



cepezed

develop | design | build

menno rubbens, msc architect

director cepezedprojects

member

transitionteam circular construction economy

october 4th, 2022

staalbouwdag 2022

best green steel practices

cepezed

develop | design | build



initiative



design / engineering



execution



cepezedprojects

cepezed
cepezedinterieur

cepezedbouwteam



cepezed



**sustainable
development:**

**meet the needs
of the present**

**without compromising
future generations**

brundtland commission, 1987

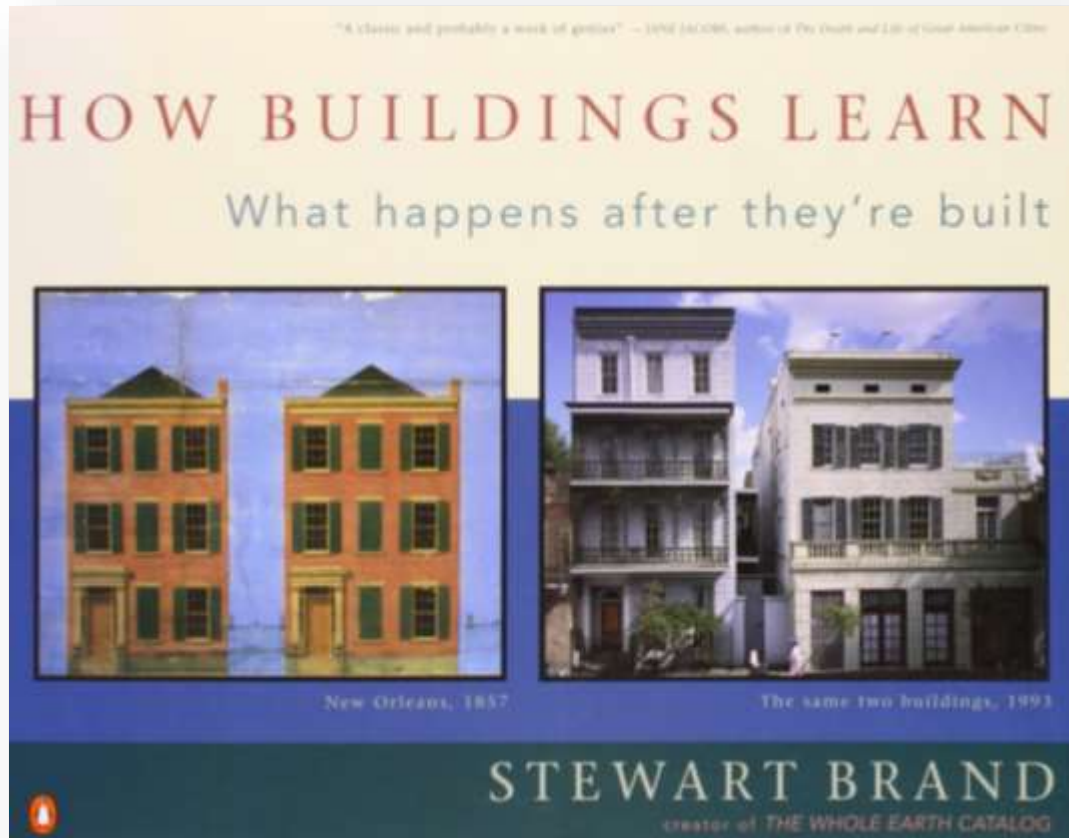
stewart brand

how buildings learn (1994)

