

From complexity to clarity: Scaling environmental data in HVACR

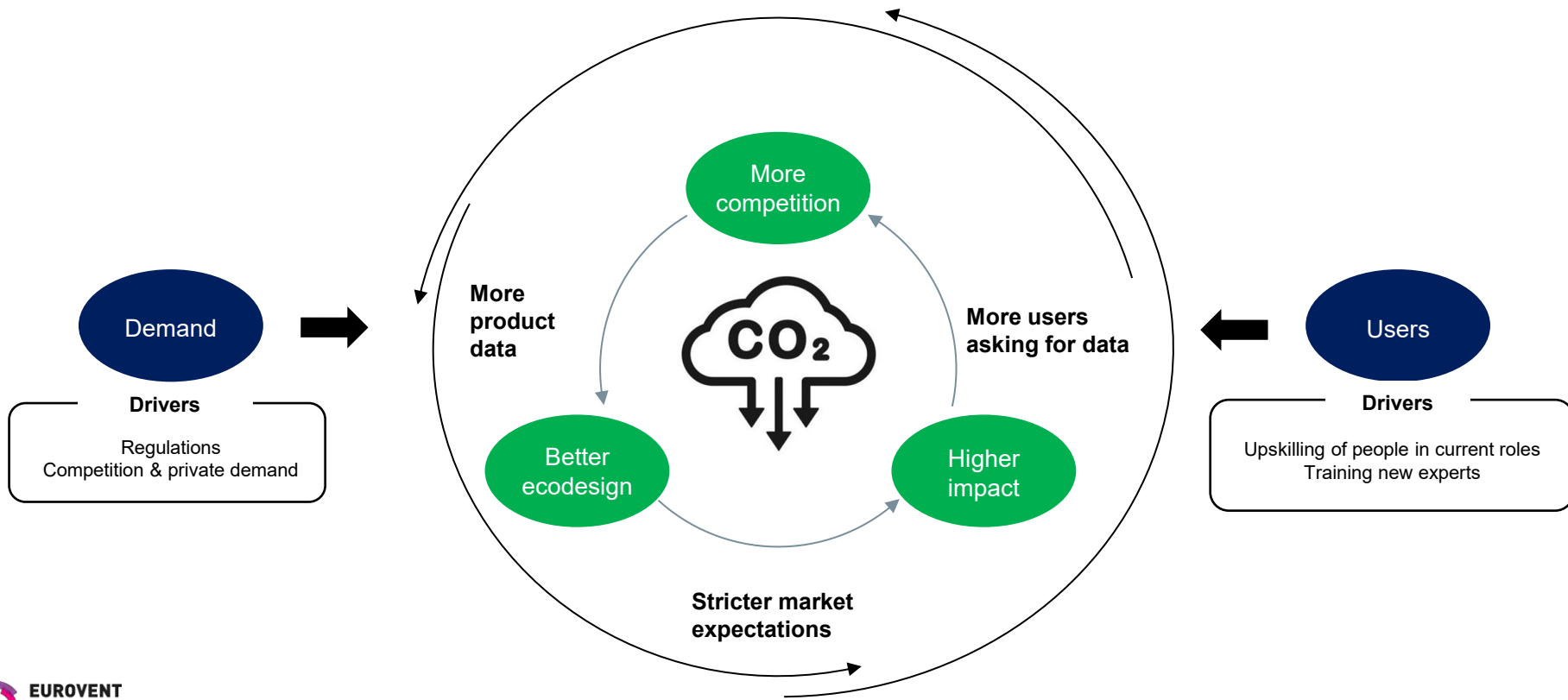
Erik Björn

Team Leader Business
Development – Nordics
One Click LCA



