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LAVERE CO2 AFTRYK MED ONE CLICK LCA & NAVIATE ZERO

NICOLAI KARVED

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AGENDA

ACTIONS

Symetri’s mission towards decarbonization

ONE CLICK LCA

Introduction to One Click LCA

NAVIATE ZERO

Introduction of the first version of Naviate Zero for Revit

AI INITIATIVE

High-level investigation and POC

01

ACTIONS TOWARDS DECARBONIZATION

Symetri’s mission towards Decarbonization

OUR ACTIONS DO THE TALKING

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+
One Click LCA

Symetri Partnerships

This is an exclusive partnership that benefits our clients directly

NAVIATE® ZERO
POWERED BY ONE CLICK LCA

Symetri Technology

Make smart, sustainable material selections in an easy way directly in your Revit model.

- Partners
- Research
- Client Centric Solutions & services

Symetri R&D

Co-Innovation Practice

Developing sustainable, innovative solutions to meet the future needs of the communities we serve; while working smarter.

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02

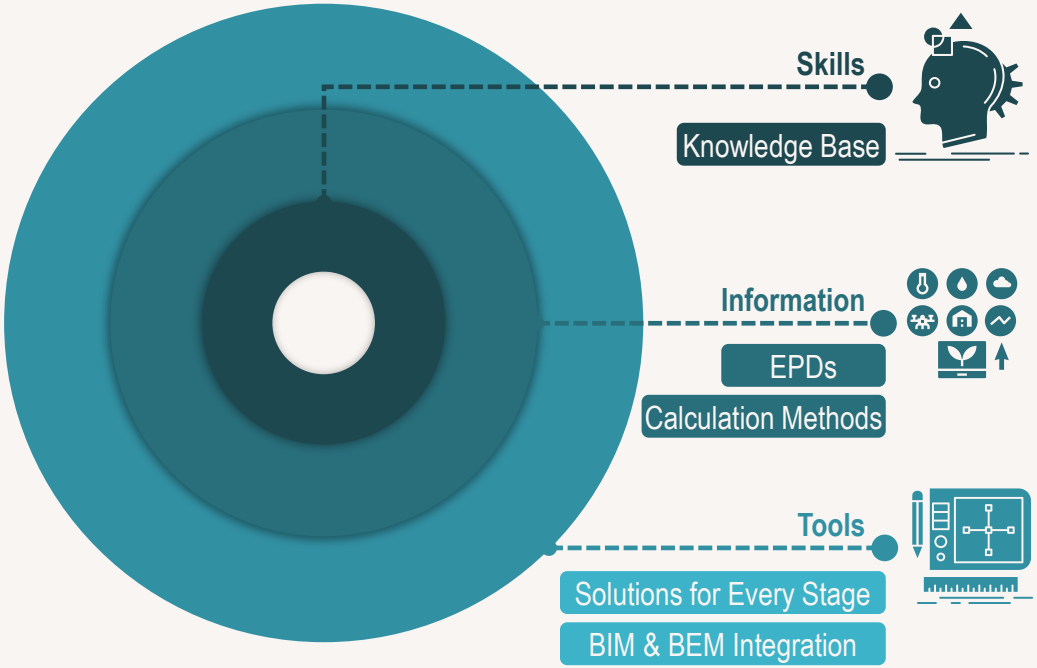
ONE CLICK LCA

Introduction to One Click LCA

WHY ONE CLICK LCA?

A platform that bridges

- **Skills gaps**: provide comprehensive knowledge base
- **Information gaps**: no certification & database mapping required
- **Tool/platform gaps**: BIM & BEM integrations for all design stages



