JIAJIN WANG

ECOLOGICAL COASTAL FILTERS

Coastline / 2055 / Sea Level Rise / Tidal Defence
Portsmouth, UK

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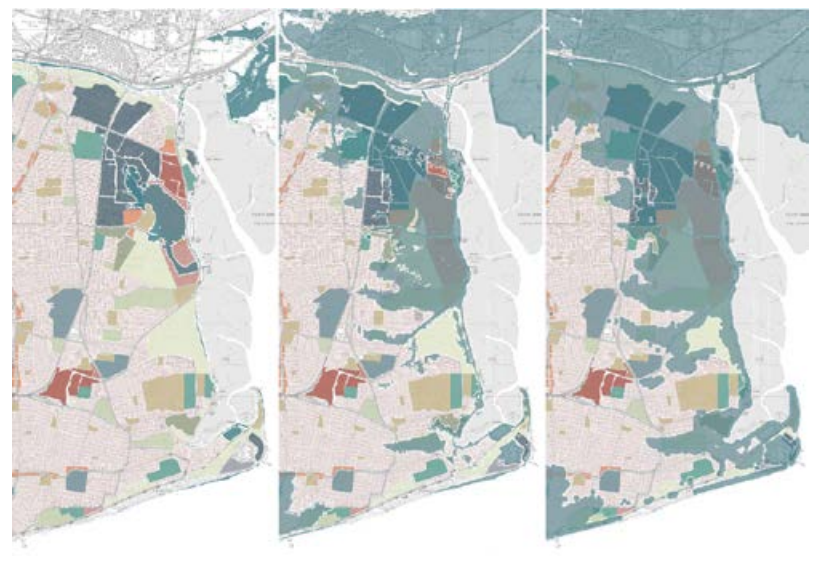
This project will focus on the whole of Portsmouth's coastal flood defence system, up to 35 years into the future (2055). Not only are people at risk, but habitats will also suffer from sea levels rising. Therefore, the overall vision is to use a diversity of ecological engineering methods, along with some conventional approaches, to mitigate against tidal flooding. It will also provide opportunities to extend green spaces along the coastline, protect heritage sites, and provide more settings for human activity.

In order to tackle this trending issue on a challenging scale, I developed a methodology for identifying new locations for sea defences, and determining how tall they need to be. Images 3 and 4 reveal part of this methodology, which is to assess 'which area, in which tidal situation will it be flooded, and who will be affected'. I then demonstrate visualisations of the new defence strategy.

