate data



The rules

LOKAALFICHE Theorielokaal groot PC			
Kenmerken			
Lokaalcode (generiek)	02.04 (02.04.01, 02.04.02 , 02.04.03)	Opmerking	Deze code dient overeen te komen met de gebruikte nummering 1, 2, 3 , de clustering volgens hoofdstuk 1 'clusters en ruimten' in de systeemfiche.
Lokaalnaam (generiek)	Theorielokaal pc		
Aantal	1 in cluster A, cluster B en cluster C: Totaal: 3 lokalen		
Capaciteit [# personen]	25 leerlingen + 1 leerkracht	Opmerking	Evacuatie te voorzien voor 26 personen.

7. Inrichting vast				
72.26.02	Interactieve touchscreen	Naast dubbel schoolbord te plaatsen.	1	Verplicht
72.27	Dubbel schoolbord	Naast interactieve touchscreen te plaatsen.	1	Verplicht
76.03.06	Kapstok (leerkracht)	Aan de wand te bevestigen.	1	Verplicht
76.03.07	Kapstok in het lokaal	Aan de wand te bevestigen.	1	Verplicht
76.02.29	Ingebouwde wandkast	Aan de wand te bevestigen.	1	Verplicht

```
[
  {
    "code": "01.01\n(01.01.01, 01.01.02, 01.01.03, 01.01.04)",
    "naam": "Cluster A: Verhard overdekt speelplein\nCluster B: Verhard overdekt speelplein",
  }
]
```

```
d overdekt speelplein.docx",
"
```

```
"01.01\n(01.01.01, 01.01.02, 01.01.03, 01.01.04)",  
"Cluster A: Verhard overdekt speelplein\nCluster B: Ve  
kt speelplein",
```

```
rd",
m2\n(verdeeld over 4 clusters ifv het ontwerp)",
en graag op verschillende niveau buitenruimtes creëren
en de dienst vergunningen van Stad Antwerpen aangeeft d
onkere hoek' (zie schema in referenties) van de site ee
eltelijk verhard en gedeeltelijk groen. Het overdekt sp
bouw. \n\nDe buitenruimte moet een sfeer creëren van ru
s deze ook onderling verbonden zijn met een trap.\n\nDe
ing hebben met de straat om te evacueren. Het is echter
steek naar het naastliggende gebouw is wel mogelijk.",
": "De Inschrijver vult hier de unieke lokaalnummers i
ken, dit dient echter bij de verdere uitwerking te word
```

```
buitentoepassing",
```

ing die in een buitenomgeving wordt toegepast, dient voor
en kunnen worden gevormd."



Relevant information is put in the revit model - the keys that will match with the program.

