## Less is More: Should we build and buy less

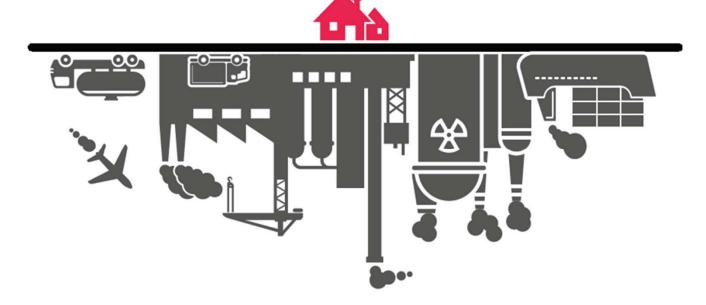
#### Chair

Sara Edmonds
Director, Studio seARCH



#MakingTheatreSustainable





# EMBODIED CARBON IN CONSTRUCTION



#### **ACAN**





Architects Climate Action Network (ACAN) is a voluntary network of individuals from within architecture and its related built environment professions taking critical action to transform our industry in the face of the climate and ecological crises.

ACAN exists to address the way our built environment is made, operated and renewed in response to the climate emergency.

ACAN is driven by three aims:

- 1. Rapid decarbonisation of the built environment,
- Ecological regeneration through the immediate adoption of regenerative & ecological principles, and
- 3. Cultural transformation of the profession.

Campaign for Regulating Embodied Carbon

www.architectscan.org





490 of UK total carbon emissions are attributed to buildings

50m

tonnes of CO<sub>2</sub>e are released every year into the atmosphere from new buildings and infrastructure alone



#### What is Embodied Carbon?



Greenhouse gas emissions associated with materials and construction processes throughout the whole life cycle of a building, including: material extraction, manufacturing, transport, construction, maintenance, repair, replacement, refurbishment, deconstruction disposal.

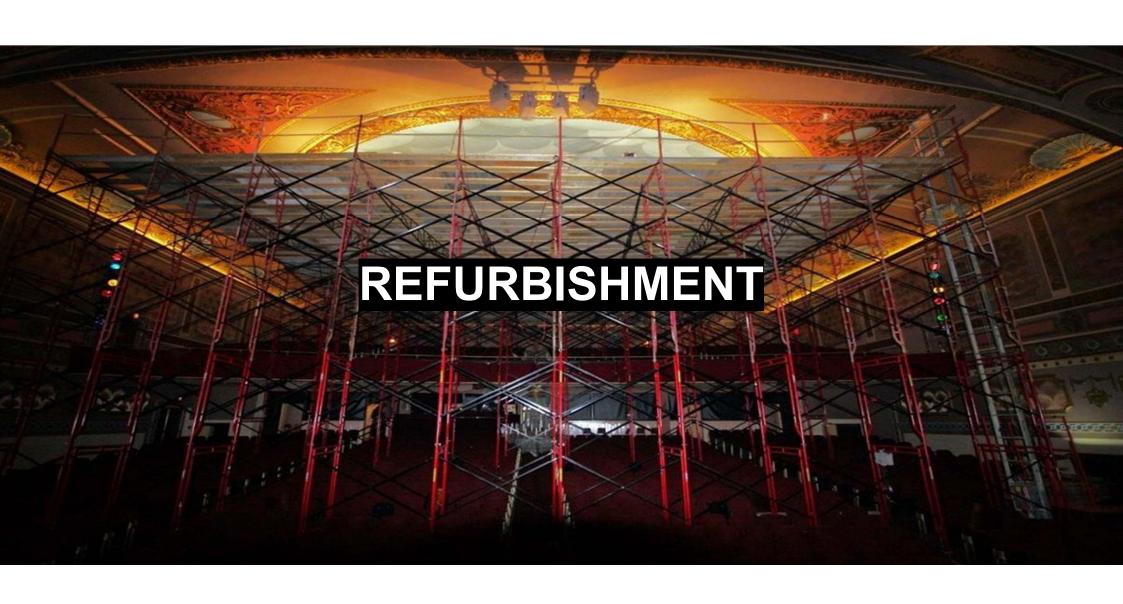
- London Energy Transformation Initiative (LETI) paraphrased







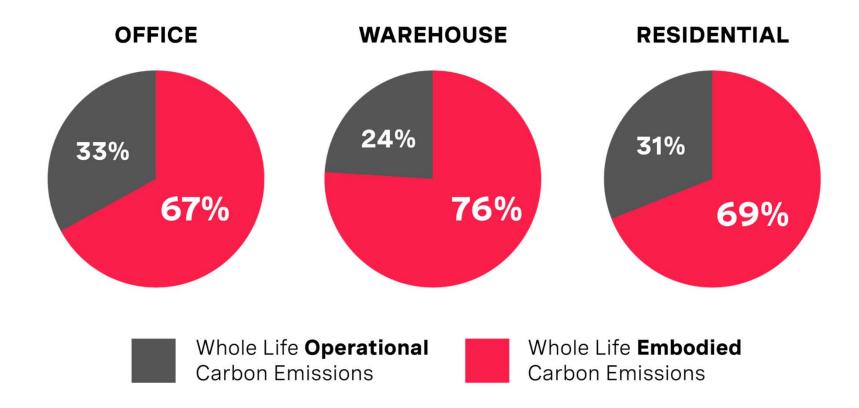






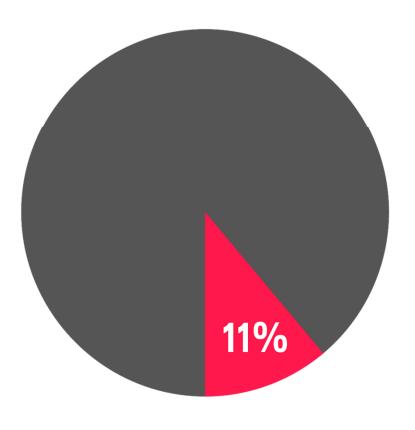






## WORLD GREEN HOUSE GAS EMISSIONS

- **Embodied Carbon** in Construction
- **Everything Else**





### **Further reading**



#### Planning:

**MAYOR OF LONDON** 

## WHOLE LIFE-CYCLE CARBON ASSESSMENTS GUIDANCE

**CONSULTATION DRAFT** 

**OCTOBER 2020** 

#### **Embodied Carbon:**



#### Regulation / Policy:

