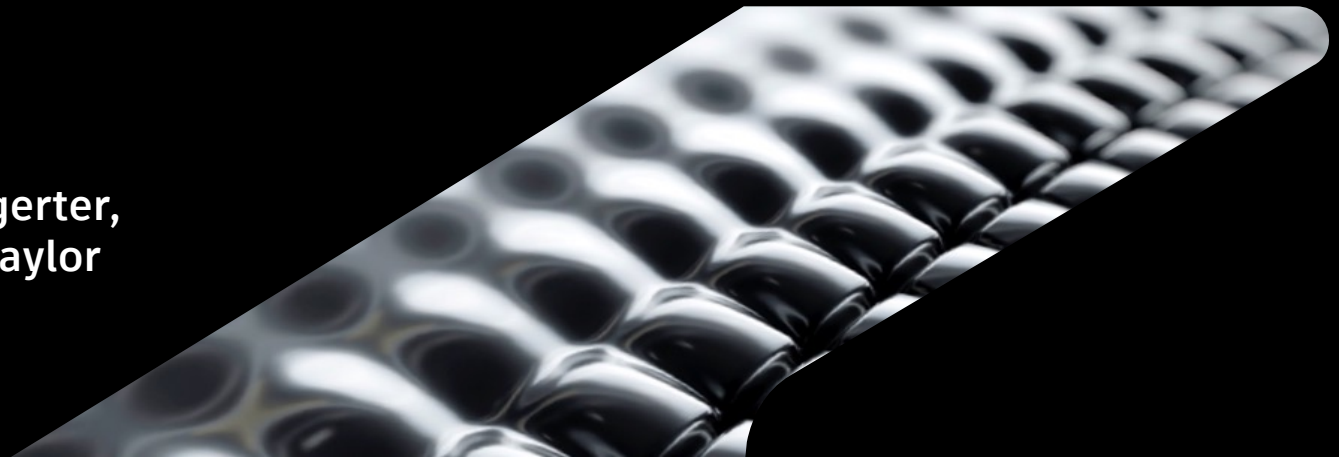
AUTODESK UNIVERSITY

Greenwashing? Not here.
Autodesk's New Sustainability Consulting Practice

Jonathan Rowe, Amy Egerter,
Carol Battle, & Justin Taylor



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Agenda

- Sustainability at Autodesk
- Who We are
- How we are creating impact
- How to Work with Us
- Q&A

