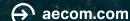


Infrastructure, climate change and social value

Natasha Issa September 2022

Embrace new and different

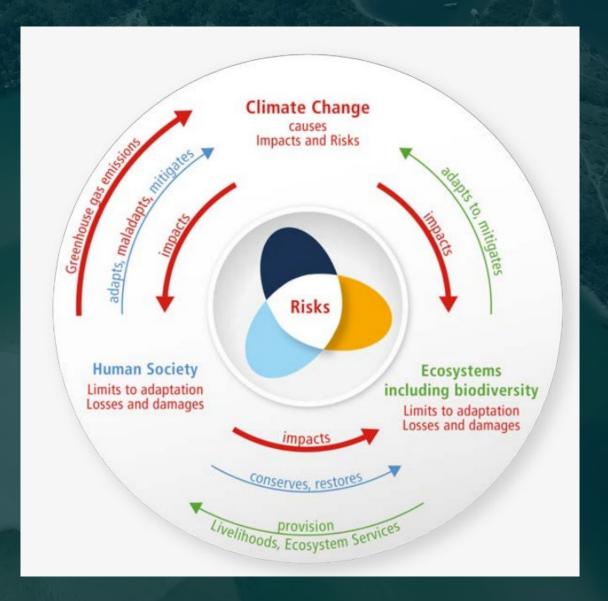


Overview

- 1 Why does infrastructure play a critical role in climate change and social value?
- 2 What role does infrastructure play?
- How do we embed climate change and social value into infrastructure?

Why?

- Around 70% of Australia's carbon emissions are associated with infrastructure projects
- Concrete is the most widely used material on earth, second only to water
- Cement accounts for 8% of the world's global carbon emissions
- Extreme weather will continue to become more frequent and severe



What?

Transport

- Mode shift
- > Electrification
- Land use planning
- ➤ Materials concrete and steel

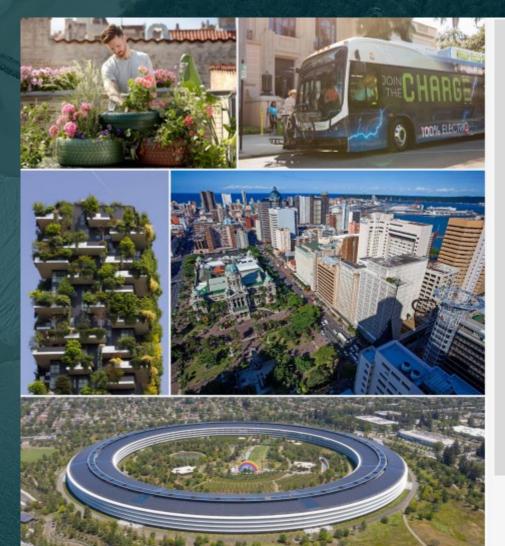






[United Airlines, Jeremy Segrott CC BY 2.0, Andreas160578/Pixabay]

What?



Cities and urban areas

- Green spaces carbon uptake and storage
- > Enable electrification
- Local living



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What?







Buildings

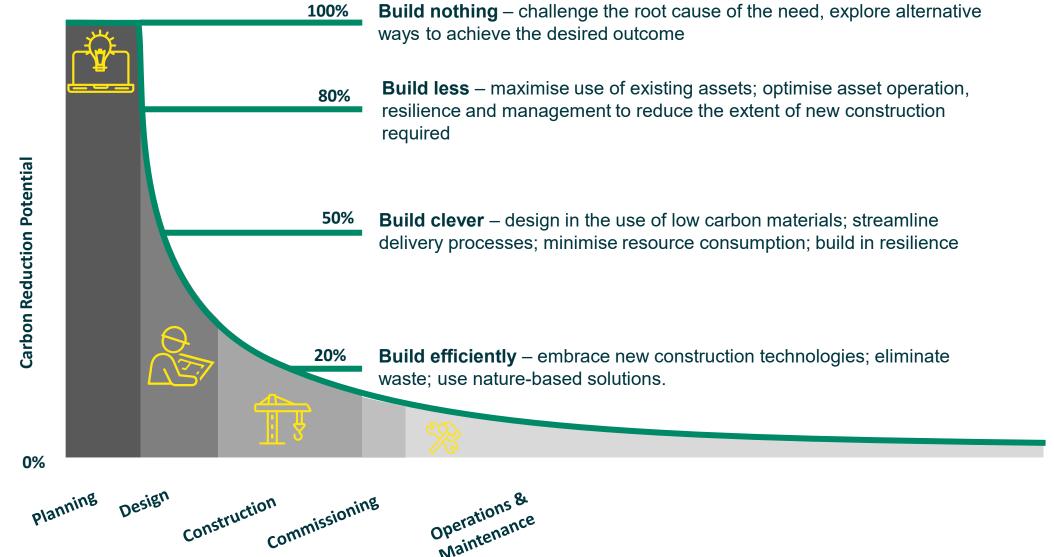
- ➤ Net zero emissions by 2050 zero energy and zero carbon buildings
- > Retrofit existing buildings
- Materials concrete and steel



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How? Listen, engage and learn from local and First Nations communities!







How?

- Sustainability is an outcome not a discipline integration, leadership and culture
- Make sustainability the default option
- > Think and act for now and the future
- Understand and respond to the interdependencies between social, environmental and economic impacts

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