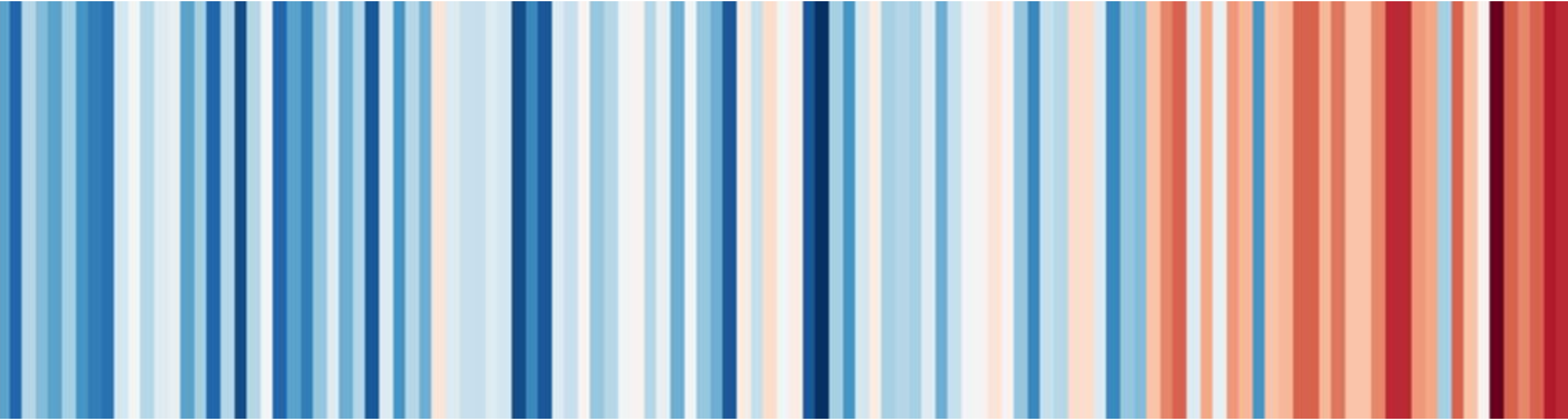


circular ready

leren van stewart brand



deel sessie 1
menno rubbens

cepezed



duurzame
ontwikkeling



**meet the needs
of the present**

**without compromising
future generations**

brundtland commission, 1987

cepezed

circular ready

opdracht:

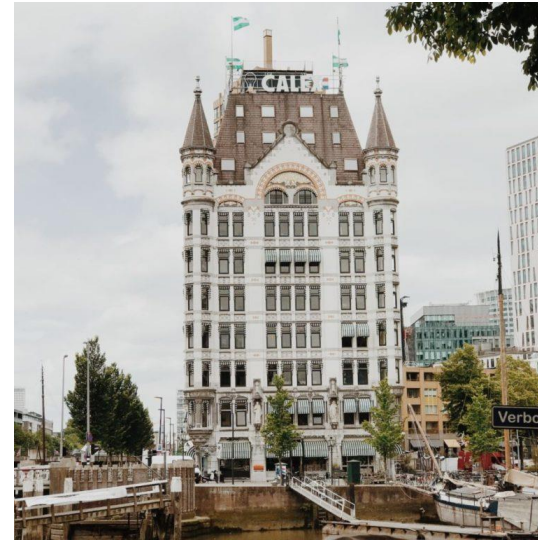
denk aan het gebouw waar je dagelijks in werkt

vraag:

Welke onderdelen van dit gebouw zijn volgens jou het eerst rijp voor de sloop, en waarom?



