

# POWERING THE MAKERS OF A ZERO CARBON FUTURE



### WORLD'S LEADING CONSTRUCTION & MANUFACTURING LCA SOFTWARE





#### **OPERATIONS**





















**MEMBER OF** 















#### THE NEED TO REDUCE CARBON EMISSIONS

THE BUILT ENVIRONMENT – WHO NEEDS TO DO WHAT?

**HOW ONE CLICK LCA CAN HELP YOU REPORT & COMPLY** 

**QUESTIONS & ANSWERS** 





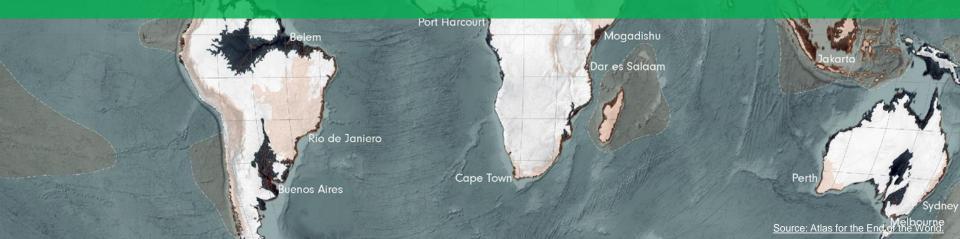
# **CLIMATE CHANGE IS CAUSING REAL, DRASTIC DAMAGE TODAY**



Climate change destroys cities, nature, food supply and lives across the world today. And without decisive action, it's only going to get worse. IPCC estimated 2100 damages exceed €50 trillion.



# OUR SEASIDE CITIES MAY BECOME SEABED IN A CENTURY



# THE GLOBAL BUILDING STOCK WILL DOUBLE IN 40 YEARS

Eurasia +1.8B m<sup>2</sup>

Western Europe +2.6B m<sup>2</sup>

North America +9.8B m<sup>2</sup>

China +5.3B m<sup>2</sup>

Japan & Korea +0.2B m<sup>2</sup>

Middle East +5.6B m<sup>2</sup>

Latin America +14.0B m<sup>2</sup>

India +25.5B m<sup>2</sup>

South East Asia +8.4B m<sup>2</sup>

Africa +25.6B m<sup>2</sup>



Australia +0.7B m<sup>2</sup>

# Embodied carbon from this expansion alone will accelerate climate change by six years



#### **CARBON EMISSIONS**





RESOURCE DEPLETION



Metals:

