

# The Engineers Reuse Collective Thinking Differently

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**The Engineers Reuse Collective is a not-for-profit group of practising engineers championing, accelerating and delivering reuse in the built environment to support the transition of the UK's built environment to Net Zero Carbon.**

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Our mission is to dramatically increase reuse within the built environment, with minimal reprocessing, to support the transition to circular economy principles and to urgently reduce the carbon intensity of the built environment.

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| 1. | Implement | We promote and implement reuse in the built environment through information sharing and positive engagement with stakeholders. |
|----|-----------|--------------------------------------------------------------------------------------------------------------------------------|
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- |    |             |                                                                                                                              |
|----|-------------|------------------------------------------------------------------------------------------------------------------------------|
| 2. | Demonstrate | We actively demonstrate and share knowledge of effective solutions, overcoming barriers, success stories and lessons learnt. |
|----|-------------|------------------------------------------------------------------------------------------------------------------------------|
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- |    |          |                                                                                                             |
|----|----------|-------------------------------------------------------------------------------------------------------------|
| 3. | Champion | We challenge, encourage, and champion our clients and those we work with to maximise reuse on our projects. |
|----|----------|-------------------------------------------------------------------------------------------------------------|
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- |    |          |                                                                                                     |
|----|----------|-----------------------------------------------------------------------------------------------------|
| 4. | Advocate | We provide a proactive, influencing, and collective voice for engineers to promote increased reuse. |
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**“Collective of minds focused  
on positive action and  
empowerment”**

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## The Engineers Reuse Collective



ARUP



BDP.