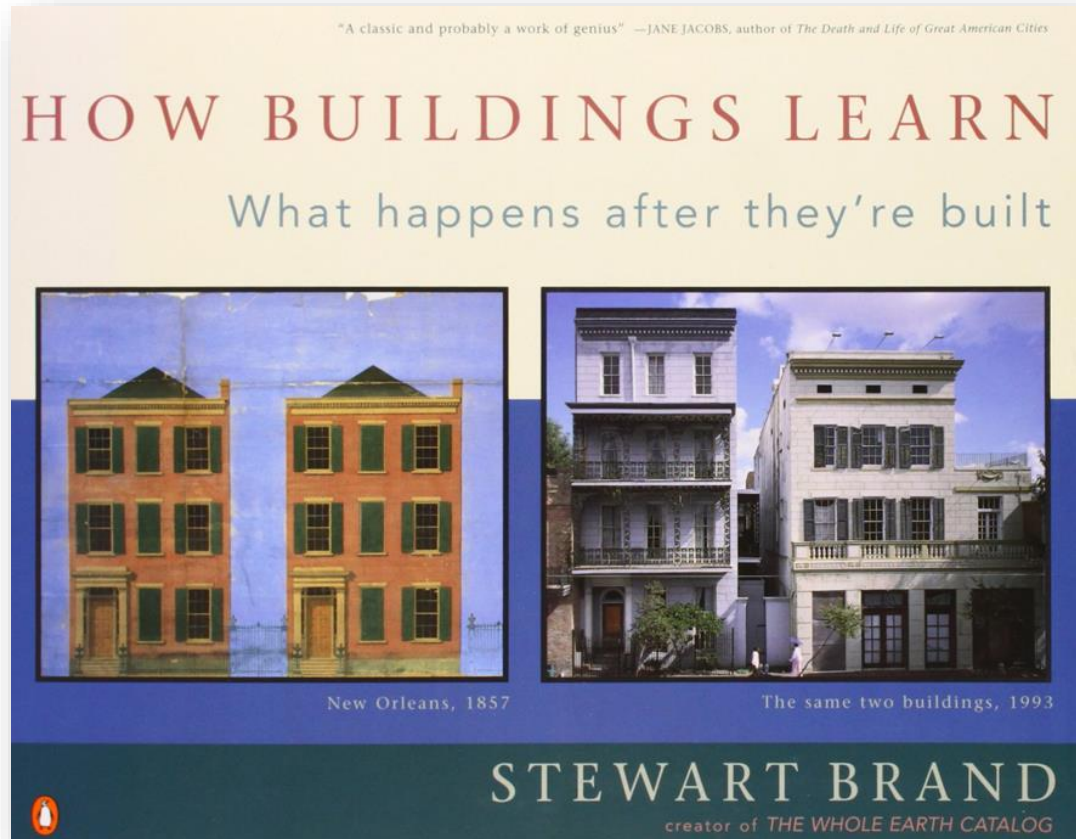
circular ready



cepezed

stewart brand

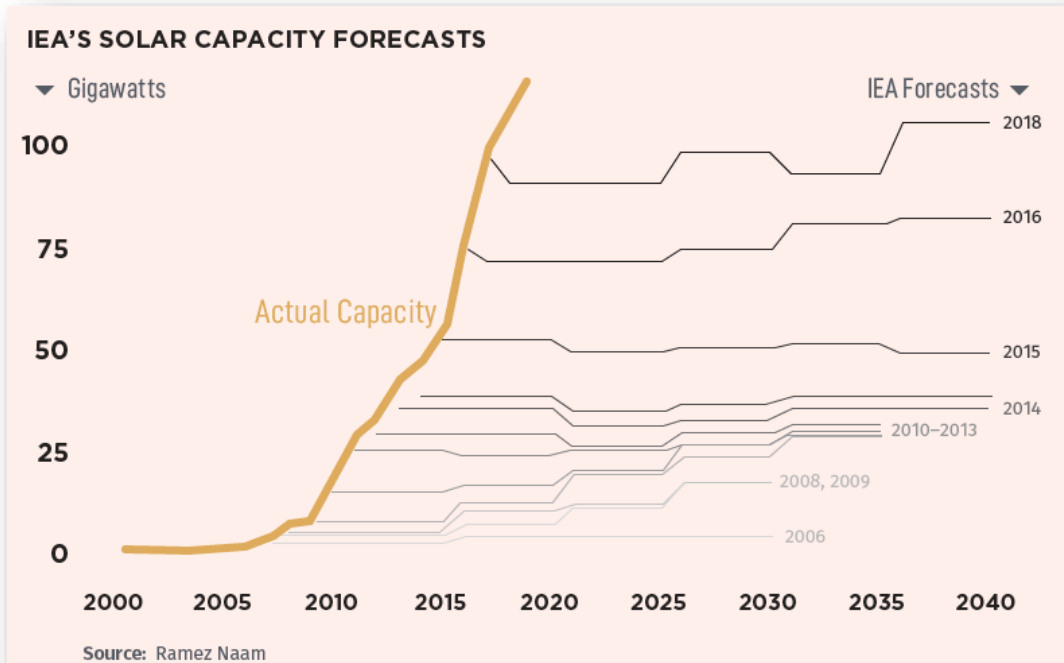
how buildings learn (1994)