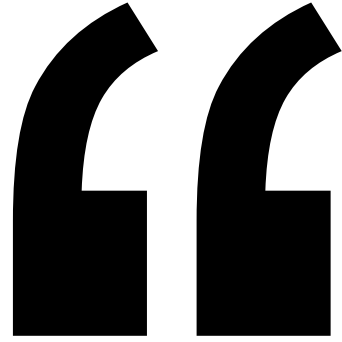
buildings are predictions

premature complexity

shearing layers



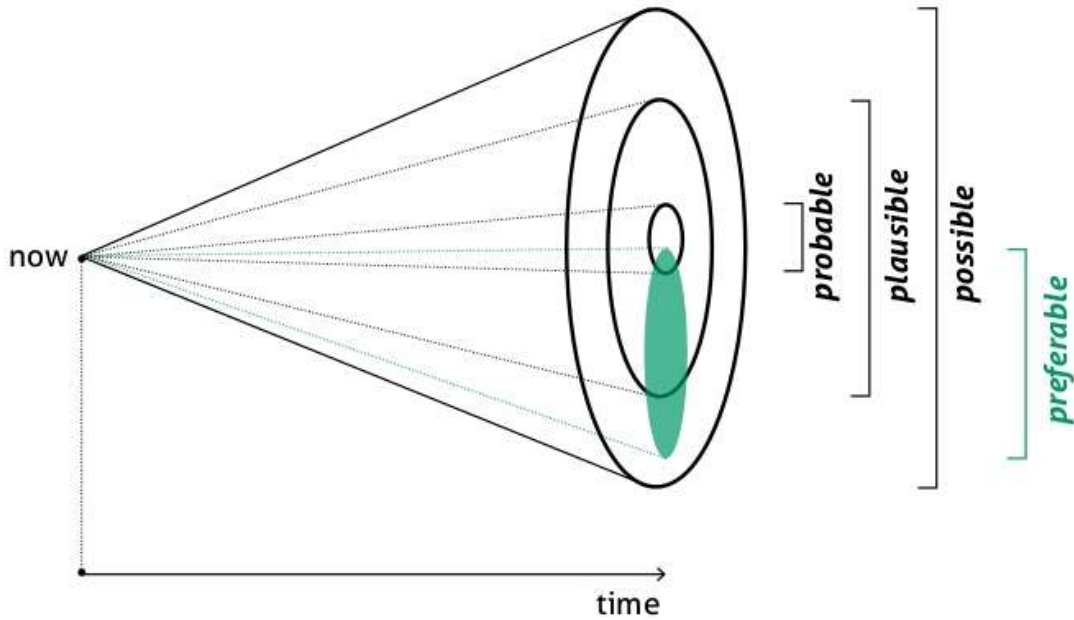
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**all buildings
are predictions**

**all predictions
are wrong**

stewart brand, 1994



Voros (2003)



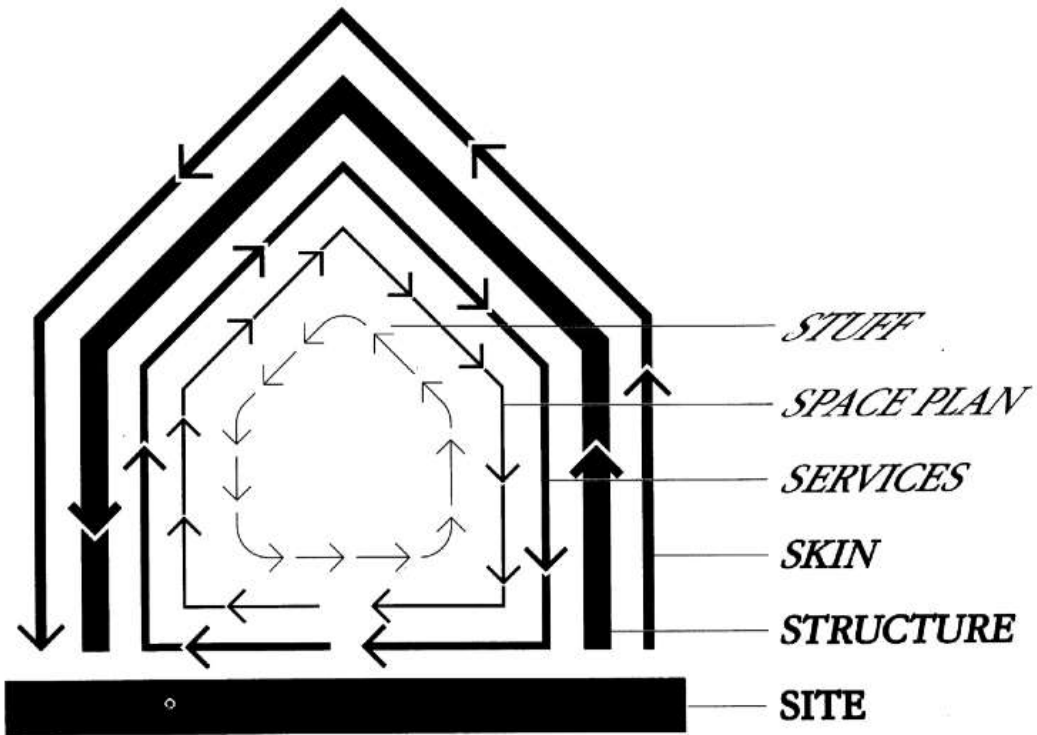
**buildings suffer from
premature complexity**



