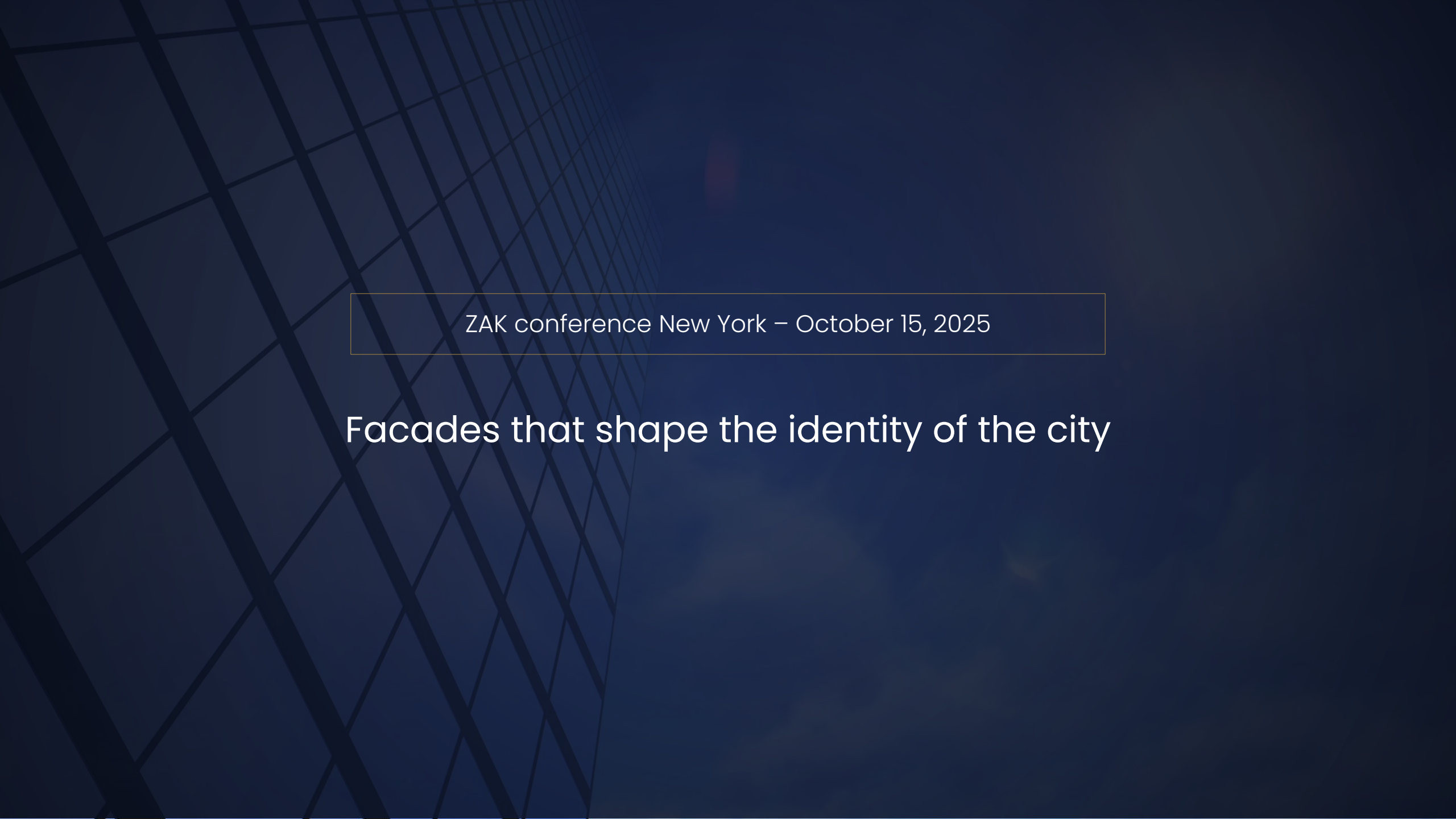




ZAK conference New York – October 15, 2025

Facades that shape the identity of the city

Hybrid steel
curtain walls,
the long-awaited
disruption in
the market?

Eric Claeys, ir MSc MBA

Co-founder Fassada Steel SA



*Patented in
over 70 countries*



Fassada Steel SA. Who?



