

cepezed 50 develop | design | build

menno rubbens, msc architect

director cepezedprojects

member transitionteam circular construction economy

designing for disassembly 'circular ready' projects by cepezed

metrex november 14th 2024













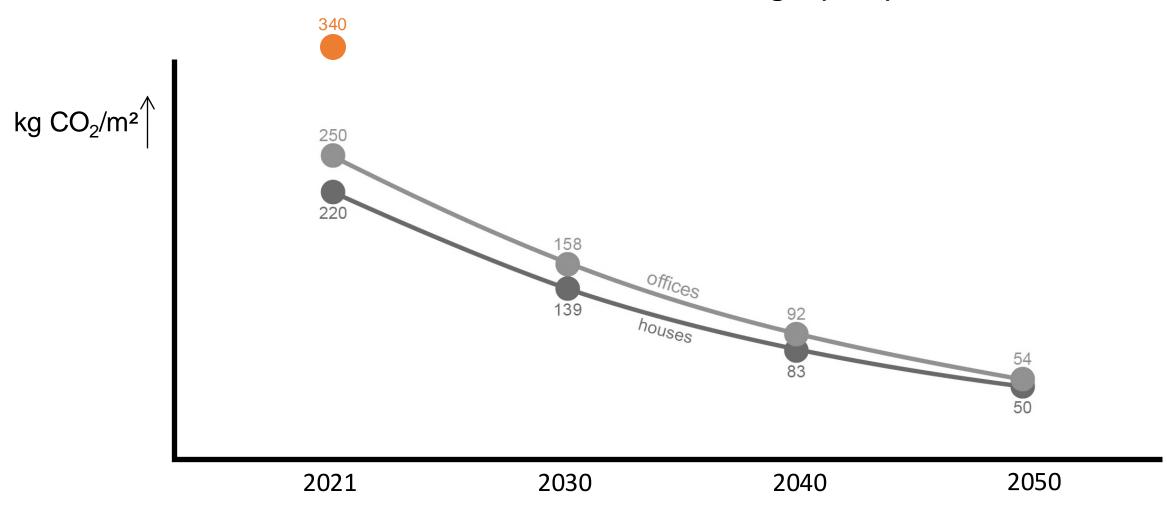
cepezed cepezedinterieur

cepezedbouwteam



urgency

carbon budget (2020)



bron: 'whole life carbon' dgbc

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sustainable development



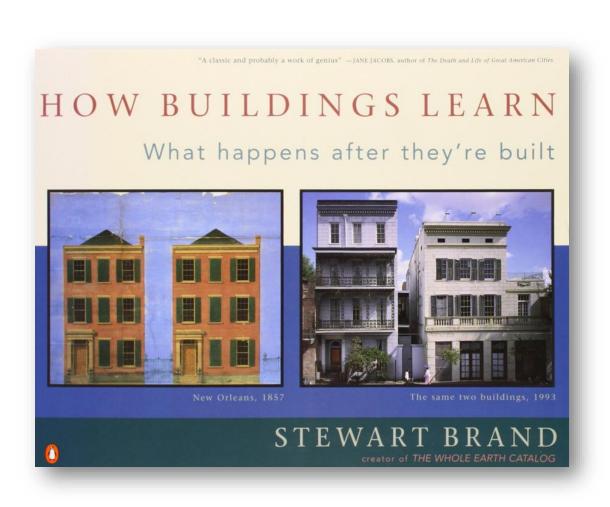
meet the needs of the present

without compromising future generations

brundtland commission, 1987

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stewart brand



how buildings learn (1994)