stewart brand, 1994

“

shearing layers



stewart brand, 1994

circular construction

R-priority

high



low

Refuse

Reduce

Re-use

Repair

Refurbish

Remanufacture

Re-purpose

Recycle

Recover

prevent the use of resources

decrease the use of resources

find **new** product **use**

maintain and **repair**

improve product

create new product from second hand

re-use product for **different** purpose

re-use **raw** materials of product

recover **energy** from waste

temporary courthouse

amsterdam





temporary courthouse

amsterdam

going concern

make space for new building

building the temporary courthouse

demolish the old courthouse

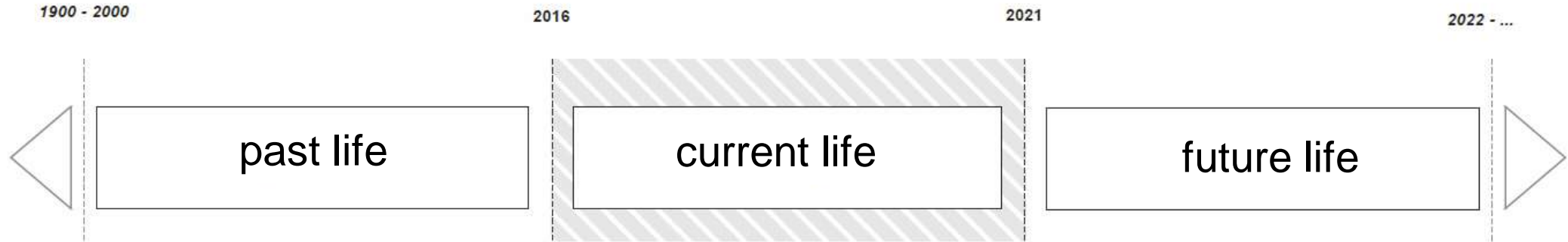
building the permanent courthouse

dismount the temporary courthouse

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temporary courthouse

amsterdam



1.  — 5 yr —>  = 45 yr wasted

2.  — 20 yr —>  — 5 yr —>  = 25 yr wasted

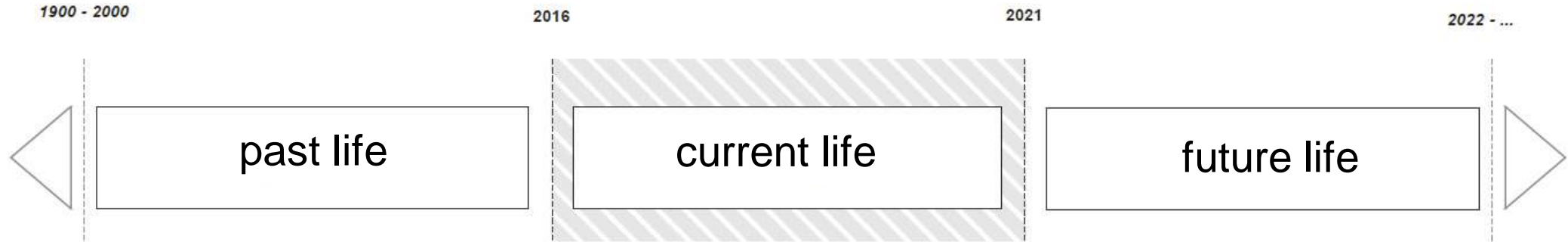
3.  — 20 yr —>  — 5 yr —>  — 25 yr —> = 0 yr