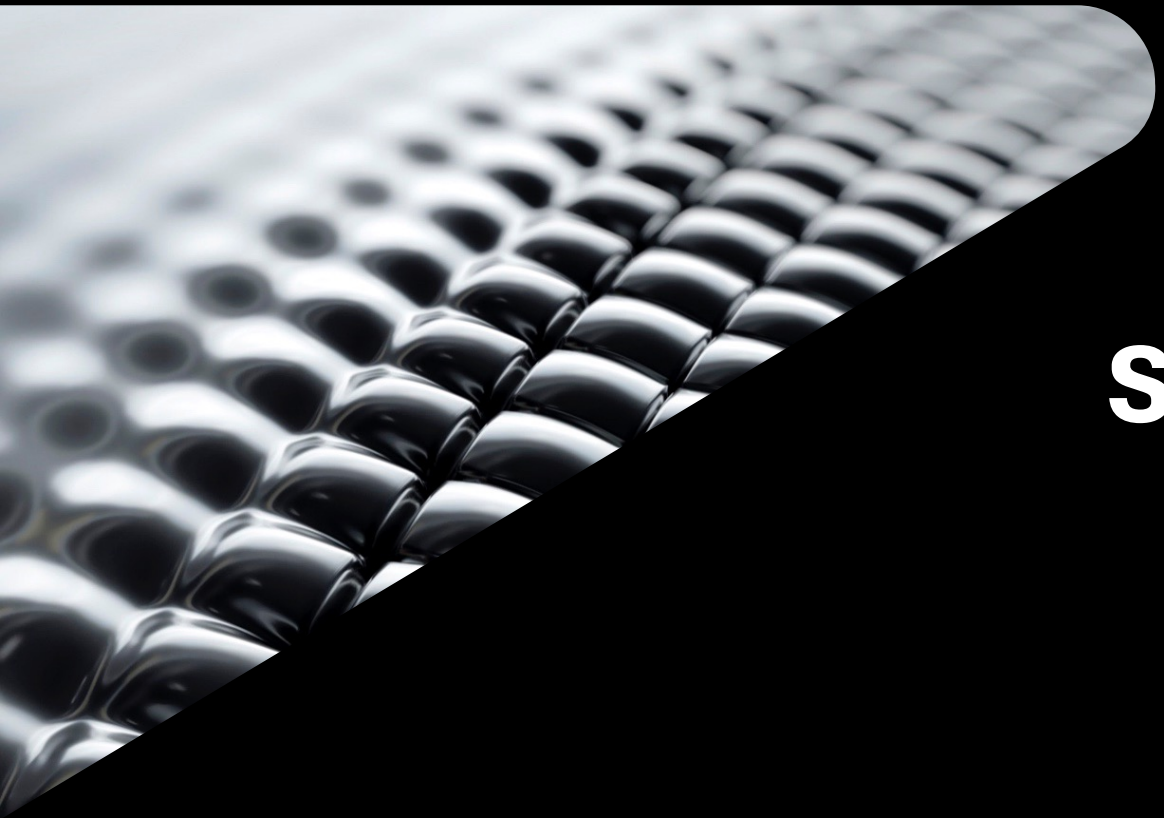
Learning Objectives

1. Learn about sustainability-related issues facing Autodesk customers.

2. Learn about the consulting services offered by the Sustainability Consulting Practice.

3. Learn about contacting Autodesk to use Sustainability Consulting Practice expertise.

4. Have a clear understanding of Autodesk's internal and external sustainability strategy.



Sustainability at Autodesk

Autodesk's Impact Strategy

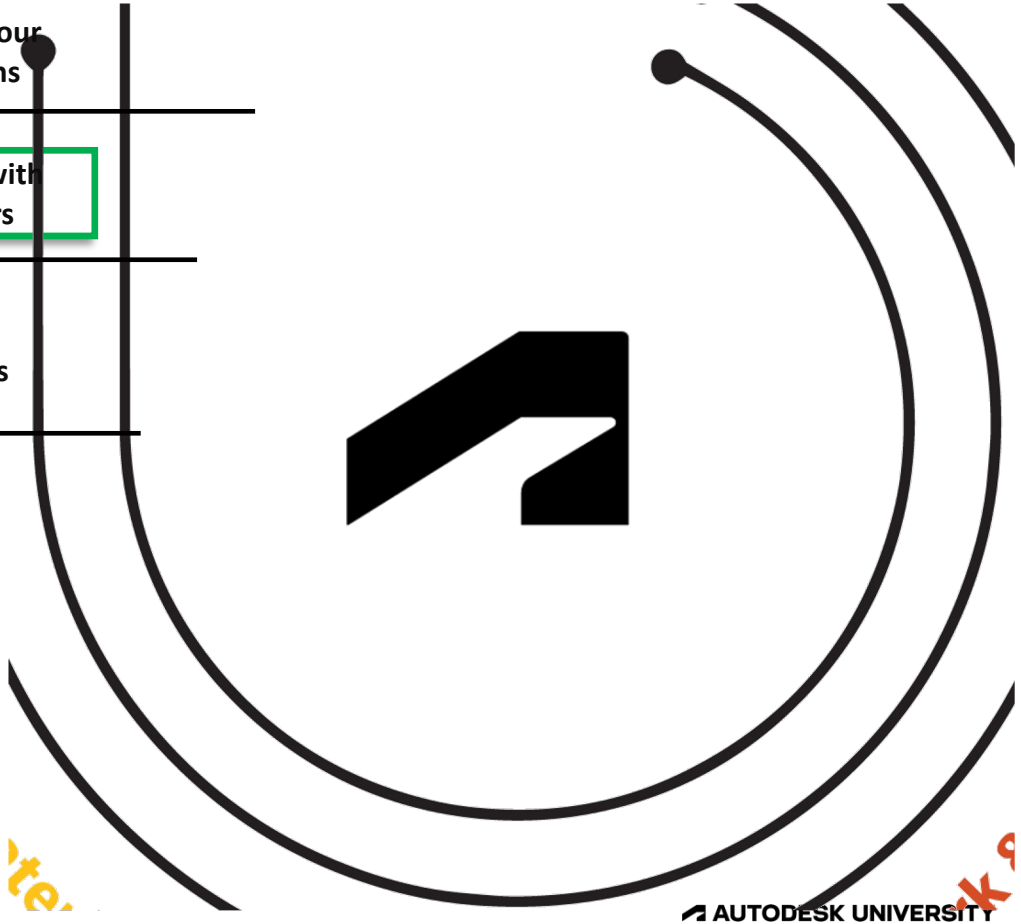
THREE WAYS WE CREATE IMPACT

Improve our operations

Partner with customers

Advance industries

THREE IMPACT OPPORTUNITY AREAS



Autodesk's Sustainability Consulting Practice

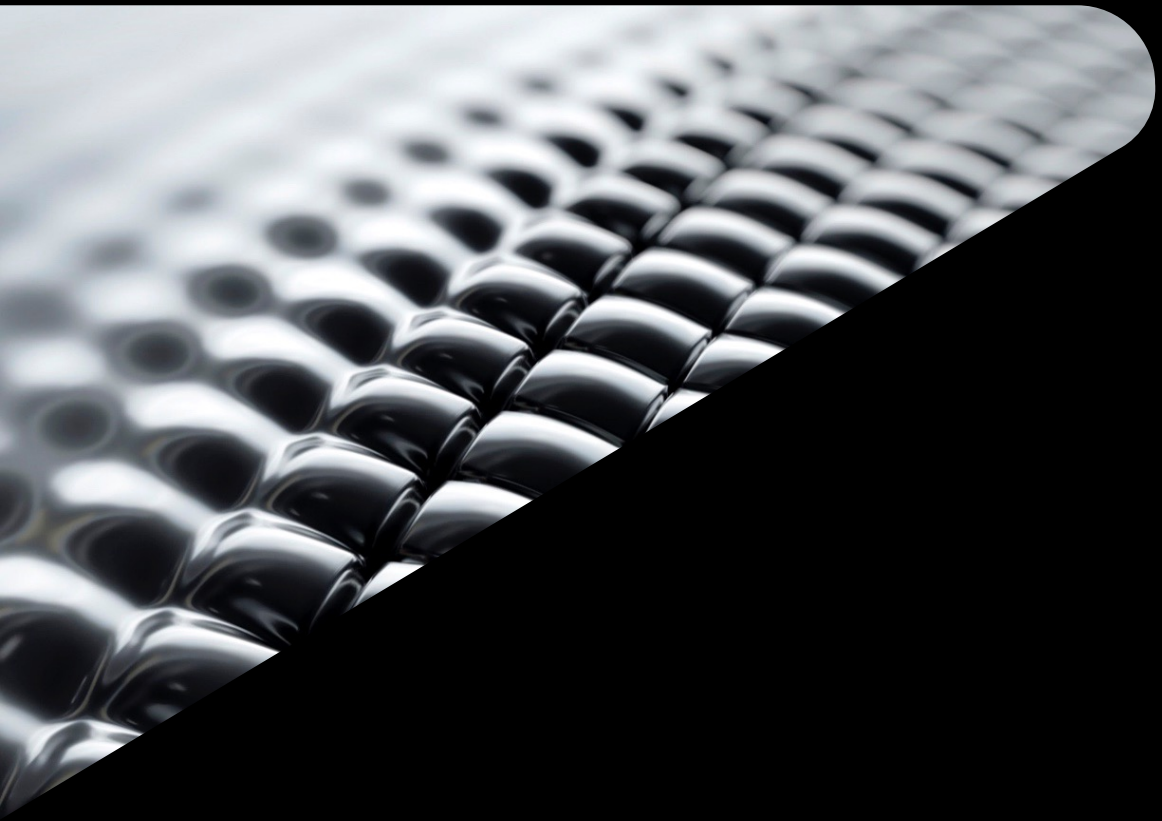
Jonathan Rowe
San Francisco
Global Lead

Amy Egerter
San Francisco
AMER

Justin Taylor
London
EMEA

Carol Battle
Melbourne
APAC

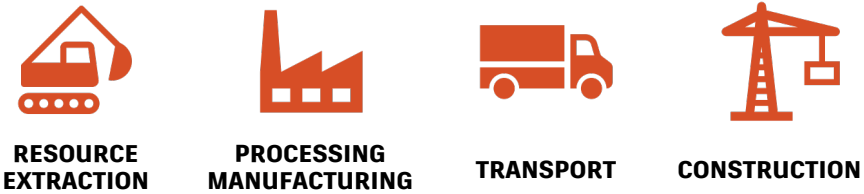
Our mission is to
empower customers to harness data, automation, and insights
to improve the impact of design and make decisions.



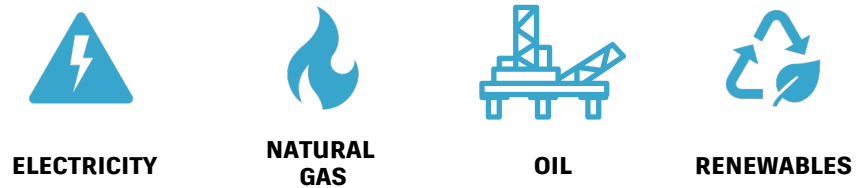
DESIGN

Design is key to addressing total carbon emissions

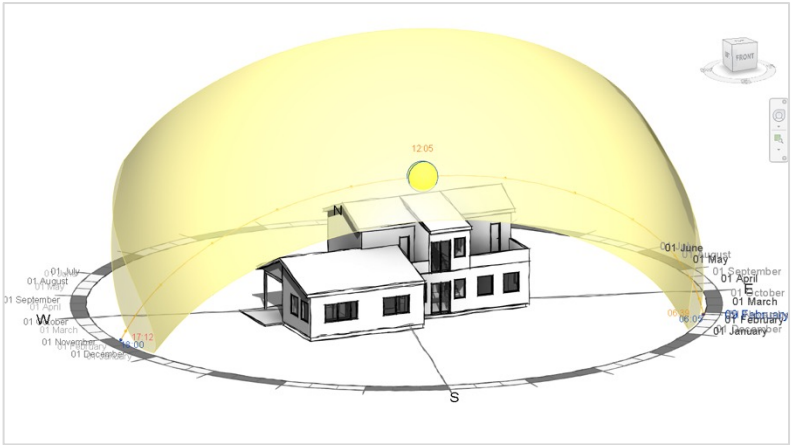
Embodied Energy / Carbon



Operational Energy / Carbon



Design to use less operational energy



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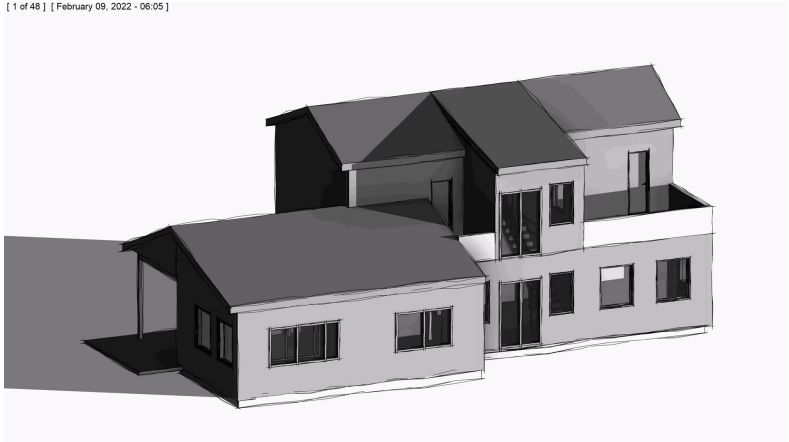

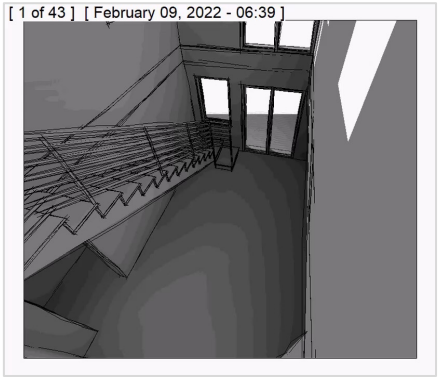

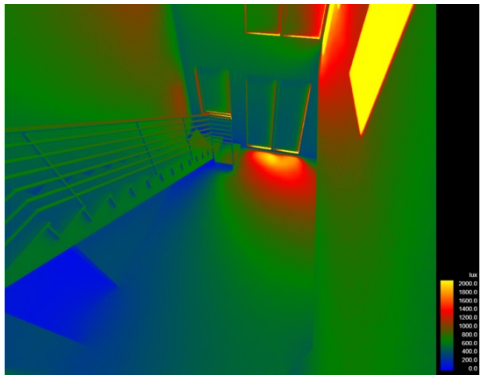

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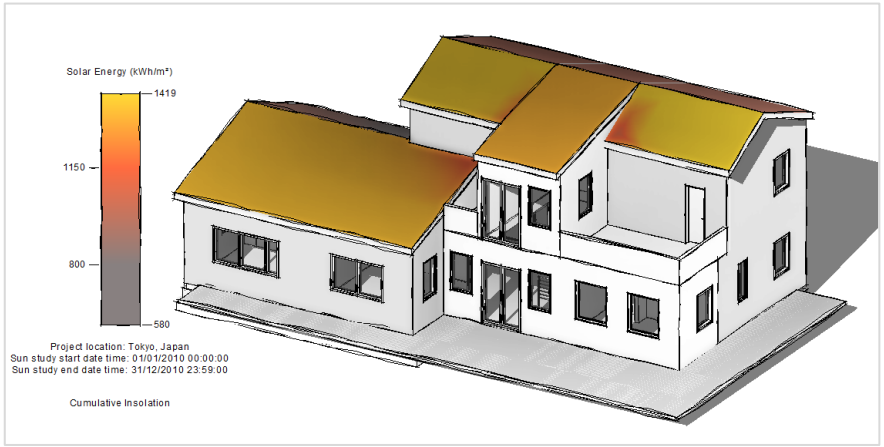
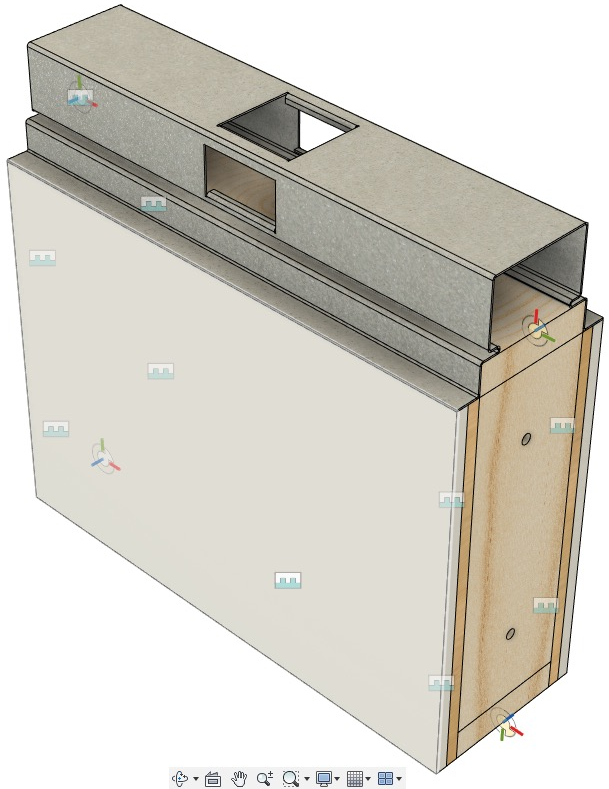