If decarbonization is the purpose, the industry isn't doing enough

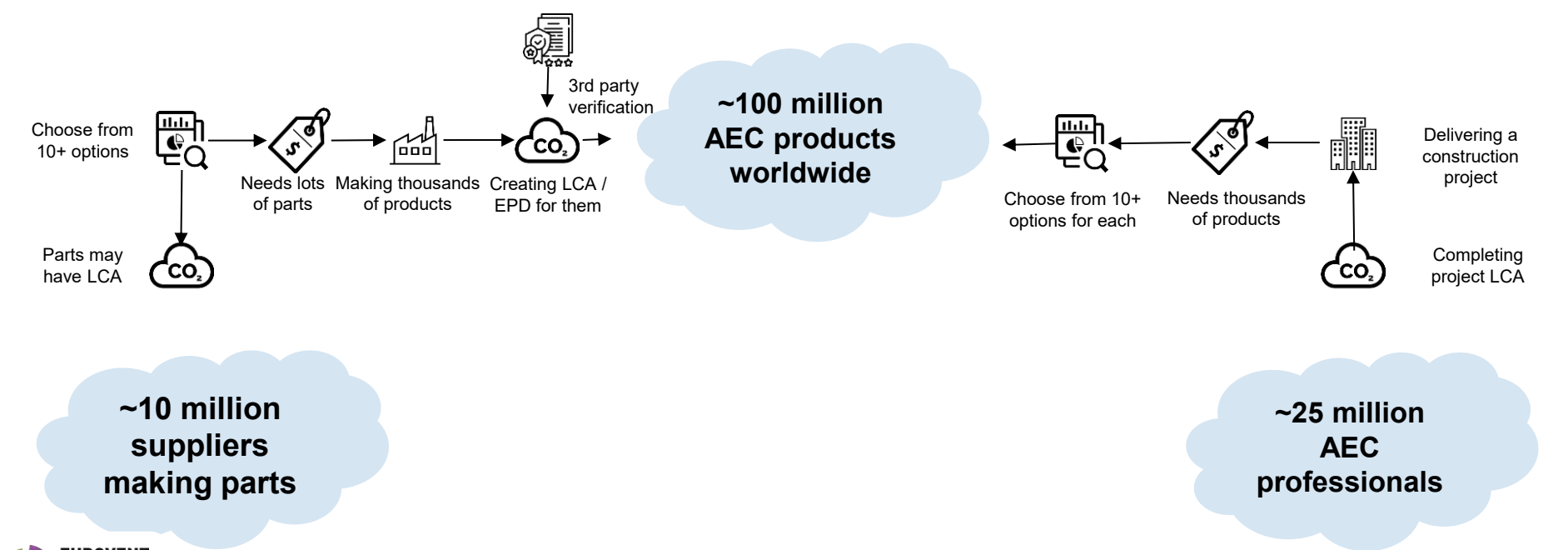
We do not have an Oil Crisis to push through the change, we have to make it happen with market forces