Belgian engineering



Swiss manufacturing

Latest façade technologies & construction trends

Topics

1. Disruption means cost savings
2. The market needs disruptive solutions: hybrid steel curtain wall
3. USP's of hybrid steel
4. Drastic reduction of CO₂ emission & energy consumption
5. Comforting answer for air pollution in cities
6. Circularity
7. Shorter execution times
8. Social sustainability
9. External claddings
10. "keeping the sun out"
11. Fire resistance

Disruption means cost savings



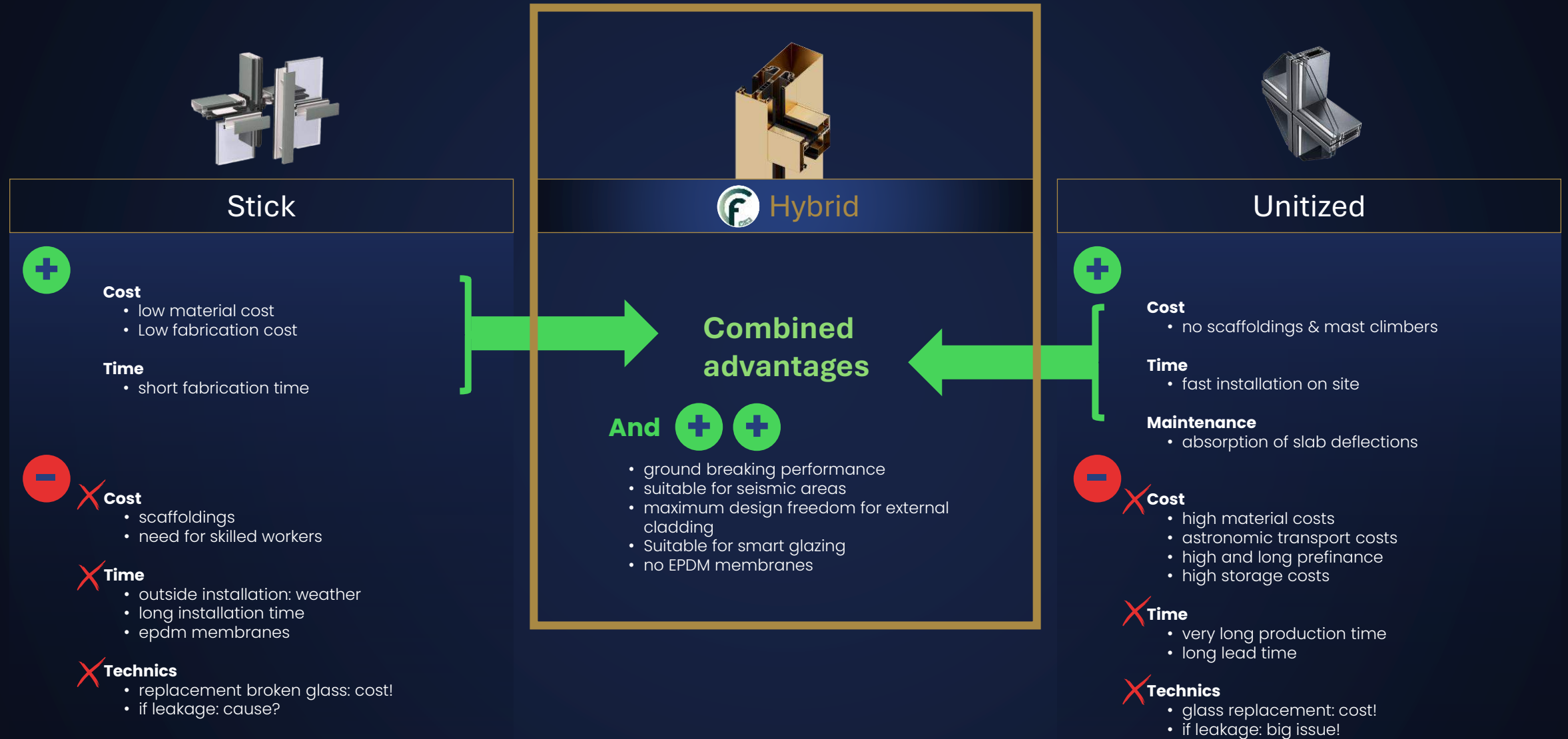
At the end of the day, it's all about money