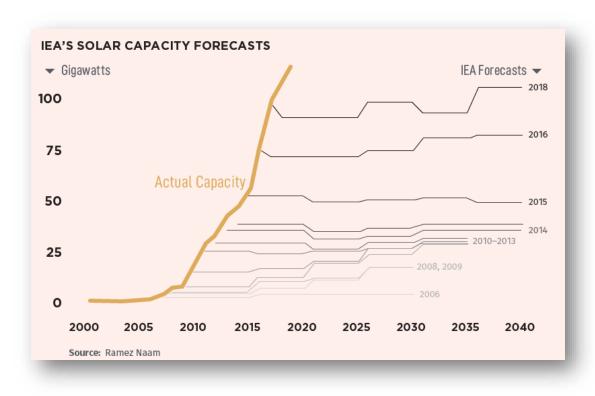
buildings are predictions

premature complexity

shearing layers



all buildings are predictions



all predictions are wrong

stewart brand, 1994



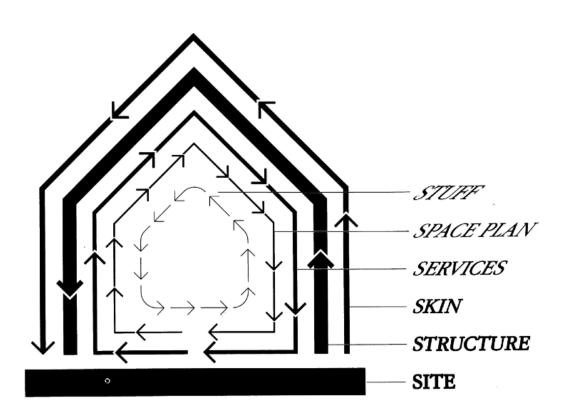
buildings suffer from premature complexity



stewart brand, 1994

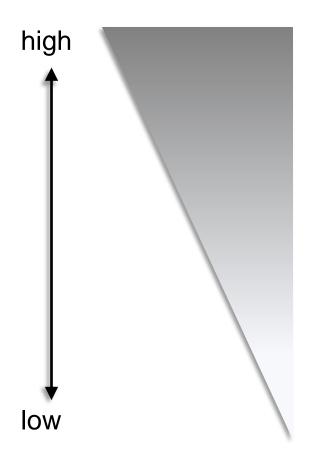


shearing layers



stewart brand, 1994

R-priority



Refuse

Reduce

Re-use

Repair

Refurbish

Remanufacture

Re-purpose

Recycle

Recover

build nothing

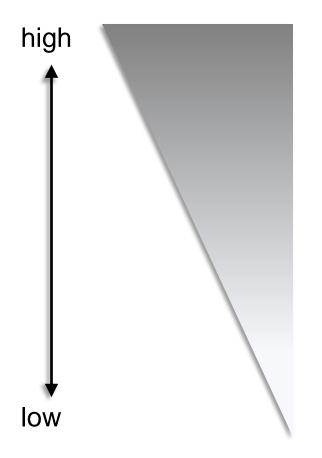
build less

build smart

build efficient

minimize waste

R-priority



Refuse

Reduce

Re-use

Repair

Refurbish

Remanufacture

Re-purpose

Recycle

Recover







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circular economy

reality



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circular projects

provinciehuis arnhem > heerde

build in 1984

permanent building modular design prefab elements not designed for re-assembly



circular projects

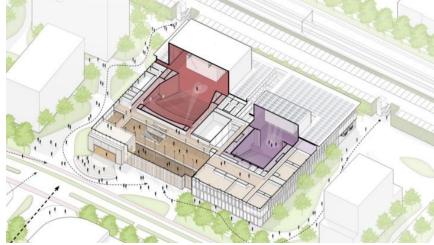
zuiderstrandtheater scheveningen > oss

build in 2015

temporary building temporary permit hybrid construction limited design for re-assembly



ZUIDERSTRAN



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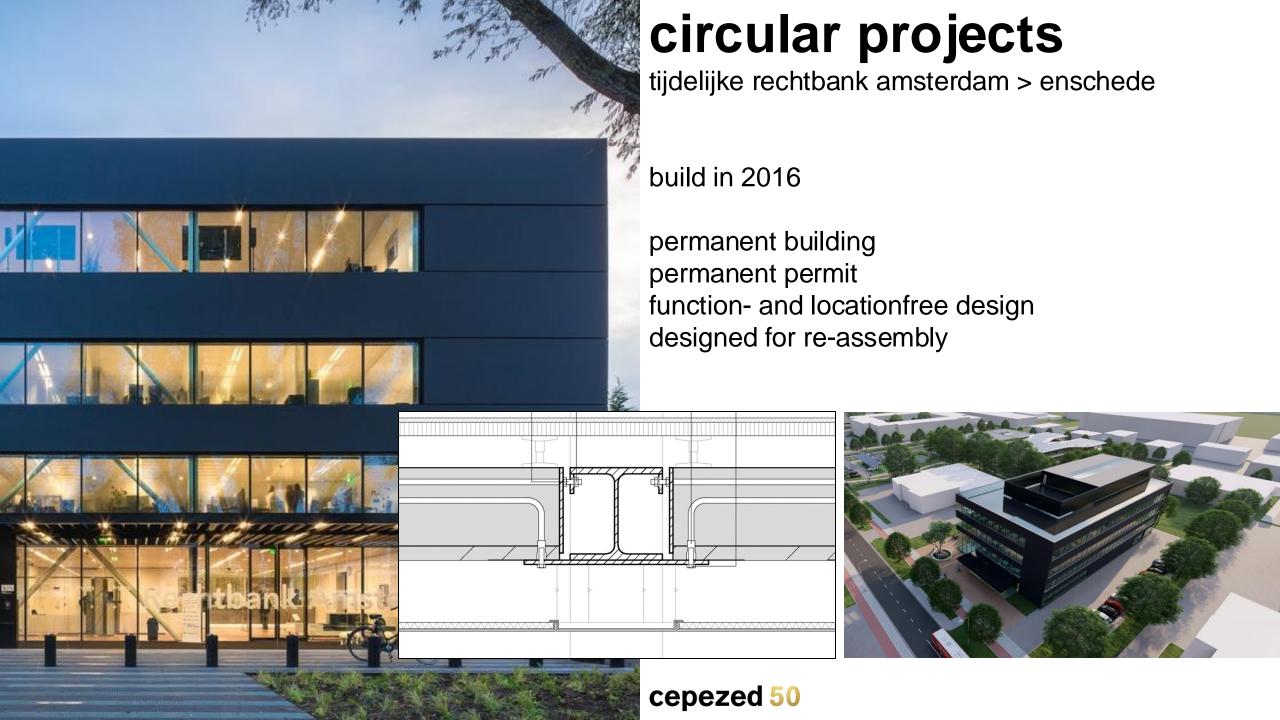
circular projects

