

# Future Infrastructure for the South West

What vision do we want and how do we get there?

Theo Tryfonas



# Infrastructures



# Infrastructure pressures

- Capacity
- Ageing
- Funding
- Climate
- ...

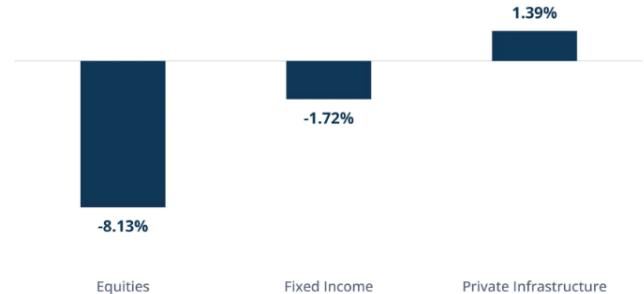


# Traditionally...

- Stable, slow growth, yield oriented investment
- Offers a getaway during economic downturns – ‘certainty during uncertain times’
  
- But also, currently prime target for
  - Digitalization
  - Decarbonisation
  - ‘Deglobalisation’

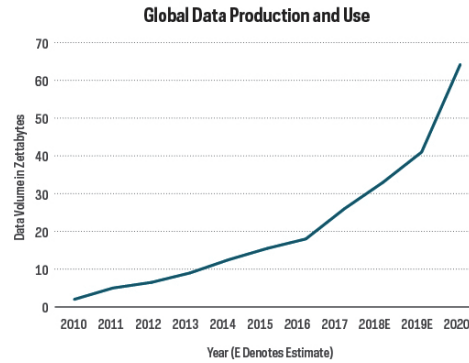
Figure 10: Infrastructure Has Historically Performed Well During Times of Market Uncertainty

Average Quarterly Returns During 10 Worst Quarters for Equity Markets

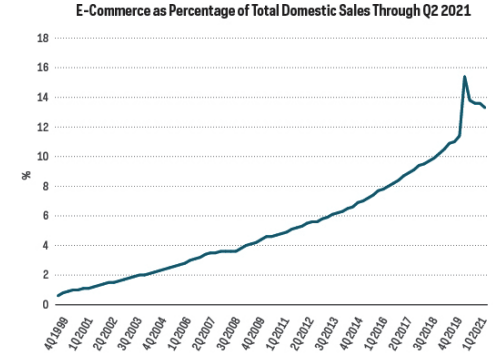


# More precisely

- Data, data everywhere



Source: IDC, Statista, June 2021

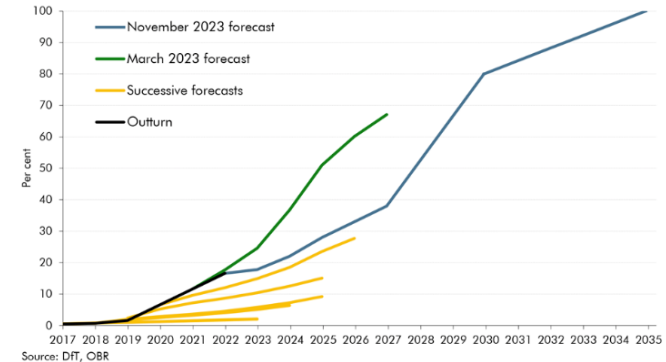


Source: U.S. Census Bureau, August 2021

- Electrification

- Infrastructural adaptations:
  - roads and bridges vs. the high-street
  - where to charge the electric white van?

Chart C: Electric vehicle share of new car sales



Source: DfT, OBR

# #ICYMI – the political context

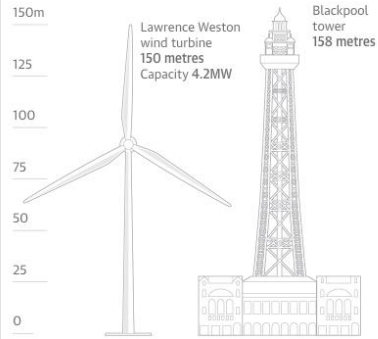


- Planning reform
- Housebuilding
- Return of on-shore wind
- ...