Use better materials

Autodesk Fusion & Makersite Integrations



Model courtesy of: Paolo Galli

Use better materials

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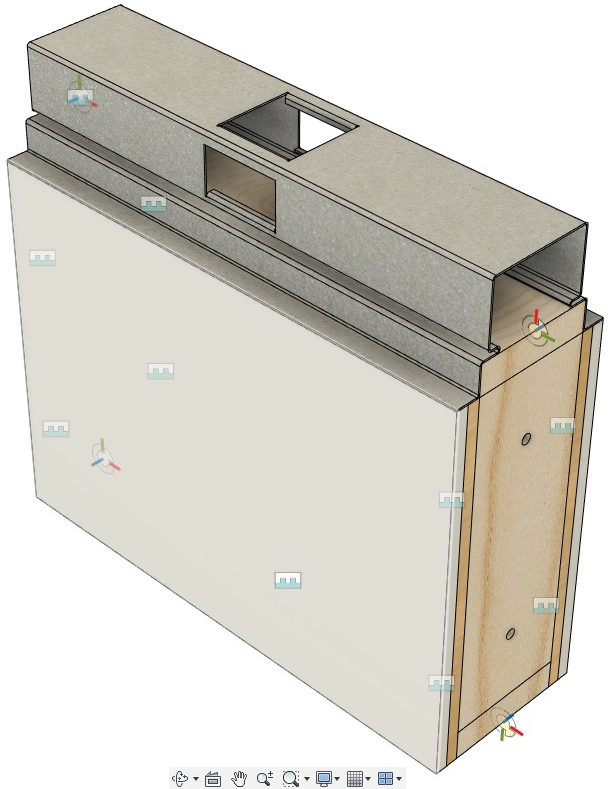

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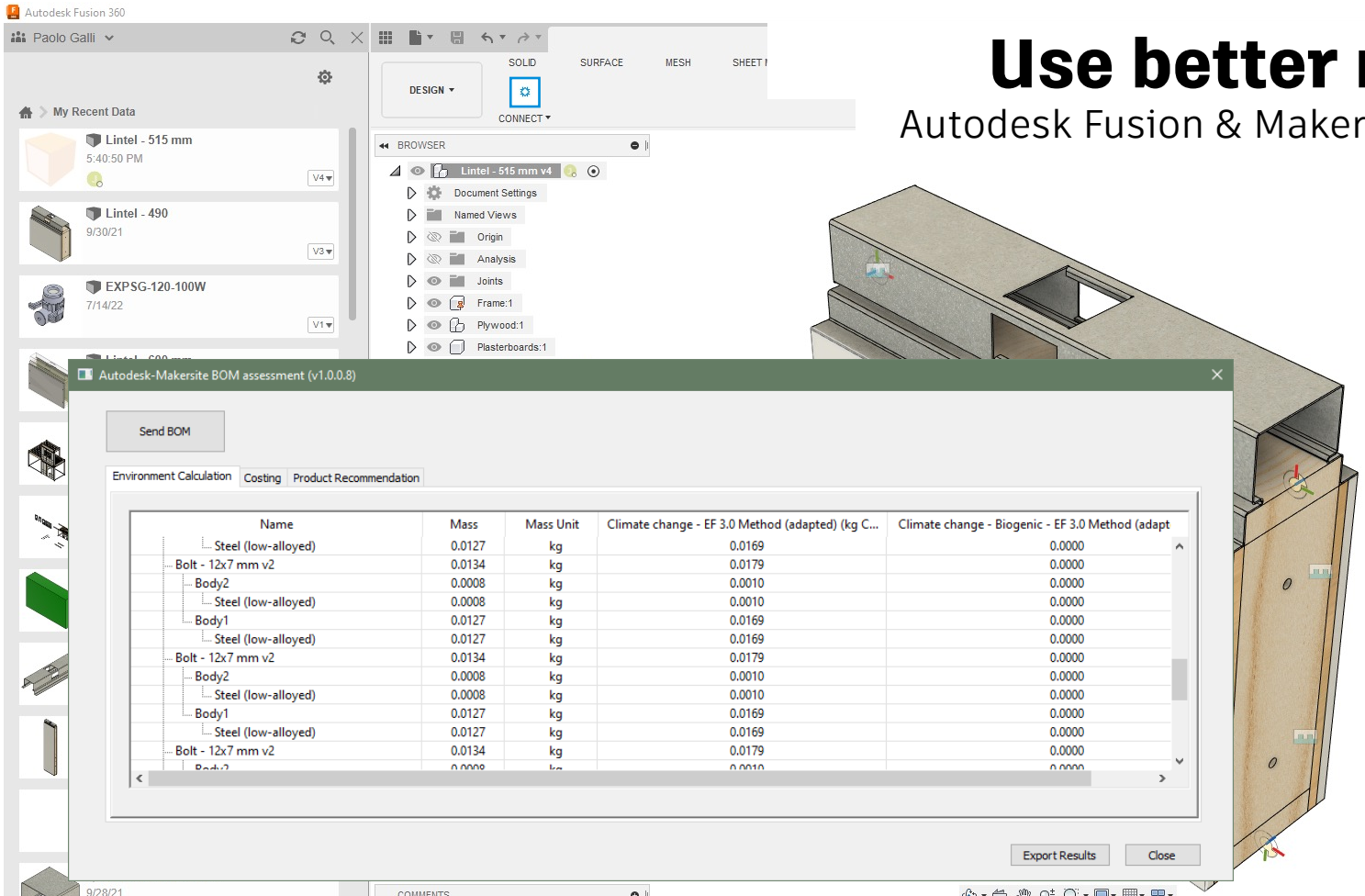

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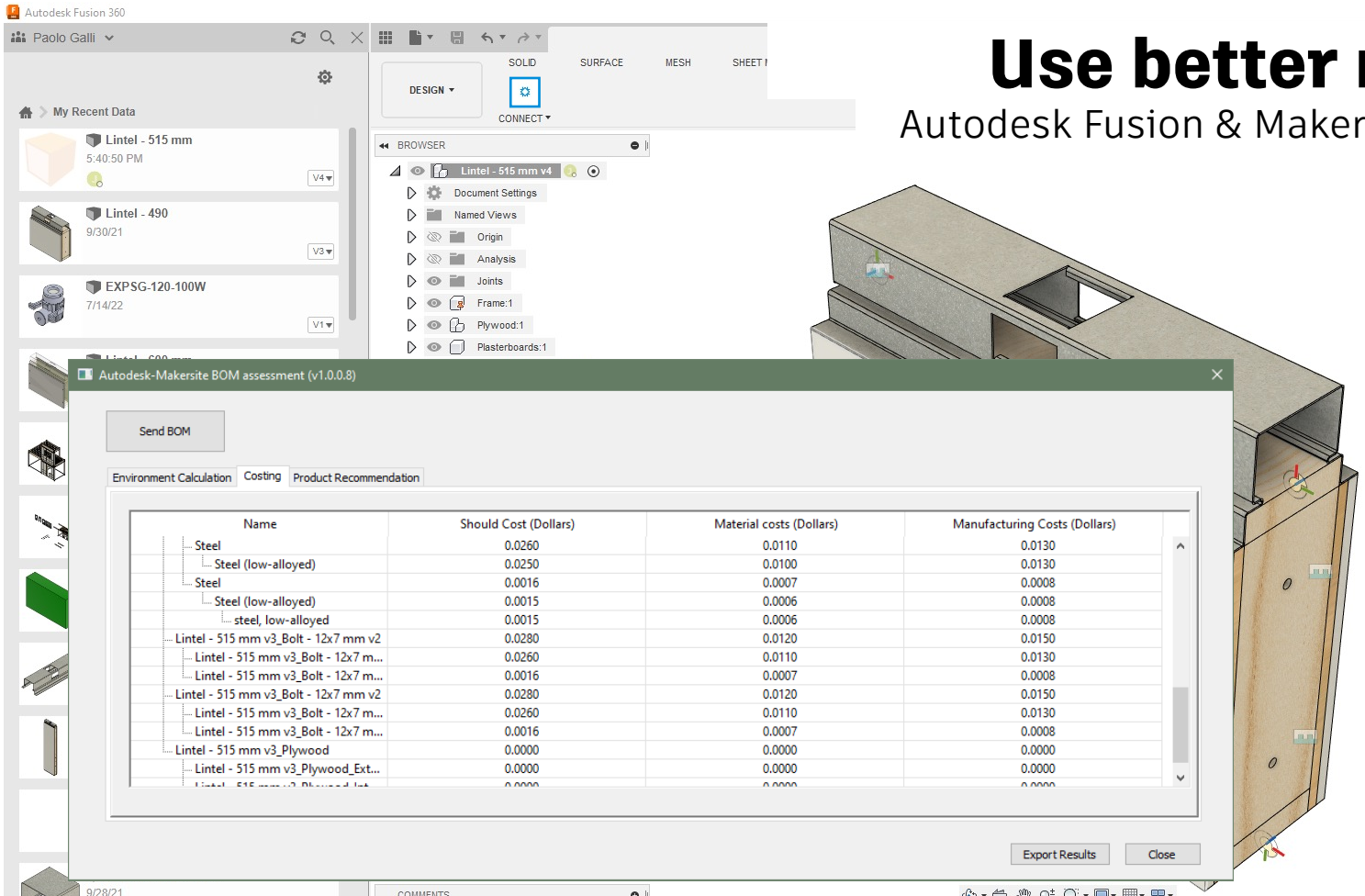