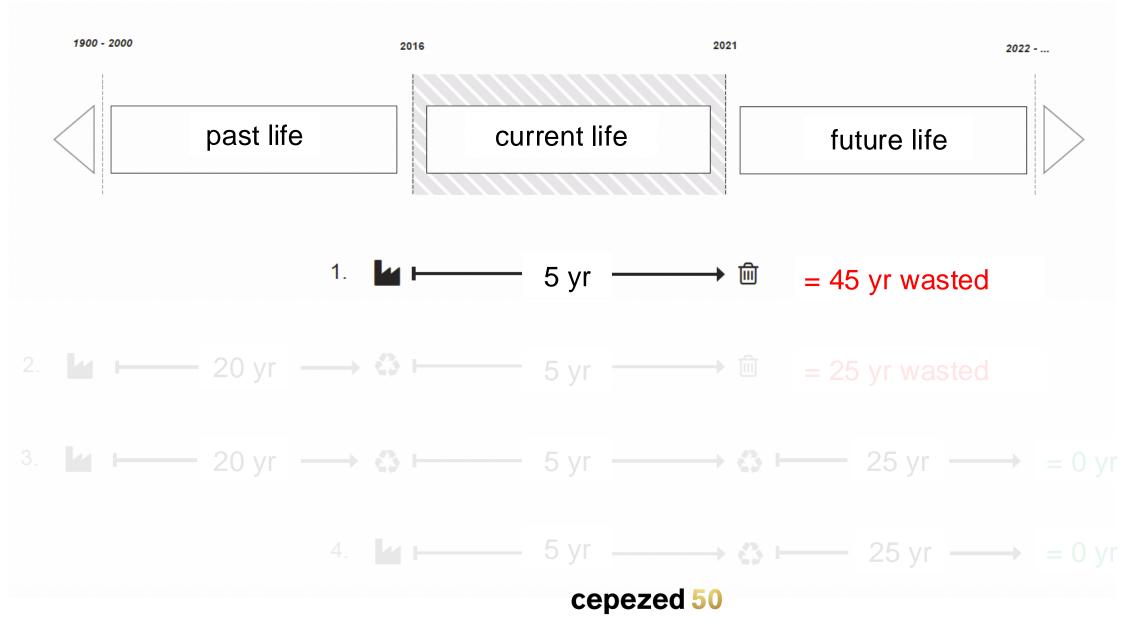
circl amsterdam > ???