4.  — 5 yr —>  — 25 yr —> = 0 yr

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temporary courthouse

amsterdam



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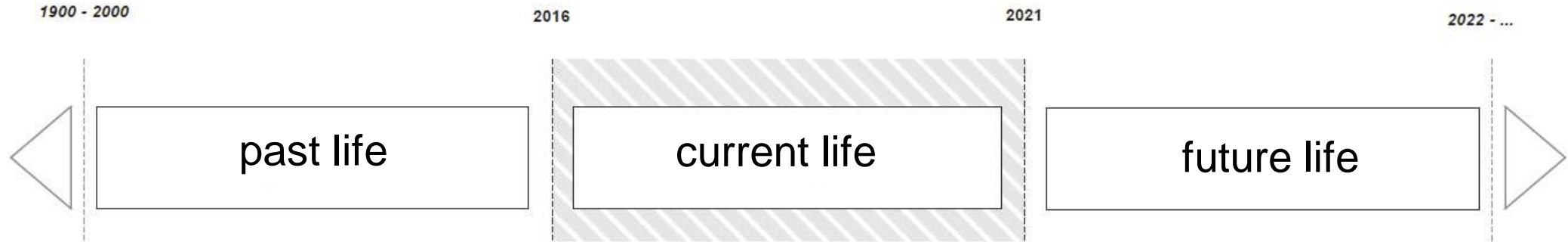
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temporary courthouse

amsterdam



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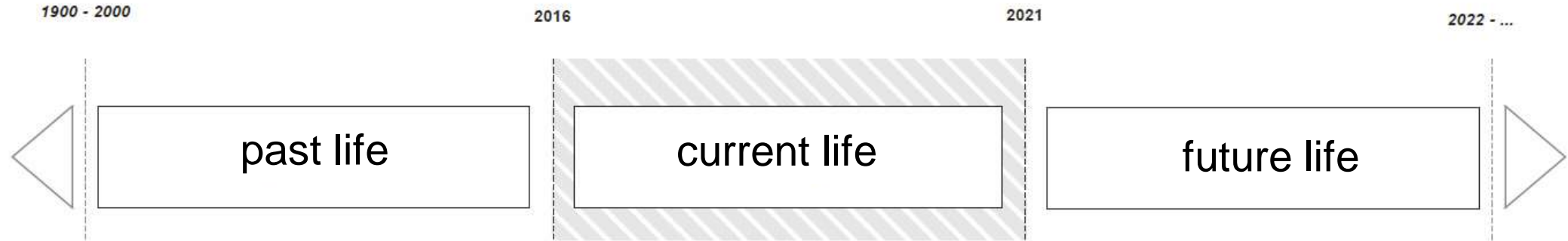
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amsterdam



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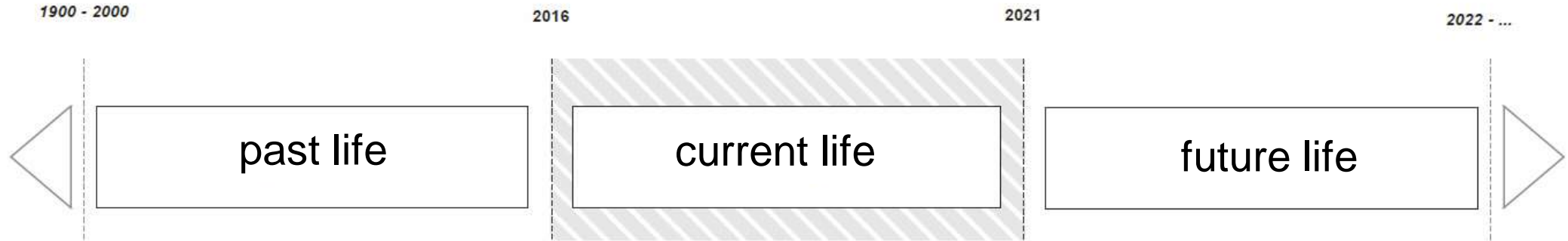
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temporary courthouse