The supply chain from parts to products to projects is a vast one

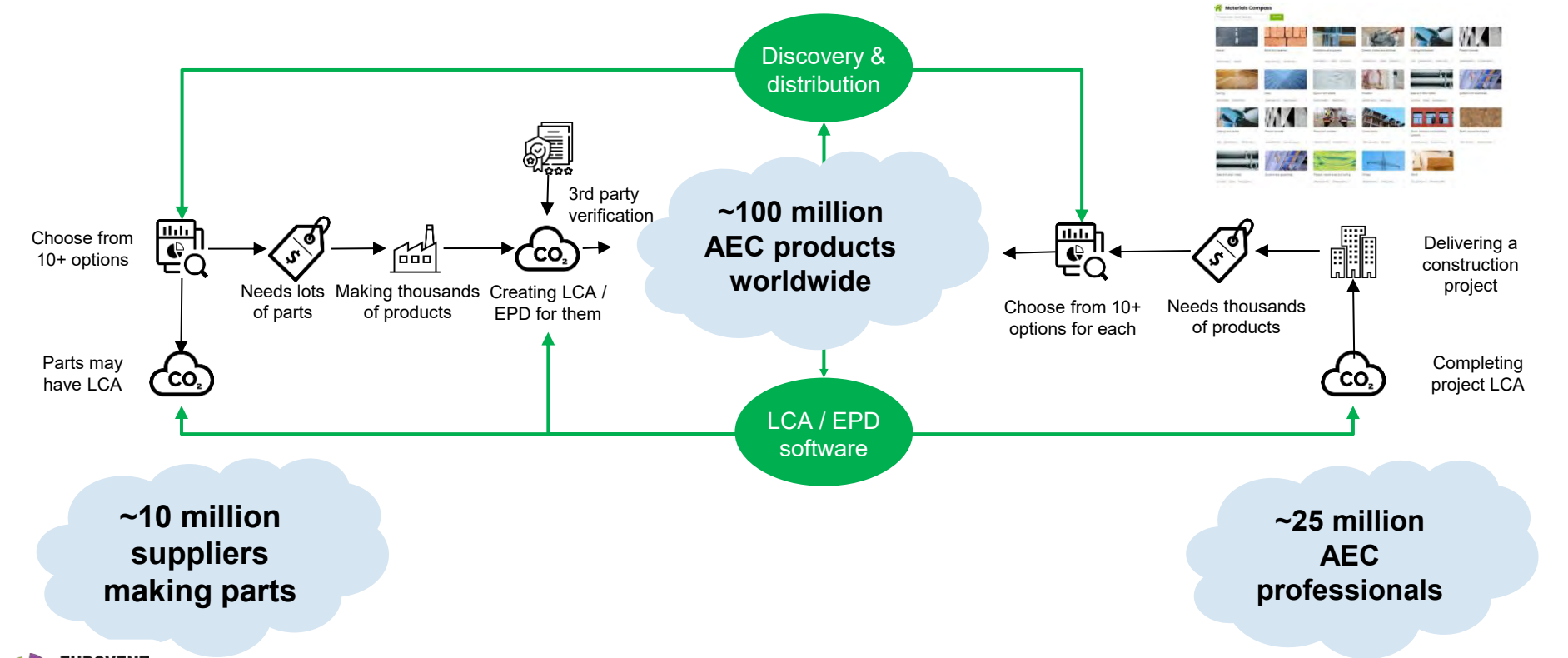


To service this, the world has some 20 000 LCA practitioners and well below 1 000 EPD verifiers