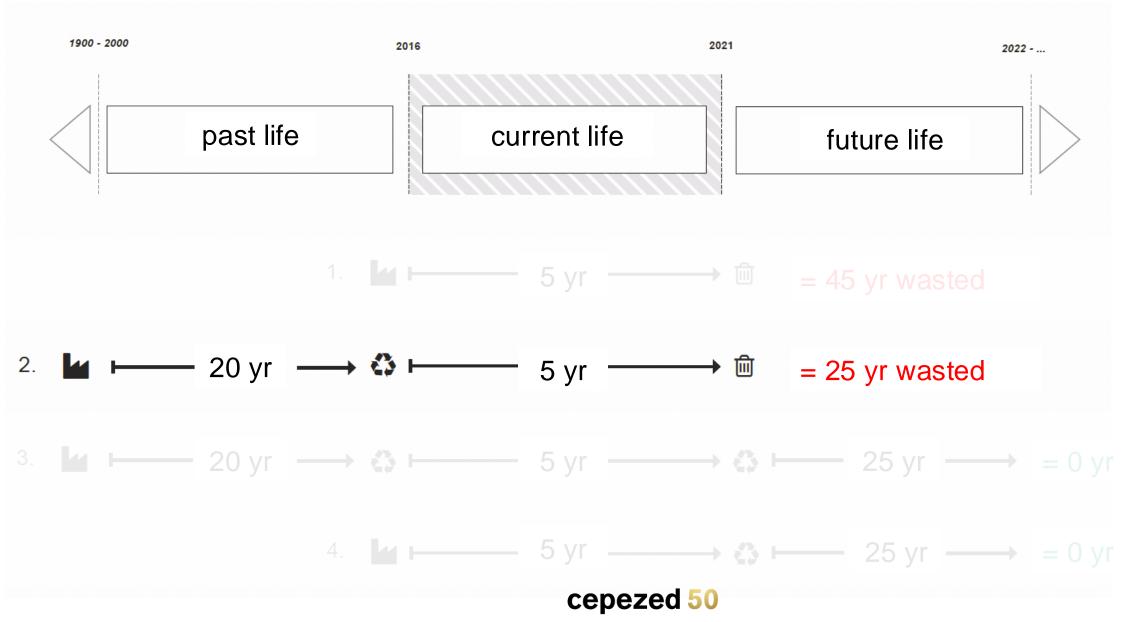
gebouwd in 2017

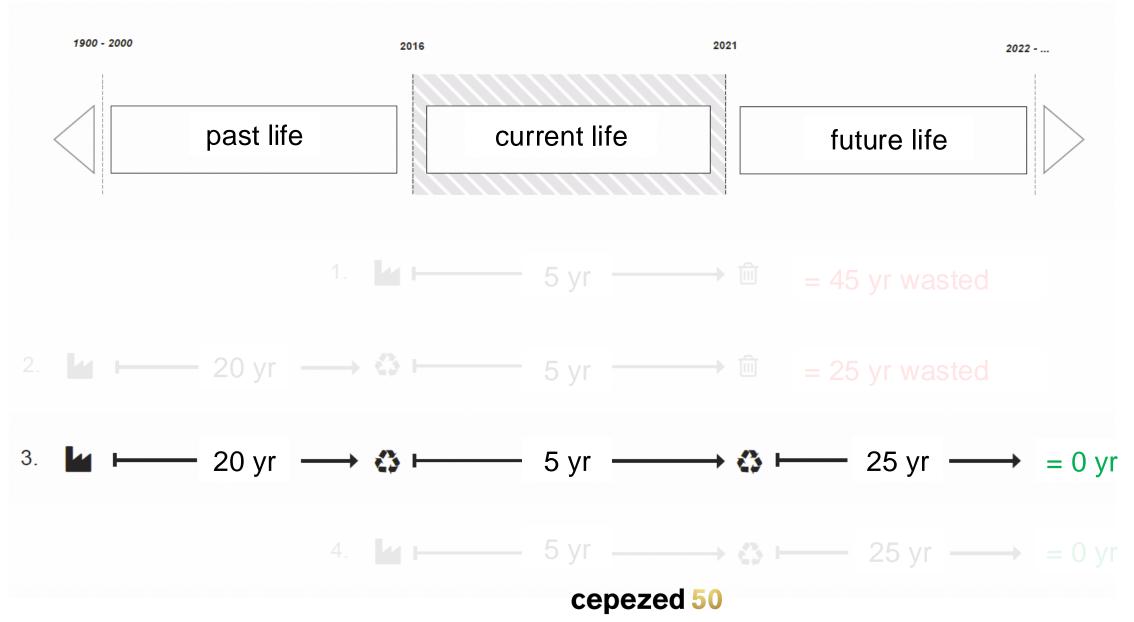
permanent building permanent permit specific function and location designed for re-assembly