BLYTH&BLYTH

BURO HAPPOLD

CENTRESPACE

CIVIC  
ENGINEERS

conisbee  
Consulting Structural and Civil Engineers

CUNDALL

Davies  
Maguire

Design  
ID

DESIMONE

Eckersley  
O'Callaghan

ElliottWood

engineersHRW

ENGENUITI

Think | Design | Engineer

EVOLVE



format

geni  
ENGINEERING

HEYNE  
TILLET  
STEEL

integral  
engineering design

Interspan

mnp  
mason navarro pledge

PRICE &  
MYERS

RAMBOLL



Thornton  
Tomasetti

Tullys

WEBB  
YATES

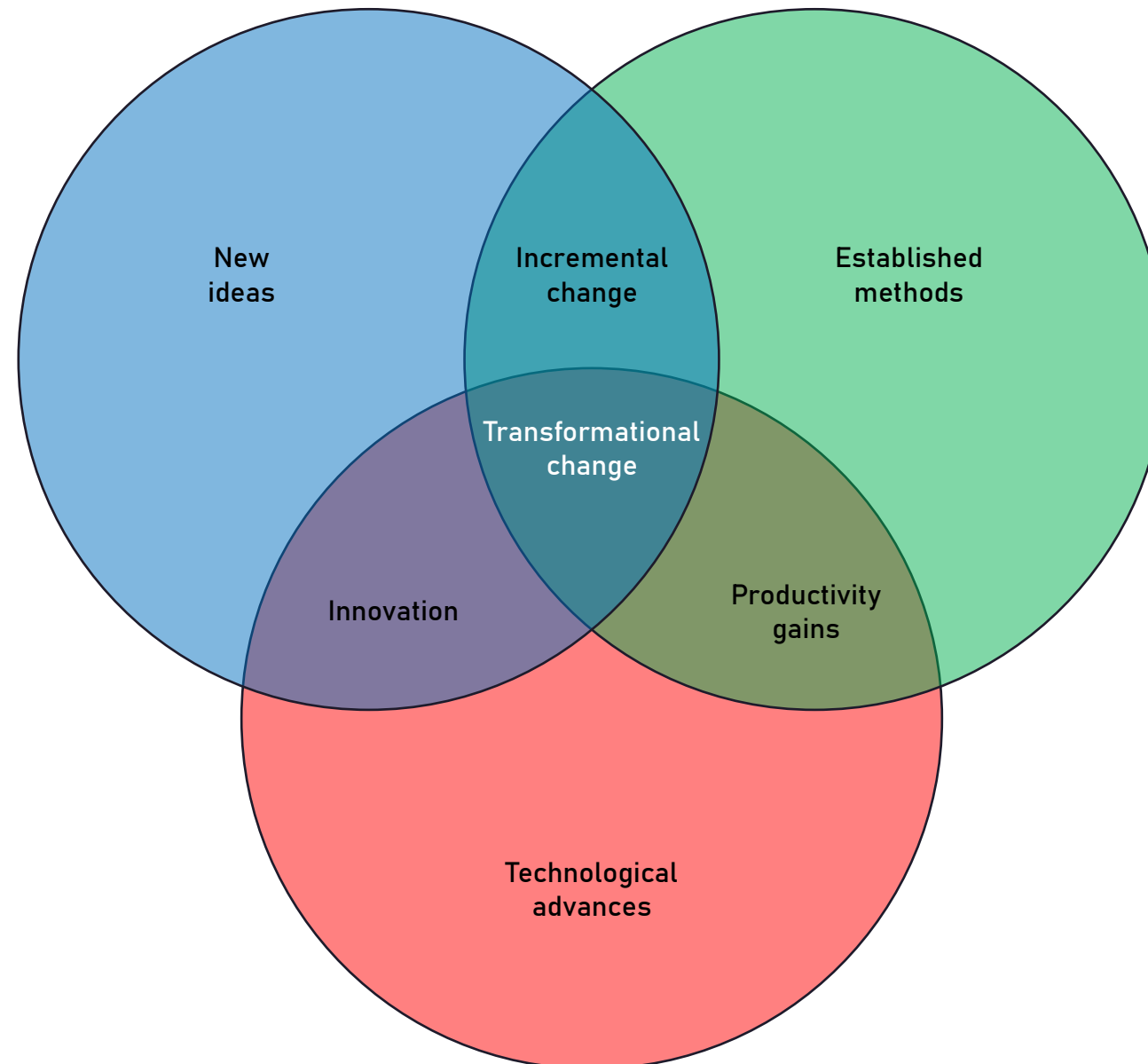
whitby wood

WSP

IStructE

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## Change



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## Change



1960



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## Change



1980



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## Change



2000



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## Change



2020



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## No more destructive demolition?