5 Gt CO2e / a









DESIGN, BUILD, **MANUFACTURE LOW CARBON** 

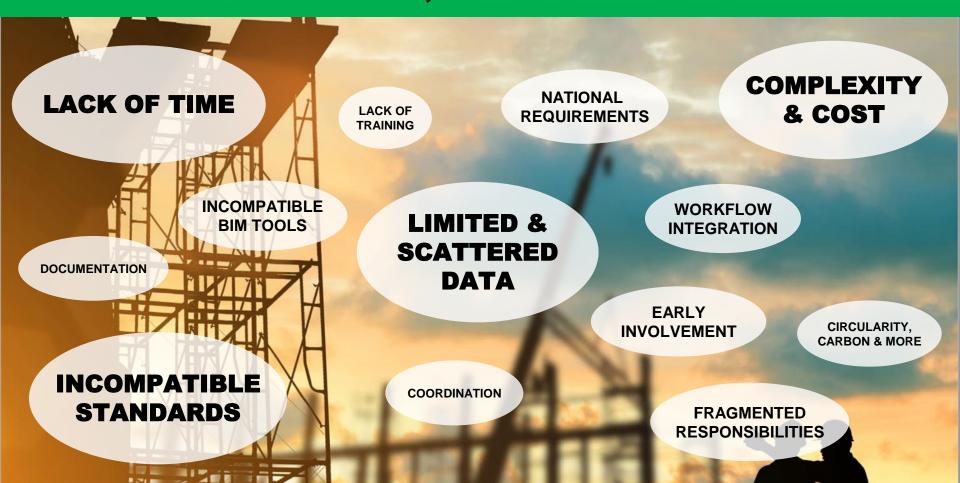
-2500 tn CO2e/a

One Click LCA

and decision makers. Source: One Click LCA



# TO HAVE AN IMPACT, YOU NEED TO DEAL WITH





# **ACT NOW TO AVOID FAILURE AND STAY COMPETITIVE**



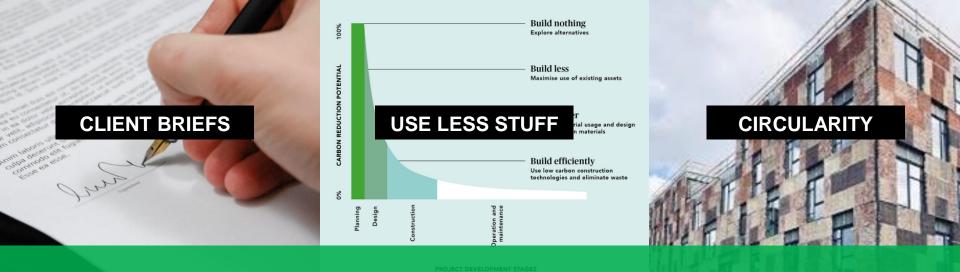
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# **ZERO CARBON DESIGN & DELIVERY – WHAT IT TAKES**



# Construction & design market requires carbon cuts



#### **EMBODIED CARBON MEANS BUSINESS**

#### Embodied carbon plays a dominant role already

of all building-related GHGs

\*\*RODAMCO
\*\*WESTFIELD\*\*

\*\*BRUDAMCO
\*\*WESTFIELD\*\*

\*\*BRUDAMCO
\*\*WESTFIELD\*\*

\*\*BRUDAMCO
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\*\*WESTFIELD\*\*

\*\*BRUDAMCO
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#### LCAs are required by regulations



#### LCAs are required by certifications













BY 2030, EMBODIED CARBON TO BE CUT BY 40 %\*

Just being 'less bad' no longer cuts it on the market









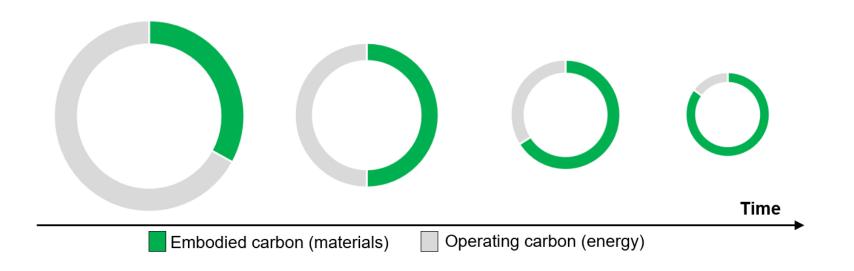
**Embodied carbon** = CO2e from manufacturing, transporting, replacing and disposing of materials