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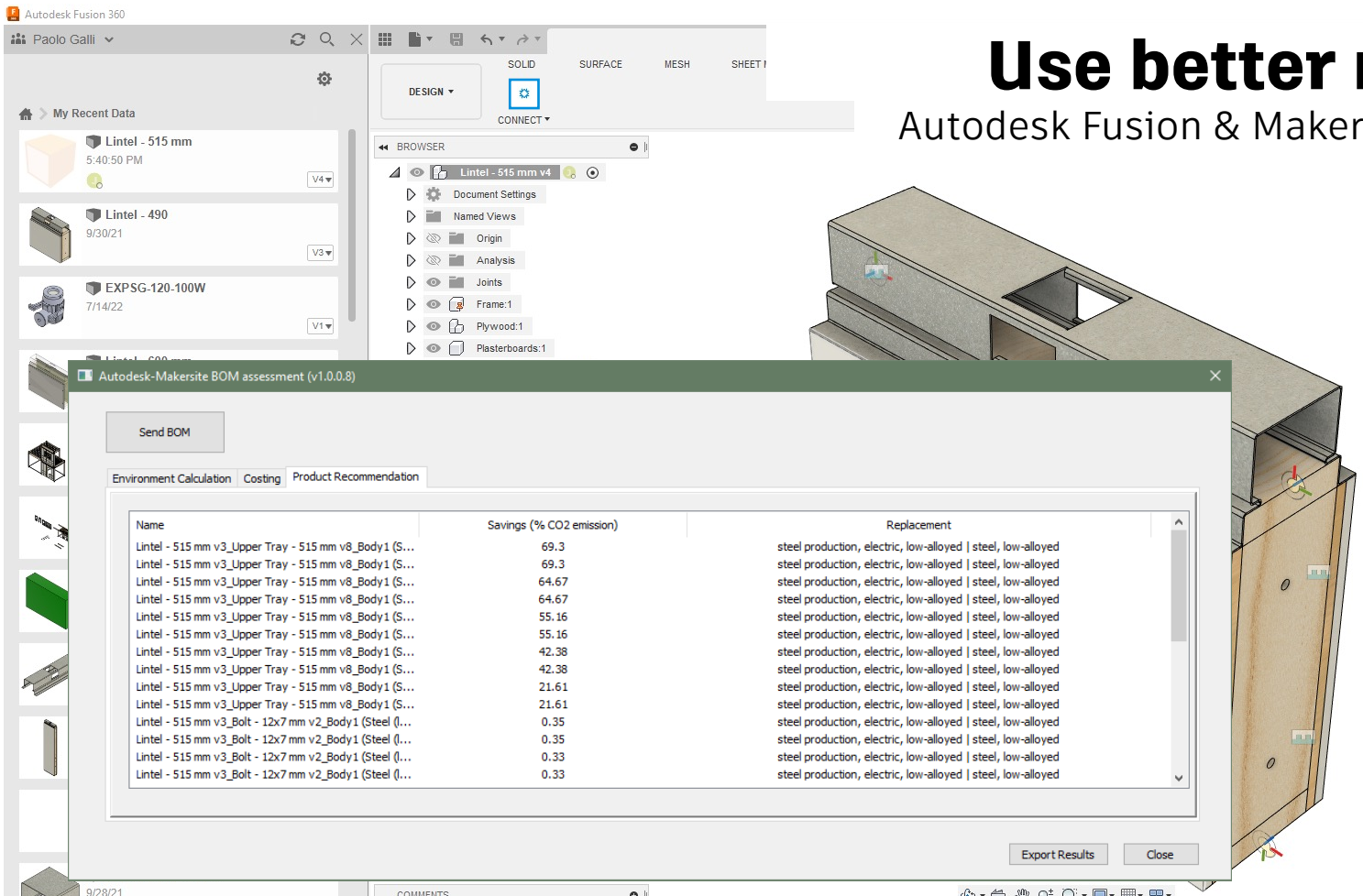
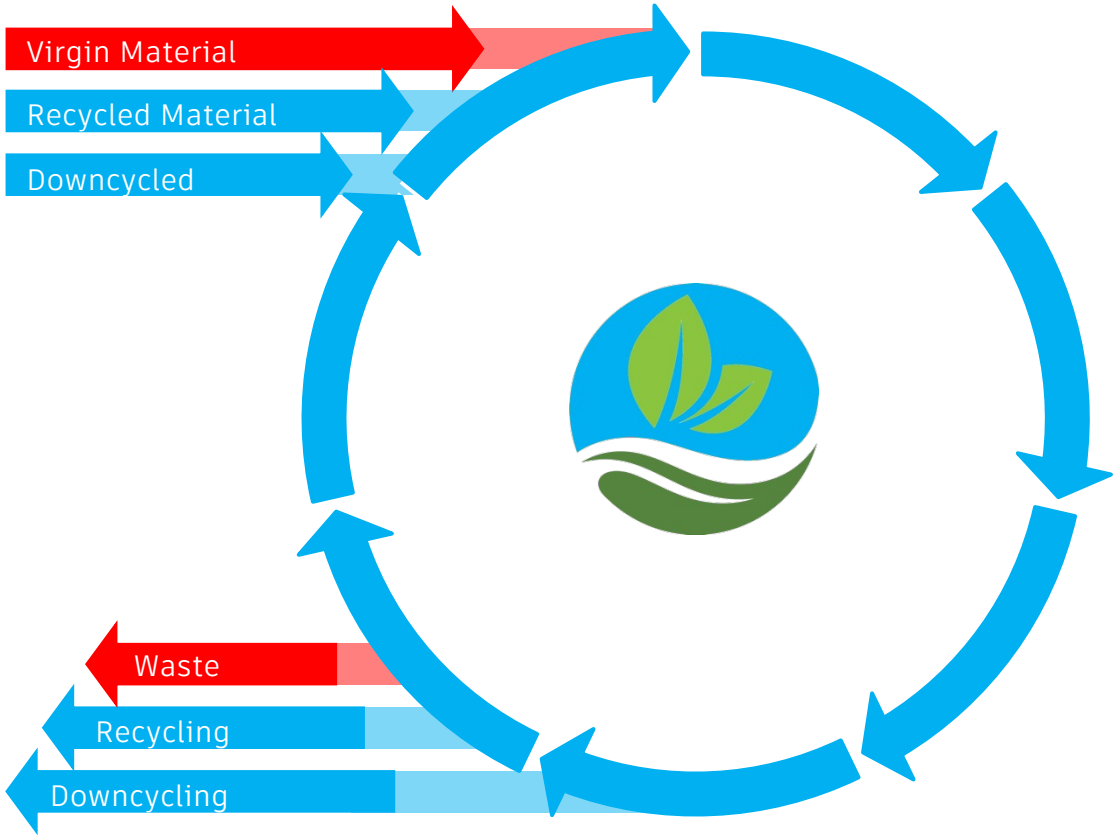