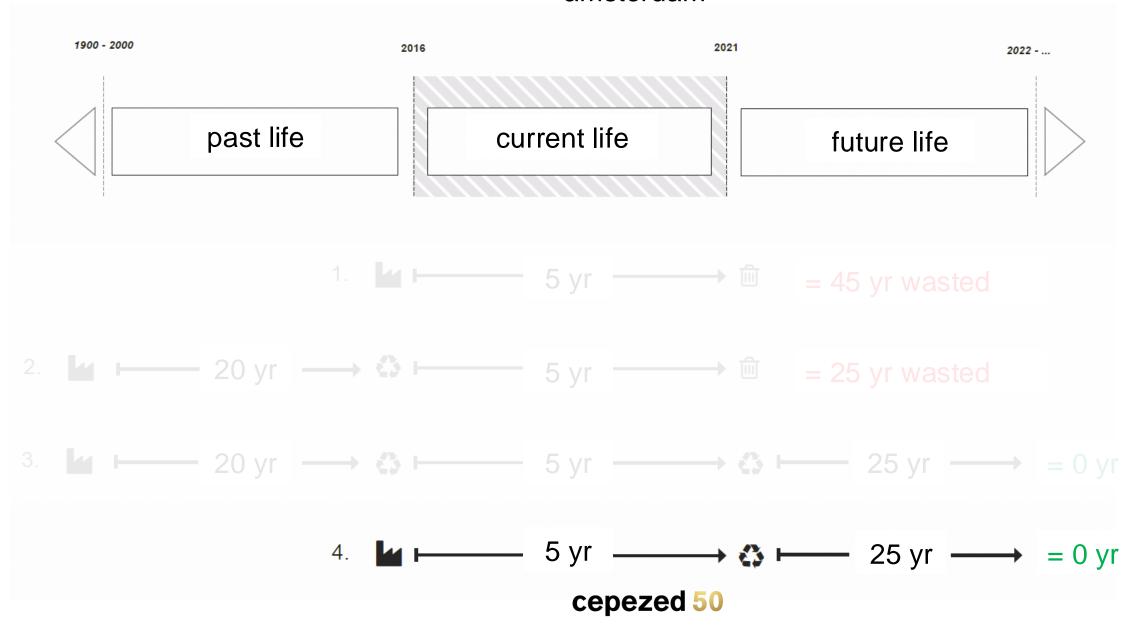


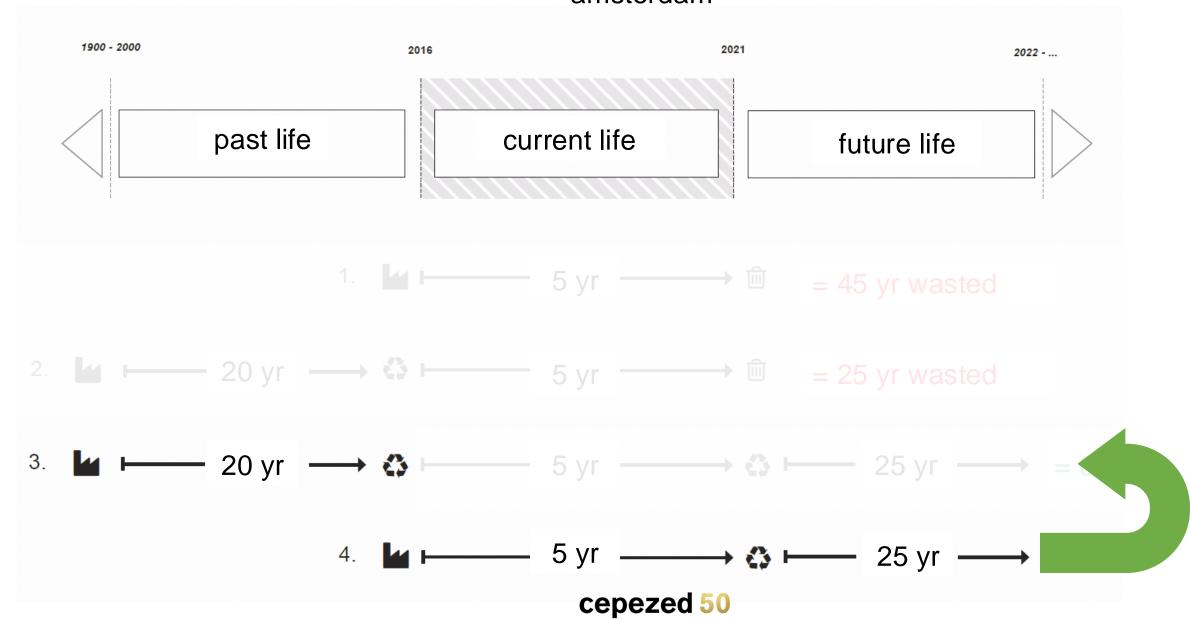


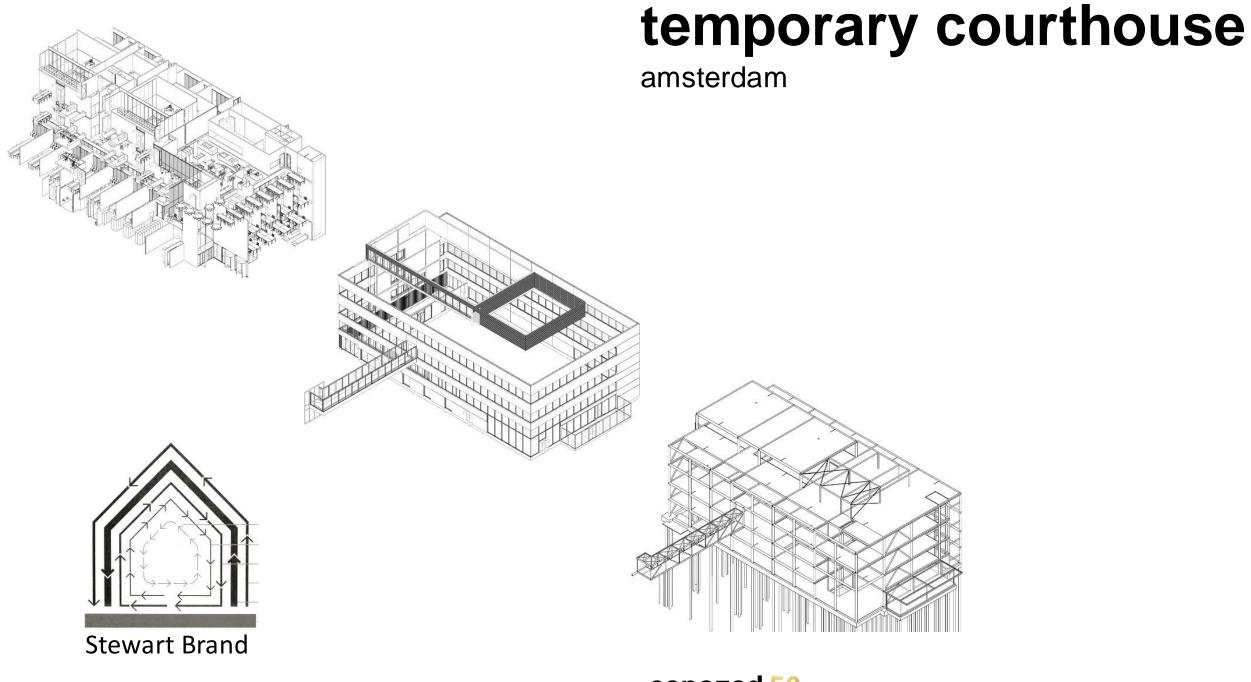




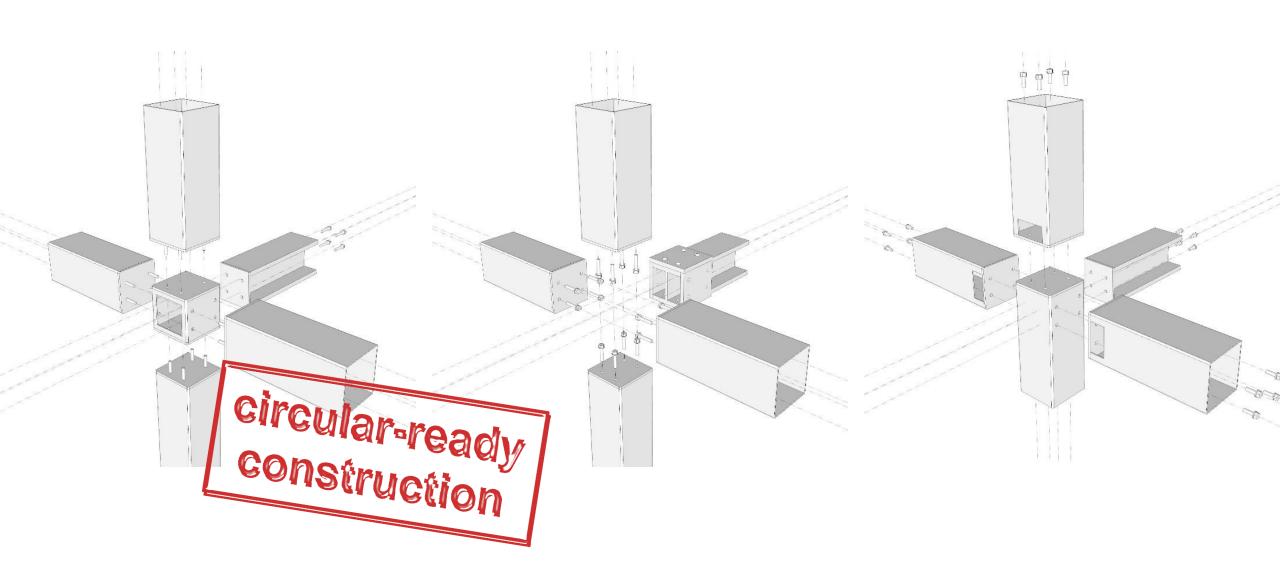


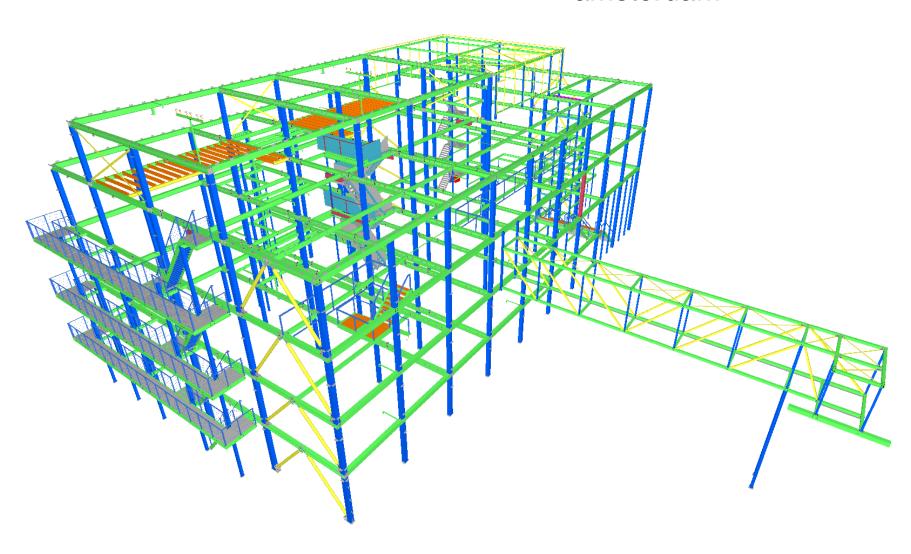