GENERIC TOOLS – VARIABLE RULES

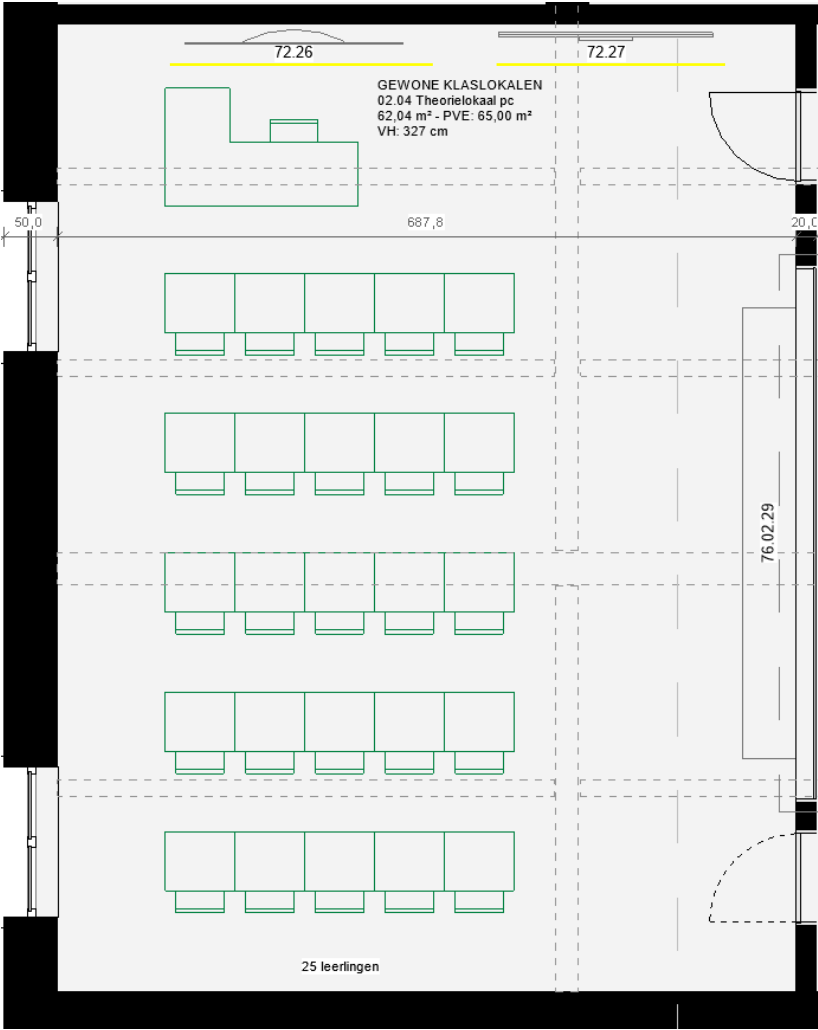
You still need to build a BIM-model

DATA - KEYS

LOKAALFICHE Theorielokaal groot PC			
Kenmerken			
Lokaalcode (generiek)	02.04 (02.04.01, 02.04.02, 02.04.03)	Opmerking	Deze code dient overeen te komen met de gebruikte nummering i.f.v. de clustering volgens hoofdstuk 1 'clusters en ruimten' in de systeemfiche.
Lokaalnaam (generiek)	Theorielokaal pc		
Aantal	1 in cluster A, cluster B en cluster C: Totaal: 3 lokalen		
Capaciteit [# personen]	25 leerlingen + 1 leerkracht	Opmerking	Evacuatie te voorzien voor 26 personen.

7. Inrichting vast				
72.26.02	Interactieve touchscreen	Naast dubbel schoolbord te plaatsen.	1	Verplicht
72.27	Dubbel schoolbord	Naast interactieve touchscreen te plaatsen.	1	Verplicht
76.03.06	Kapstok (leerkracht)	Aan de wand te bevestigen.	1	Verplicht
76.03.07	Kapstok in het lokaal	Aan de wand te bevestigen.	1	Verplicht
76.02.29	Ingebouwde wandkast	Aan de wand te bevestigen.	1	Verplicht

