









So what? Protecting unique values of Port environs • Australian perspective: Outstanding Universal Values of the Great Barrier Reef World Heritage Area - 12 of 16 QLD Ports are adjacent \$251.52 billion/yr of benefits from Australian assets vulnerable to IAS • • Up to \$13.4 billion/yr potential damage cost without biosecurity controls Globally – aquatic invasions costing the economy US\$345 billion, with these costs principally related to asset damages (up to 70%) © PIANC 2022 Values cited from Dodd, A. et al, 2020 and Cuthbert, R et al, 2021; image: https://national-parks.org/australia 6























Climate Change – Challenges for IAS Management

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- How does climate change facilitate spread?:
 - Increasing temp warming patterns
 - Extreme climatic events
 - Shift in seasons
 - Opening of new pathways
 Arctic shipping passages

- Resulting influence of climate change to IAS introduction/ spread:
 - Introduction of new IAS
 - Northward range expansion of IAS
 - Unknown future invaders 'sleeper species;
 - Reduced resilience of native species
 - Challenges of management

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