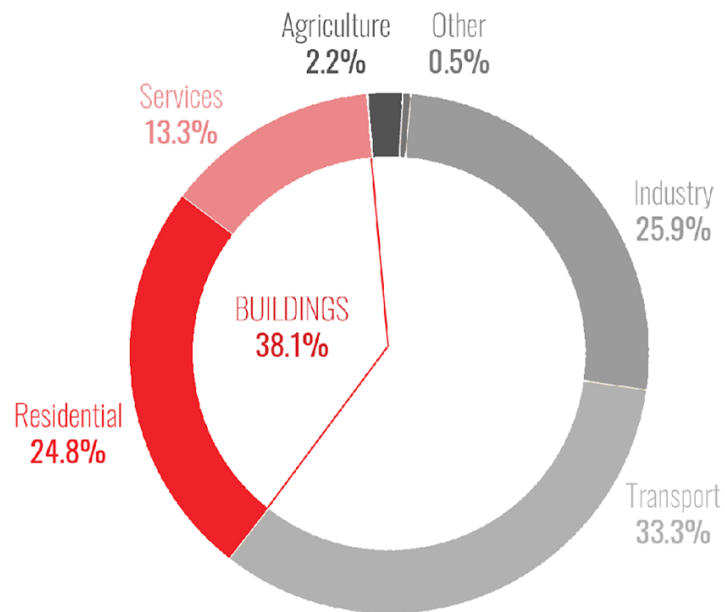


Building Industry contributes to

40%

of the global CO₂ Emissions

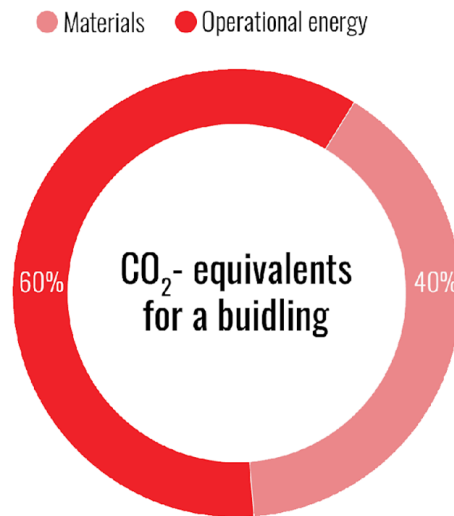


Energy Consumption by Sector
[Eurostat, 2014]

Out of this, 60% is through
the operational energy, while

38%

Is through embodied energy
within materials

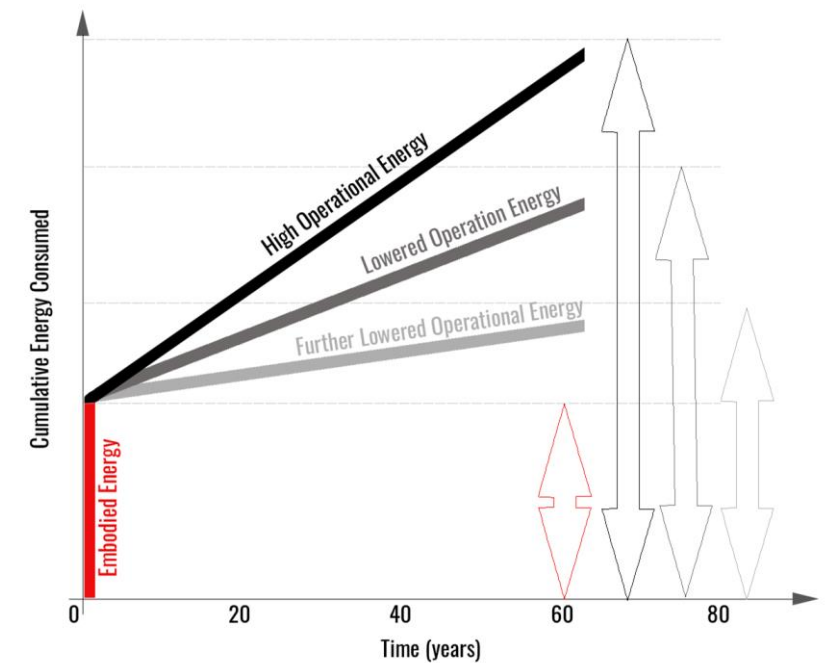


Materials v Energy
[Trafik Bygge og Boligstyrelsen,
Danish Transport and Construction Agency]

The embodied energy has remained

stagnant

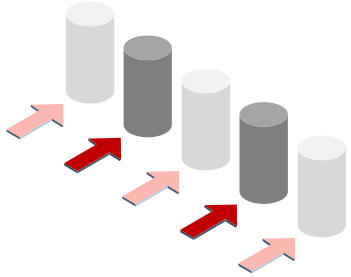
Throughout the years but
operational energy has reduced by
50% !