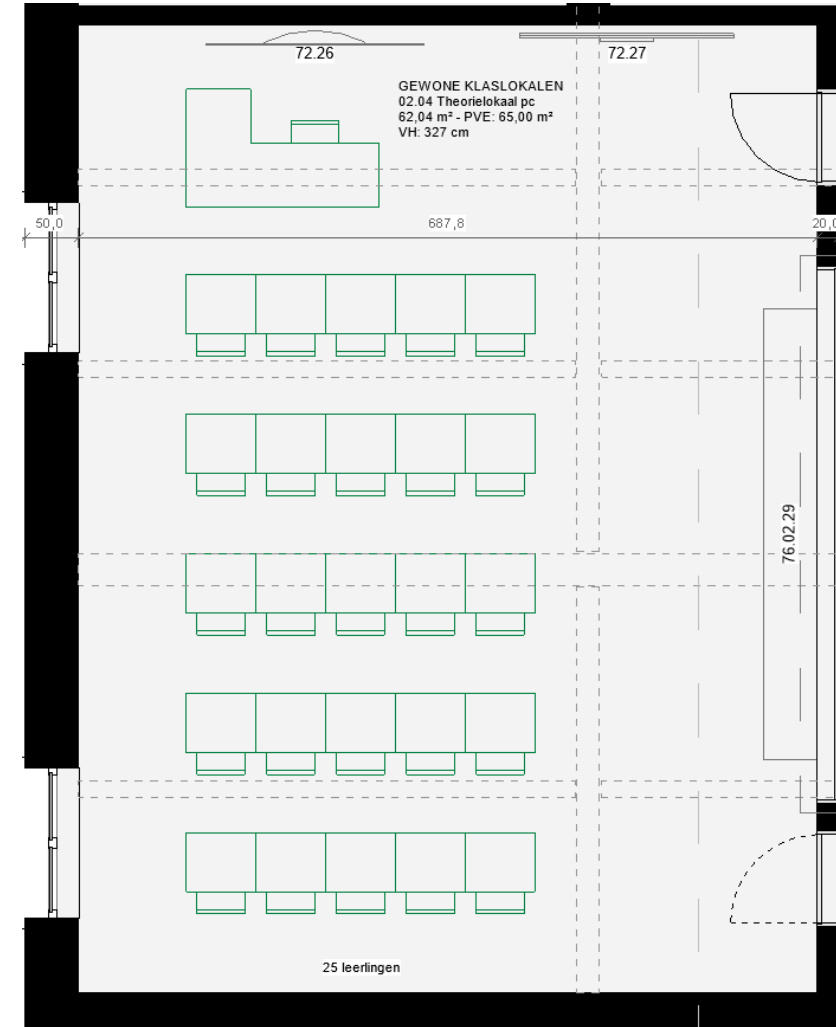
Smart BIM-models – smart AI



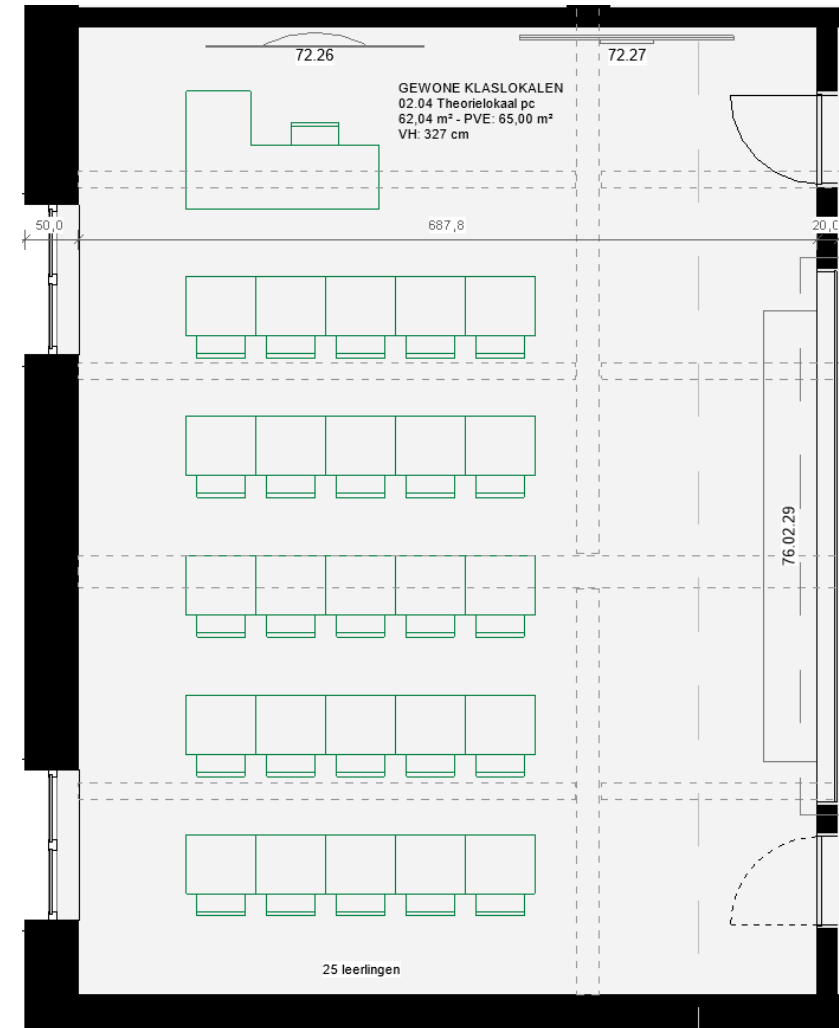
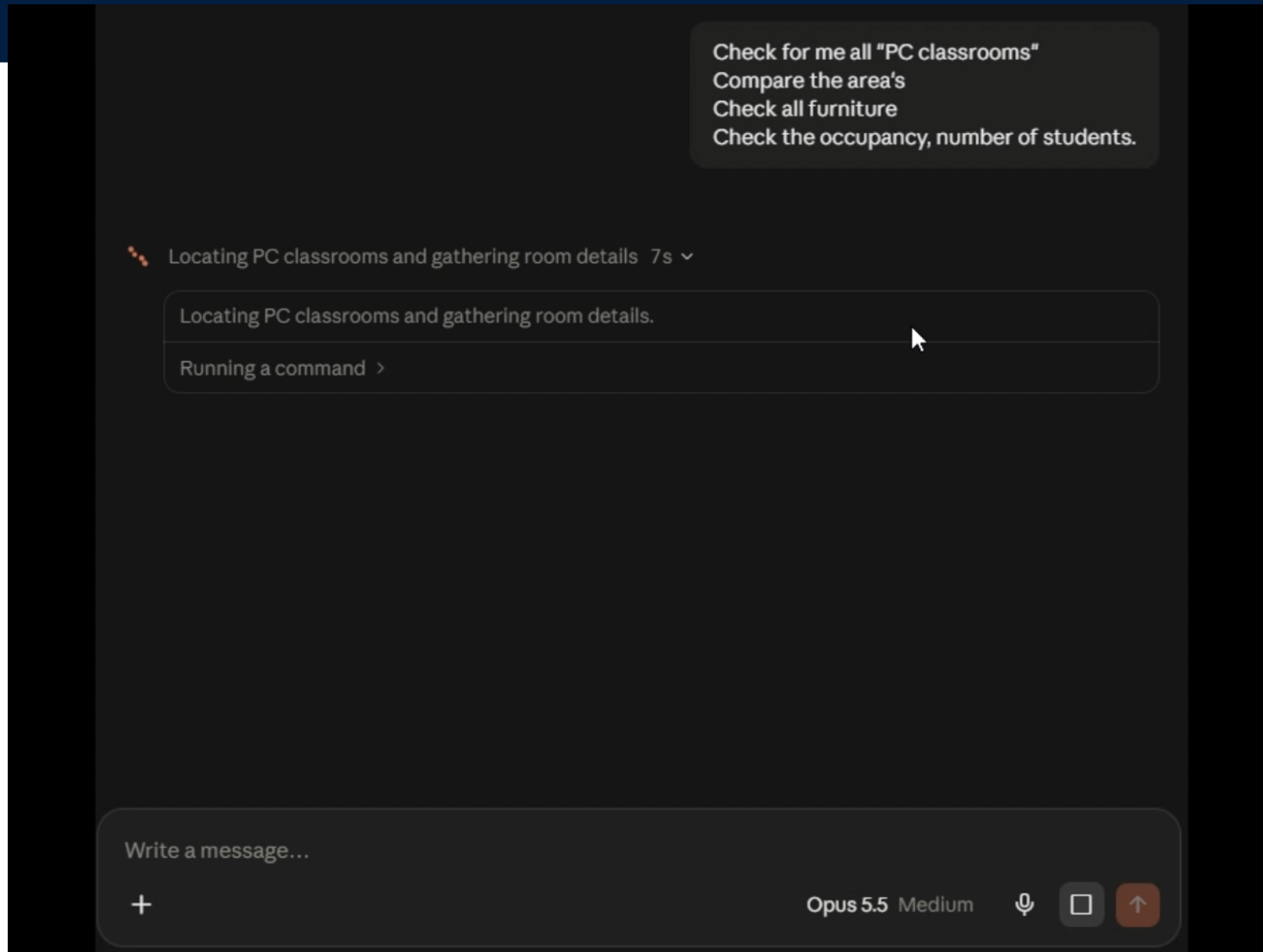
GENERIC TOOLS – VARIABLE RULES

