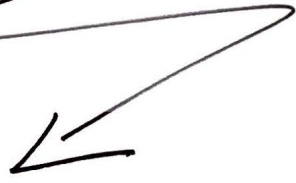


ZECSS:



- life-cycle thinking → from pre to post construction
- need for new construction
 - ↳ long-term urban planning
- workers empowerment
 - ↳ applying regulation
- surroundings of construction sites
 - ↳ benefits and nuisances
- city procurement
 - ↳ drive demand for ZECSS tech.

City Challenge reframing canvas

(1) City Core beliefs (description)

(4) opposite

(4) opposite

(4) opposite

(4) opposite

SITE before construction
1. urban
2. rural

Electrification of vehicles in becoming more and more sustainable

PLANTING FOREST FOR USED WOOD

DUST and dedusting

URBAN PLANNING HAS A BIG IMPACT ON NEEDED WORKS

CONSTRUCTION CO₂ EMISSIONS ARE UNDER-ESTIMATED

"LIGHTNESS" IS POSSIBLE

CONSTRUCTION MATERIALS NECESSARILY EMIT A LOT OF CO₂

END FINAL STAGE OF THE CONSTRUCTED OBJECT (STREET, BUILDING)

THE WHOLE LIFE CYCLE OF THE CONSTRUCTION SITE

Big need for housing → Construct - ion

Air quality is getting worse

City has power in procurement

REDUCTION OF MATERIAL AMOUNT REUSE MATERIAL

The city's machinery lifecycle is flexible / Hbd.

(5) Reframed core belief

H2 & temporary labour force on construction site - if they are not finish / through language barriers

ALL km, km² of infrastr. are needed.

i.e. it's not only a technology challenge but also a human one



Method

Policy

Capacity
Building

Service

Product

City Challenge poster

IMPACT

(1) Title & subtitle

Zero-emission Construction Sites

(2) Abstract

(4) Solution

Rating of buildings to include construction site

Policy/Method

Carbon offsetting (tax) within the lifetime (incl. Ecological Services)

Policy

Method

(3) Introduction (Context, Reframing & Stakeholders)

(5) Future work

Stakeholders:

- Green building Councils (those who make the national standards)
- Cities; Urban Planners
- Investors (Asset)
- Final Users; Communities; Customers
- Construction/building Industry
- Utilities Companies
- Architects

Next key steps:

- get emissions' data
- define pricing of carbon emissions
- ~~test~~ rating framework (pilot)
- who to take the next steps (Mandate, Caring, 4 Ministers)

(6) Illustration

I am interested in (contributing to) this project:

[write down your full name]