Garry Kasparov



Disruption & cost-saving efficiency goes hand in hand

The market needs disruptive solutions: hybrid steel curtain wall



Fassada hybrid not only combines the best of both worlds, stick and unitized, but adds a long list of further USP's

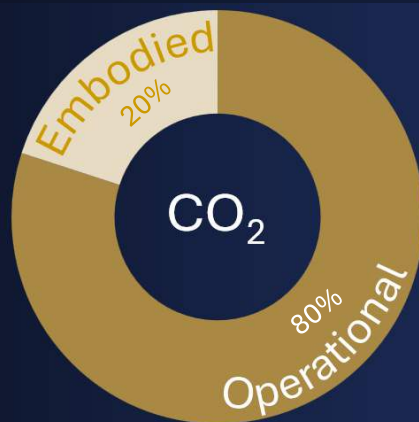
USP's of hybrid steel



Hybrid
steel

- 10 times less CO₂ emission compared to aluminium
- steel = green
- ease of fabrication: no welding required
- no issue of circularity
- fire resistance
- strong and structurally sound material
- competitive with stick aluminium systems
- significantly more economic than unitized aluminium systems

Drastic reduction of CO₂ emission & energy consumption

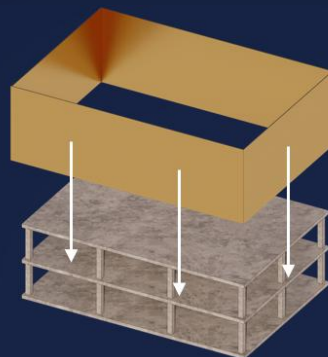


**CO₂ emission
conventional building**

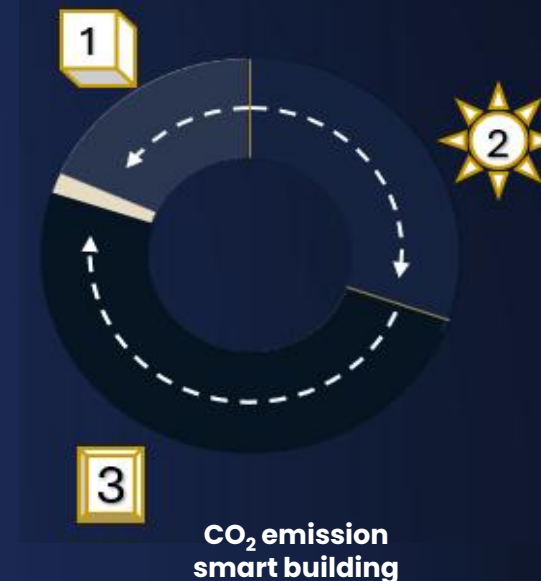
Embodied CO₂ **20%**

Operational CO₂ **80%**

Reduce the energy need



The façade is the physical barrier
between inside & outside
climate.



2%  aluminium --) steel 10x less

0%  50% balance: by archi. PV panels

 30% reduction: keeping the sun out

Green products are nice, though it's a side issue here.

The real challenge is to tackle the **80% of the operational CO₂ emission** ... by **a smart façade**

Energy costs – Keeping the sun out, a question of interpretation...