The question

Tell me Theorielokaal PC.
Do we have the correct number of students in each
classroom?
Is all the furniture placed?



GENERIC TOOLS – VARIABLE RULES

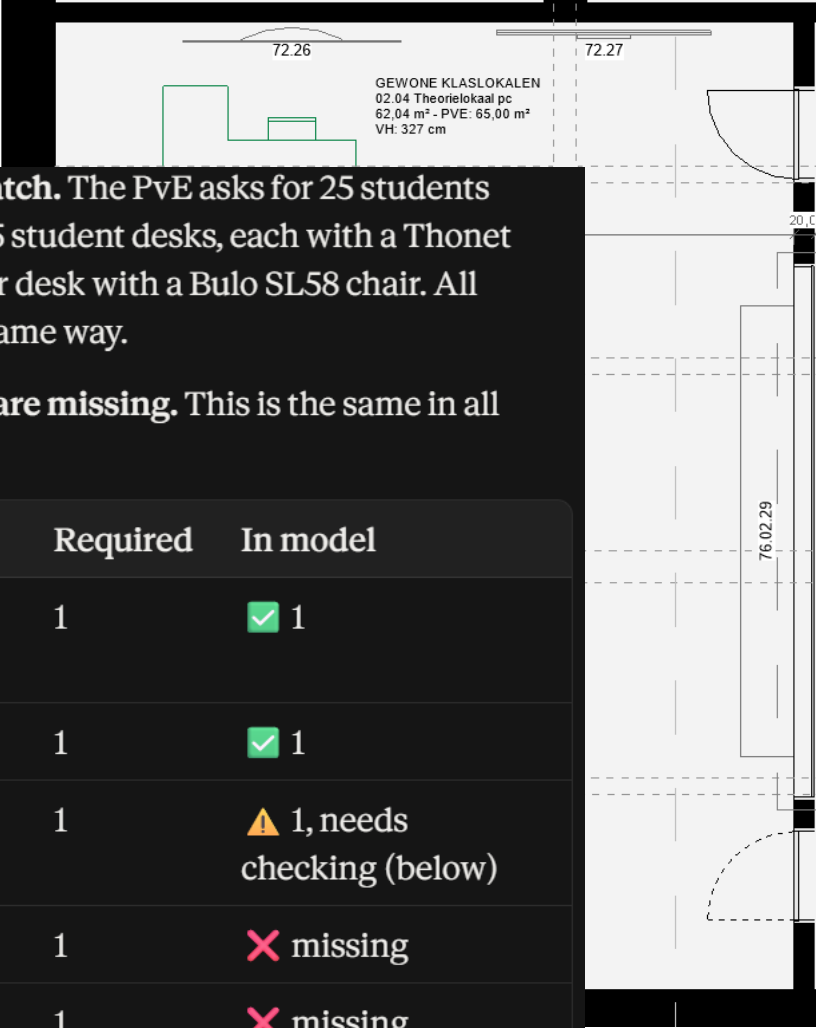


GENERIC TOOLS – VARIABLE RULES

The answers

Your model has all three Theorielokaal pc rooms, one per cluster as the PvE requires (fiche 02.04). Each is 62.04 m², below the 65 m² target.

Room	Level	Area
A16	110	62.04 m ²
A26	120	62.04 m ²
A35	130	62.04 m ²



Students: yes, the numbers match. The PvE asks for 25 students plus 1 teacher. Each room has 25 student desks, each with a Thonet chair, plus one L-shaped teacher desk with a Bulo SL58 chair. All three rooms are furnished the same way.

Furniture: two required items are missing. This is the same in all three rooms:

PvE item	Required	In model
72.26.02 Interactive touchscreen 86"	1	✓ 1
72.27 Double school board	1	✓ 1
76.02.29 Built-in wall cabinet	1	⚠ 1, needs checking (below)
76.03.06 Coat rack (teacher)	1	✗ missing
76.03.07 Coat rack (students, one hook each)	1	✗ missing

AI model's capabilities

FAST – ACCURATE - REPEATABLE

- Not only text, not a blackbox
- It can also return spreadsheets, dashboards etc