\*WorldGBC: Bringing embodied carbon upfront

# **Embodied carbon's importance grows**

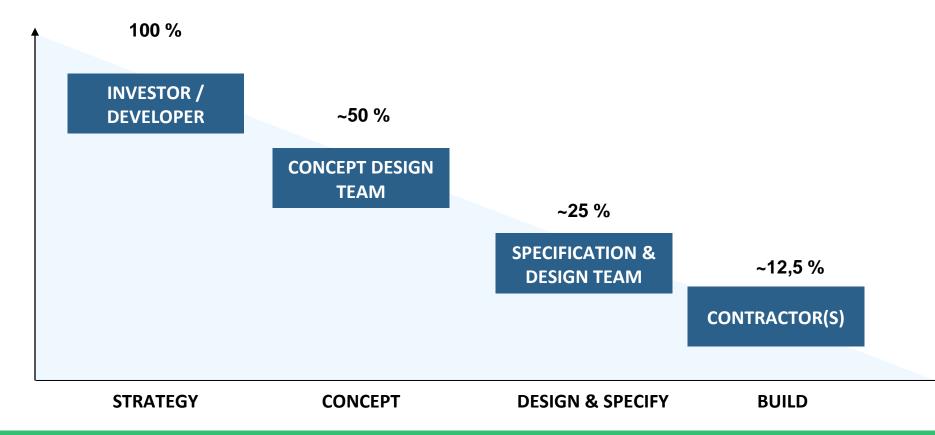


#### **EMBODIED CARBON IMPORTANCE GROWS CONSTANTLY**



# Decarbonization potential halves after each project One stage as do the chances to get better products specified Click

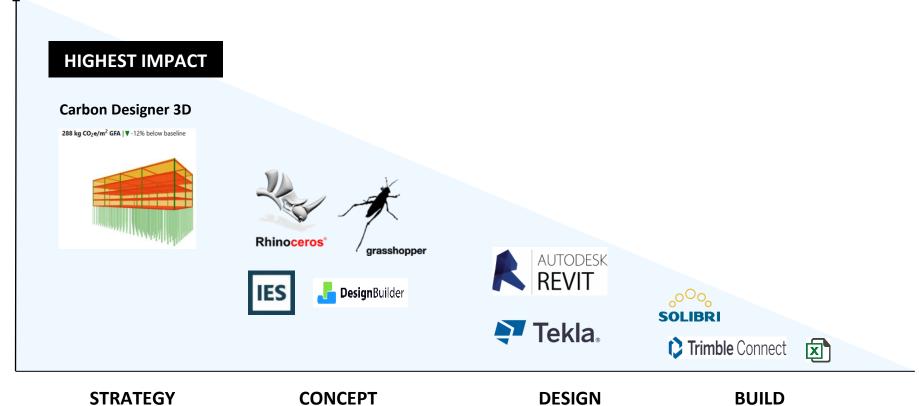




# Early decisions have the highest impact and lowest cost;







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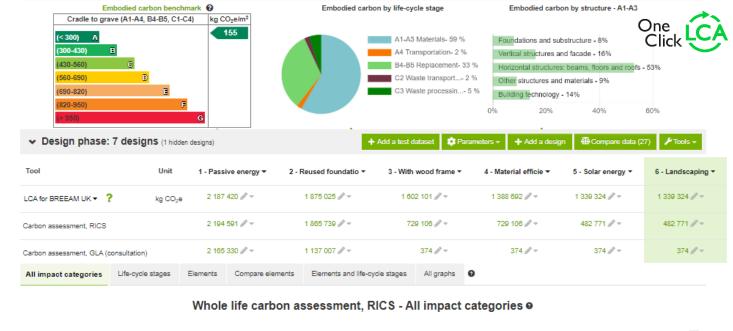