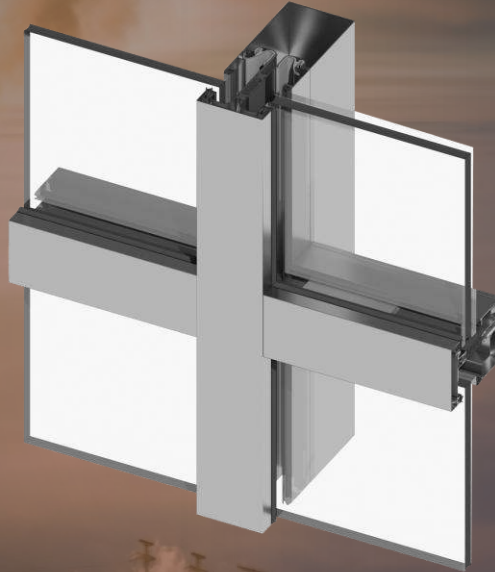


Common sense approach



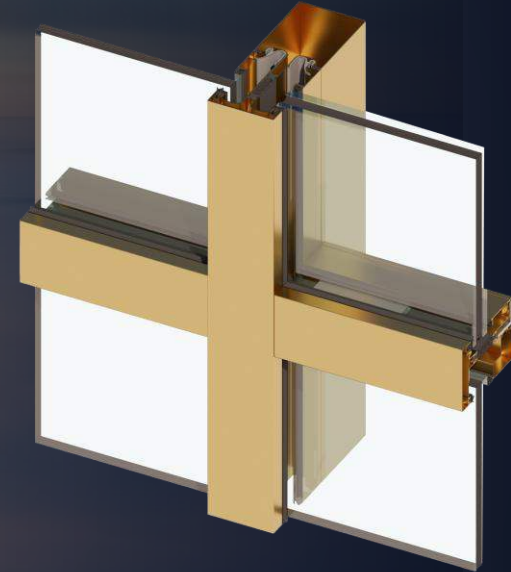
**BREEAM Gold building
but ... a real energy monster**