3

2



4

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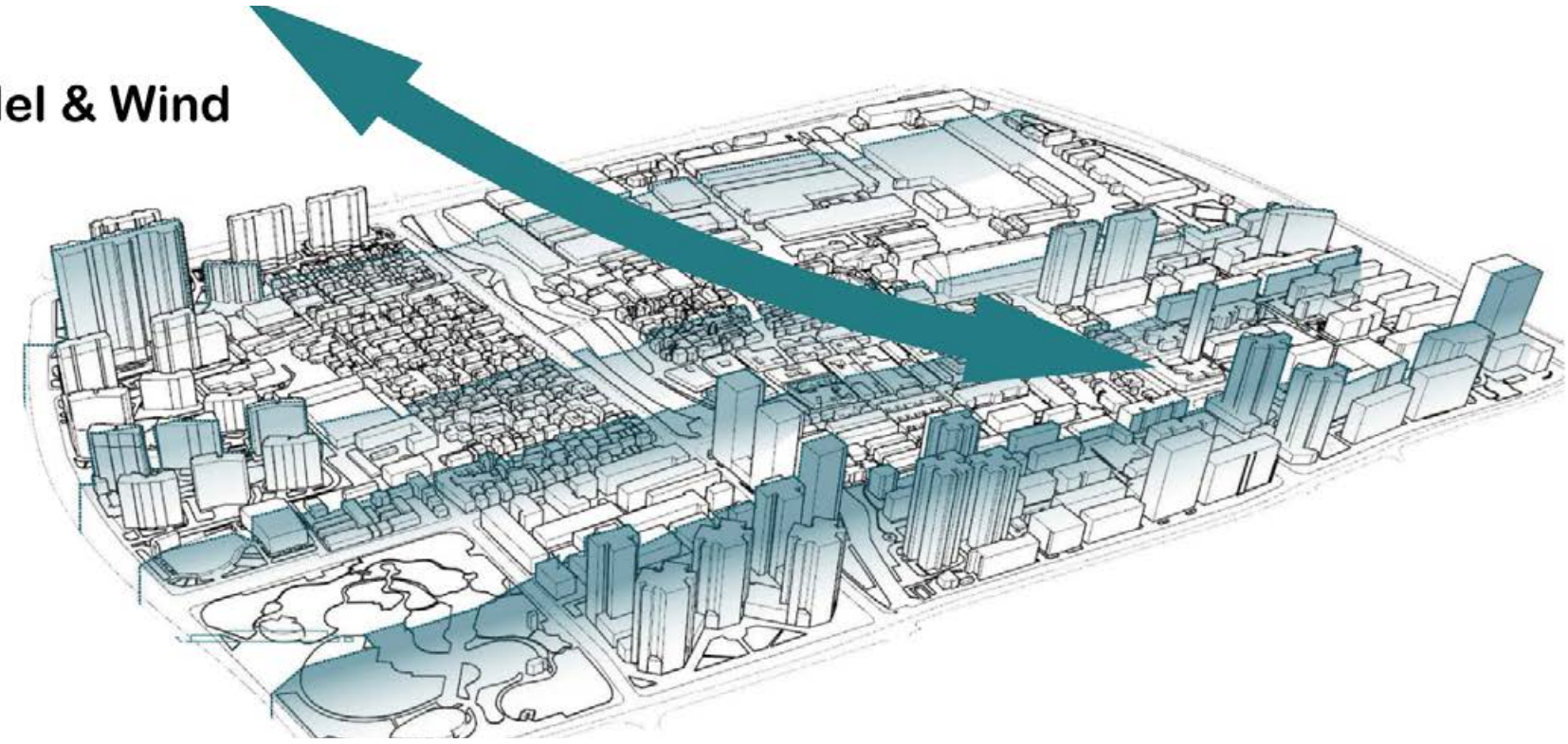
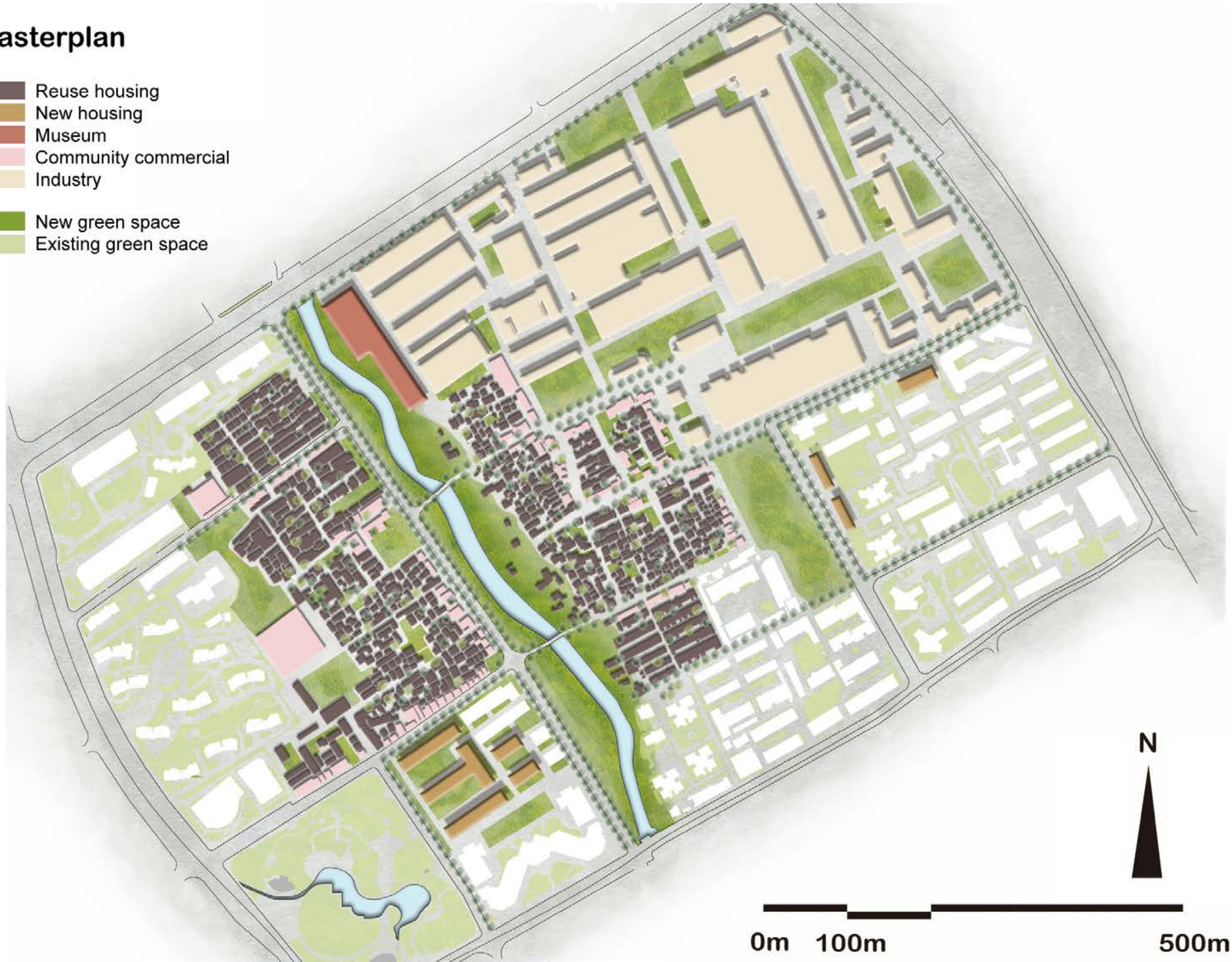
Site Model & Wind



Masterplan

- Reuse housing
- New housing
- Museum
- Community commercial
- Industry
- New green space
- Existing green space



1. Site Model
2. Masterplan
3. Section
4. Design Plan
5. Yard Type
6. Concept Section