Netto oppervlaktes (meetellend) vs AGION-oppervlaktes (gewogen) 21/09/20							
Bouwlaag	Lokaalcode	Ruimte	Categorie	Meetellen	Oppervlakte (m²)	Gewenste opp. (m²)	AGION gewogen (m²)
kelder							371,55
	-	ALSB en data lokaal	Technisch	Nee	10,98	n.v.t.	
	10.02	Berging - OLC	Programma	Ja	42,40	48,00	
	10.05	Berging - kelder	Programma	Ja	220,27	200,00	
	10.04	Berging - onderhoudslokaal	Programma	Ja	17,30	16,00	
	13.01	Gangen	Circulatie	Nee	10,34	n.v.t.	
	14.01	HVAC - lokaal	Technisch	Nee	8,13	90,00	
	10.03	Onderhoudslokaal	Programma	Ja	11,73	10,00	
	09.04	Sanitair douches	Programma	Ja	19,59	16,00	
	14.02	Tellerlokaal	Technisch	Nee	15,00	11,50	
	-	Traphal	Circulatie	Nee	6,53	n.v.t.	
	-	Traphal	Circulatie	Nee	6,53	n.v.t.	
	-	Traphal	Circulatie	Nee	13,63	n.v.t.	
	-	niet genormeerde buitenruimte	Buitenruimte	Nee	74,39	n.v.t.	



UseCase 3 – AI Data Agent – Spation

Spation – wie zijn wij

Spation is een startup die AI-gedreven applicaties ontwikkelt voor de AEC- en BIM-sector.

We bouwen tools die we als BIMmers zelf misten.



Revit add-ins

Werken direct in het model. C# en .NET, native in de Revit-interface.



AI-agents

Classificatie en parametermanagement automatiseren met taalmodellen.



openBIM

IFC, IDS, bSDD en NL-SfB als kader, zodat data uitwisselbaar blijft.

UseCase 3 – AI Data Agent – Spation

Probleemstelling: het model is klaar, de informatie nog niet

Standaarden als de BIM basis ILS en de ILS O&E worden contractueel afgesproken, maar het invullen is tijdrovend. **Daardoor gebeurt het vaak niet.**

01

Lege modellen

Parameters blijven leeg; de informatie staat alleen in losse documentatie.

02

Inconsistent

Als het wel gebeurt, noteert iedereen waarden net iets anders.

03

Niet herleidbaar

Achteraf weet niemand meer uit welke bron een waarde komt.

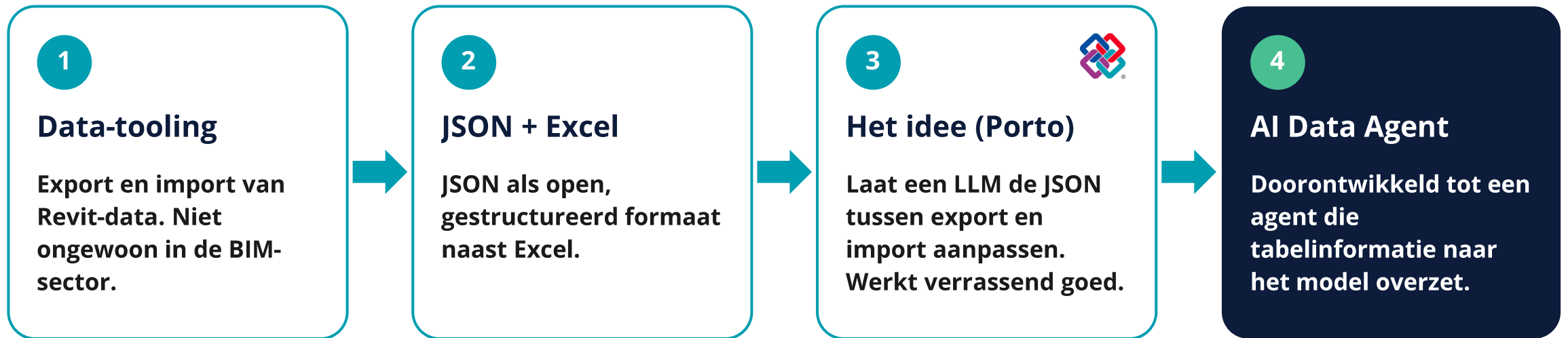
04

Andere partij

Engineerende partijen verwerken de data, vaak voor de uitvoerende partij.

UseCase 3 – AI Data Agent – Spation

Hoe het begon: van data-tooling naar AI Data Agent



De kern: tabeldata hoeft niet geclassificeerd te zijn. De agent importeert ongeclassificeerde data in Revit.

UseCase 3 – AI Data Agent – Spation

Het principe: eerst classificeren, dan overhalen

1

Classificeren

2

Overhalen

✓

Klaar voor review

TABEL · ONGECLASSIFICEERD

Product	Brandw.	Rw	Gewicht
Glazen entreedeur	-	30 dB	45 kg
Binnendeur brandwerend	EI1 30	32 dB	38 kg
Schachtdeur staal	EI1 60	-	24 kg