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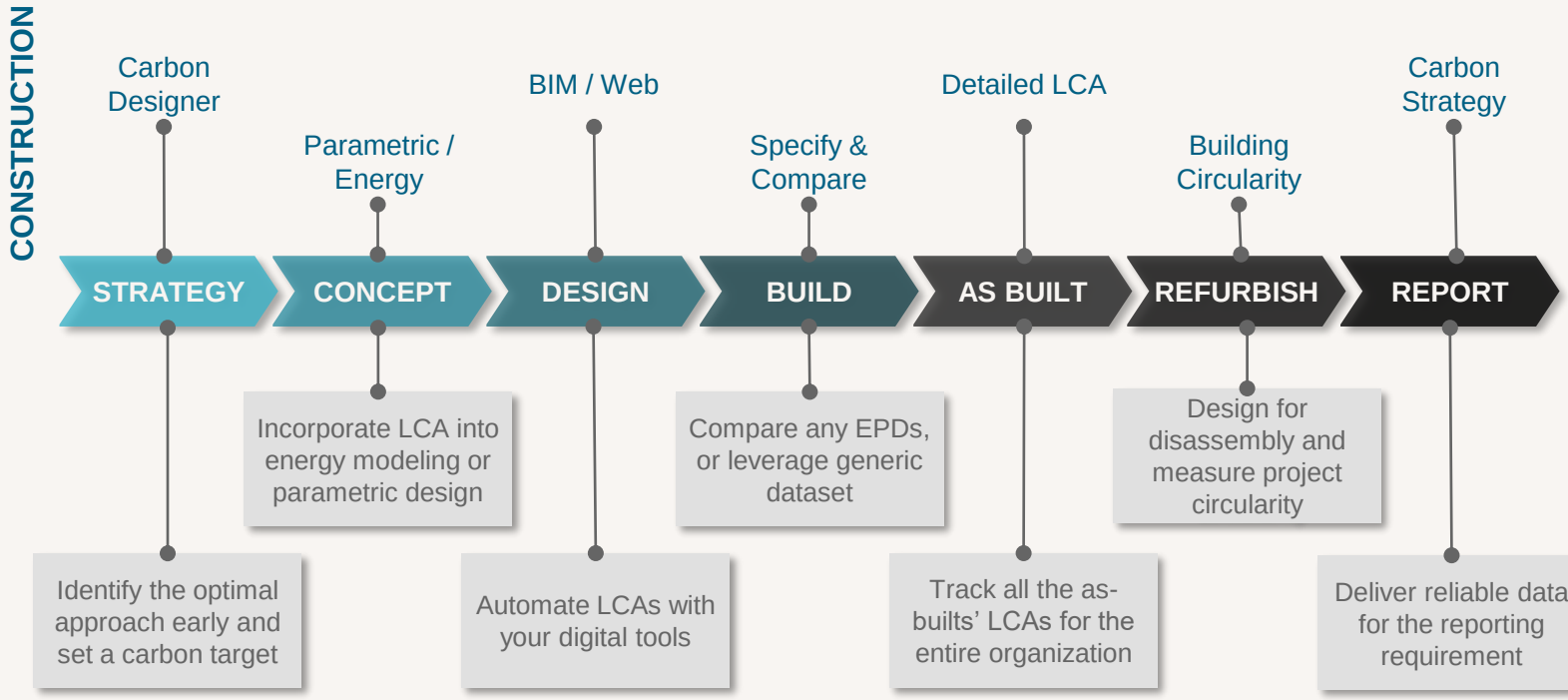
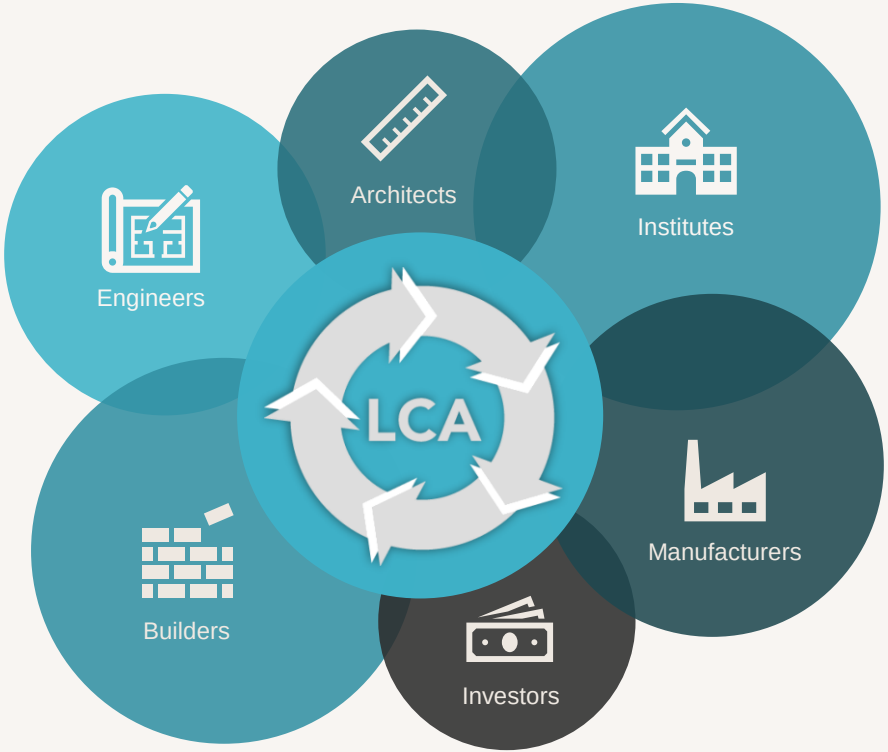
PROJECT PHASES