# Something like this then?

Bristol onshore wind turbine to be England's tallest, supplying power to 3,000 homes



Guardian graphic. Source: Bristol Energy Cooperative

bristol.ac.uk



‘They burn our forests...’





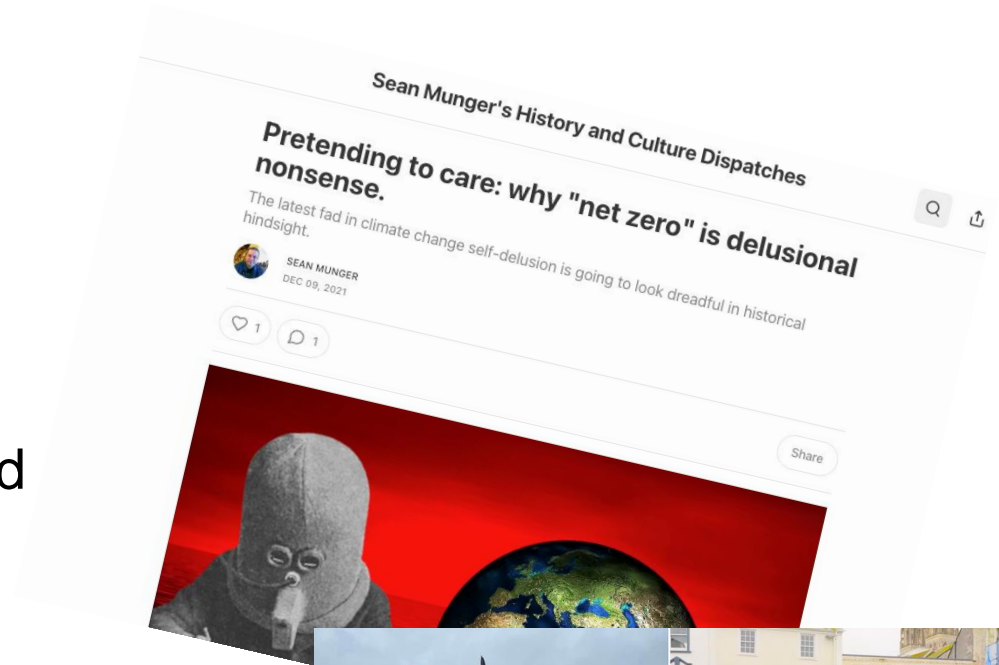
‘open air prisons...’



Protesters marched in Central London carrying boards and signs against the government and other "elites" they believe are trying to enslave them. Source: Getty / SOPA Images/LightRocket