Cardinal LCA – a holistic solution to reduce the embodied carbon



Allows Architects to incorporate embodied carbon consideration in early stage of design



Has several KPIs which make it easy to compare and see trade-offs



Dynamic Experience



User Friendly

User Group

Architect



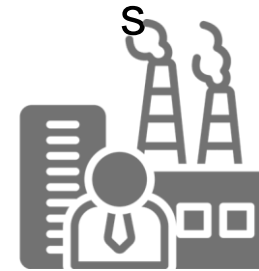
Municipalities/Policy
Makers



Construction
Manager



Product
Manufacturer



Client

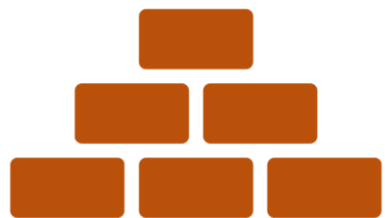


Student



Key Performance Index

Embodied
carbon



Operational
carbon



Structural
Analysis



Utility
Cost



Optimization



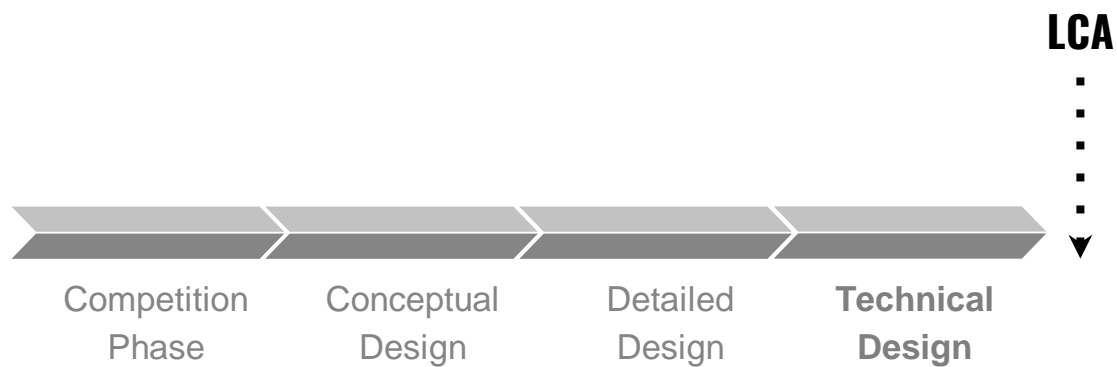
Impacts

Direct Industrial Impact

Current Workflow

LCA at **the end** of design stage

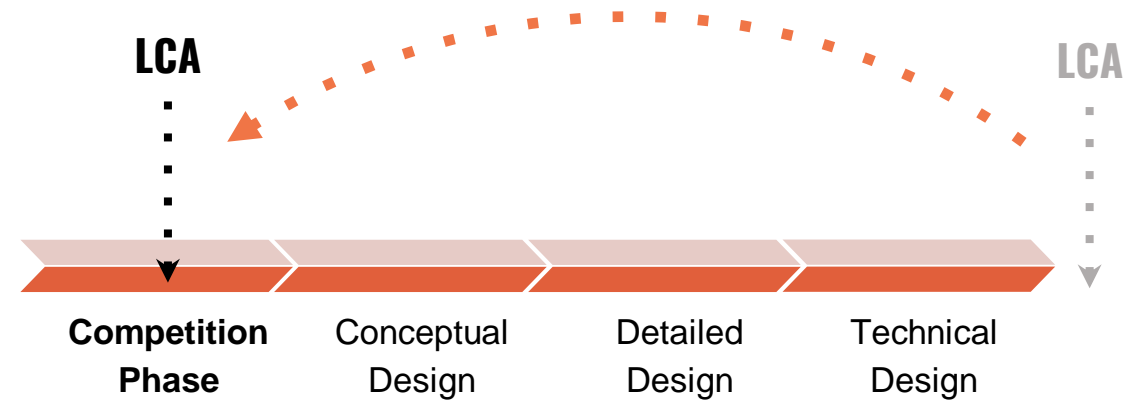
Finalized Design □ **LITTLE CARBON REDUCTION**



Proposed Workflow

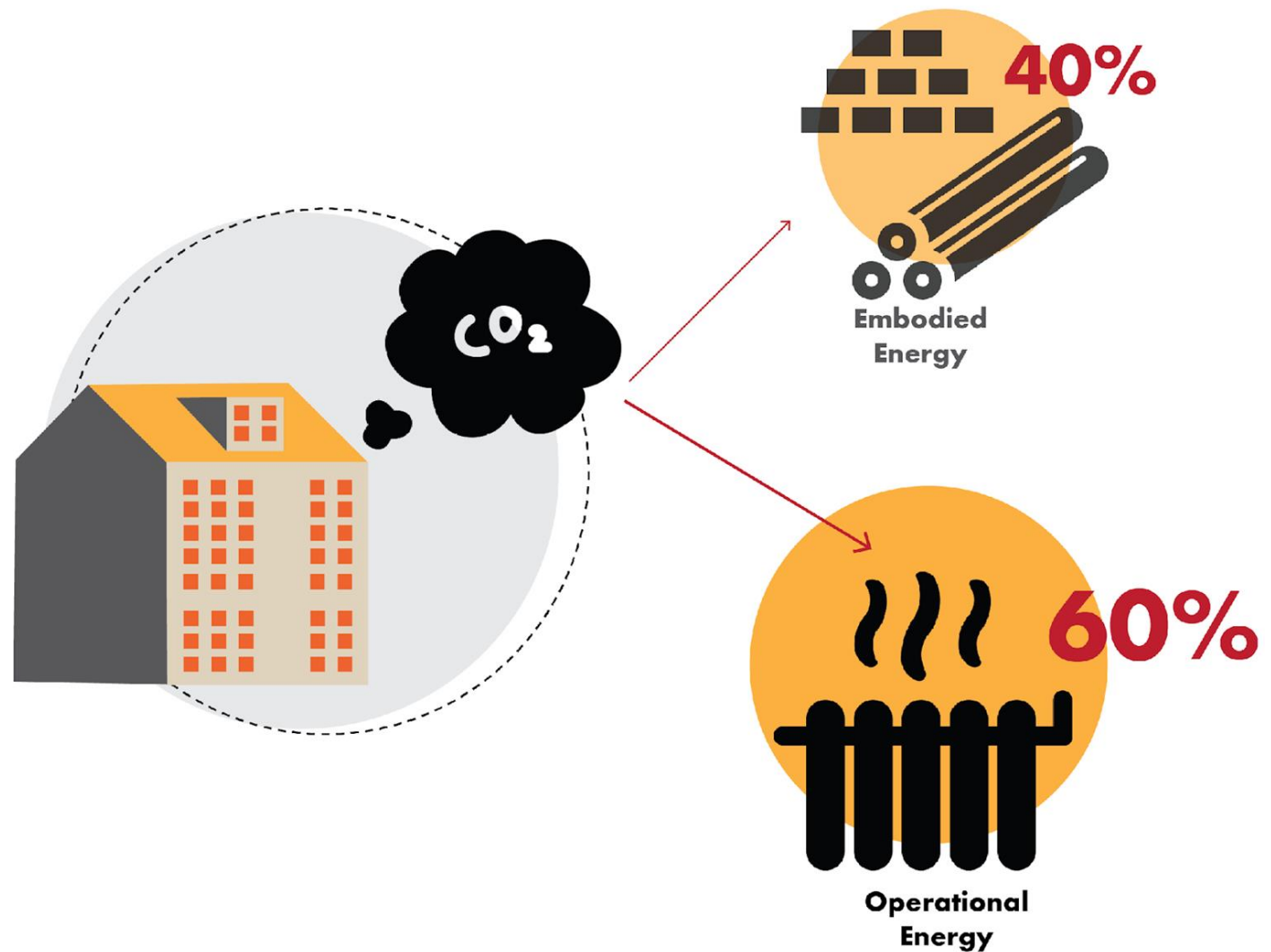
LCA at **the initial** design stage

Flexible design □ **MORE CARBON REDUCTION [30+ %]**

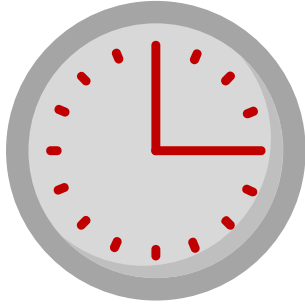


Indirect Industrial Impact

Through Cardinal, we empower architects to make healthy material choices from the start, **to tackle climate change and reach the goals set by 2015 Paris Climate accord !**



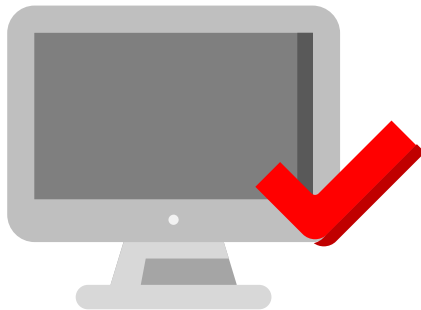
Early Phase Tool for Quick Estimation



Global Material Database



Easy User Interface



More Carbon Capture



Compliance with LEED



Benchmark your Projects