CONNECTING THE ENTIRE INDUSTRY

Supporting Everyone's Needs

- **Architects:** Net Zero Design Strategies
- **Engineers:** Material Identification & Detailed LCA
- **Builders:** Product Specifications
- **Manufacturers:** Products' Life Cycle Impact
- **Investors:** GHG Portfolio & Reporting
- **Institutes:** Carbon Tracking & Benchmarking



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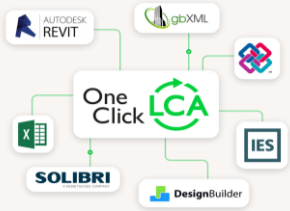
DIFFERENTIATORS AND BENEFITS

EASY TO USE

HOLISTIC SET OF TOOLS



INTEGRATES TO ANYTHING

GLOBAL EPD DATABASES

GLOBAL COMPLIANCE STANDARDS

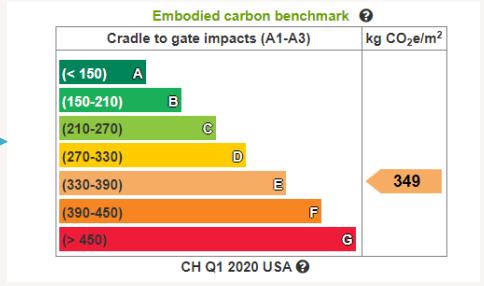
CROSS ENTIRE VALUE CHAIN

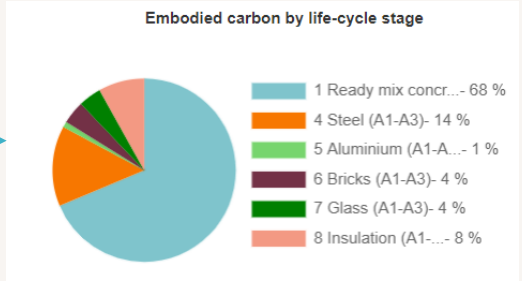
WORKFLOW

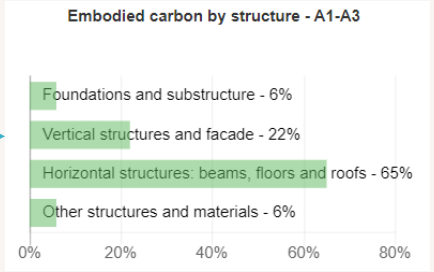
AUTODESK REVIT
gbXML
One Click LCA
IES
SOLIBRI
DesignBuilder

For Construction Projects

- **Life Cycle Assessment**
- Life Cycle Costing
- Early Design Optimization
- Site Designer
- Embodied Carbon Calculation
- Circularity Assessment
- Carbon Benchmarking
- Infrastructure LCA







SUMMARY

Life Cycle Assessment

- Driving sustainability and smart decisions.

One Click LCA

- Efficiency unleashed for comprehensive carbon insights.
- Identify hotspots and prioritize reductions.
- Rapid scenario generation for informed choices.
- Optimize strategies with carbon & cost in mind.

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03

NAVIATE ZERO

Introduction of the first version of Naviate Zero for Revit

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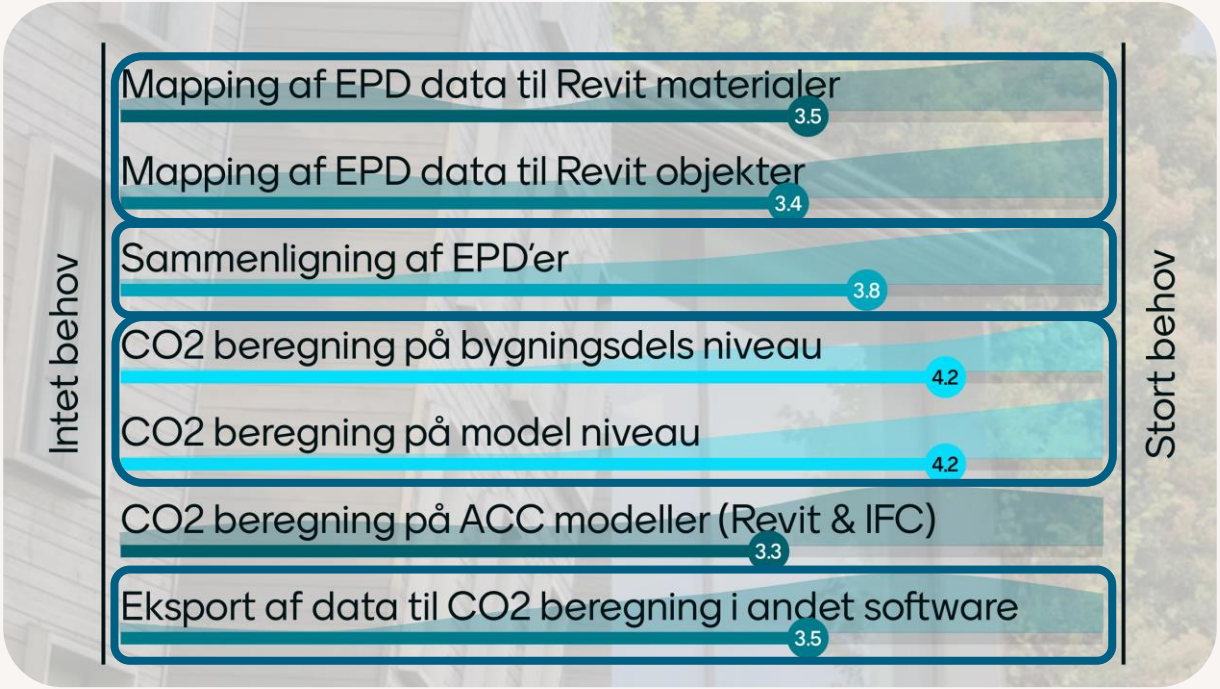
BIM FORUM 2022 SUSTAINABILITY POLL



