

Design metoder: Nordic Built Challenge / Nordic Built Innovation

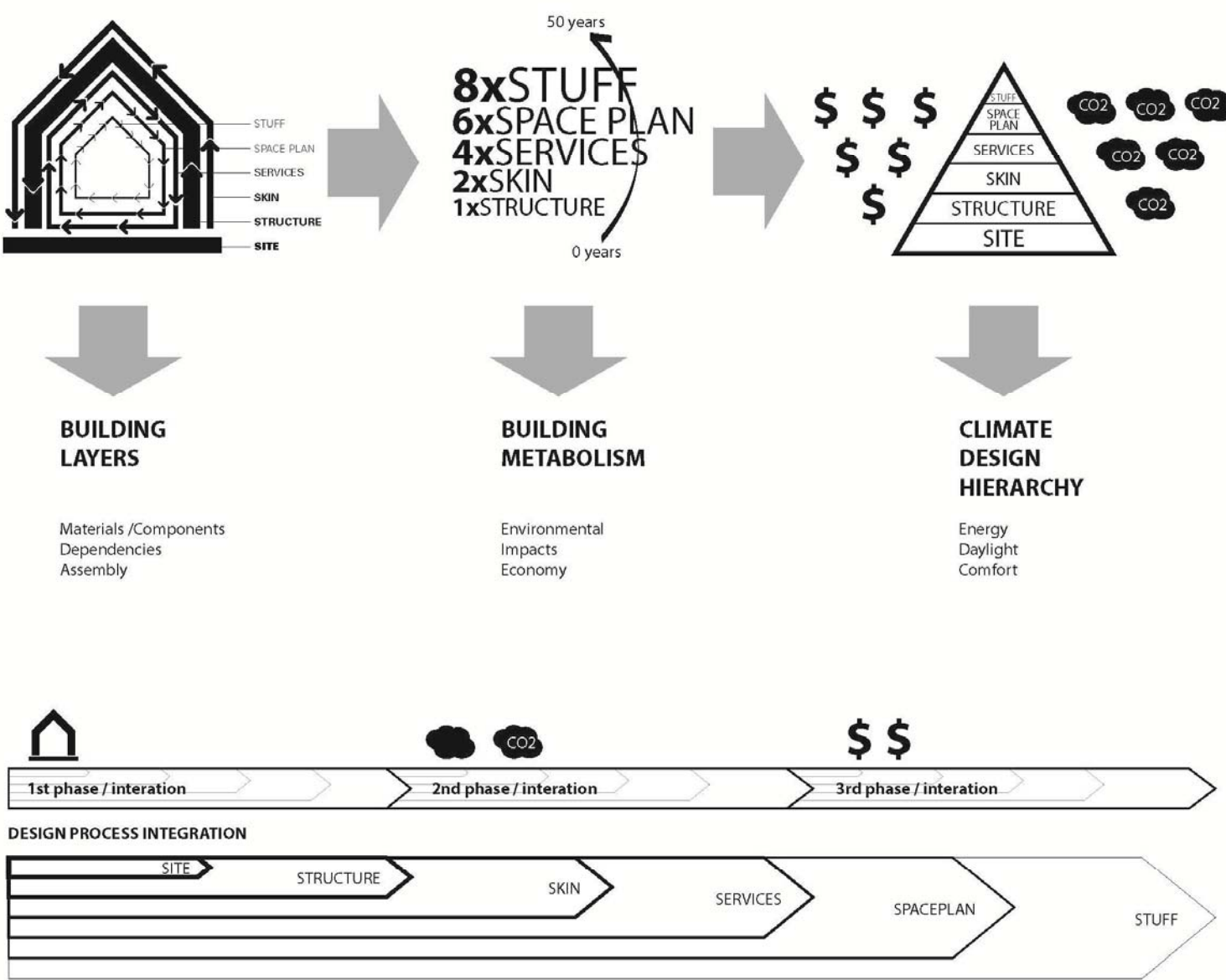
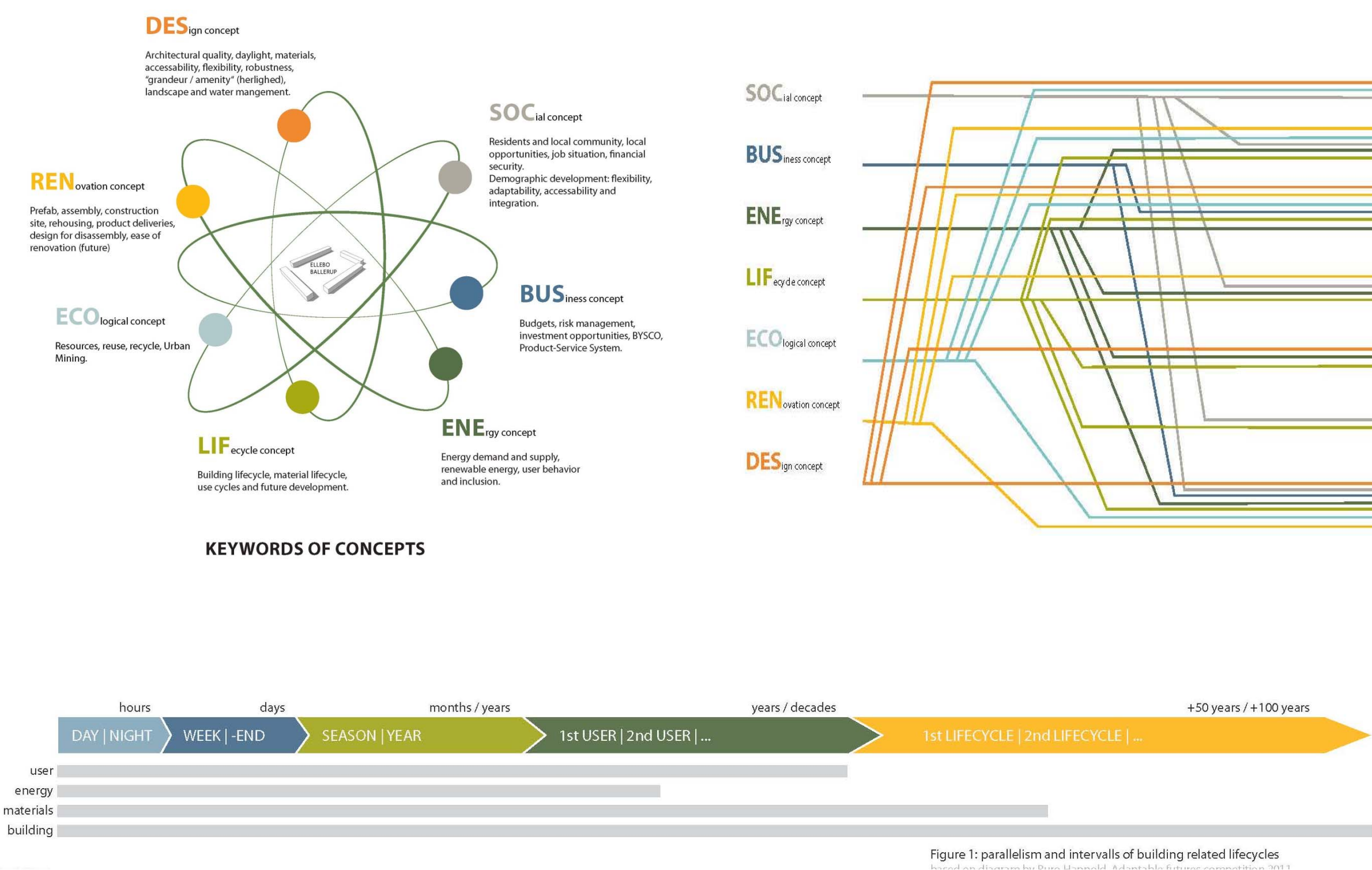


Kan ny metoder til livscyklusanalyse samt klima og energioptimering skabe innovative renoveringskoncepter?

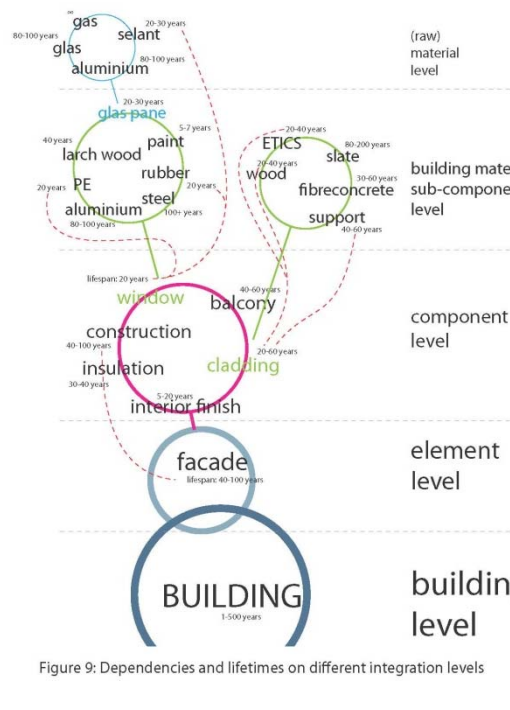
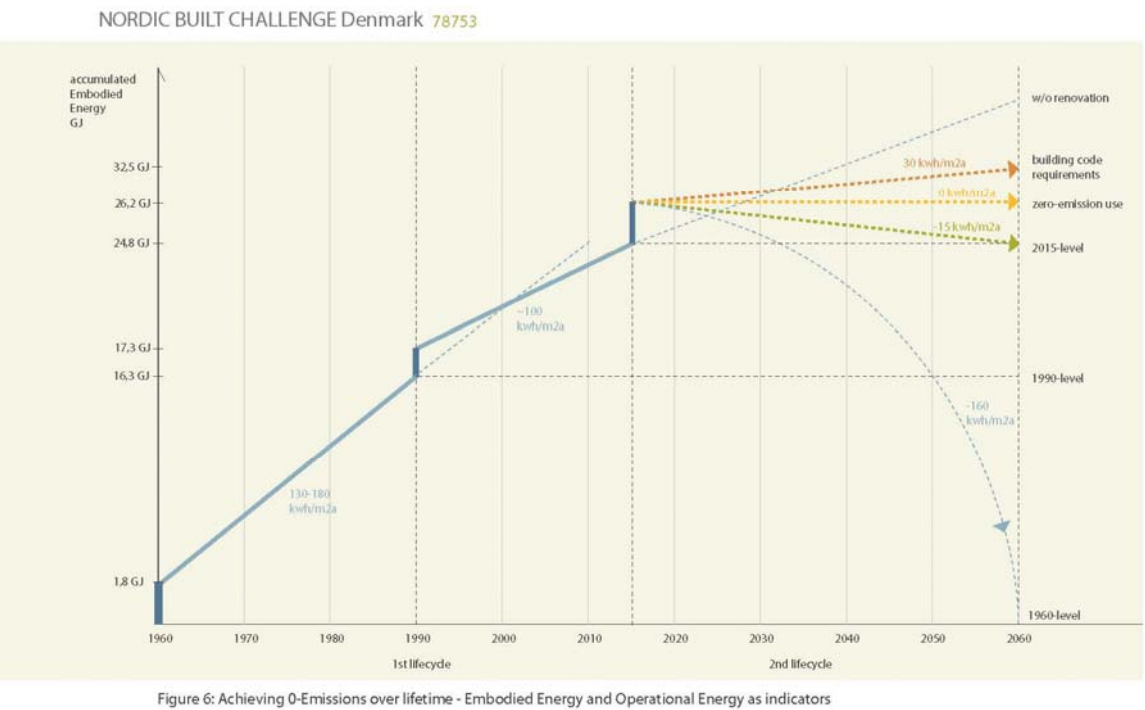