amsterdam



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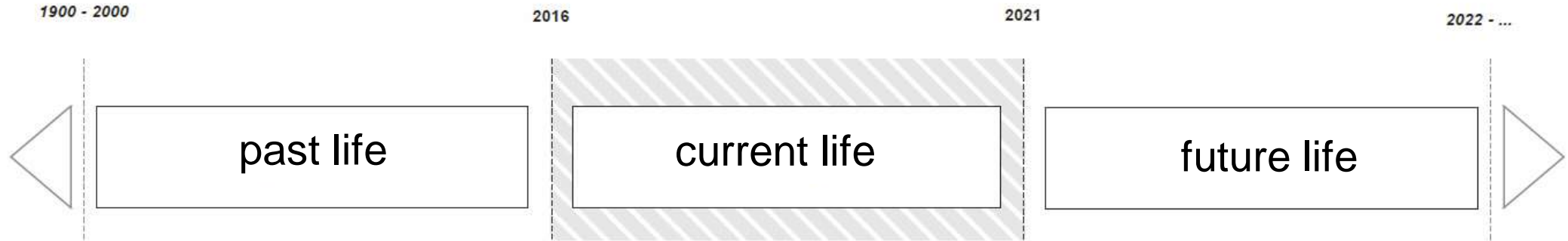
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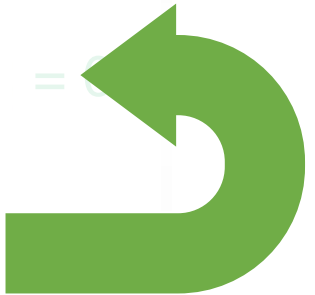


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3.   20 yr    5 yr    25 yr  =