NAVIATE ZERO MVP*

- I would like to access a repository of generic and specific resources with CO2e values to do an early assessment based on my design.
- I would like to write data from a resource repository to my Revit families and/or materials.
- I would like Naviate to help me choose resources within the correct category based on the elements in my model.
- I would like to visualise the CO2 impact per category in my project.
- I would like to be able to compare different resources while adding data to my Revit families and/or materials.

*MVP: Minimum Viable Product

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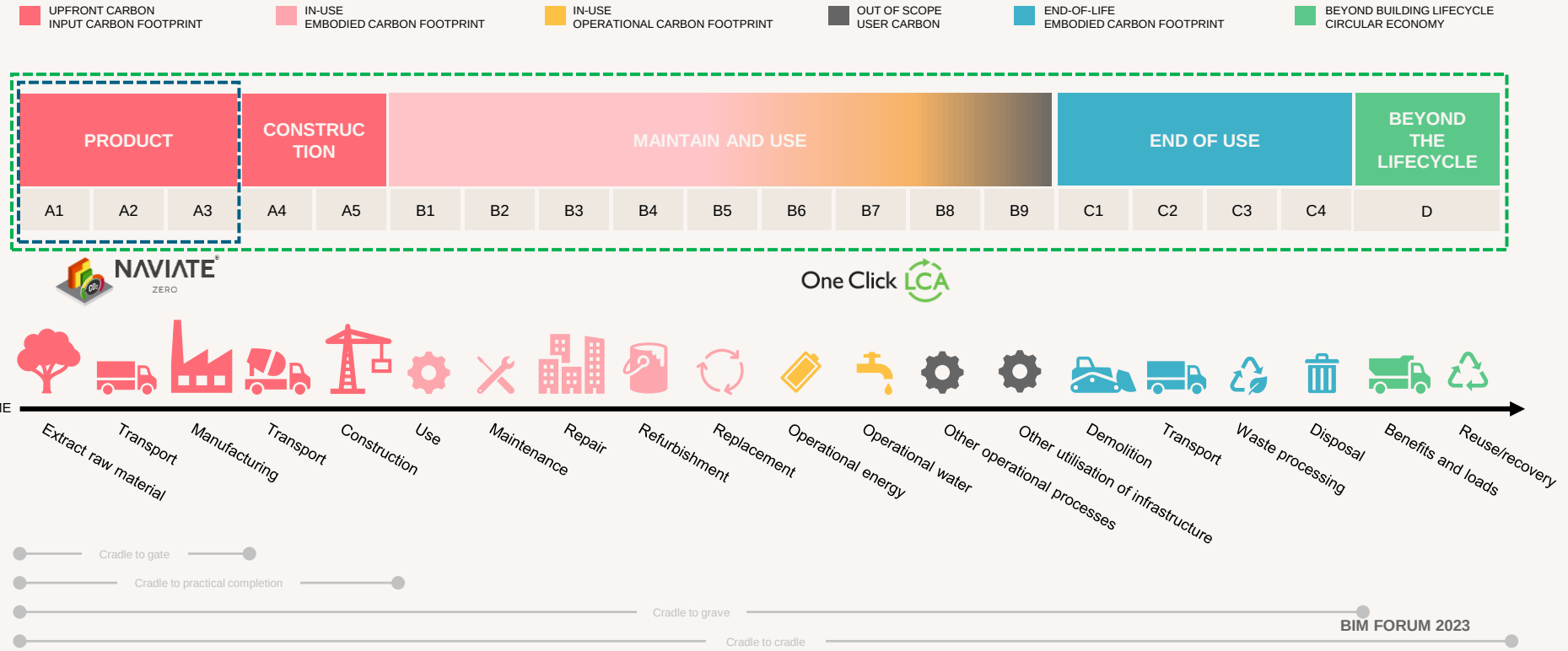
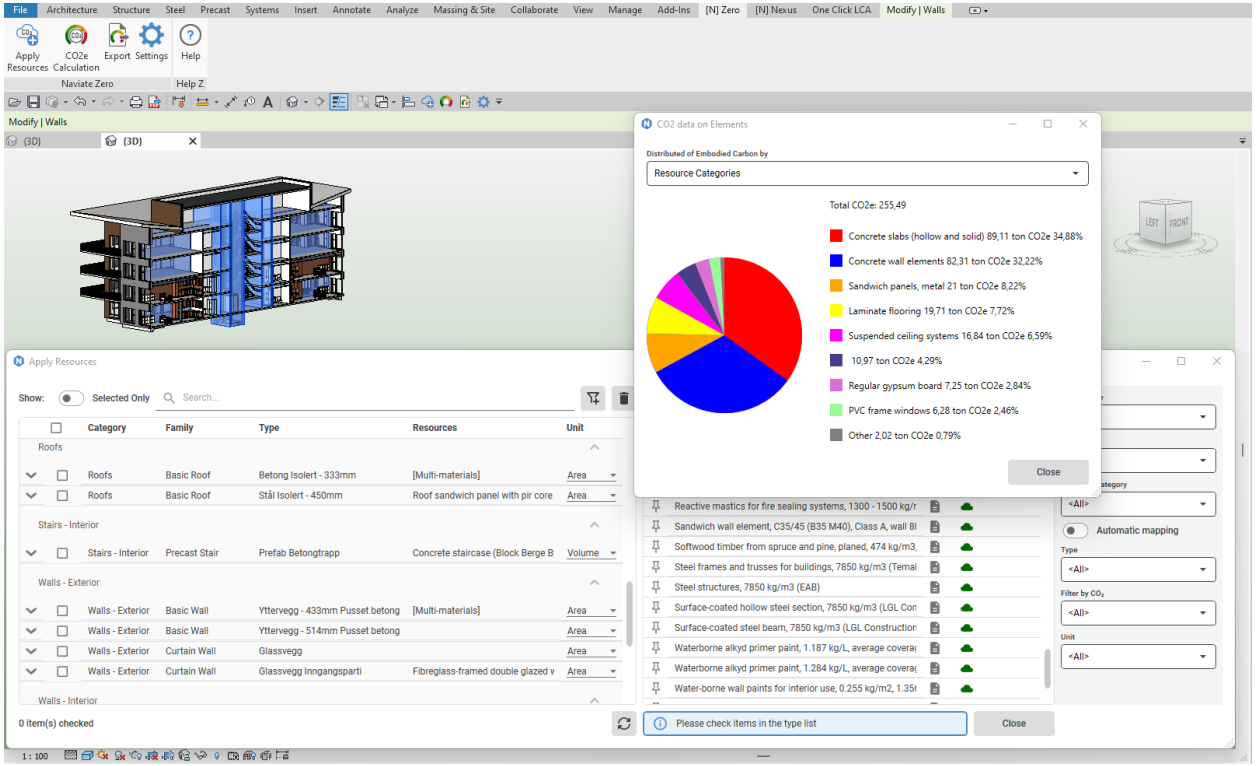
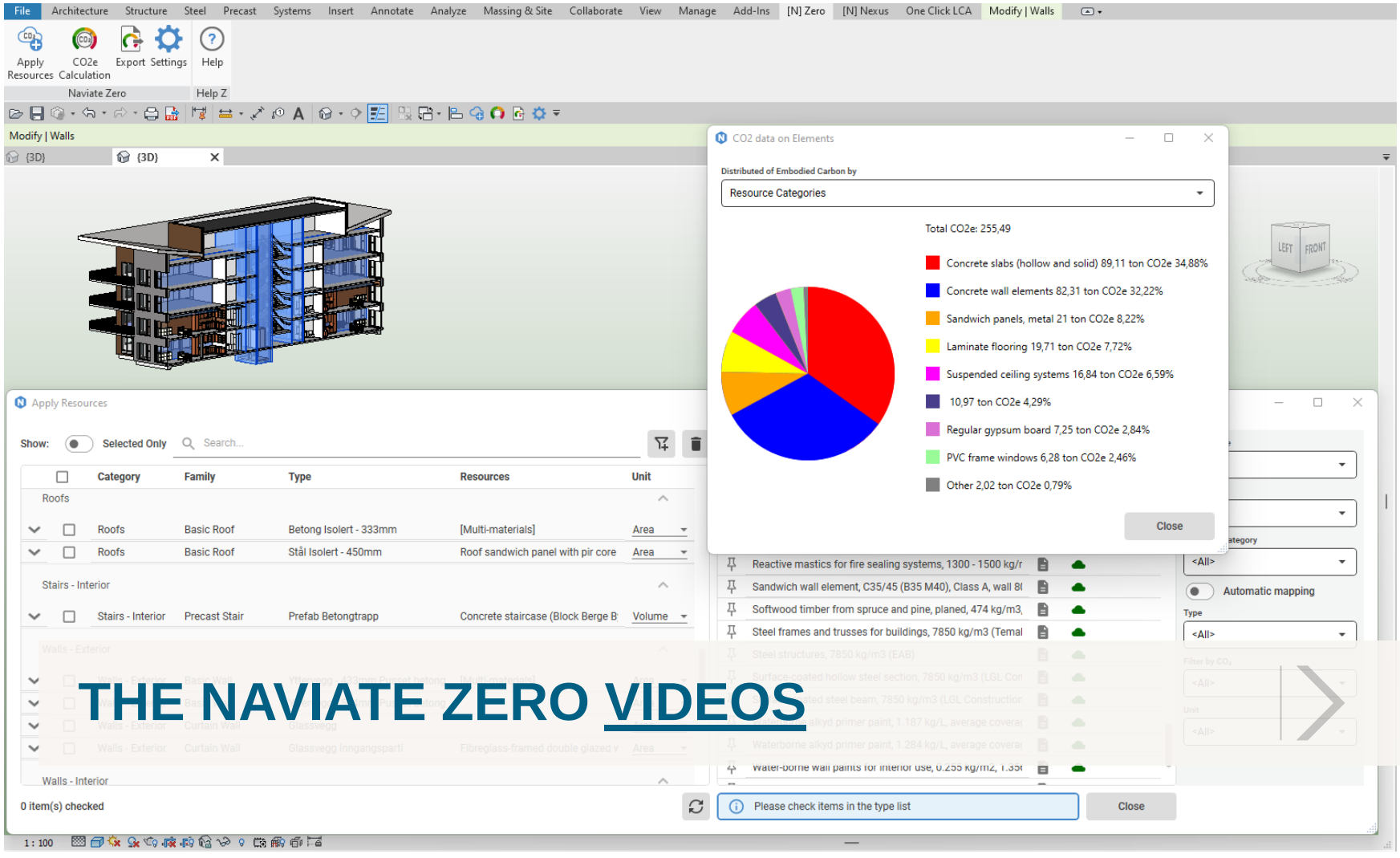
THE SCOPE OF NAVIATE ZERO



