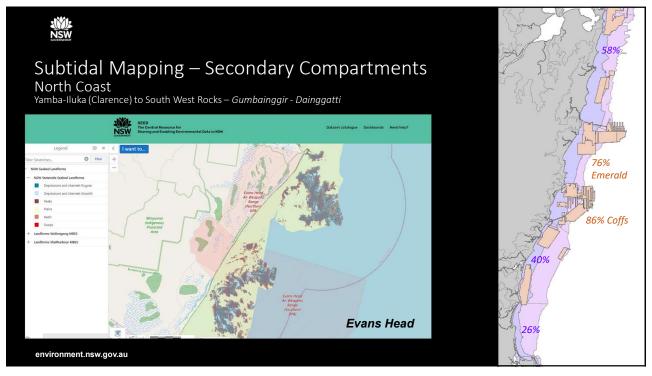
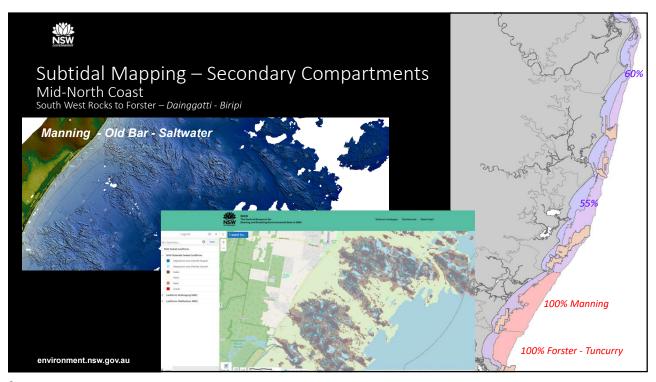
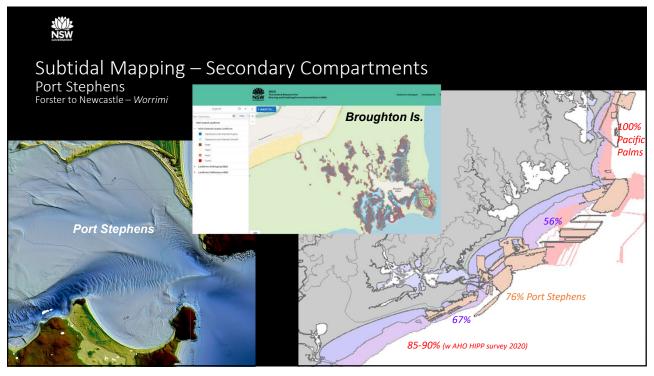


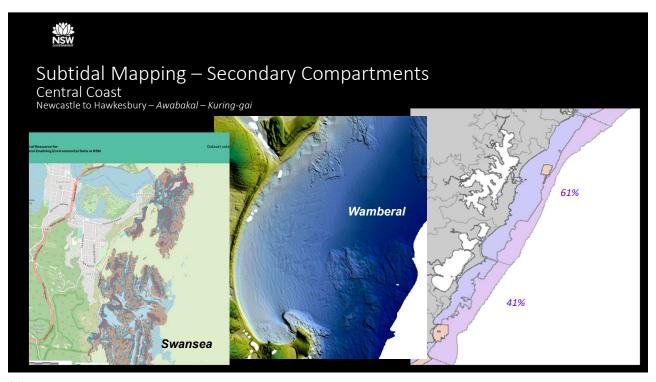


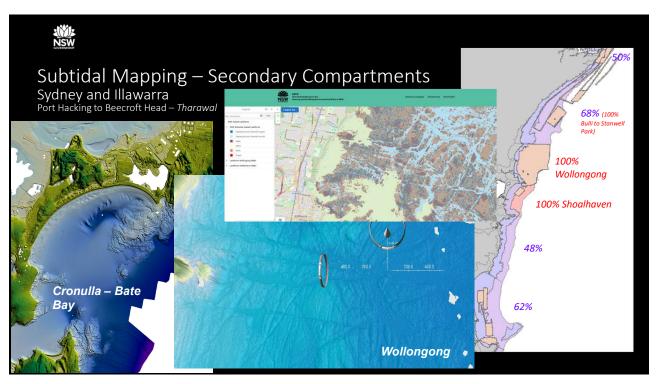
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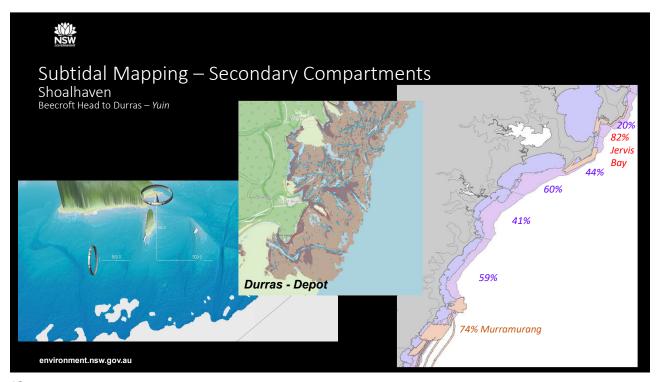