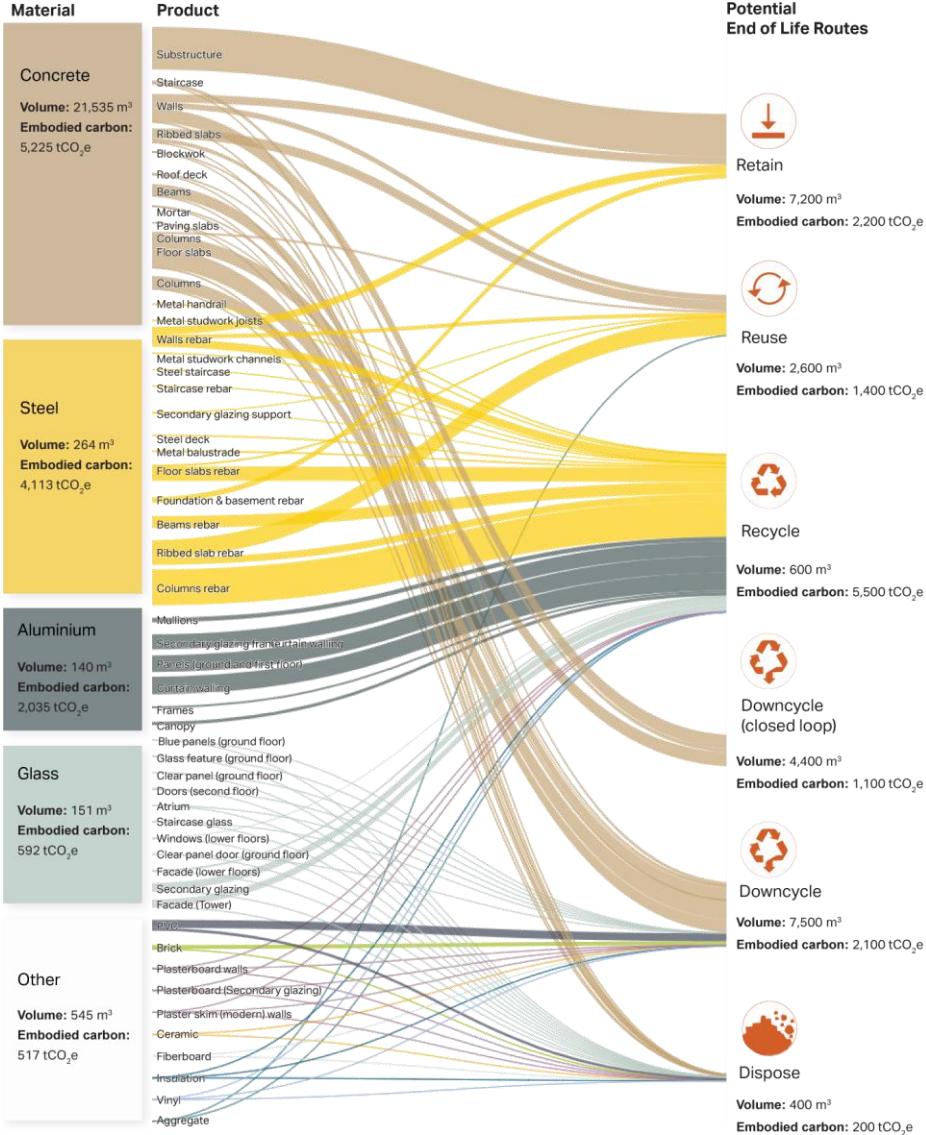


## A thought experiment:

- What would you do if no new raw materials were available to use?
- How would you design a building using only what is already available?

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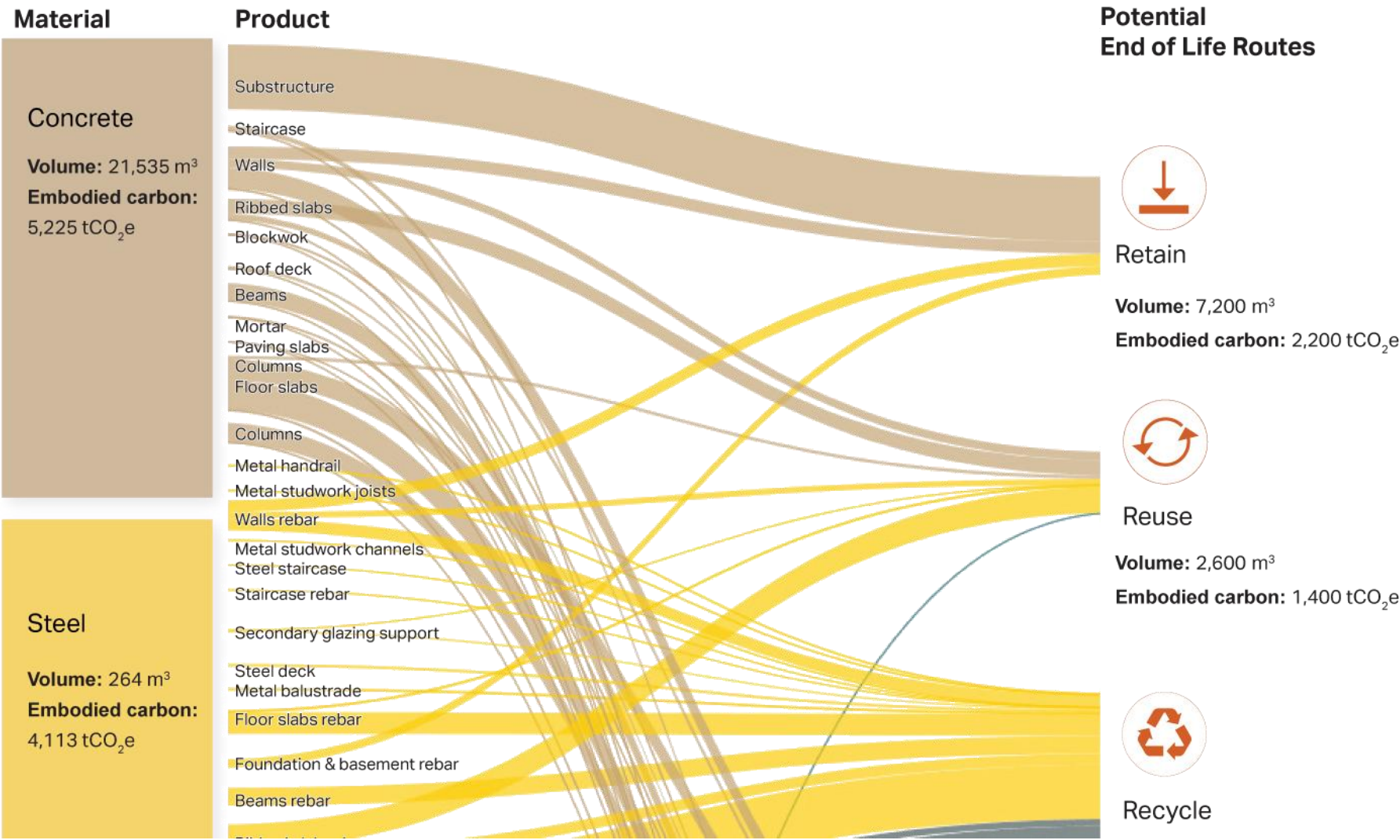
## Planning for reuse