NAVIATE ZERO FOCUSES ON SMART AND SIMPLIFIED MATERIAL SELECTION
&
AIMED FOR THE REVIT USER WITHOUT EXTENSIVE KNOWLEDGE OF LCA AND EPD'S





THE NAVIATE ZERO VIDEOS

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THE MAIN DIFFERENCES BETWEEN NAVIATE ZERO AND ONE CLICK LCA WEB AND REVIT INTEGRATION

- **Naviate Zero summarises CO2 emissions (GWP) for the manufacturing (A1-A3) of the Resource chosen for elements in the model.** OCL can do a full Life Cycle Assessment on a building, calculating the environmental impact. This includes considering all needed stages, the location, and any certifications.

- **In Naviate Zero, you don't need an additional OCL license to select Resources and calculate GWP in Revit.** OCL allow you to select Resources for your building components, but a separate license is needed to calculate the results.

- **Naviate Zero calculates and stores data from the Resources within Revit.** OCL transfers data from the Revit project to OCL to do the calculation; no data is saved in Revit.

- **In Naviate Zero, you can "instantly" get the GWP values for a specific building element.**

- **Naviate Zero is a standalone Revit add-in for material selection (A1-A3) and a supplement to OCL for importing Resource mapping and quantities. Resources added with Naviate Zero can be imported into a project in OCL.**