cepezed

“

**all buildings
are predictions**



**all predictions
are wrong**

stewart brand, 1994

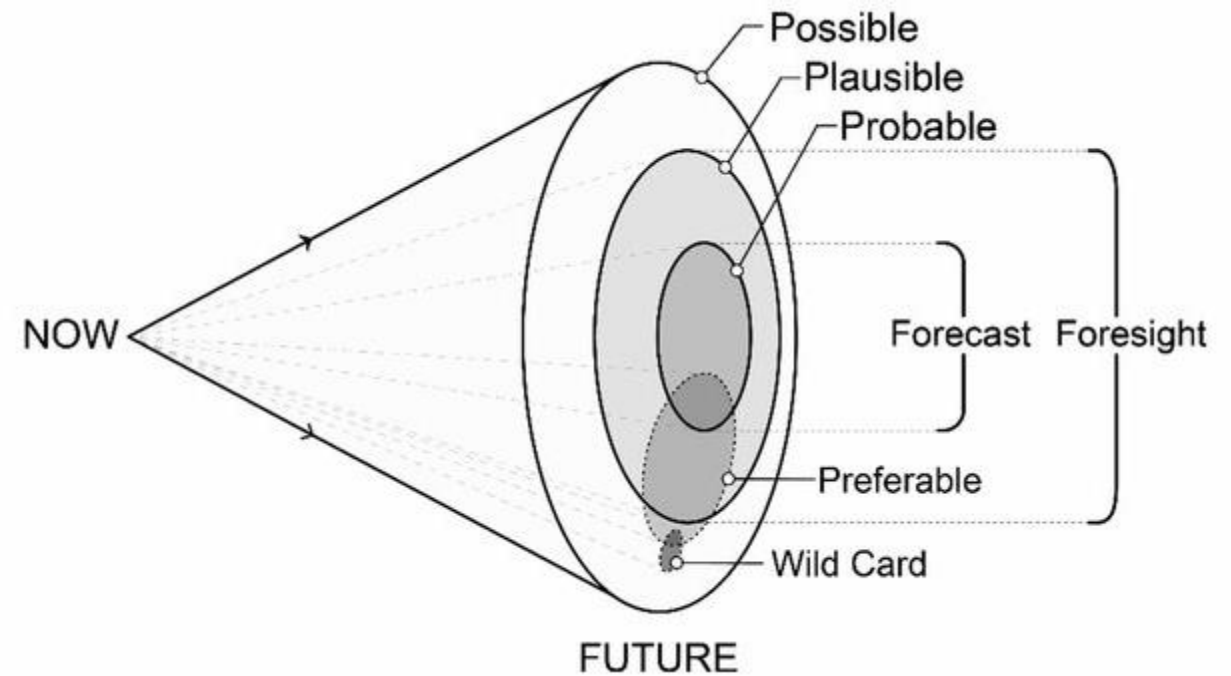
cepezed

stewart brand

all predictions are wrong

vraag:

welk onverwachte veranderingen hebben jullie in projecten meegemaakt?



cepezed



**buildings suffer from
premature complexity**



stewart brand, 1994

cepezed

stewart brand

premature complexity

vraag:

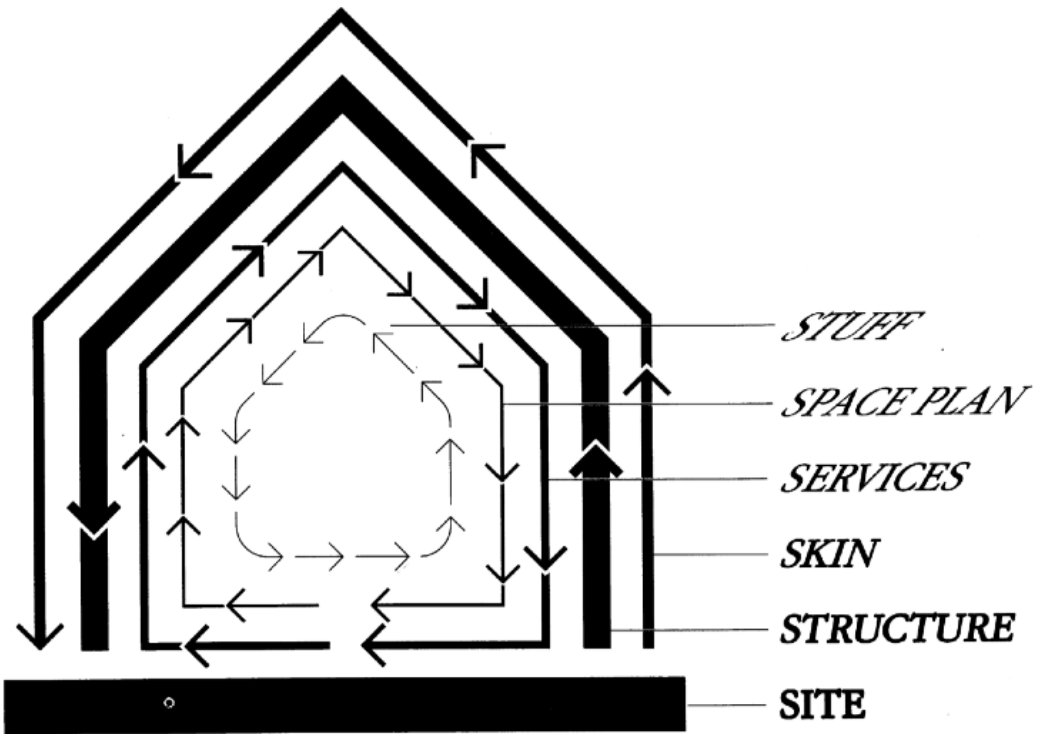
wanneer is complexiteit een zegen en wanneer een vloek in jouw projecten?



cepezed

“

shearing layers



stewart brand, 1994

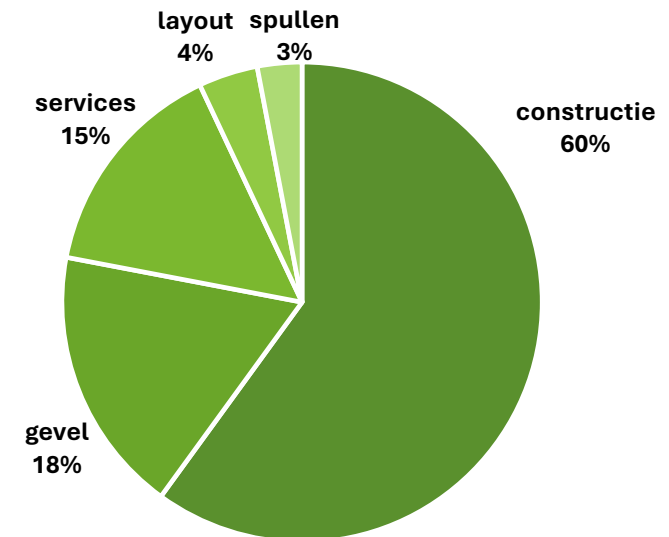
cepezed

circular ready

vraag:

welk deel of 'laag' van een gebouw ...

- ... kan zich het best aanpassen aan toekomstige ontwikkelingen
- ... lijdt aan premature complexiteit