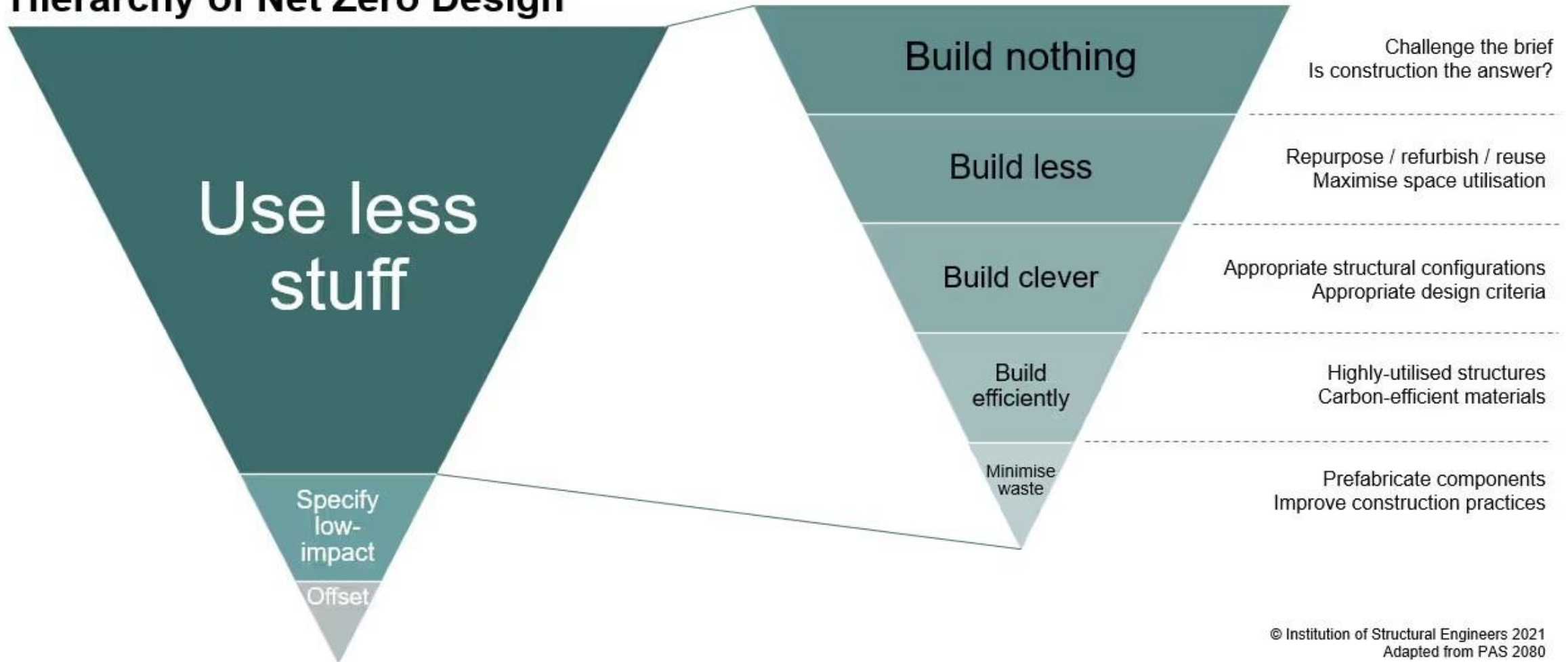
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## Planning for reuse