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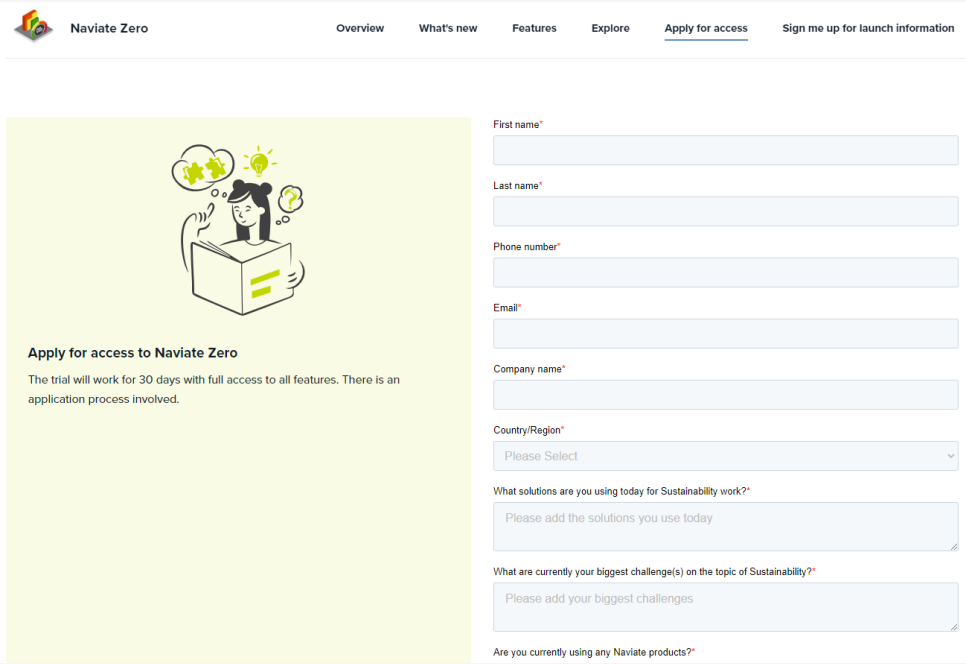
APPLY FOR ACCESS TO NAVIATE ZERO



04

AI INITIATIVE

High-level investigation and POC

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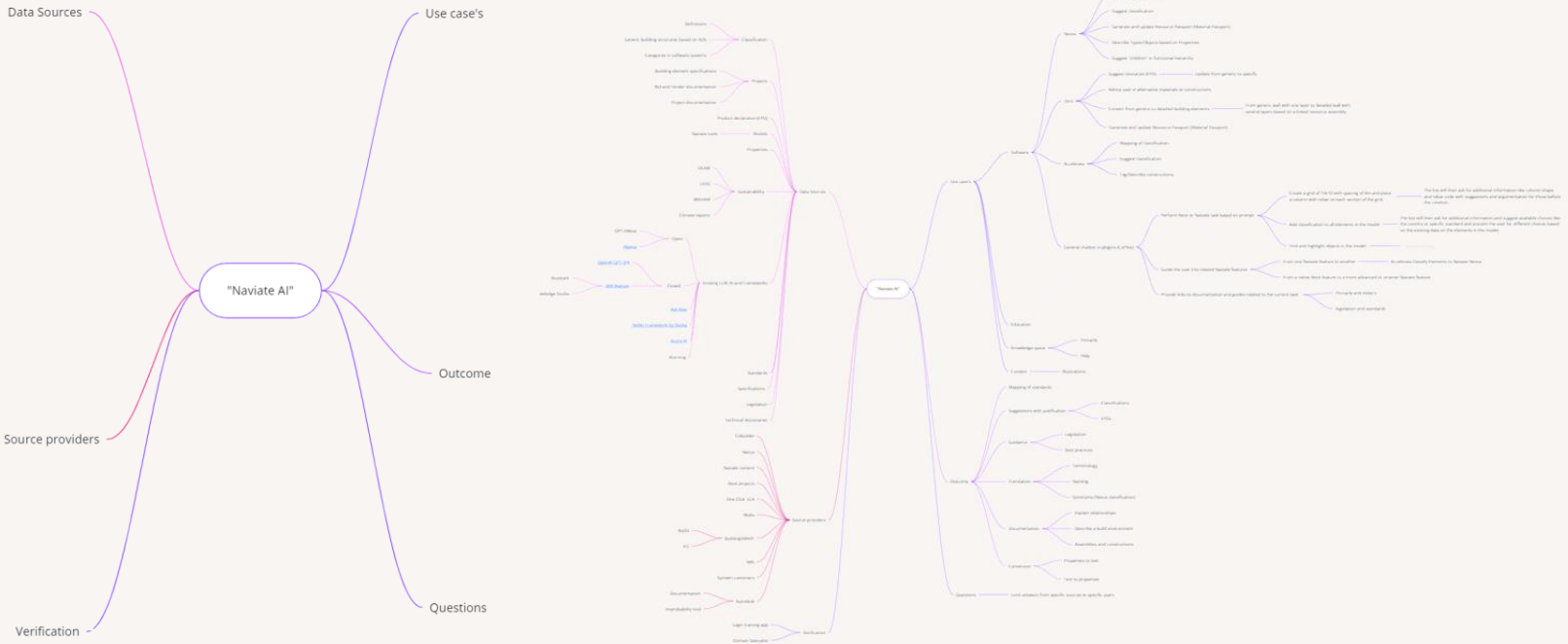
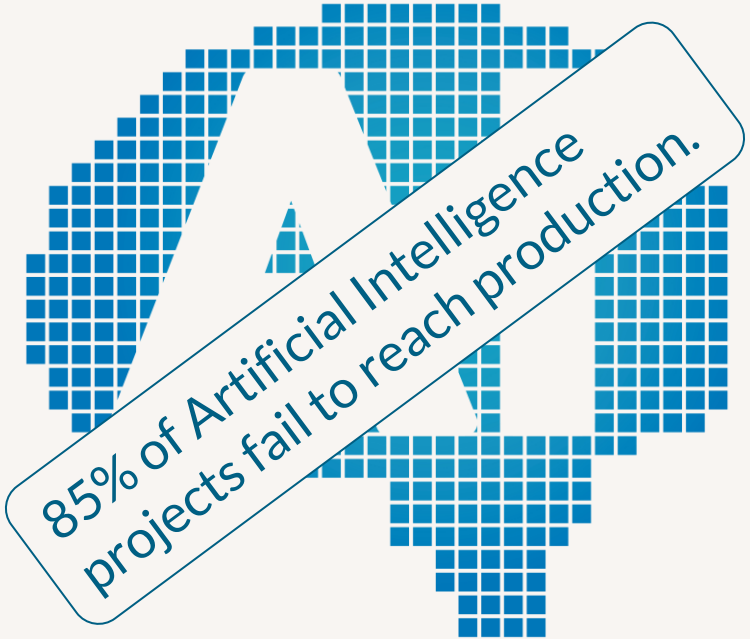
HOW TO LEVERAGE AI IN SYMETRI?