werkmethode

prioriteiten

high



low



Refuse

Reduce

Re-use

Repair

Refurbish

Remanufacture

Re-purpose

Recycle

Recover

bouw niets

bouw minder

bouw slim

bouw efficiënt

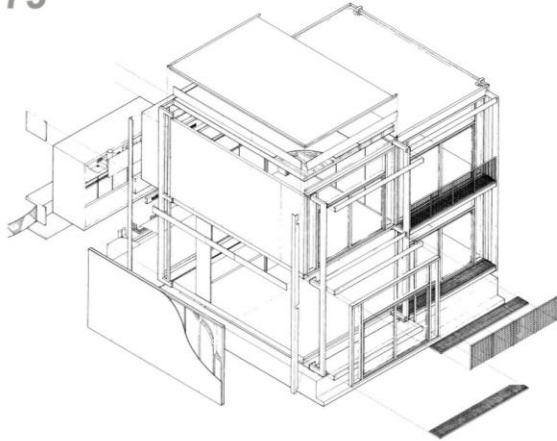
minimaliseer afval

bron: 'whole life carbon' dgbc

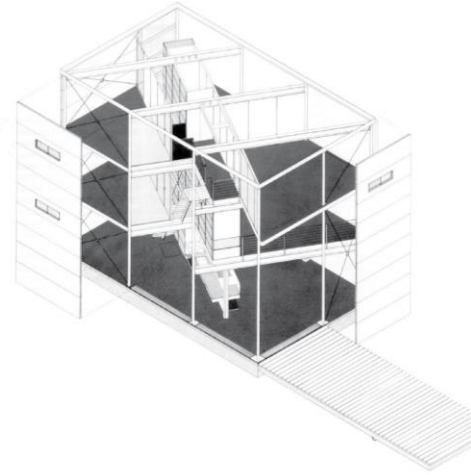
werkmethode

kit of parts

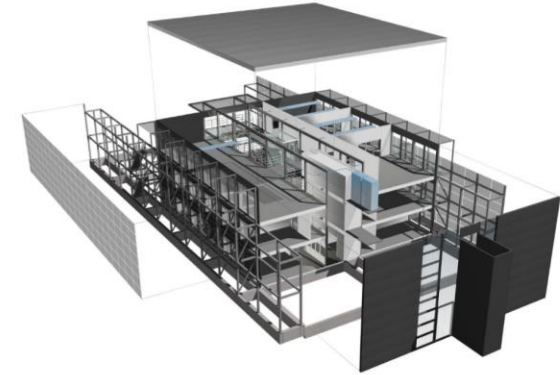
1979



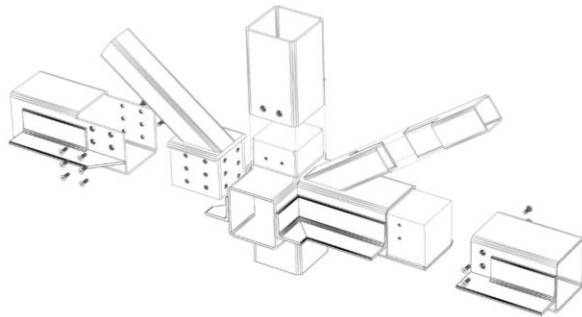
1989



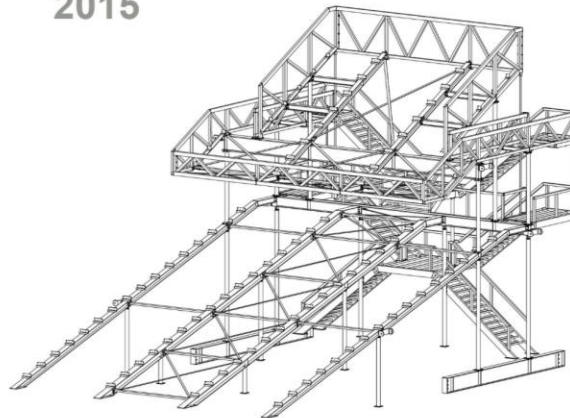
1995



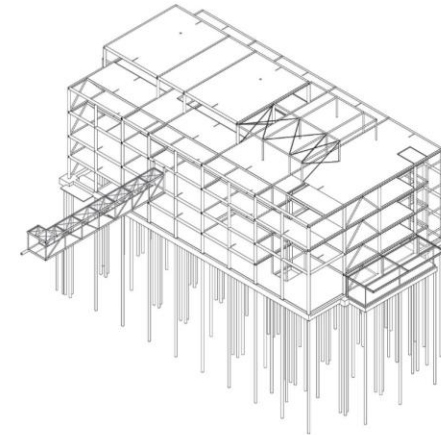
2004



2015



2016



cepezed

werkmethode

vraag:

welk andere methodes kan je bedenken om je volgende project 'circular ready' te maken?