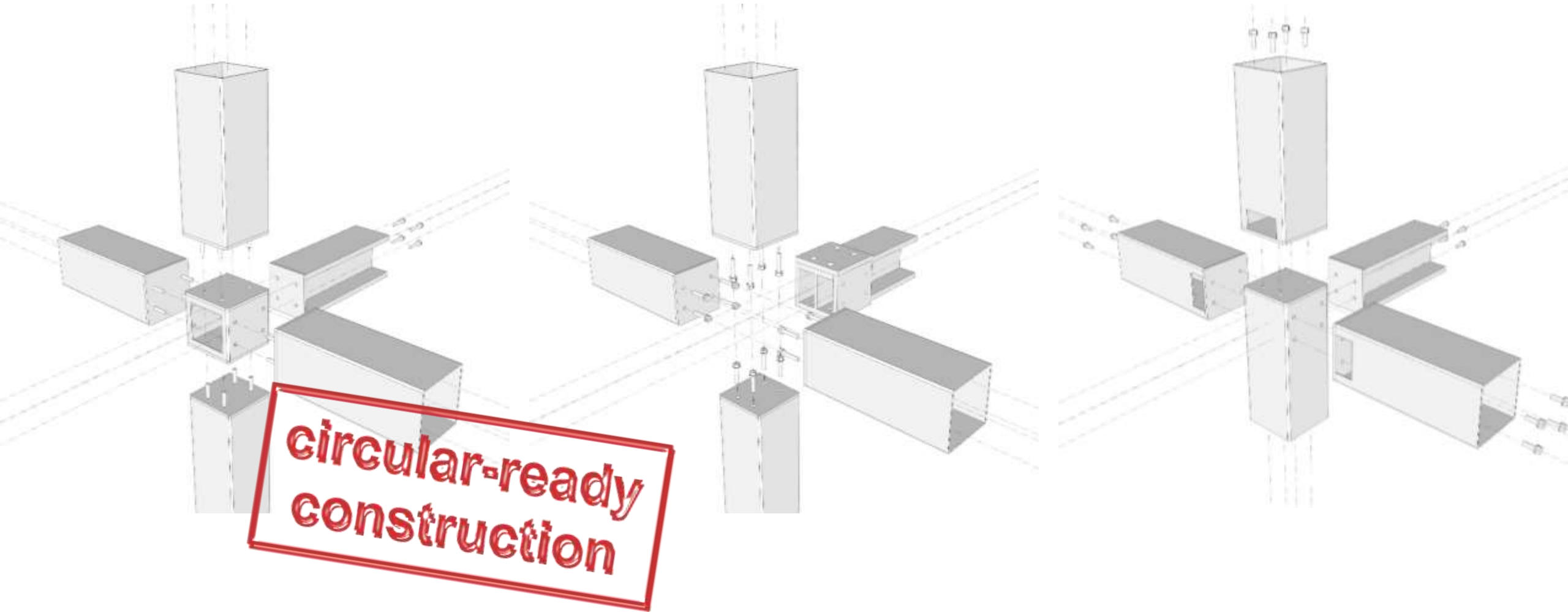
4.   5 yr    25 yr 



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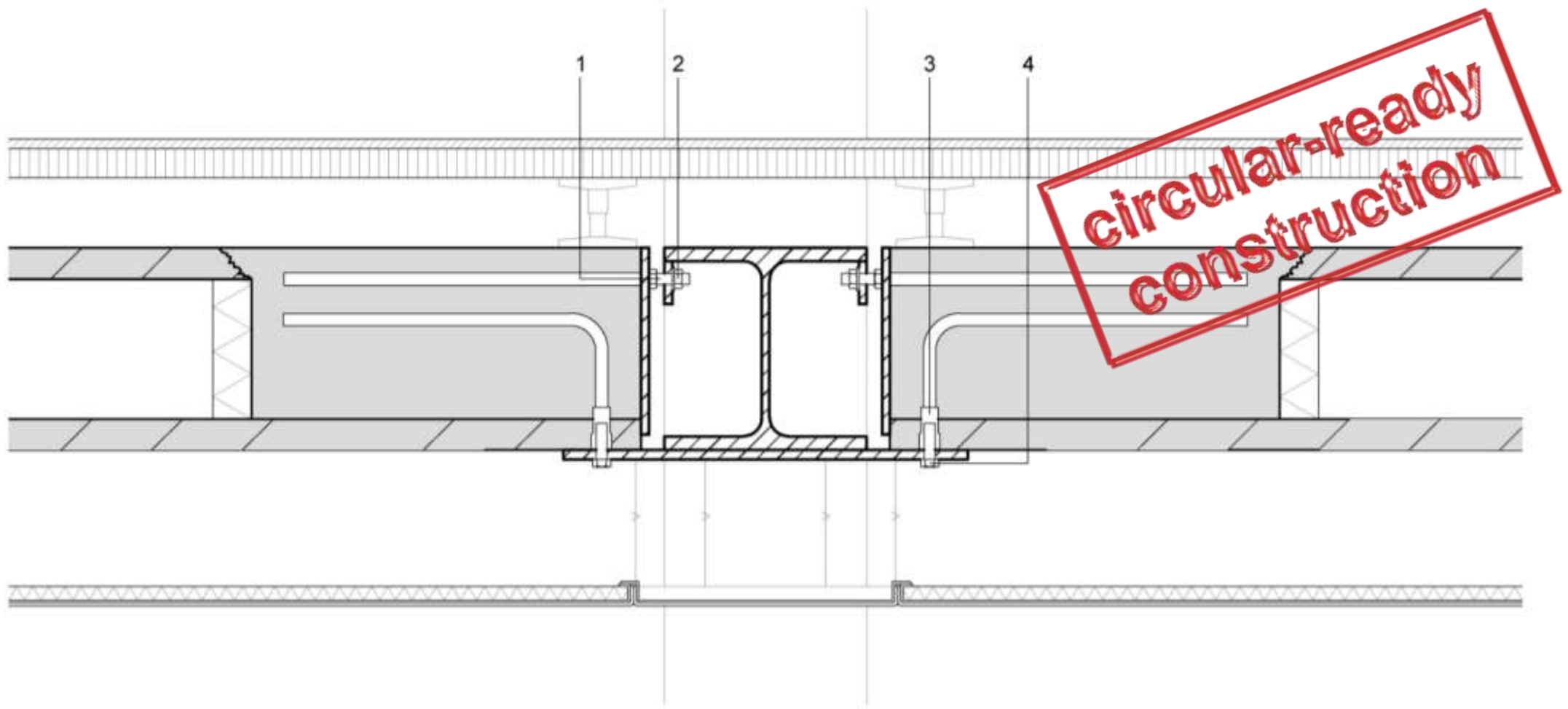
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NOS NIEUWS • REGIONAAL NIEUWS • ZA 3 JULI, 14:41