CHALLENGES AND QUESTIONS



Current models do not have a full understanding of the Built Environment

Current models do not have a technical understanding of BIM models

Do we have the right resources?

What is the Cost? $$$

How and where to start to ensure success?

Image: Freepick.com

PROOF OF CONCEPT WITH BRAINPOOL.AI

- To ensure starting right, Symetri have engaged with Brainpool.AI
- Our first POC will cover the use of AI to transition from manual mapping of Revit Categories, Resources Categories and EPDs.
- This is the first step of many to leverage AI in Naviate and other Symetri technologies.

BRAINPOOL.AI is recognized as the world's leading AI consultancy and services provider for businesses in the construction industry.

- With over 500 artificial intelligence and machine learning experts creating cutting-edge AI algorithms and years of industry experience to develop and implement bespoke AI solutions, Brainpool.AI is on hand to offer the skills and expertise to automate our construction processes for a future-proof competitive edge.

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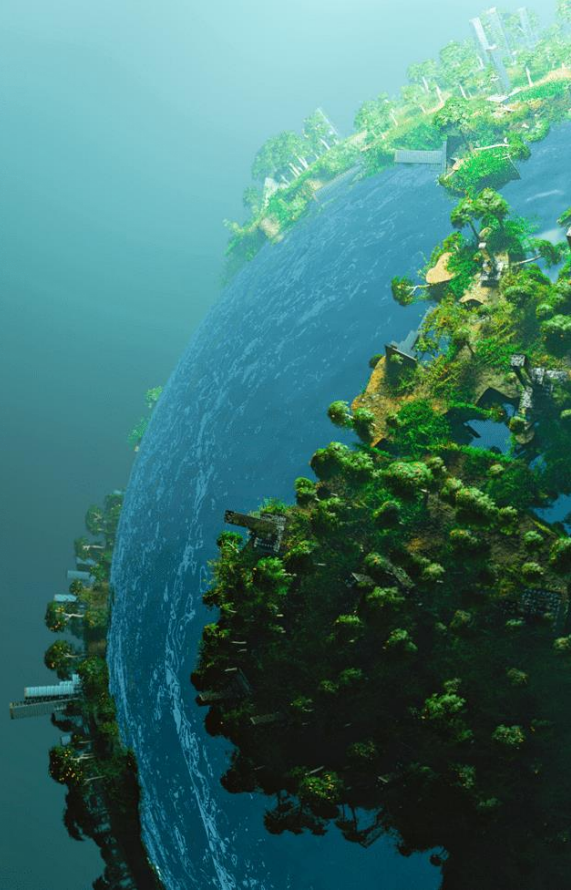
WE CHALLENGE PEOPLE TO WORK SMARTER FOR A BETTER FUTURE