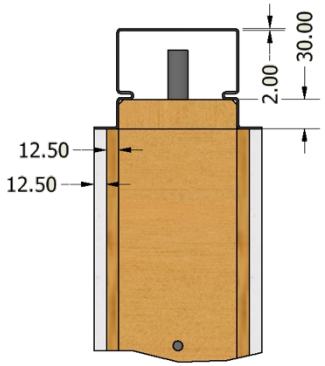
Model courtesy of: Paolo Galli

Close the material loop to further reduce impact



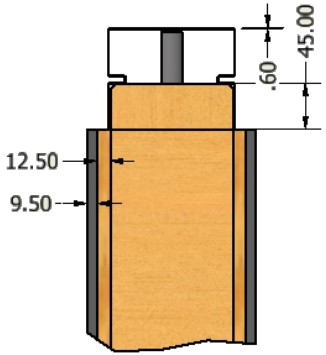
Expect to reuse

Data-driven decisions for circularity



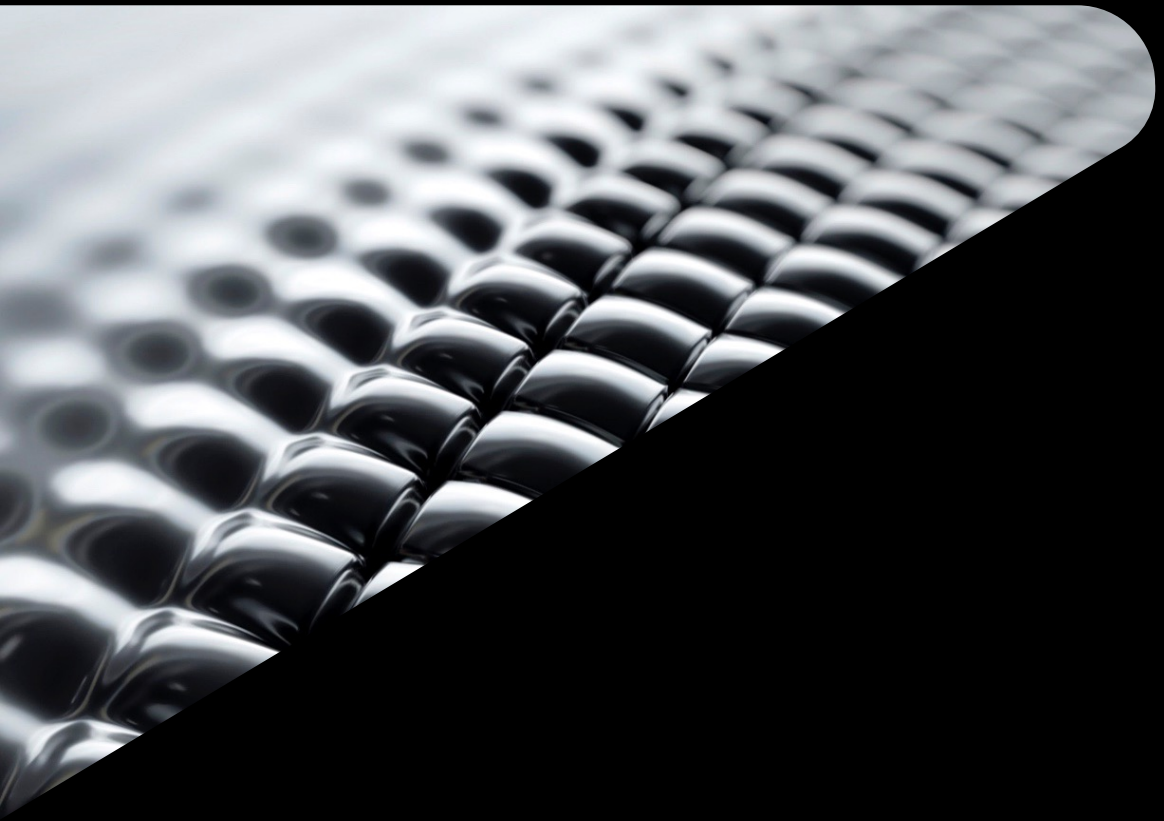
Baseline Design

12.5mm Plyboard
12.5mm Plasterboard
120 x 30mm Batten
2mm Sheet Steel



Proposed Design

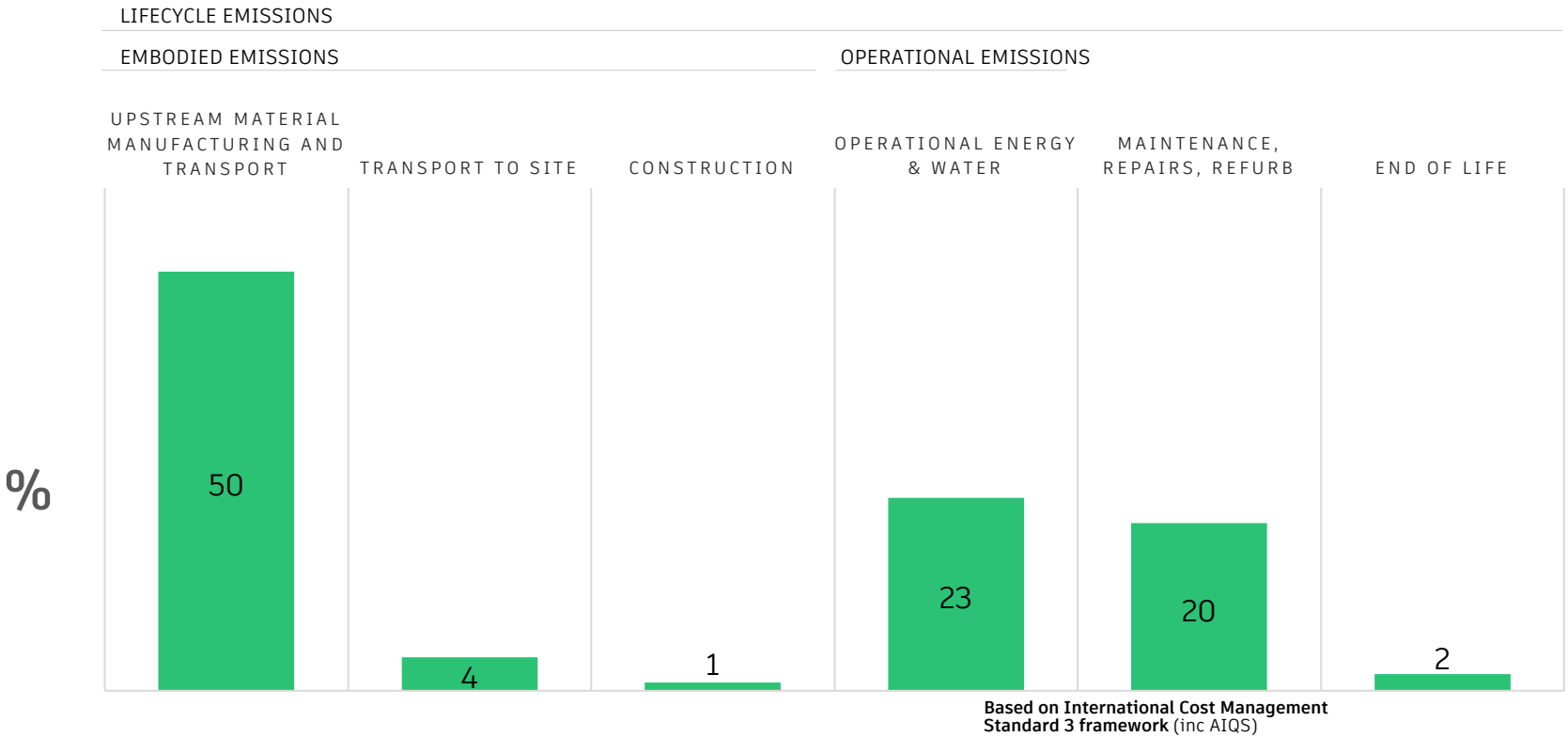
12.5mm Plyboard
9.5mm Fiberboard
120 x 40mm Batten
0.6mm Sheet Steel



BUILD

Construction emissions in context

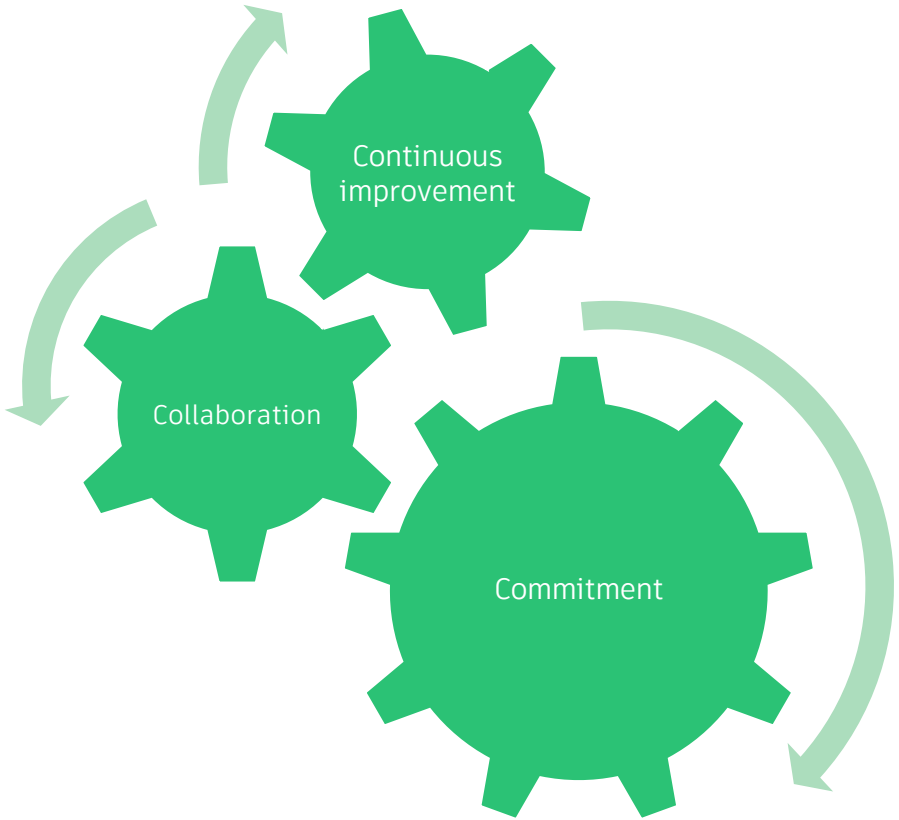
The construction phases that use the least and can influence the most



Based on International Cost Management Standard 3 framework (inc AIQS)