Elke tabel: Excel, PDF, tekst of afbeelding

AI

Data Agent

BIM-MODEL · ELEMENTEN

Deur 01

Brandwerende binnendeur

Brandwerendheid

Rw

Gewicht

Deur 14

Schachtdeur

Brandwerendheid

Rw

Gewicht

Deur 22

Entreedeur glas

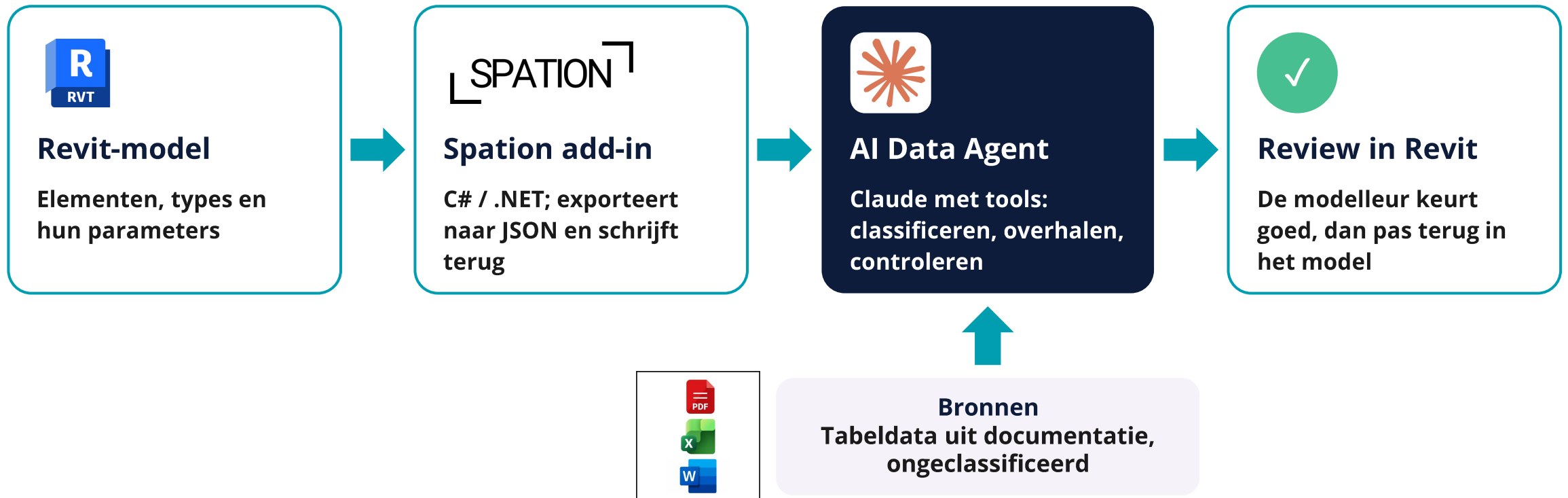
Brandwerendheid

Rw

Gewicht

UseCase 3 – AI Data Agent – Spation

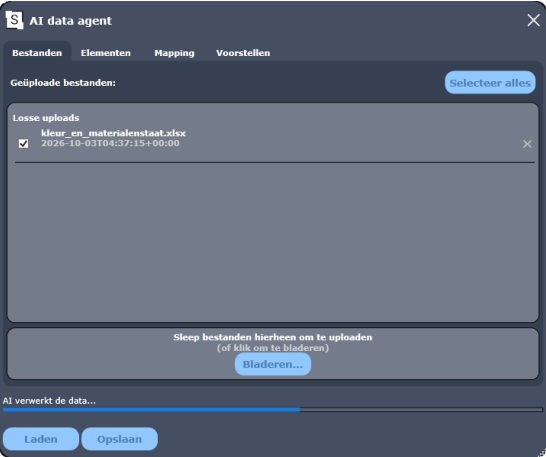
Hoe de AI Data Agent werkt



UseCase 3 – AI Data Agent – Spation

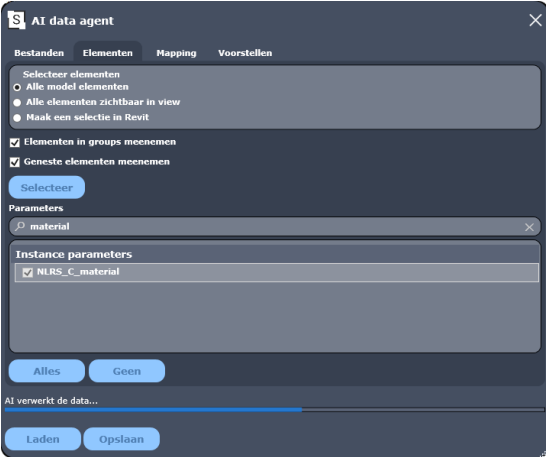
De agent in Revit: vier tabbladen

1 Bestanden



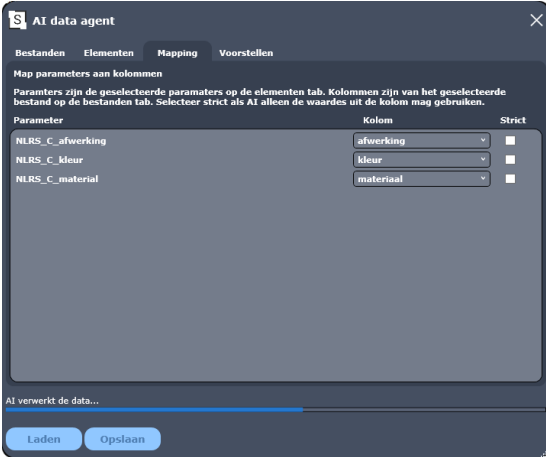
Upload de tabel, bijvoorbeeld een kleur- en materialenstaat in Excel.