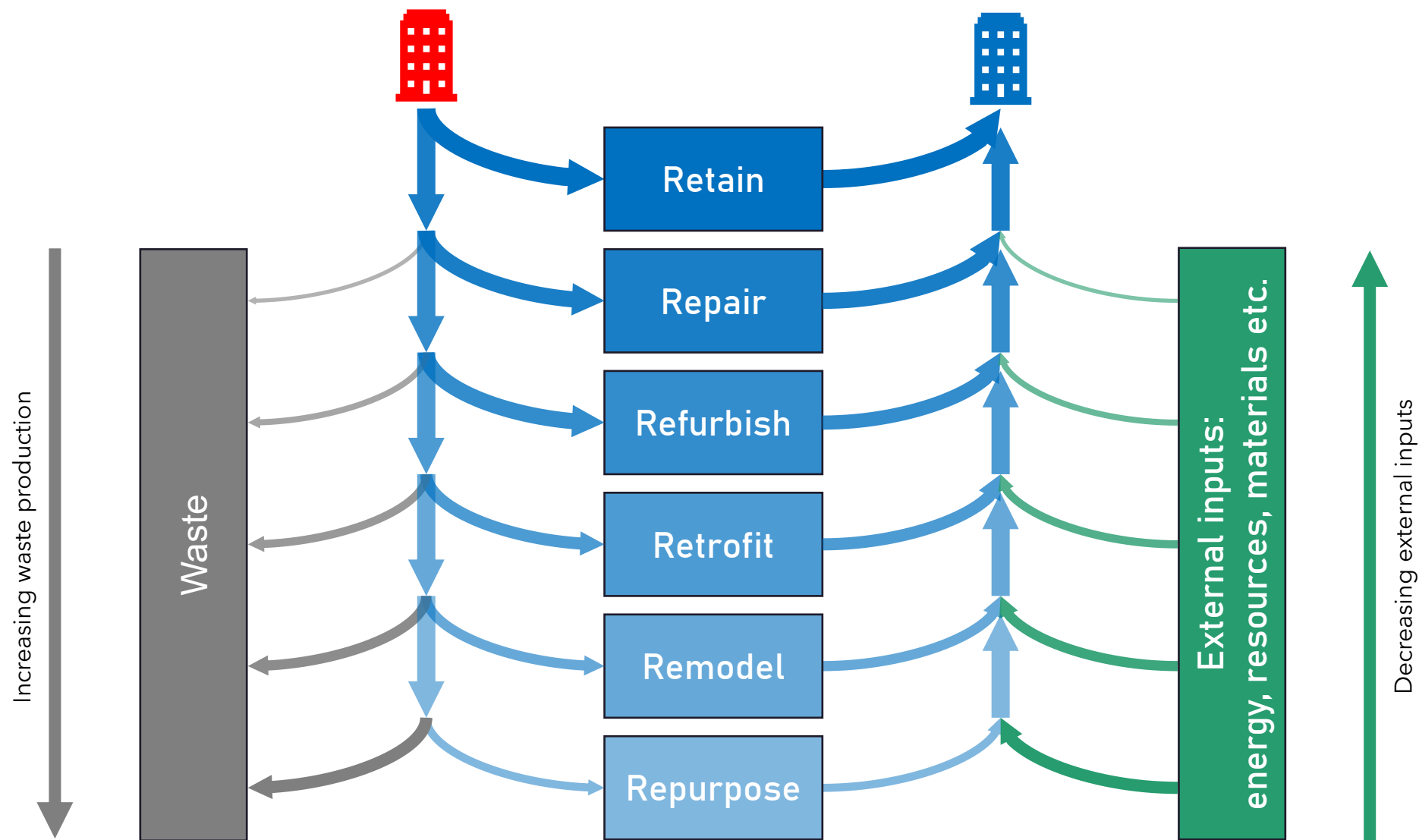
## Hierarchy of Net Zero Design



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Adapted from PAS 2080

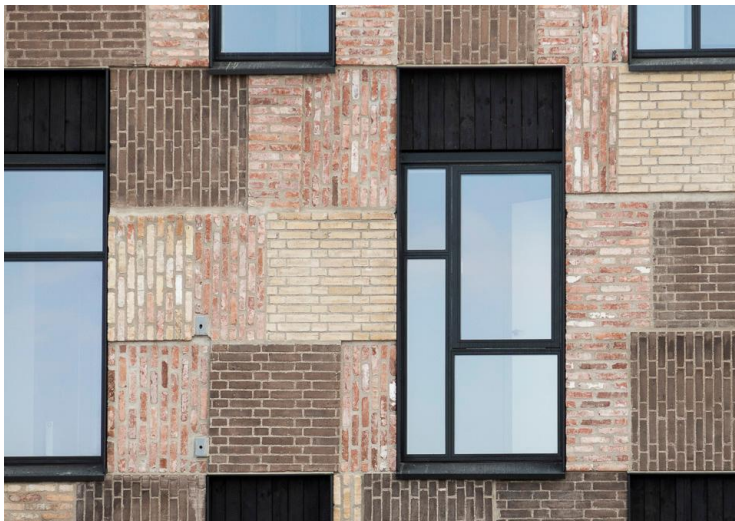
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## The Reuse Hierarchy



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## Material reuse and repurpose





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Retain – repair – refurbish – retrofit – remodel - repurpose





**THINK  
POSITIVELY**

**THINK  
CREATIVELY**

THINK  
CURIOUSLY



THINK  
DIFFERENTLY

**THINK**

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## Thank you

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