Mindset

Integrated management and opportunity



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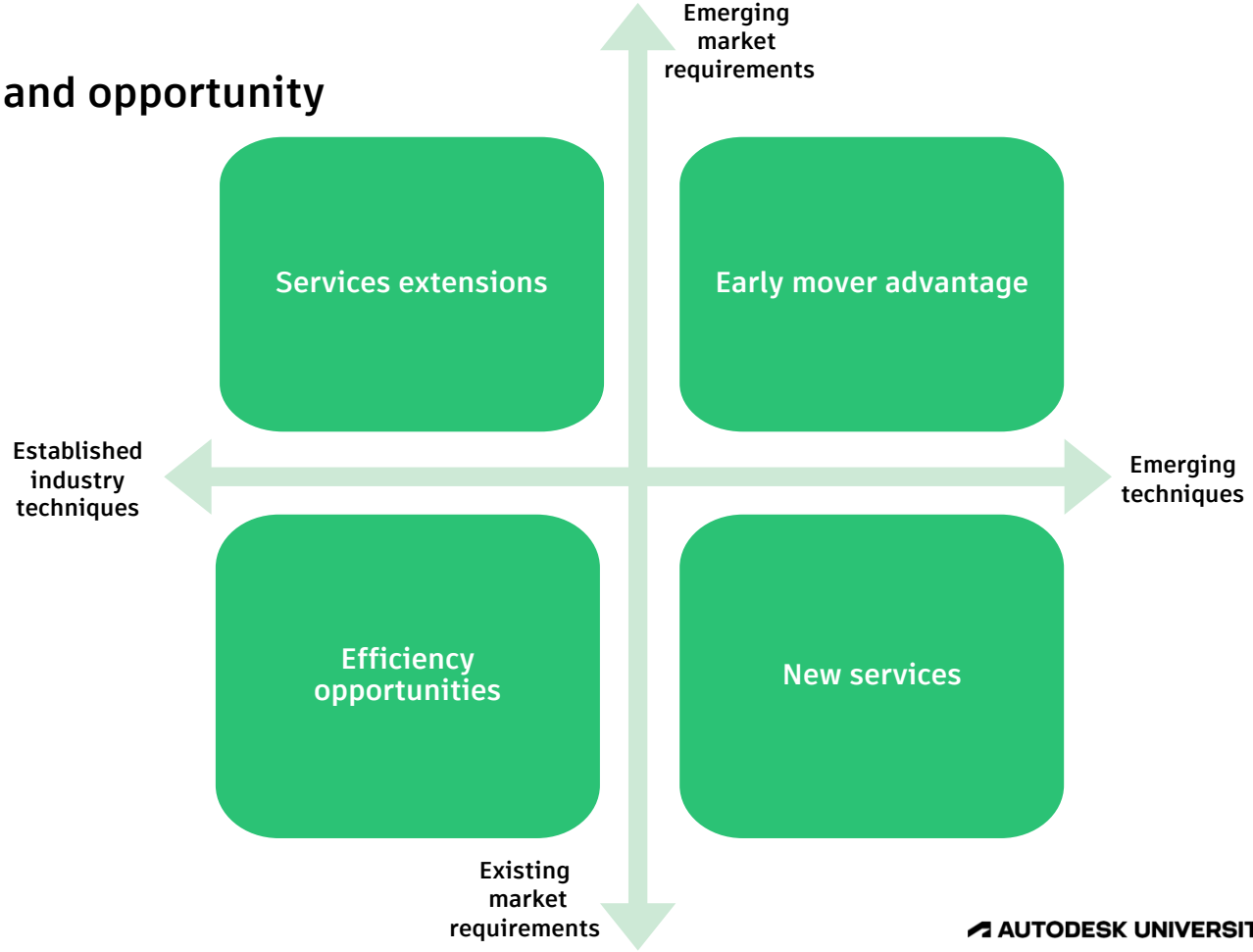
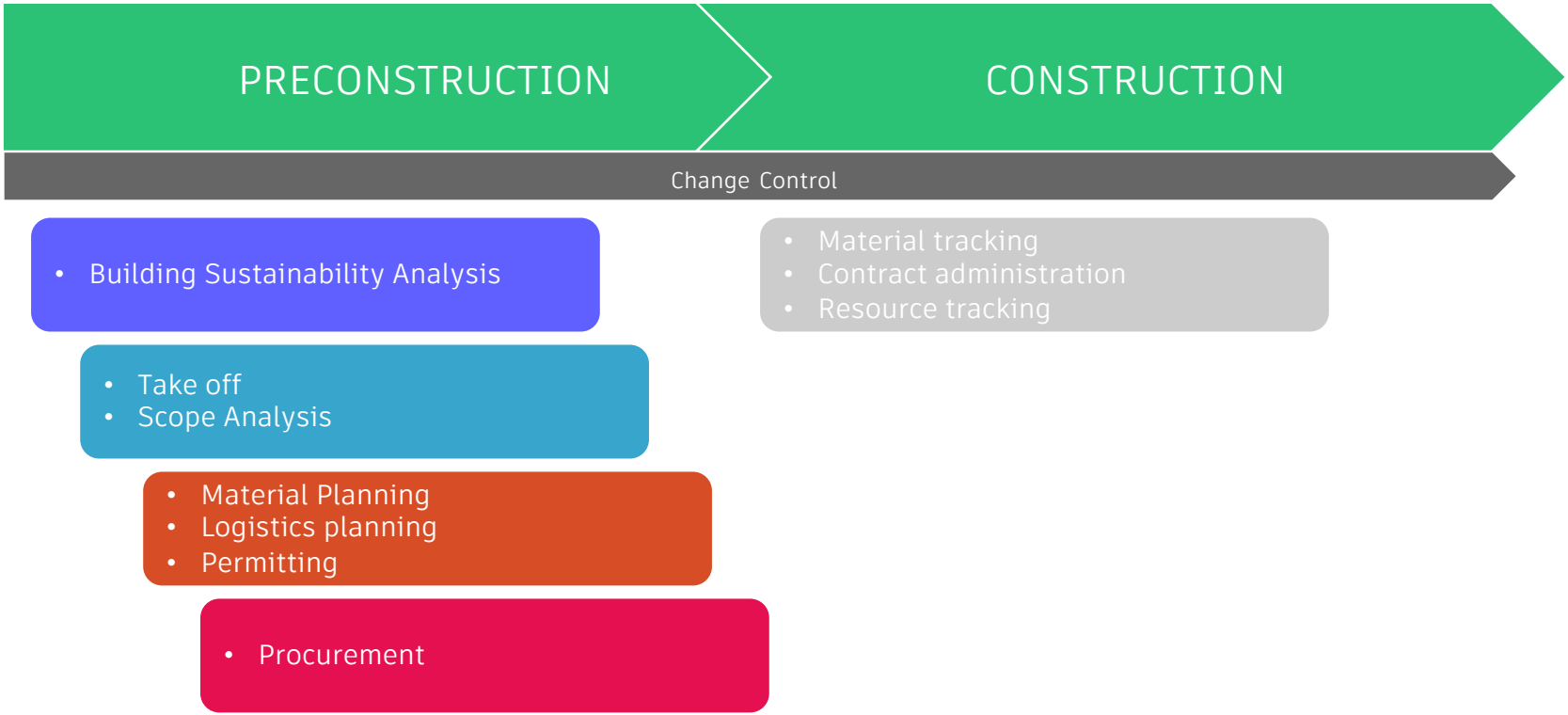
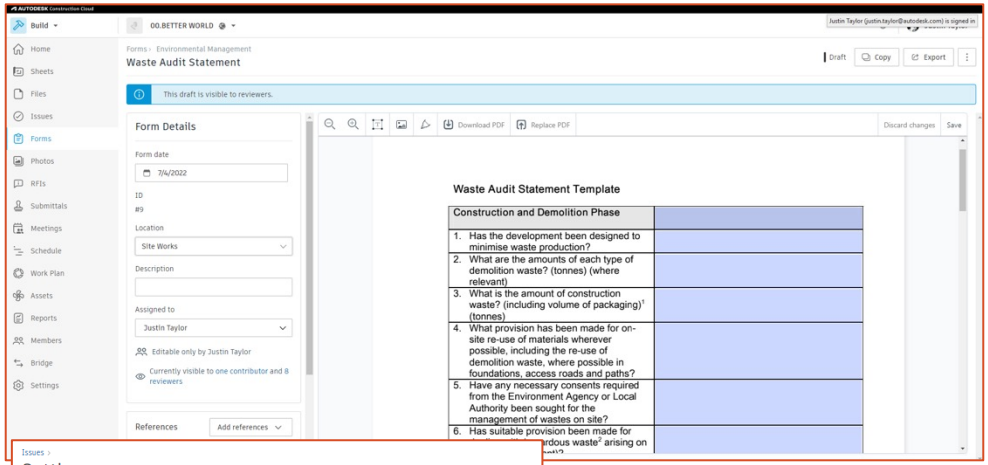