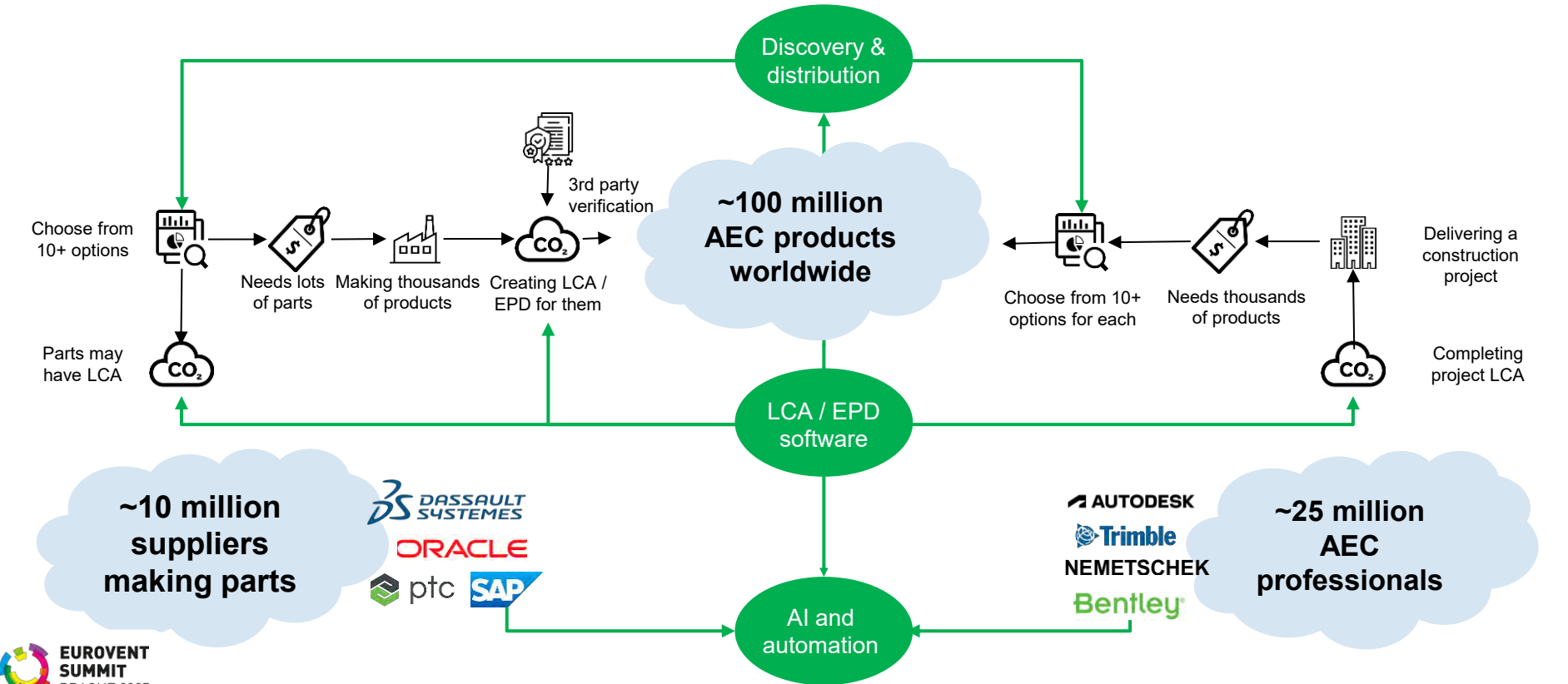
For data to reach all users, we need an end to end data flow

Sustainability data is needed by millions in easy to use format and way



The scale of this challenge requires seamless automation

In addition to integrations, we also need to leverage generative and agentic AI and other technologies



The Role of AI in Scaling Environmental Data

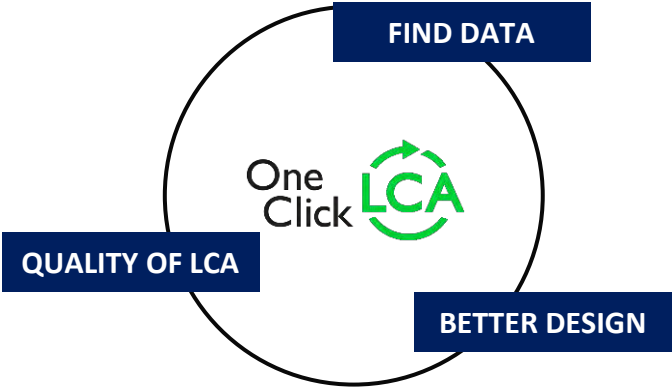
EPD COMPLETENESS CHECKER

Field	Project value (%)	Difference	Validated
Fixes recommended			
Mass balance	1.3	-0.3%	
Biogenic balancing	2.1	+1.2%	
Energy balancing	3.1	+2.1%	
In order			
Amount of materials	0.4	-0.8%	
Embodied carbon	0.4	-0.8%	
Finishes mass	0.6	+0.6%	

LCA PLAUSIBILITY CHECKER


Area	Issue	Difference	Threshold value	Unit	Validated
Fixes recommended					
Glaze mass	Unusual value	+3	<5	kg/m2	
Insulation mass	Unusual value	+2	<5	kg/m2	
External area mass	Unusual value	+2	<5	kg/m2	
In order					
Amount of materials		-1	<5	kg/m2	
Embodied carbon		-1	<5	kg/m2	
Finishes mass		-1	<5	kg/m2	

AI POWERED SEARCH





AI RECOMMENDATIONS

AI MAPPING IN 8 LANGUAGES

Gravel, dry bulk density, 1680 kg/m³ - IBU 

Report bad mapping

AI MODEL SUGGESTED DATA (13) - Our AI model provides suggestions based on the material name, and your actions will help improve recognition.