2 Elementen



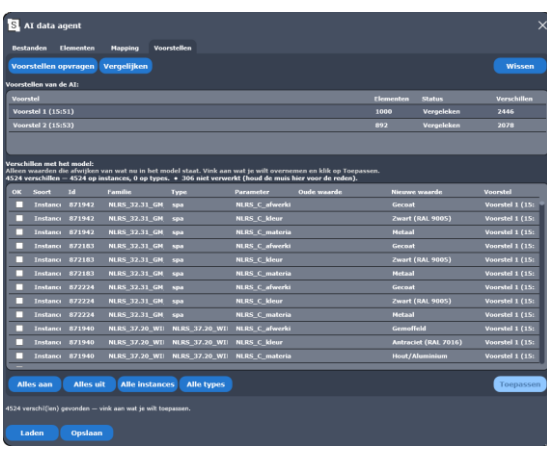
Kies welke elementen en parameters de agent mag vullen.

3 Mapping



Koppel parameters aan kolommen. Strict: alleen waarden uit de kolom.

4 Voorstellen



Jij vinkt aan wat wordt toegepast.

UseCase 3 – AI Data Agent – Züblin, UZ Gent

Use case: UZ Gent – een echt project, samen met Züblin

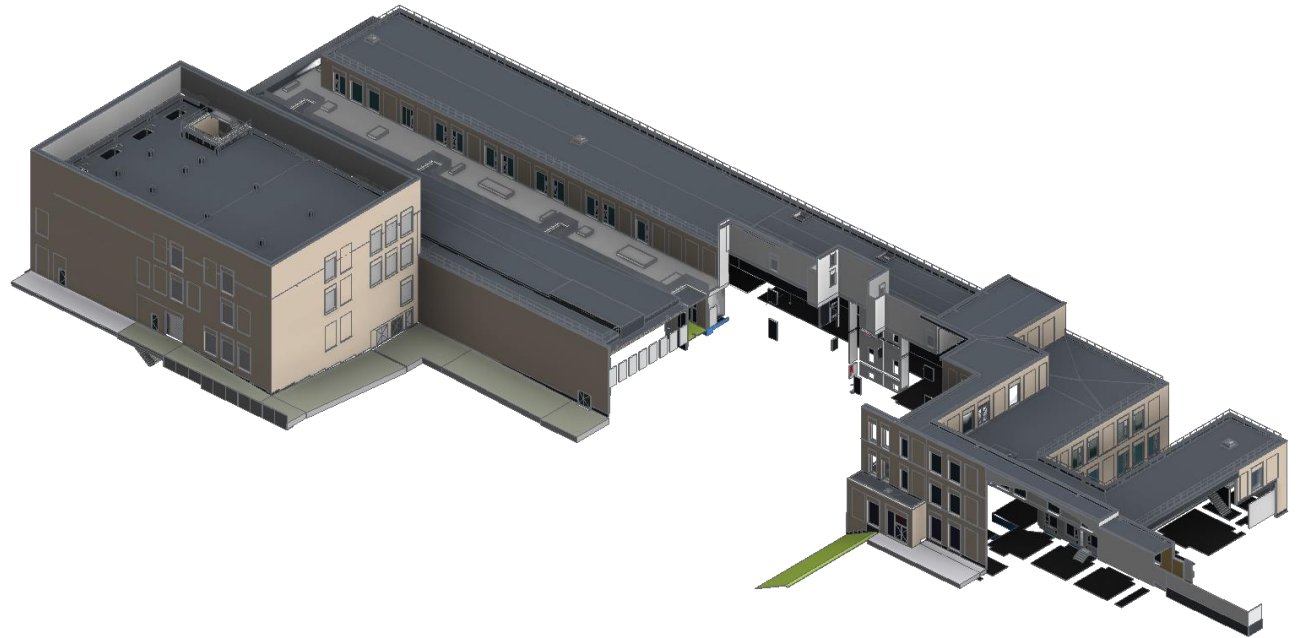


UZ Gent

Lot Ruwbouw · Radiotherapiepark,
Energiegebouw en gebouw UPSIE

Technische fiches automatisch in het
Revit-model

In samenwerking met Wiebe Smits, BIM manager bij Züblin



UseCase 3 – AI Data Agent – Züblin, UZ Gent

De uitdaging: productbladen van leveranciers, handmatig overgetypt

0

technische fiches
van leveranciers, per project

SITUATIE

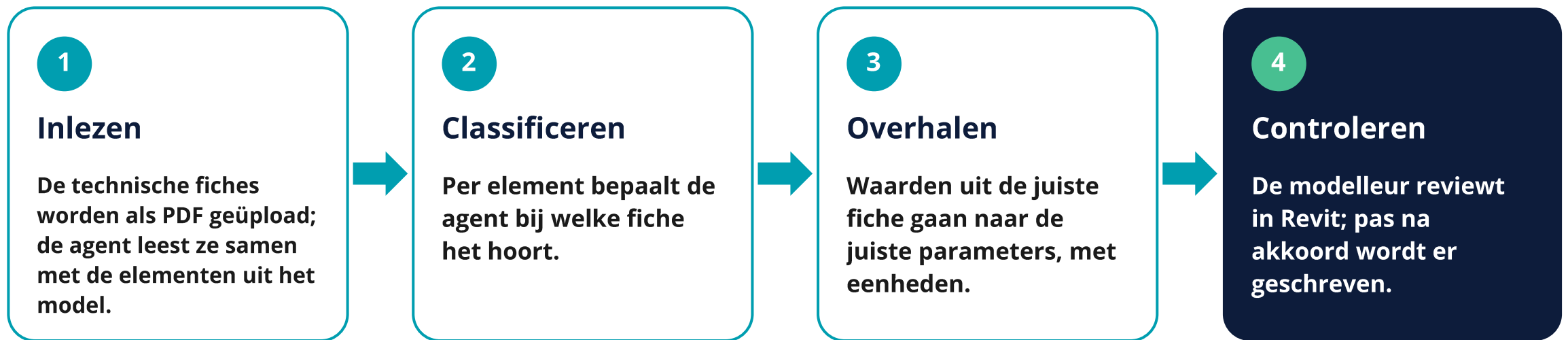
- Per project 221 technische fiches van leveranciers
- Gegevens met de hand in typeparameters gezet
- Controleren kost net zoveel tijd als invoeren

DOEL

- Fiches automatisch uitlezen
- Waarden in de juiste Revit-parameters
- Elke waarde herleidbaar naar fiche en pagina

UseCase 3 – AI Data Agent – Züblin, UZ Gent

Aanpak: vier stappen van fiche naar model



Mens in de loop: de agent stelt voor, de modelleur beslist.

UseCase 3 – AI Data Agent – Züblin, UZ Gent