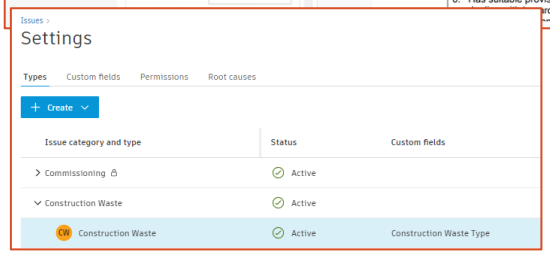
Skillsets

Effective carbon management integrates requirements into existing workflows

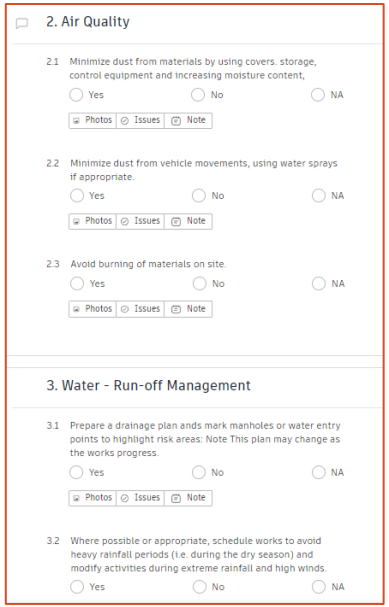


Toolsets

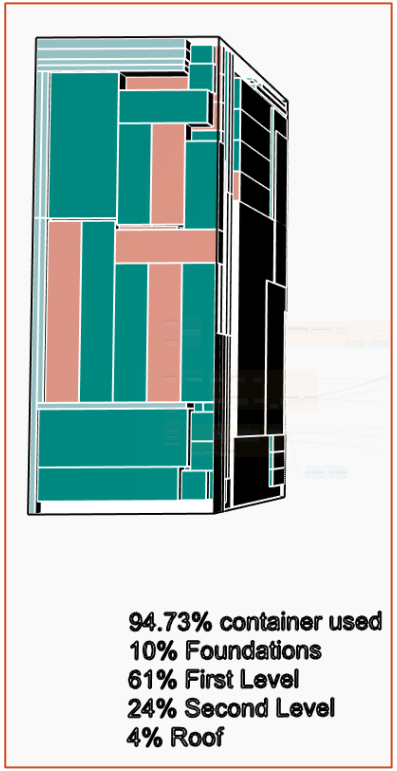




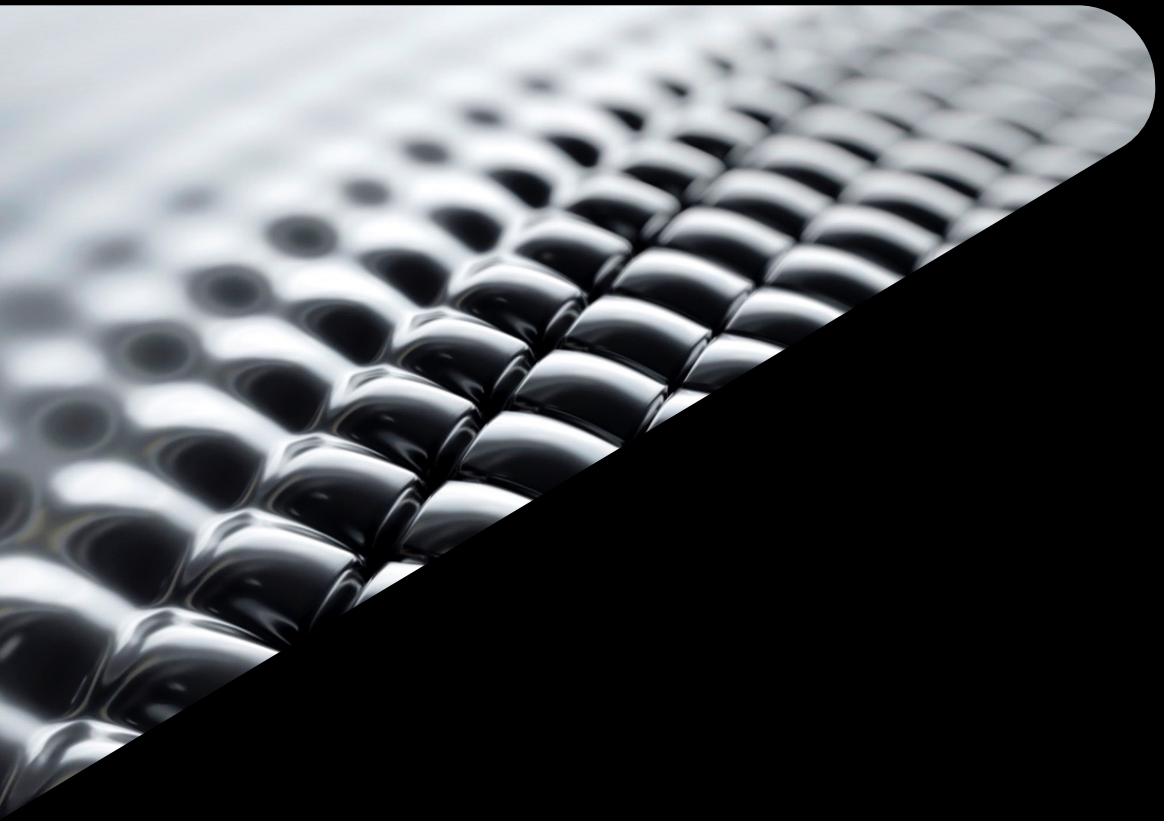
Track construction waste and automate certification documentation with custom templates in Build



Track air quality onsite with Build questionnaires



Generative design to minimize number of trips



OPERATE & MAINTAIN

Why does it matter?

AEC represents ~40% of global GHG emissions.

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Global building energy use needs to reduce by
30% by 2030 to meet Paris Agreement targets.

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~67% of the global building area that exists today
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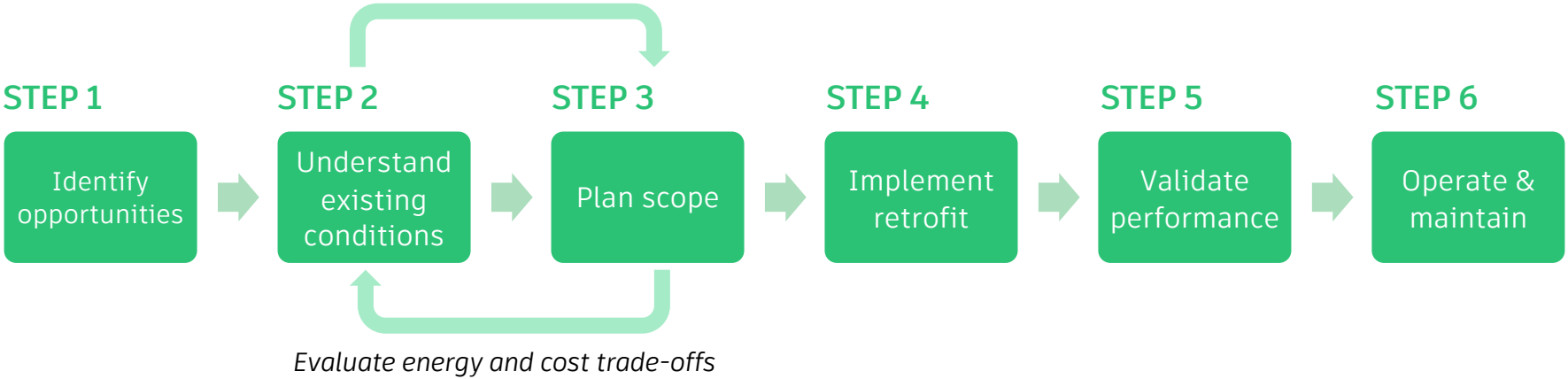
Global building energy use needs to reduce by
30% by 2030 to meet Paris Agreement targets.

Why does it matter?

~67% of the global building area that exists today
will still exist in 2040.

We can’t meet targets without
addressing existing buildings!

Simplified Retrofit Process Overview



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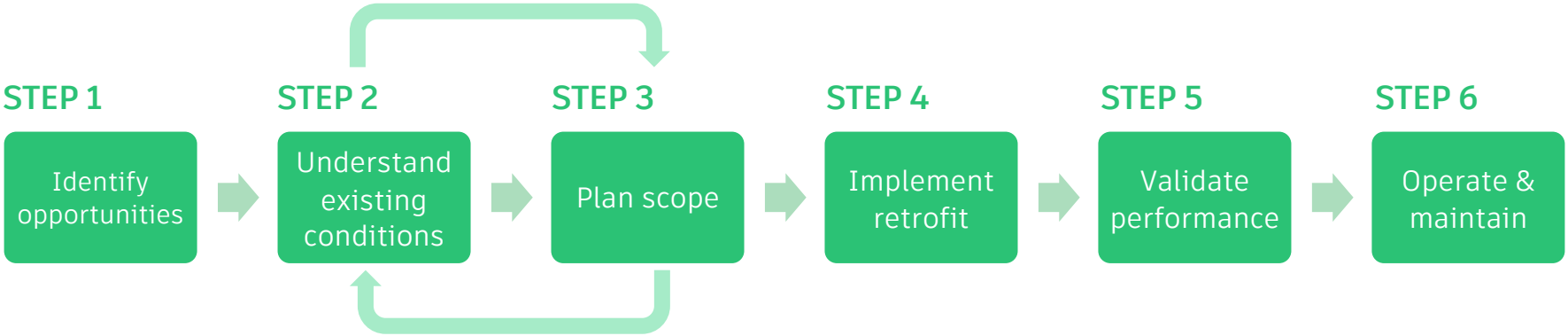