 Gravel, dry bulk density, 1680 kg/m³ - One Click LCA 

Report bad mapping

? Material name [AI] ?

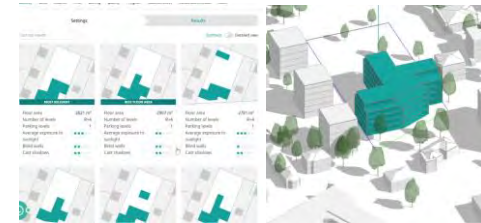
? Material name [AI] ?

? Material name [AI] ?

? System label ?

? Material name [AI] ?

GENERATIVE DESIGN

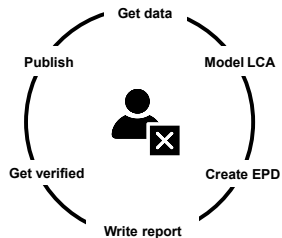


How EPDs can become faster, easier, and scalable

Simplifying complexity: opening the door to more EPD creators

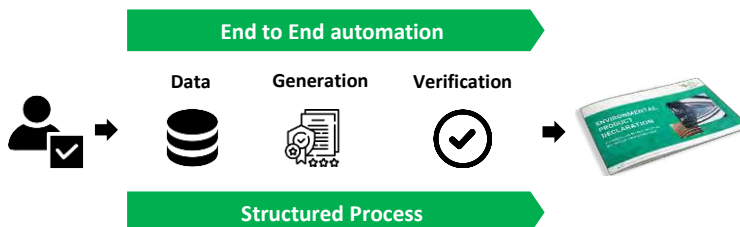
BEFORE: EPDS ARE COMPLEX

Creating an EPD is expensive & takes months



NOW: WE MAKE THEM EASIER, FASTER AND SCALABLE

Create compliant, third-party verified EPDs in a fraction of the time and cost, avoiding issues



FUTURE: EPD GENERATION VIA API

Generate EPDs automatically

```

0:
class: "PRODUCT_MATERIALS"
OCLID: "633a7209a2466359afaf6c2e"
quantity: 10
unit: "kg"
additionalInformation:
  MASS_PER_UNIT: 1
  PRODUCTION_LOSSES: 10
  COPRODUCT_ALLOCATION: 90
  epdStandardVersionAddQ: "all"
  TRANSPORT_LEG1_KM: 100
  TRANSPORT_LEG1_METHOD: "ecoinvent38_241d756d8d6e2c2"
  TRANSPORT_LEG2_KM: 50
  