Comforting answer for air pollution in cities



HS75-hybrid steel

- Galvanized steel system
- Powder coated or wet painted

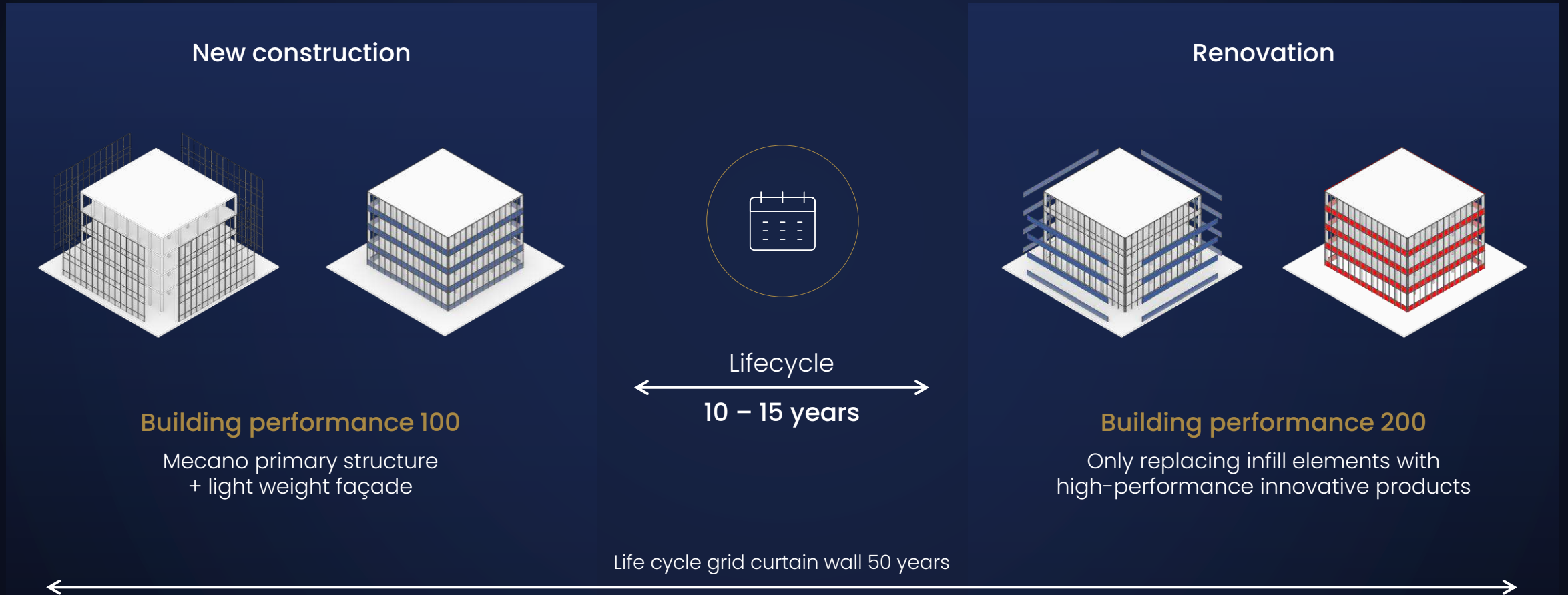


HS75-hybrid stainless steel

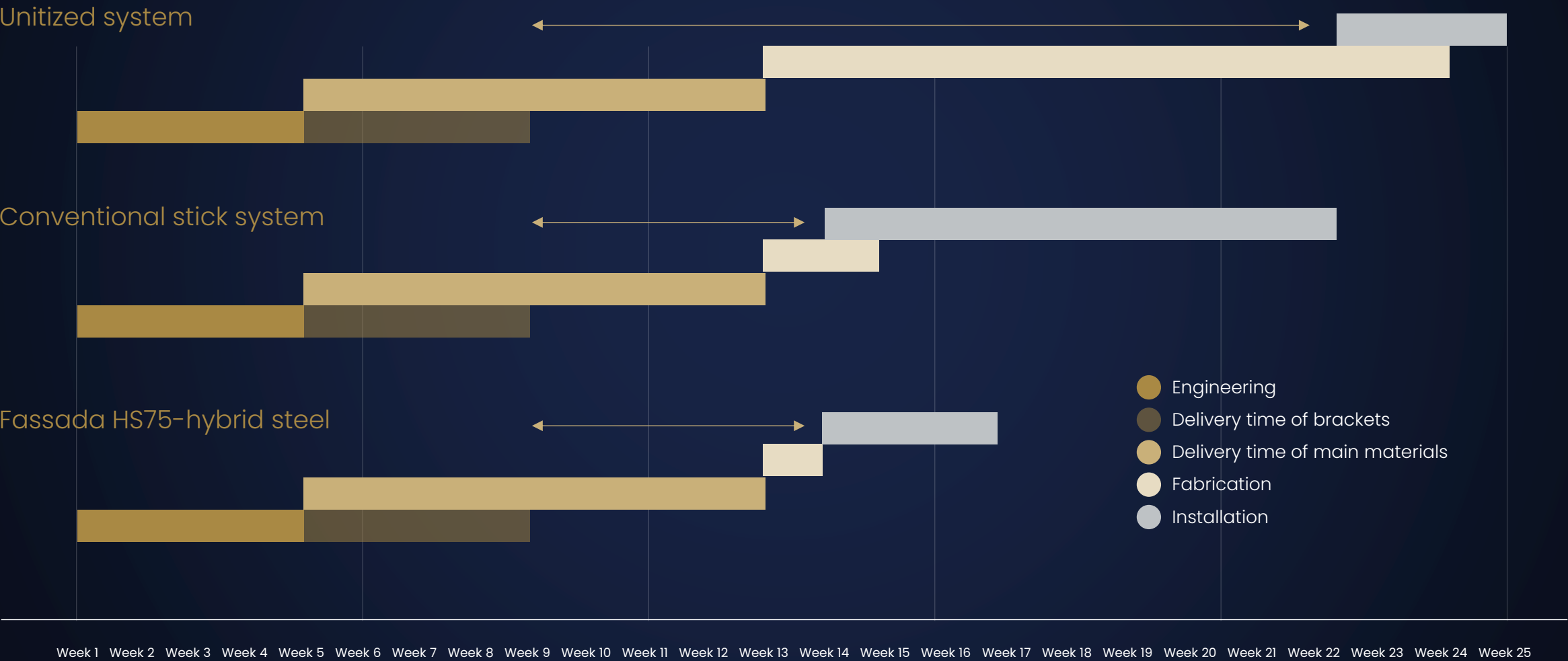
- Stainless steel system
- Inside 304L – Outside 316L

Circularity & future renovation: the need for a flexible skin

As the façade grid is not a disposable product ... the best circularity is no circularity!



Shorter execution times



Social sustainability

Our smart technology is fit for low-skilled workers.

- straightforward & simplified solutions
- Easy implementation, even for workers with minimal training

We do everything we can to minimize risks.

- easily installable from the inside
- Ensuring the safest possible implementation



External claddings

External claddings?