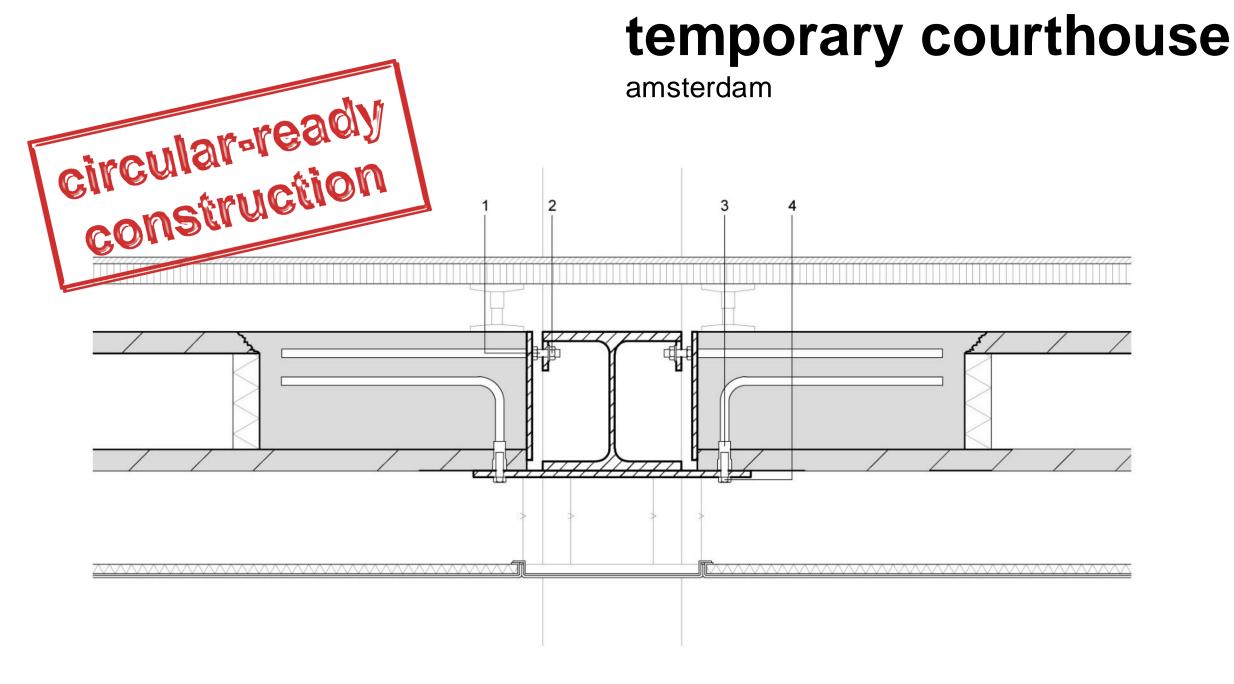




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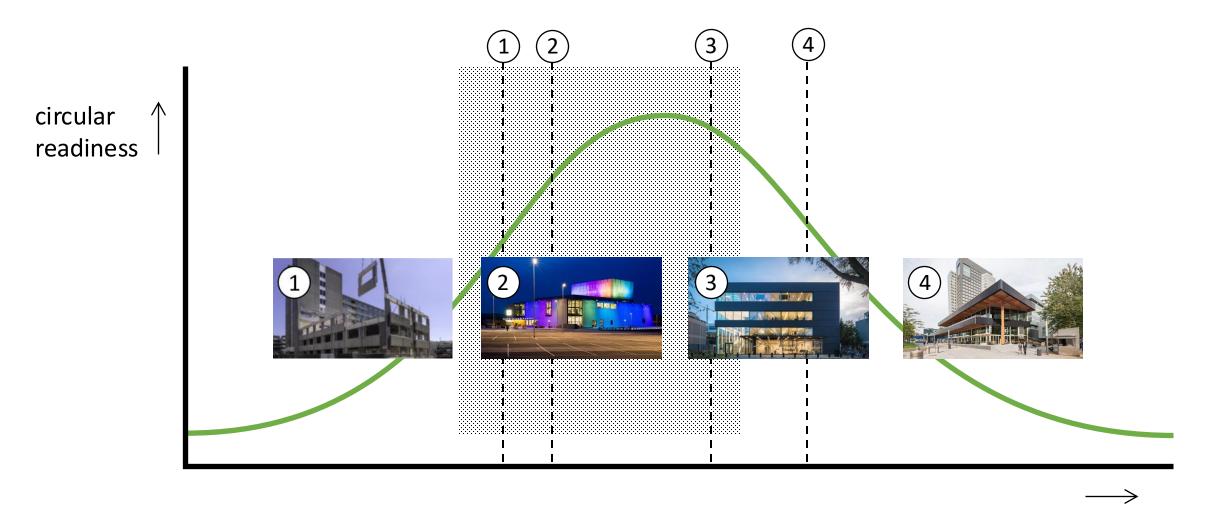




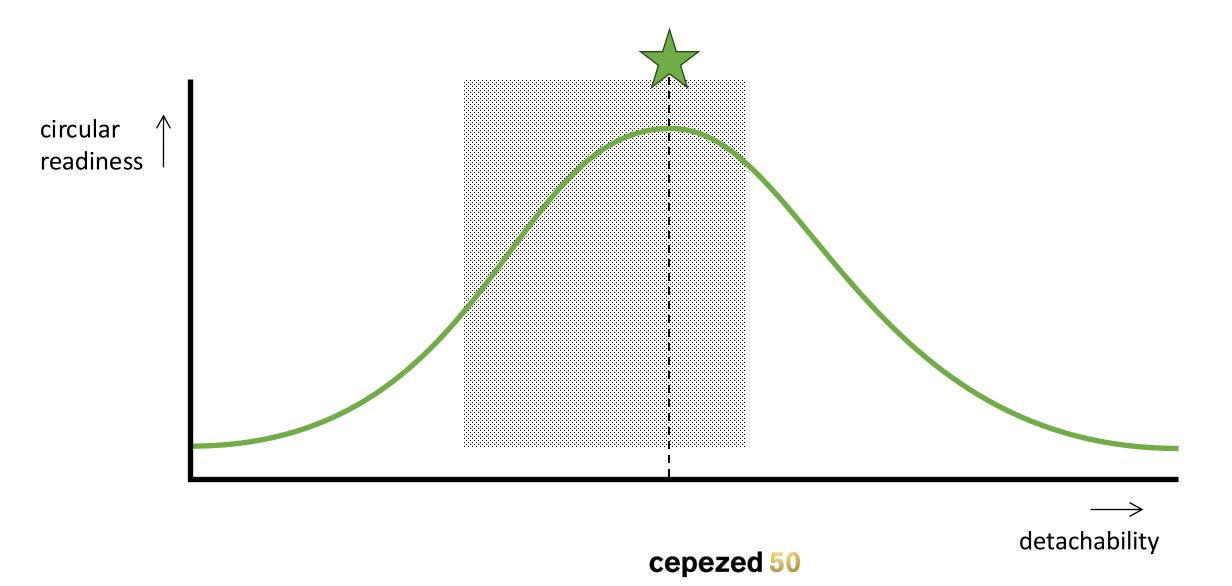




law of diminishing circular readiness



law of diminishing circular readiness





circular ready

ensure your designs are ready for the circular economy

impact

focus on the components with the greatest environmental impact

design for re-assembly

ensure that the value of building components remains accessible for a long time





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