```

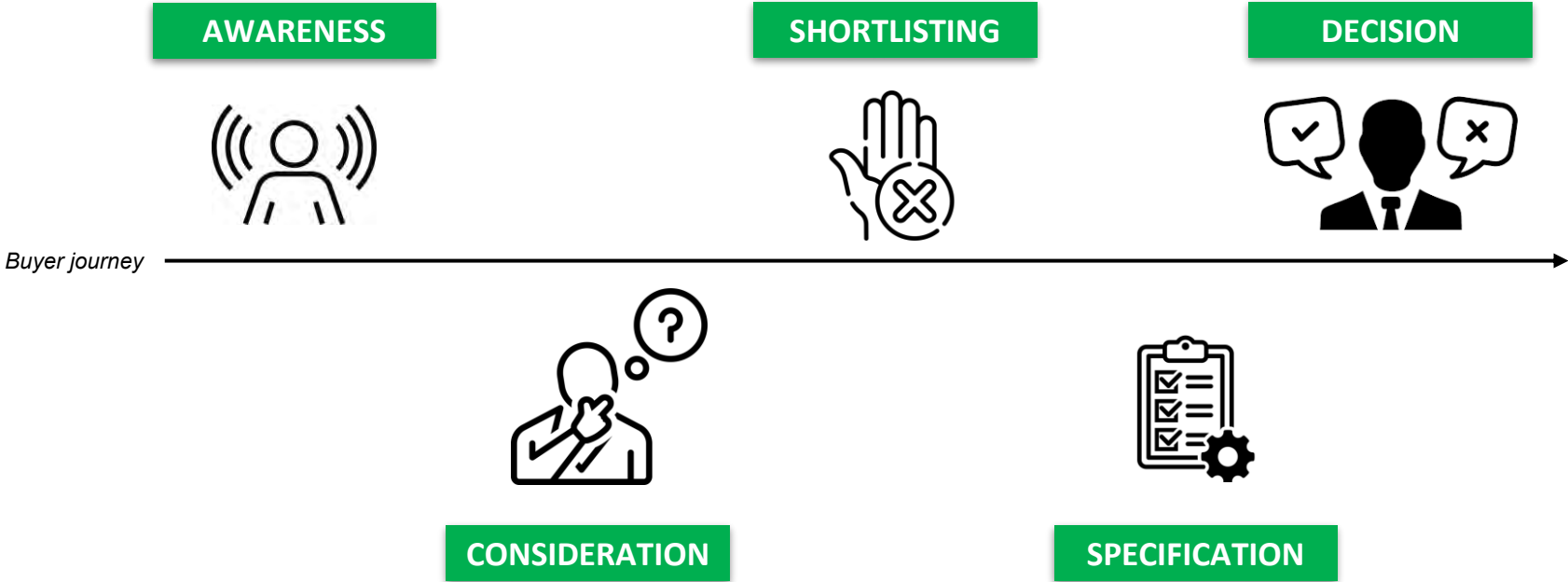
Great, you got some EPDs, now what?

Preparing the EPDs is only costing time and money - and all value is created from using them



Reach the buyers early to influence product prescription

If the only time your product is considered is at the price bid stage, your chances to win sink



The EPD data is used in different ways by different end users

Some users want to just know EPDs exist, others look at the GWP data and others use it in LCAs



ANALYSTS



MANAGERS



PROCUREMENT



DESIGNERS



CONTRACTORS



REGULATORS



SPECIALISTS



SALES & MKTING

Making EPDs available where the designers work

Autodesk Revit

LCA inside Revit (two-way) - plugin



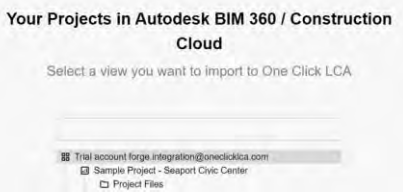
Autodesk Civil3D

Infrastructure LCA - plugin



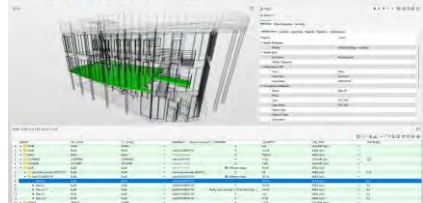
Autodesk BIM360/ACC

Import data from cloud services



Solibri

Federate IFC files for the LCA



Archicad

Export BOM - plugin



Allplan

Native integration



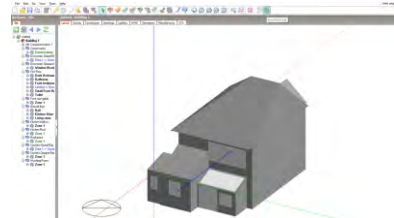
IES-VE

Native integration



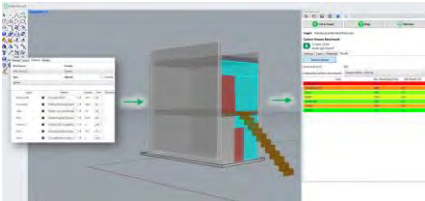
DesignBuilder

Native integration



Rhino

LCA inside Rhino (two-way)