ReCap Pro

POINTFUSE

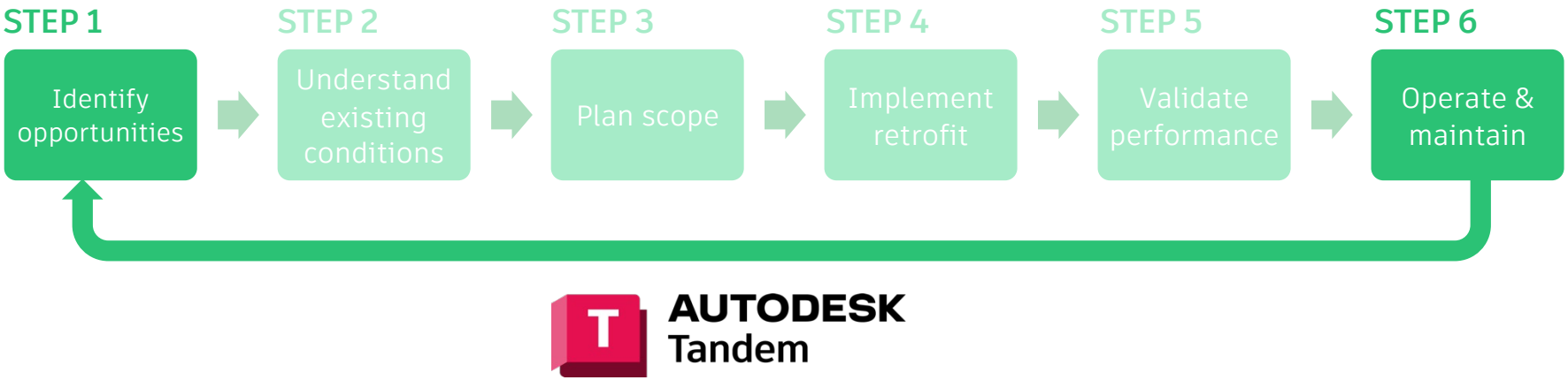
Revit 2023

InfraWorks 2023

AUTODESK CONSTRUCTION CLOUD

AUTODESK Tandem

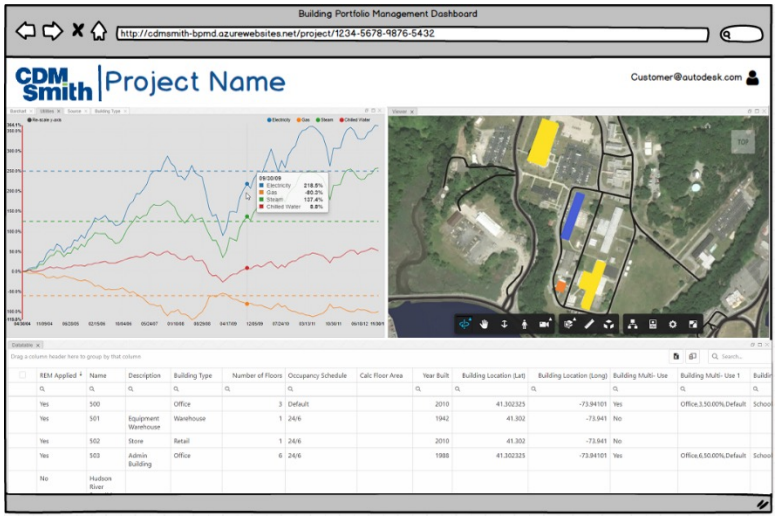
Digital Twins can create a link between O&M and opportunities for continued performance



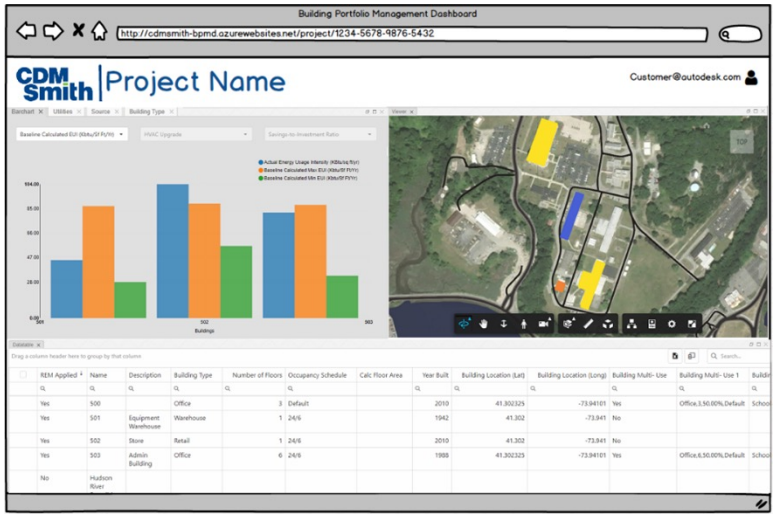
AUTODESK Tandem

Portfolio Management Solutions

Rapid Energy Modeling tool



Actual utility usage

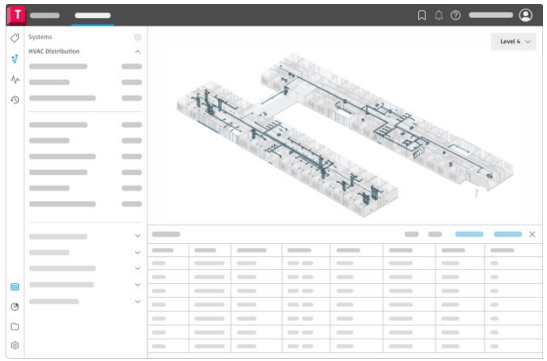


Actual EUI vs calculated min/max EUI

Tandem for Owners & Operators

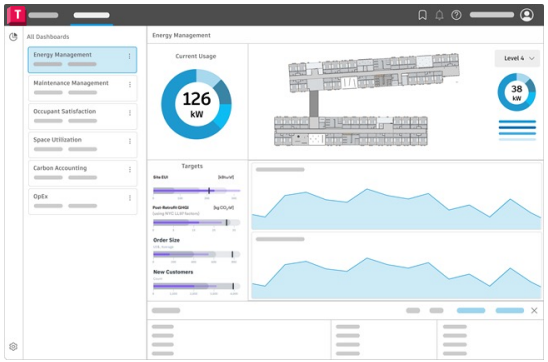
Now | Next | Later

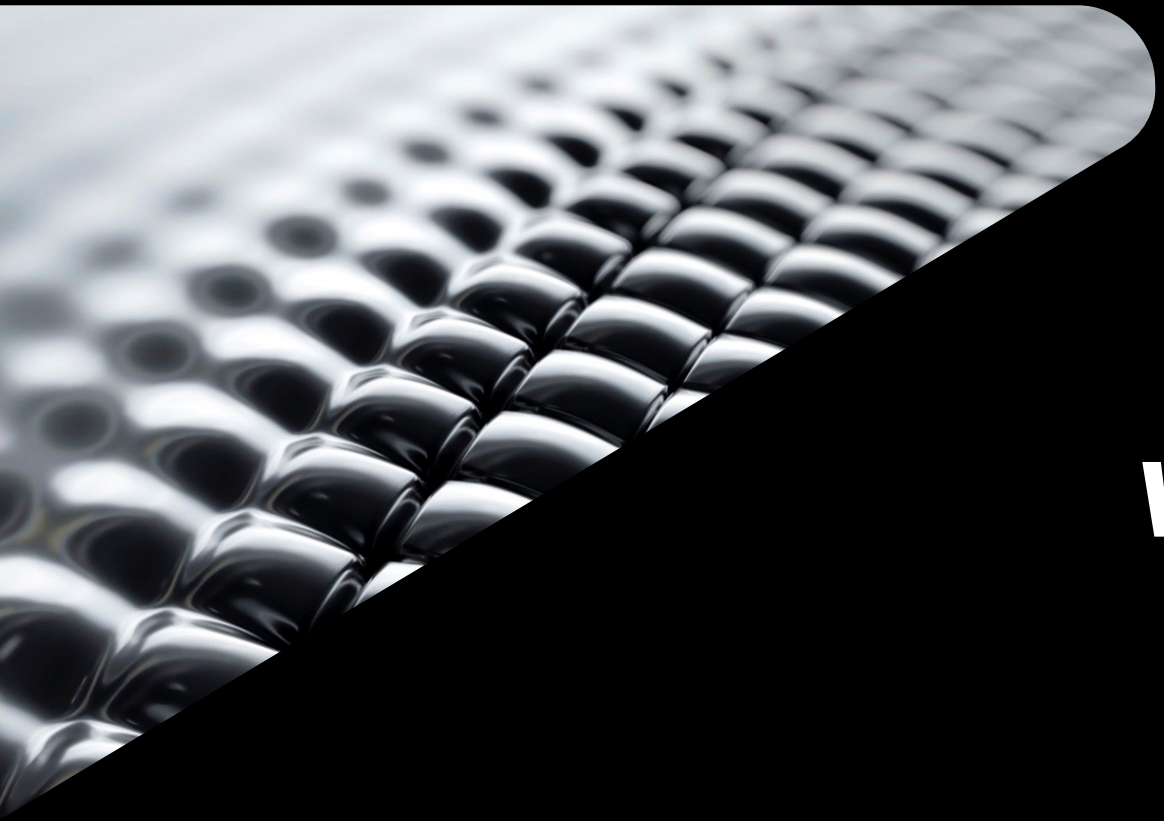
Twin Building
Descriptive Twin



Facility Monitoring
Informative Twin

Portfolio Optimizing
Predictive Twin





Work With Us

Partnering for Impact

Sustainability Solutions & Services

- Embodied carbon for buildings and infrastructure
- Construction sustainability management
- Generative design for building material efficiency
- Existing building retrofit carbon analysis
- Digital twin for building & factory operations

Q & A