# An easy ride?

- NIMBYism
- Conspiracists
- etc. – but politically motivated



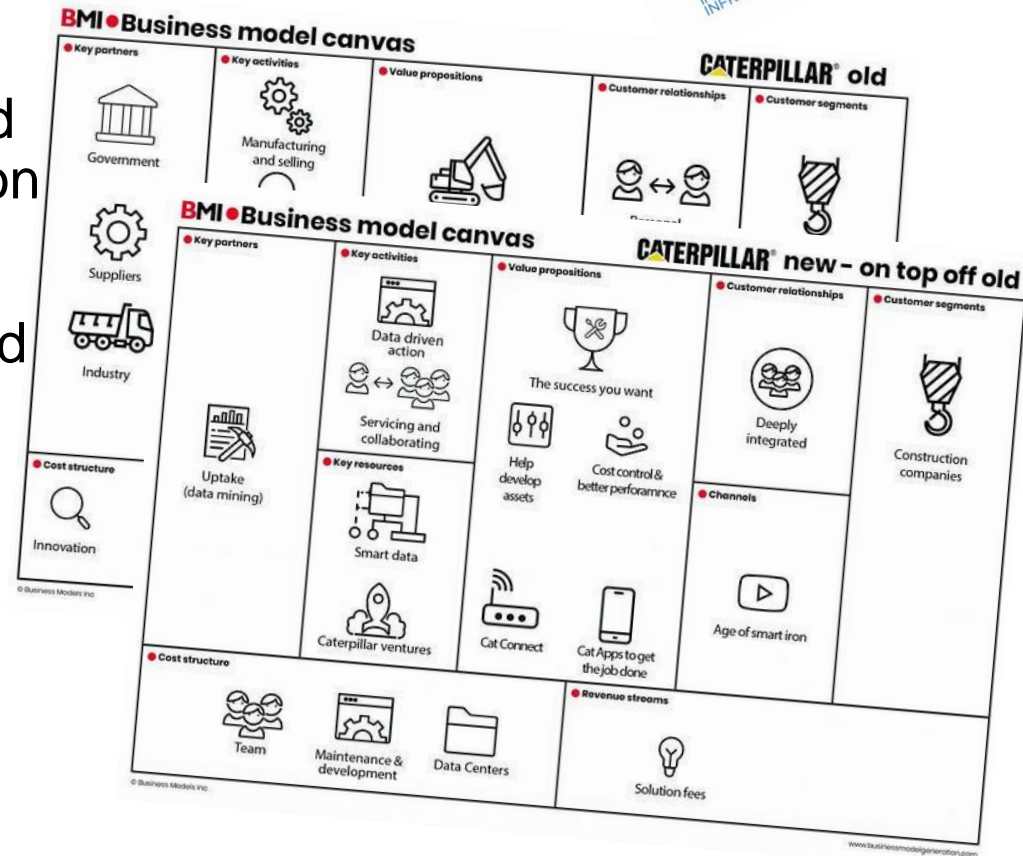
# It's not going to get easier...

- Considering where do these fit
  - IoT/Smart Infrastructure
  - Digital Twins
  - AI
  
- And how these can transform Infrastructure Futures...



# And thus, it's also about

- Understanding operational and business models transformation
- and primarily, the value created





# Engage



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# Share the benefits – and the narrative

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## Lawrence Weston to tackle fuel poverty with wind turbine

© 29 October 2020



CHARLES GAMBLE

Ambition Lawrence Weston hopes the wind turbine will lower energy bills for residents  
**A community-owned wind turbine will be built on land near Bristol to provide renewable energy to thousands of homes.**

Profits will fund a development plan for Lawrence Weston, including a £1.7m community hub providing training, social support and debt advice.

Community team Ambition Lawrence Weston hopes the 492ft (150m) wind turbine will be working by spring 2022.



Source: Darren Jones/Facebook

# Smart infrastructure?



# Embrace the serendipity: Accidental(?) Resilience



Typical polikatoikias in Piraeus, the main port district of Greater Athens. Photographer: Kypros/Moment via Getty Images

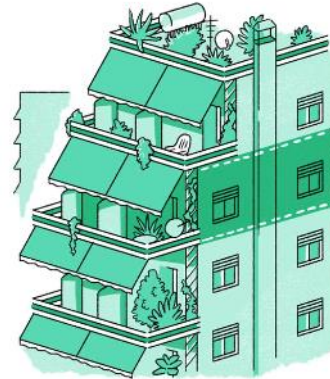
Citylab | Design

## Behind the Accidentally Resilient Design of Athens Apartments

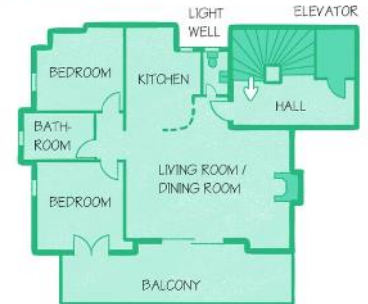
Athens polikatoikias — concrete apartments with tiered balconies — were built quickly to create affordable housing, but their design has stood the test of time.

By [Feargus O'Sullivan](#)

15 July 2020 at 06:00 BST



### POLIKATOIKIA



A rendering of a typical polikatoikia facade and apartment floor plan. *Illustrator: Josh Kramer/Bloomberg CityLab*



# Some Sources

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Thank you