ontwerpen met donor materiaal



circulaire projecten

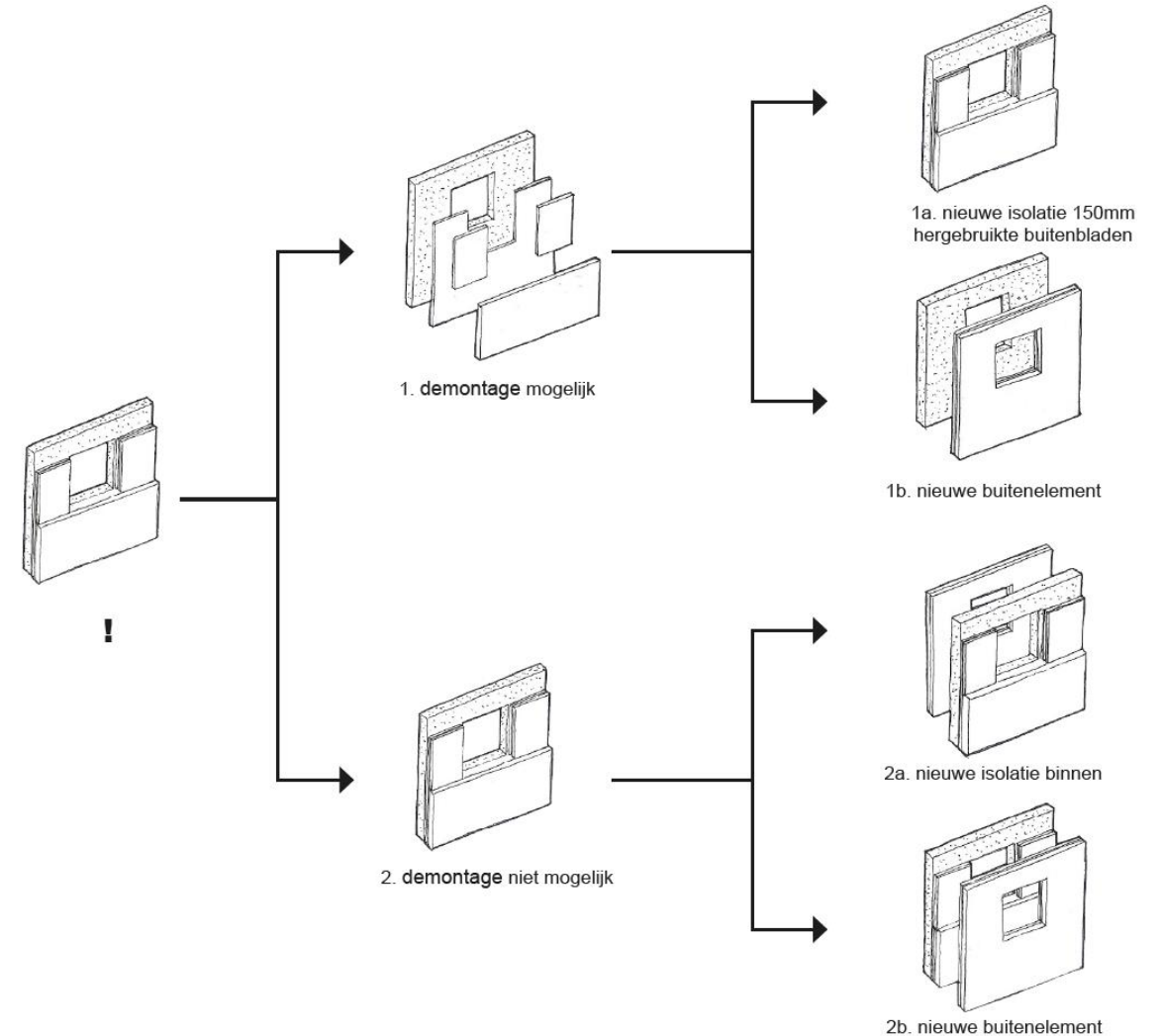
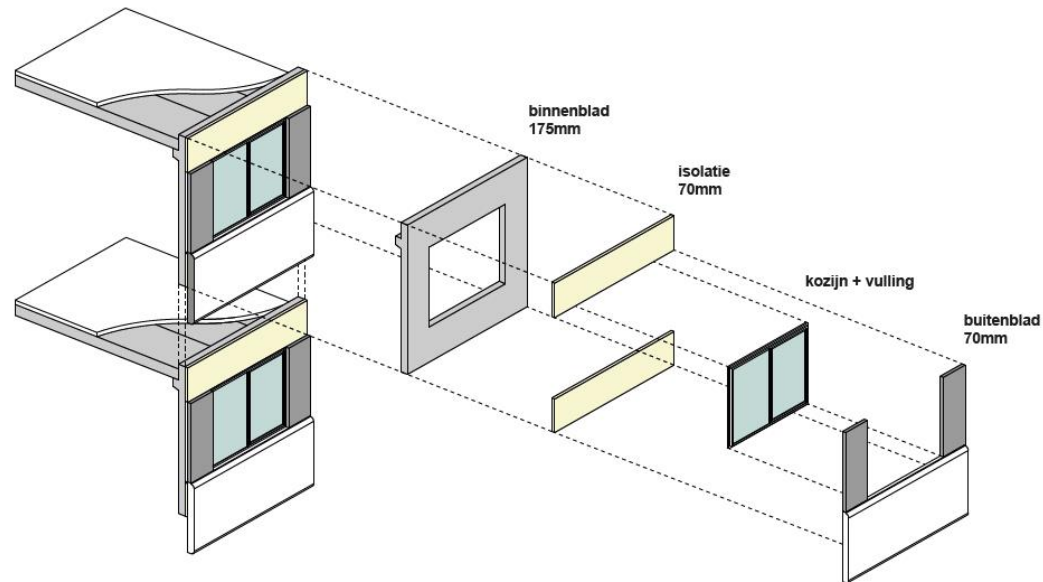
provinciehuis arnhem > heerde