Oude rechtbank Amsterdam gaat met de vrachtauto naar Enschede



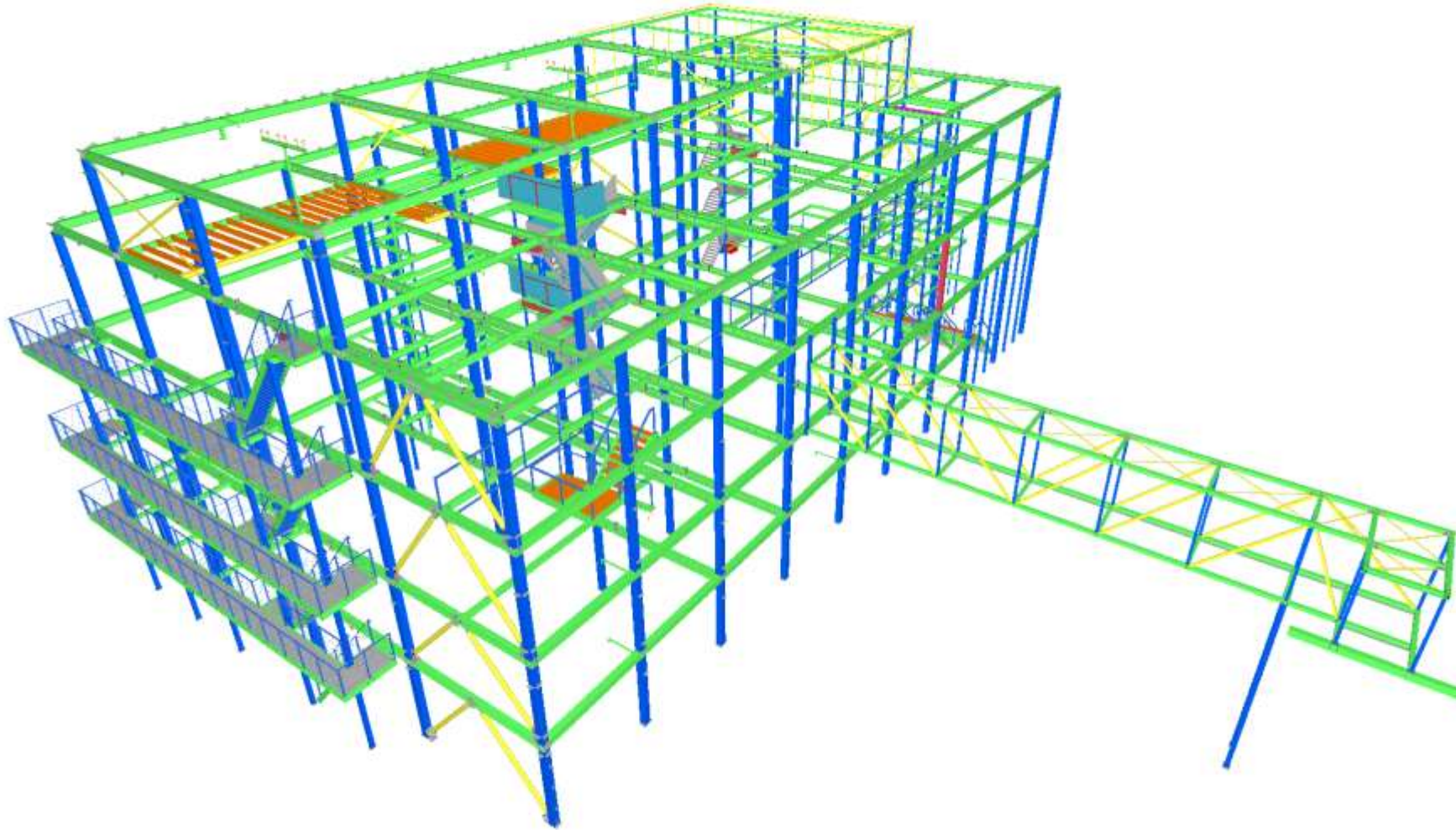
Het tijdelijke rechtbankgebouw zoals dat tot voor kort in Amsterdam stond. **CEPEZED**

Het oude rechtbankgebouw in Amsterdam wordt stukje voor stukje afgebroken, op de vrachtauto geladen en naar Enschede vervoerd. Daar wordt het opnieuw opgebouwd en krijgt het een kantoor- en onderwijsfunctie.