Never been this easy to install and this technically outstanding



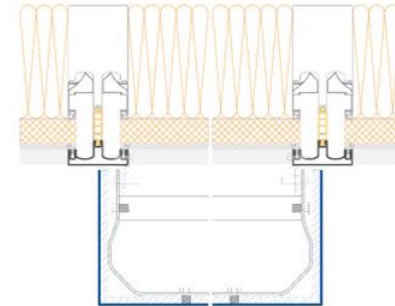
Full installation & glazing from inside



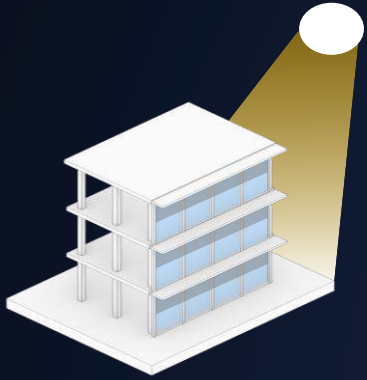
Perfect uninterrupted shield



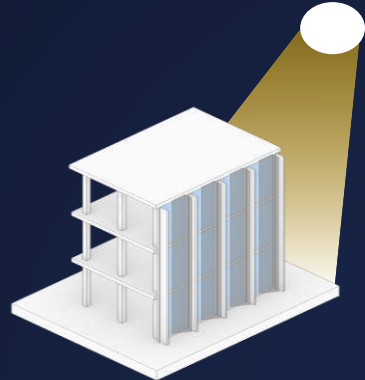
No silicone, no membranes



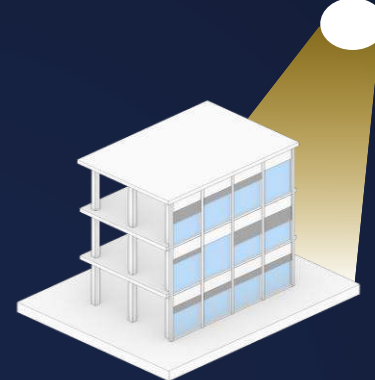
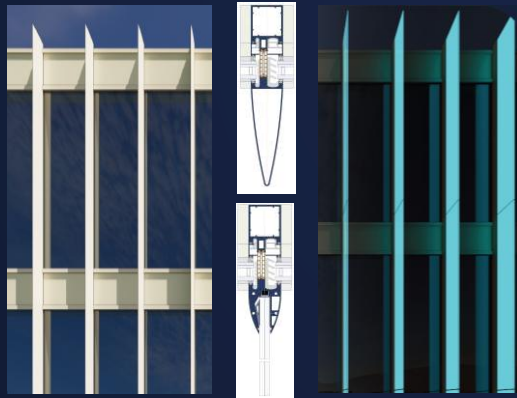
Keeping the sun out – Fassada patented smart solutions



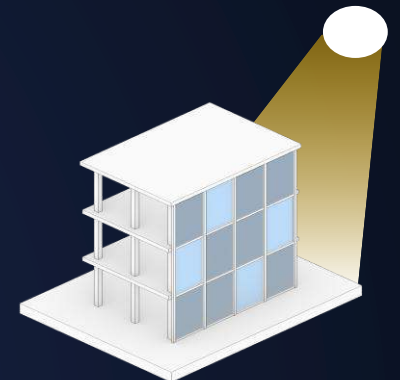
Horizontal louvres



Vertical louvres



Sunshading screens



Smart glazing



Fully secure installation from the inside – it's in our DNA.
Keeping the sun out is our mission.

Fire resistance

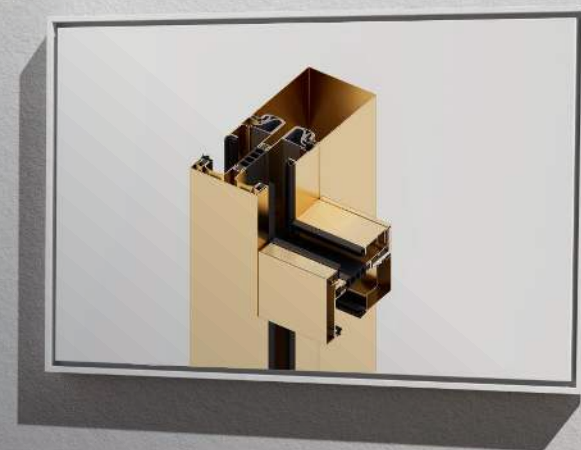


HS75-hybrid steel curtain wall systems

Real fire resistance. Tower inferno belongs to the past, once and for all



First we think,
then,
we think to last.





*Dear ladies and gentlemen,
I thank you for your attention.*



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