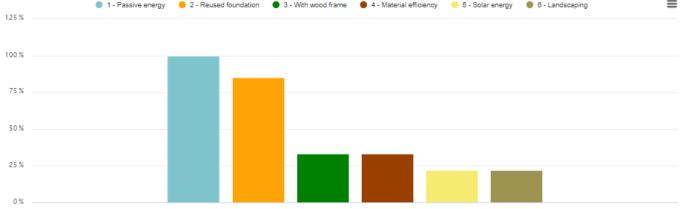






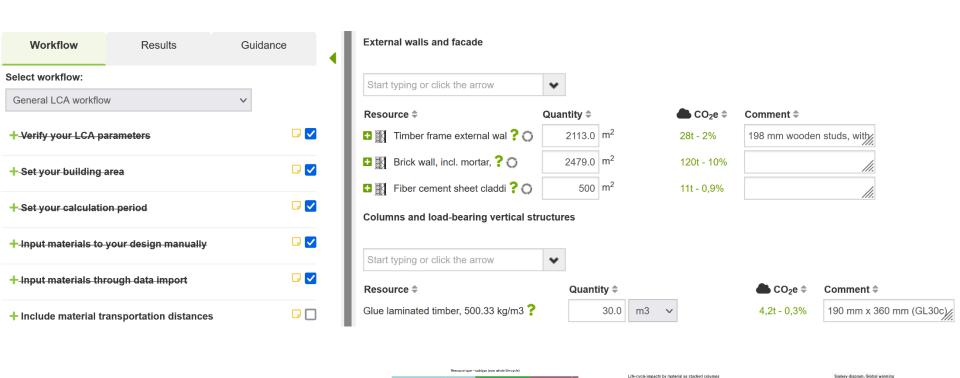
# One Click LCA is a web application





# **LCA Made Easy**

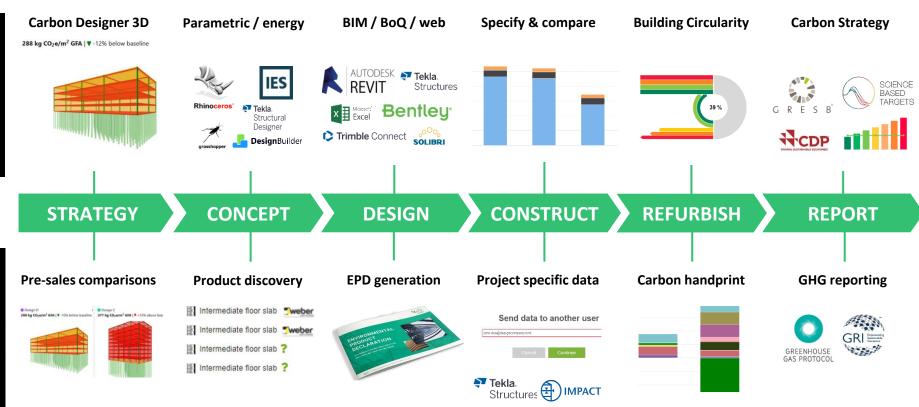


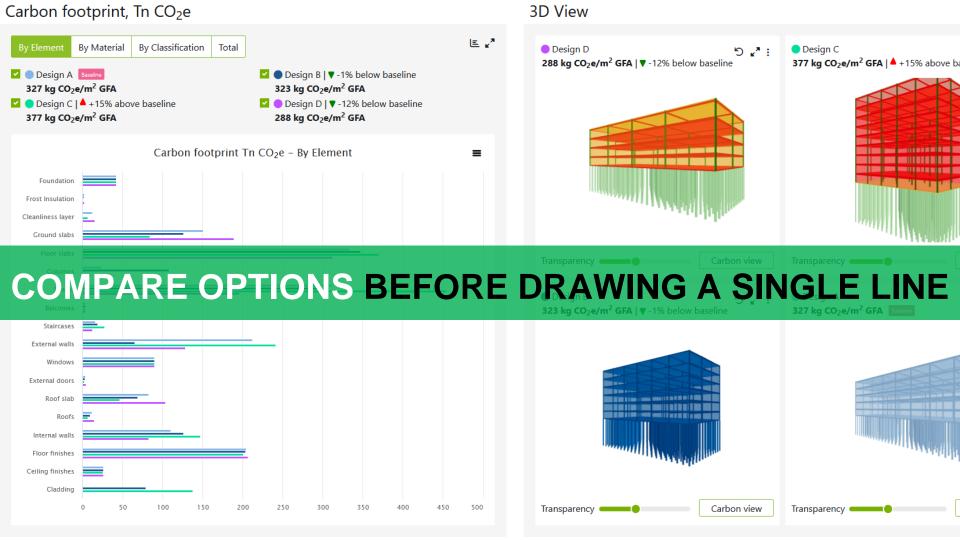




# Improve at every project phase, sharing & connecting data



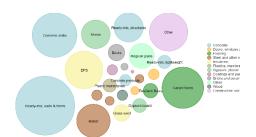




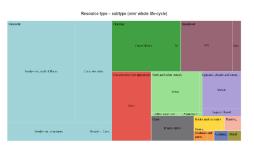
# Find, achieve and show reductions,



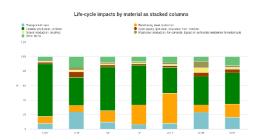
#### **IDENTIFY HOTSPOTS**

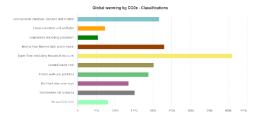


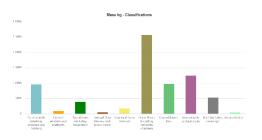
# Sankey diagram, Global warming Hyer their control and proton. Constit Adv. Constit Adv. Constit Adv. Constit Adv. Constit Constit Adv. Constit Constit Constit Adv. Constit Constit Constit Constit Adv. Constit Cons