Resultaat: wat het oplevert, en wat we leerden

221

technische fiches verwerkt

4.417

elementen in het ARCH-model

2 uur

voor een week werk

DRIE LESSEN

Mens in de loop

De agent stelt voor, de modelleur beslist.

Bron bij elke waarde

Fiche en pagina erbij maken controleren snel.

Structuur wint

Vaste parameterdefinities en eenheden maken de mapping betrouwbaar.

Constructiemodel: 113 fiches, 3.642 elementen, ook ±2 uur.

UseCase 3 – AI Data Agent – Live demo

Live demo: van tabel naar parameters, live in Revit

1

Bestanden

Upload de fiches of de tabel

2

Elementen

Kies elementen en parameters

3

Mapping

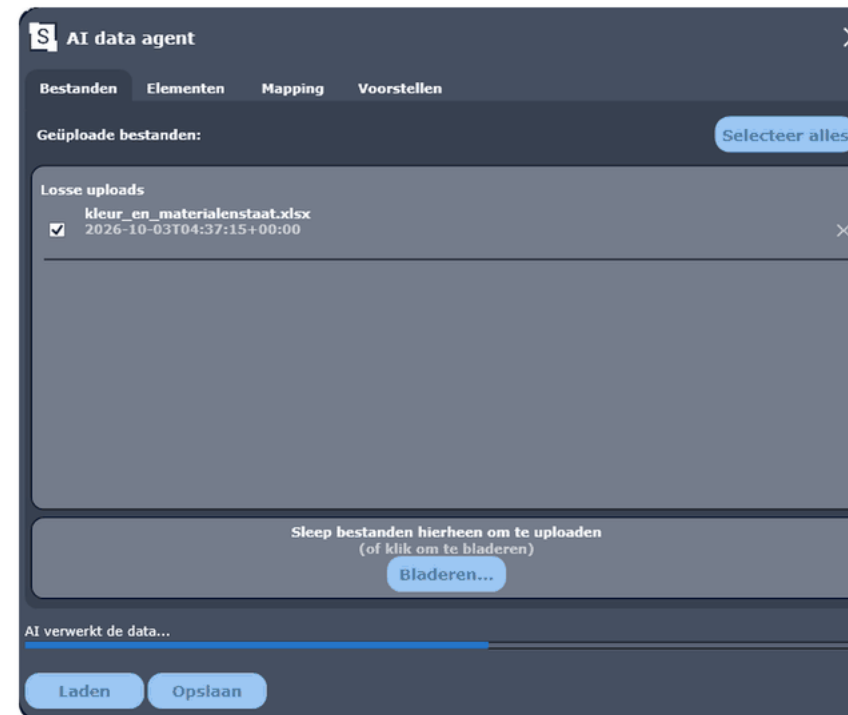
Koppel parameters aan kolommen

4

Voorstellen

Vink aan wat wordt toegepast

Jij houdt de eindcontrole.



UseCase 3 – AI Data Agent – Live demo

UseCase 3 – AI Data Agent – Zelf proberen

Zelf proberen: download de Spation Revit add-in

Download de Spation Revit add-in

www.spation.nl

Met de AI Data Agent: ongeclassificeerde tabeldata in je model,
met jou als eindcontrole.

Gratis proberen · Revit 2024–2027



SPATION



Scan voor de download

Vragen?



Louis Casteleyn
BIM Product Owner – BAC



Tim Lugtenburg
BIM Expert



Frederik Van Nespen
BIM @ BEEL architecten