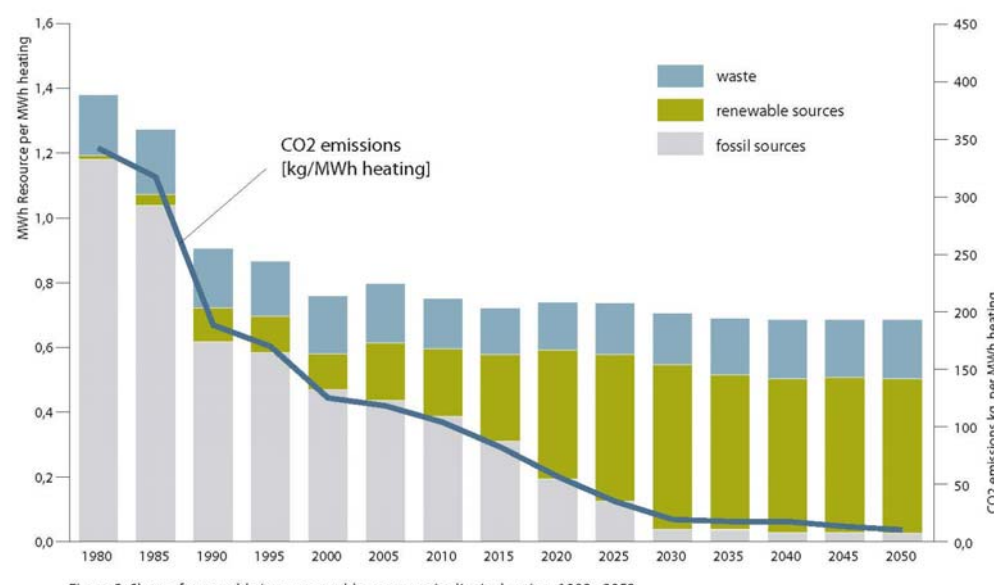
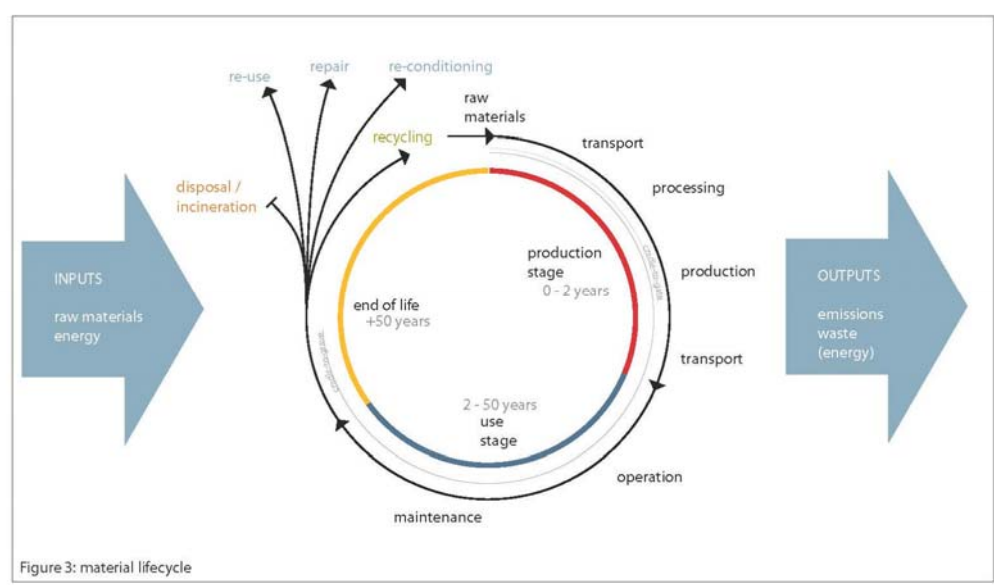
Innovationsprojekt om designmetoder til renovering og transformation af eksisterende boliger