#### **FIND OPPORTUNITIES**

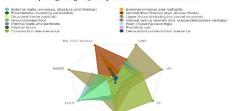




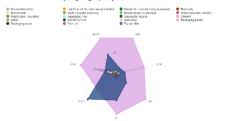


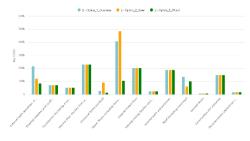
#### **SHOW YOUR IMPACT**





#### Spidergram grouped by Classification breakdown



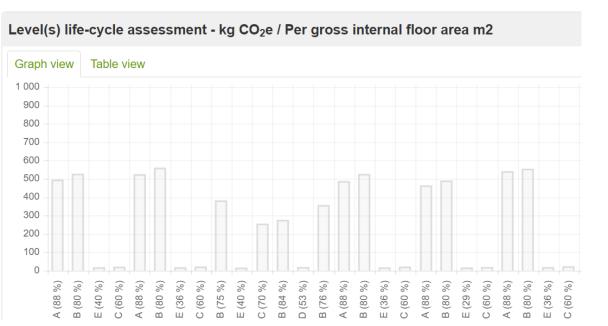


# Fully operational portfolio tools for projects



#### PORTFOLIO FOR A RANGE OF PROJECTS (NEW/REFURB)

#### **PORTFOLIO REPORT BY STAGE**



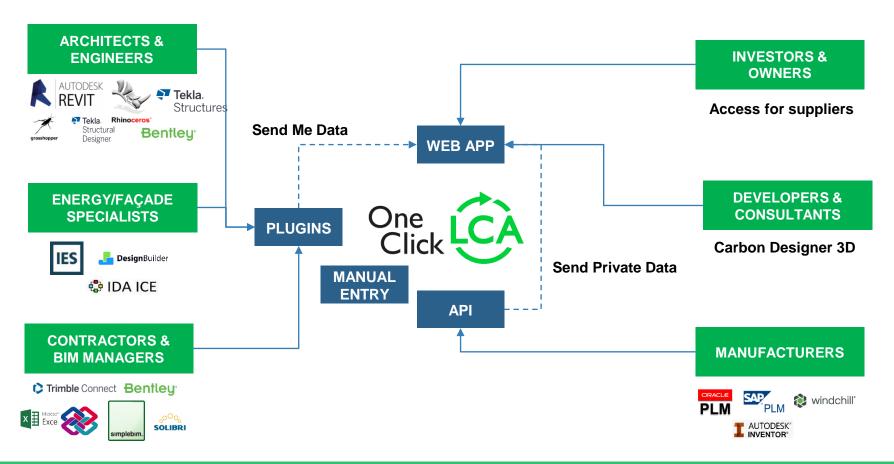
#### 齐 Baseline building portfolio - Level(s) life-cycle assessment

Level(s) life-cycle assessment

	, ,			
.ife-cycle as	sessment for Level(s) - overarching assessme	ent tool 7: Cradle to c	radle Life Cycle Assessment	(LCA
	Result category	Global warming kg CO <sub>2</sub> e ③	Biogenic carbon storage kg CO <sub>2</sub> e bio ②	O
A1-A3	Construction Materials	1E7	9,56E5	
44	Transportation to site	2,97E5		
A5a	Site operations & site waste handling			
A5b	Site waste transportation			
A5	Construction/installation process			
B4-B5a	Material replacement - materials	2,56E6		
B4-B5b	Material replacement - transport	2,03E4		
B4-B5	Material replacement and refurbishment	2,72E6		
B6	Energy use			
B7	Water use			
C1-C4	End of life	6 11F5		

# Bring your data seamlessly on board from any source













## **ALL THE WORLD'S LCA DATA QUALIFIED & UP TO DATE**















# **SUPPORTING LOCAL REGULATIONS & CERTIFICATIONS**

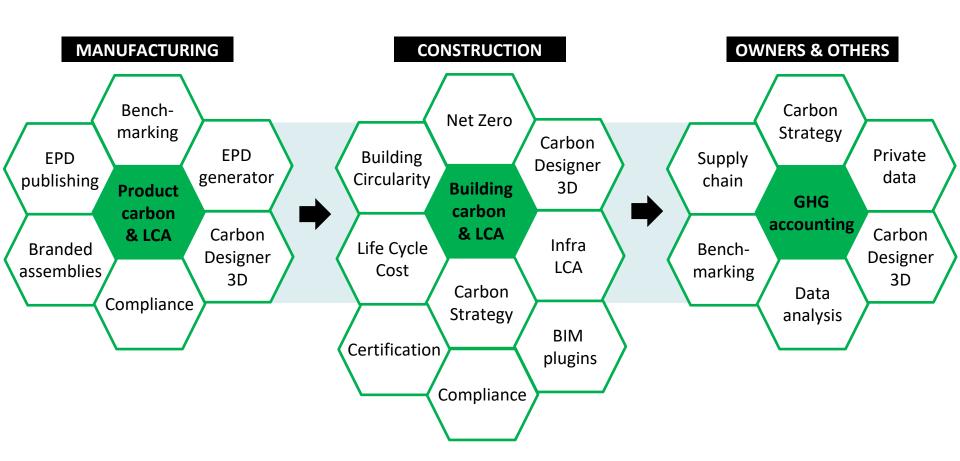






# Tools for all your needs and a seamless data exchange





# **DECARBONIZATION IS NECESSARY**

**TRAINING & TOOLS FOR ALL** 

**RESEARCH & POLICY FOR ALL** 

**EXPERT SUPPORT FOR YOU** 









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