Grasshopper

Parametric LCA capability



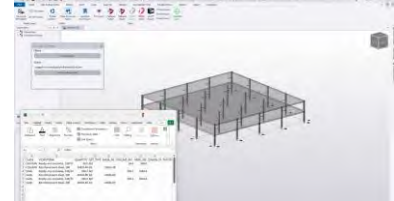
Bentley iTwin

Native integration



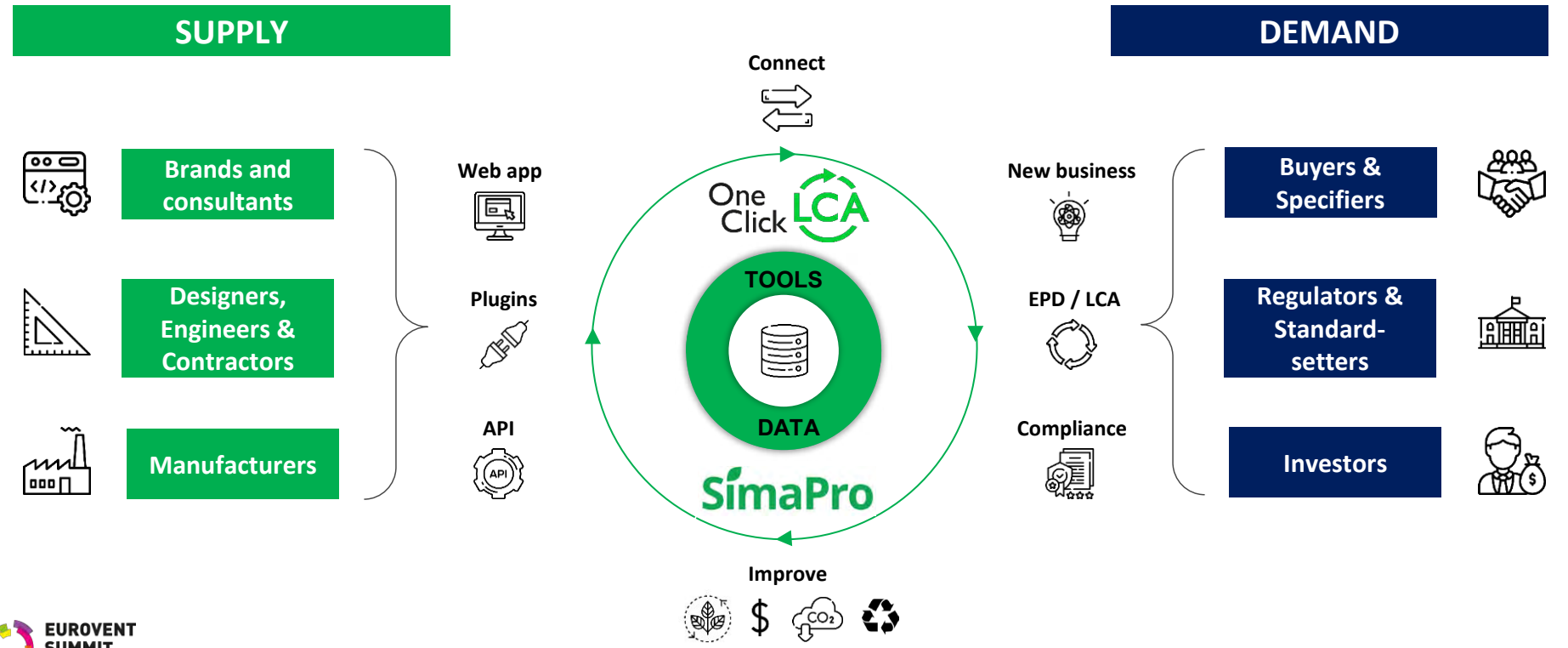
Tekla Structures

Native integration (also for TSD)



Transform your data to sustainability results for your customers

Bridging the gap between those who create data and those who act on it





EUROVENT SUMMIT PRAGUE 2025

#ManufacturingForTomorrow