Projektet kombinerer digitale metoder (BIM) til klimadesign og energioptimering med livscyklus analyser af bygningsmaterialer, komponenter og elementer for at skabe ny renoveringskoncepter og forbedre beslutningsgrundlaget i skitseringen af 2 konkurrenceforslag.



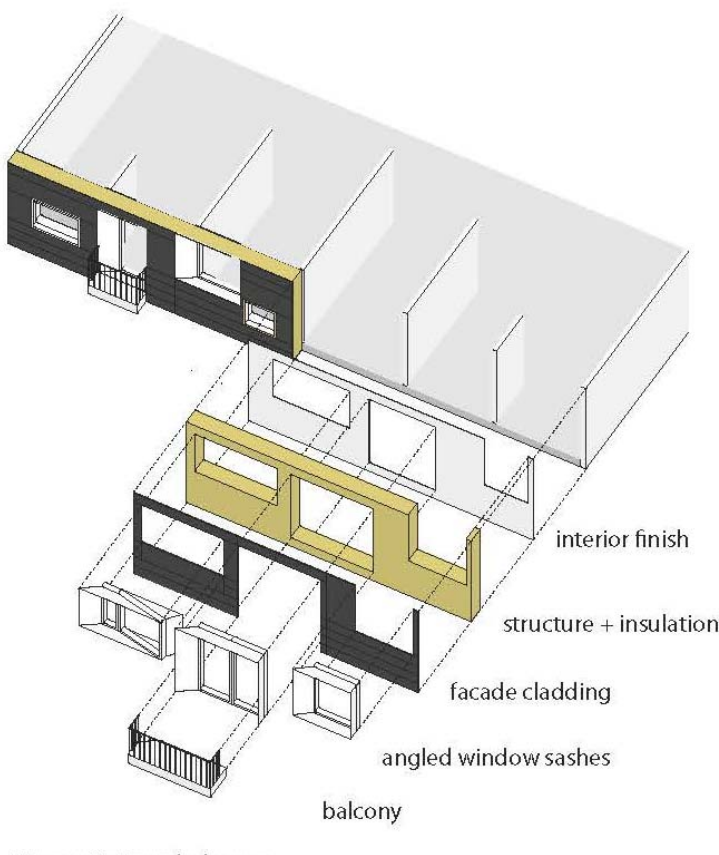
De 2 resulterende projekter blev begge præmieret i den internationale konkurrence Nordic Built Challenge



Erfaringerne fra projektet danner grundlag for et ansøgt innovationssamarbejde om udvikling af designmetoder for bæredygtig renovering med deltagere fra alle 5 nordiske lande.

	Strategy A add-on facade perforance	Strategy B1 new facade (stone) perforance	Strategy B2 new facade (brick) perforance	Strategy C new facade (brick) perforance	Strategy D new facade (brick) perforance	Strategy E new facade (brick) perforance
CO2eq	100%	128%	100%	83%	100%	100%
WASTE	100%	120%	115%	95%	100%	100%
EMBEDDED ENERGY	100%	94%	96%	92%	101%	100%
WATER	100%	112%	125%	102%	108%	115%
RESOURCES	100%	120%	110%	90%	108%	107%
COSTS	100%	133%	127%	141%	142%	134%

	Strategy A add-on facade perforance	Strategy B1 new facade (stone) perforance	Strategy B2 new facade (brick) perforance	Strategy C new facade (brick) perforance	Strategy D new facade (brick) perforance	Strategy E new facade (brick) perforance
SITE	no change	no change	no change	no change	no change	no change
STRUCTURE	REUSE of existing structure Lightweight construction of perforance	REUSE of existing structure Lightweight construction of perforance	REUSE of existing structure Lightweight construction of perforance	REUSE of existing structure Lightweight construction of perforance	REUSE of existing structure Lightweight construction of perforance	REUSE of existing structure Lightweight construction of perforance
SKIN	add-on facade add-on facade add-on facade	new facade add-on facade add-on facade	new facade add-on facade add-on facade	new facade add-on facade add-on facade	new facade add-on facade add-on facade	new facade add-on facade add-on facade
SYSTEM	Upgrading of existing systems (direct heating)	Upgrading of existing systems (direct heating)	Upgrading of existing systems (direct heating)	Upgrading of existing systems (direct heating)	Upgrading of existing systems (direct heating)	Upgrading of existing systems (direct heating)
SPACE PLAN	combinations of flats in block 2-4, new kitchen / bathroom	combinations of flats in block 2-4, new kitchen / bathroom	combinations of flats in block 2-4, new kitchen / bathroom	combinations of flats in block 2-4, new kitchen / bathroom	combinations of flats in block 2-4, new kitchen / bathroom	combinations of flats in block 2-4, new kitchen / bathroom
STUFF	no change	no change	no change	no change	no change	no change



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Tanja Bisgaard / Novitas Innovation