cepezed

circulaire projecten

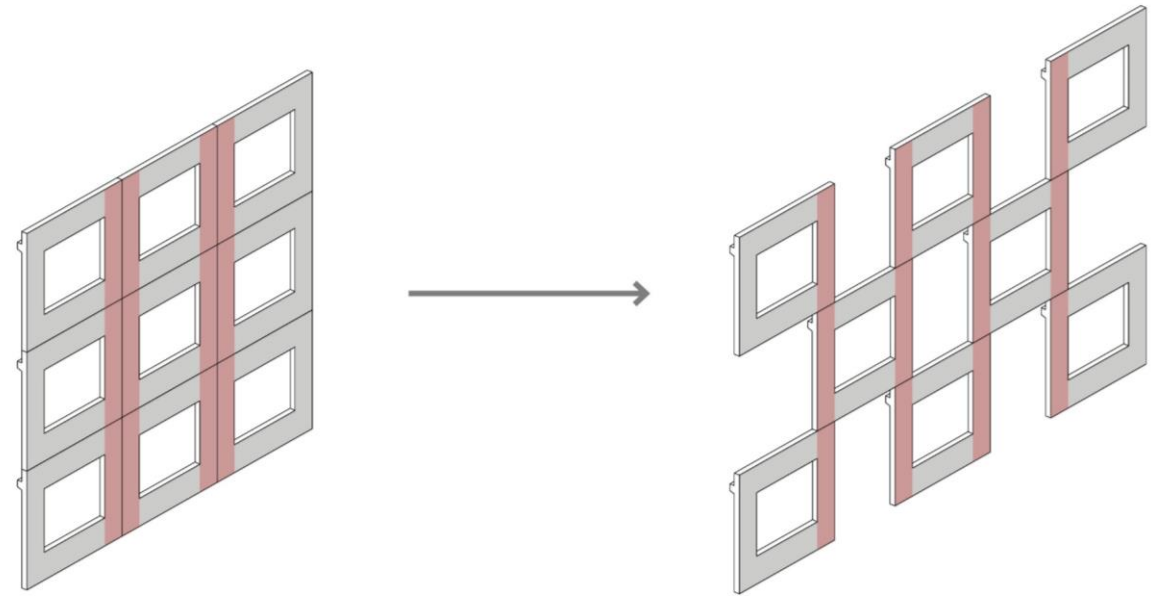
provinciehuis arnhem > heerde





circulaire projecten

provinciehuis arnhem > heerde



circulaire projecten

provinciehuis arnhem > heerde



circulaire projecten

circl amsterdam > ...



cepezed

circulaire projecten

circl amsterdam > ...



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circulaire projecten

circl amsterdam > ...



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circulaire projecten

circl amsterdam > ...



cepezed

**Twijfel is geen prettige toestand,
maar zekerheid is absurd.**

Diderot (...of Voltaire)