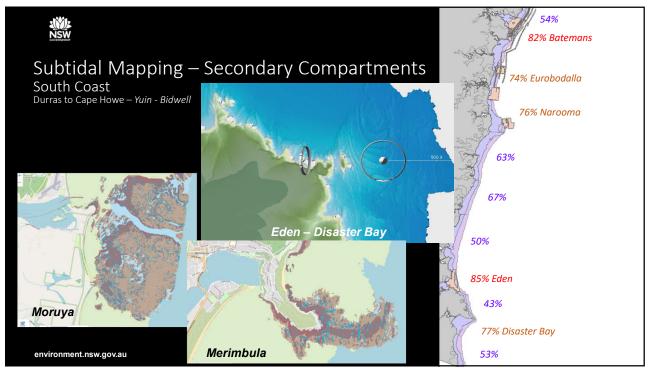


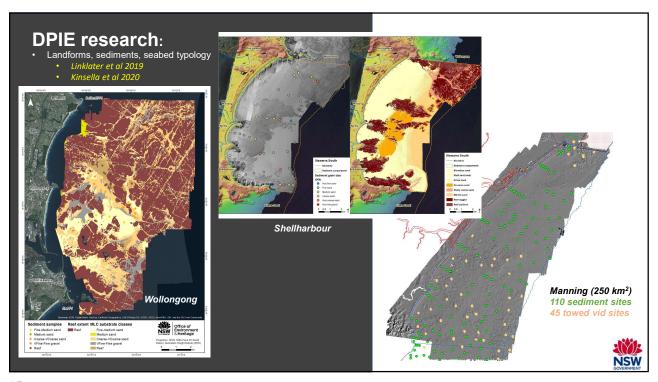








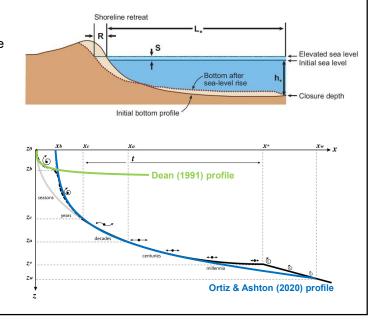




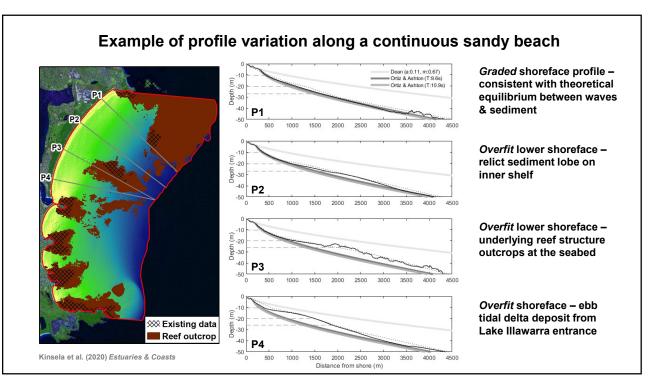


Potential for profile response to sea level rise (Bruun effect)

- 'Bruun effect' coastal profile shifts upward & landward with sea-level rise
- Sand could be lost from the active beach system to an offshore sink, causing shoreline recession
- Does this potential exist in different settings, and, how can we quantify it throughout a compartment?
- We can compare profiles from highresolution seabed mapping data with theoretical equilibrium profiles based on wave climate & sediment type



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Profile analysis reduces uncertainty in shoreline change predictions

- We have accurate shoreface profile survey data for all NSW beaches
- Theoretical equilibrium profiles can be generated using wave climate & sediment data
- By comparing survey and theoretical profiles we can assess the potential for the Bruun effect
- Using a series of profiles or using spatial analysis to quantify profile change volume within a sediment compartment



Example of a reduction in future shoreline change predictions where the potential Bruun effect was found to be lower after profile analysis using high-resolution seabed mapping

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