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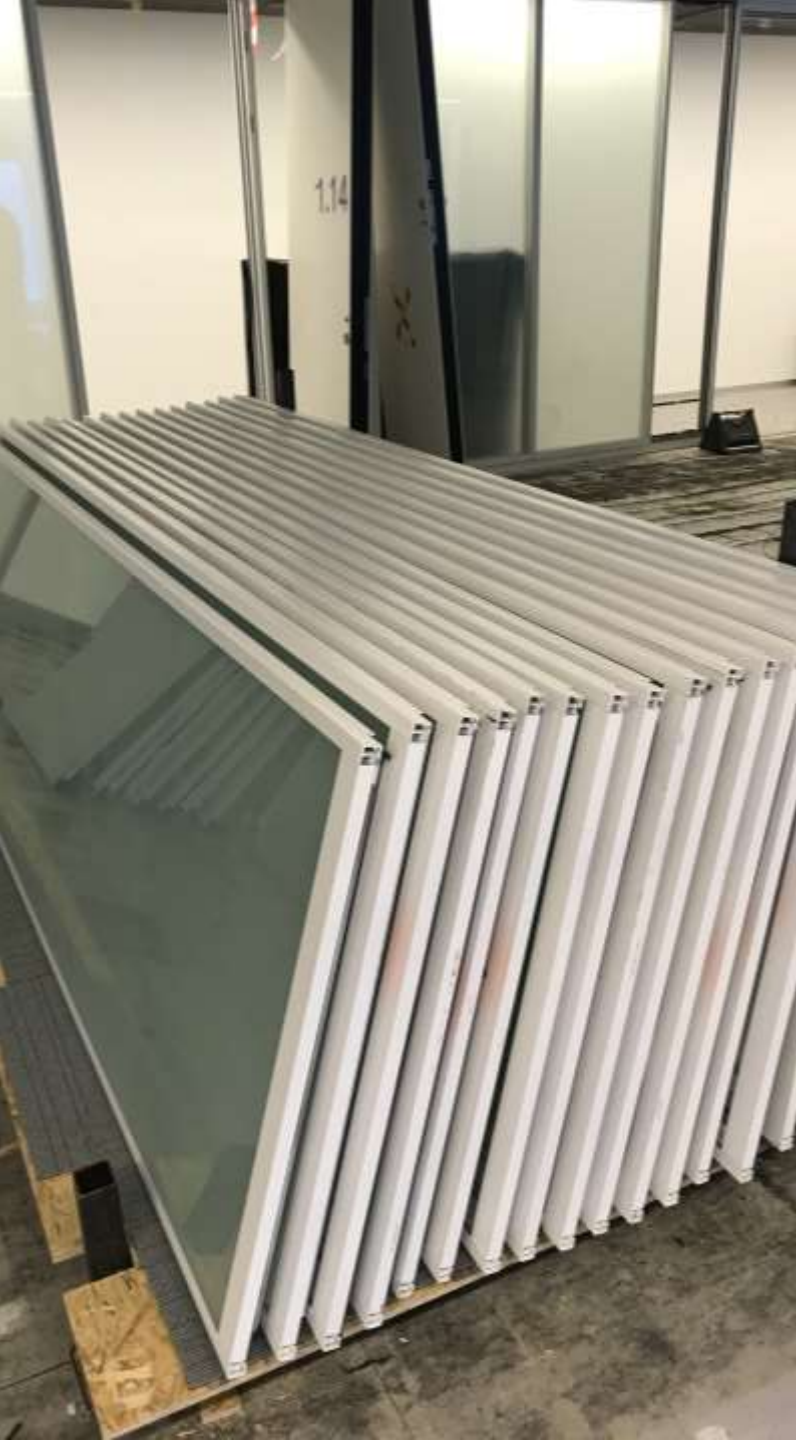
amsterdam



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new location - function

enschede

