Adapting waterborne transport infrastructure to climate change

Stakeholder engagement and monitoring good practice

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Navigating a Changing Climate

- A Marrakech Partnership Global Climate Action Initiative
- **PIANC-led**, 8 international partners, c. 40 supporter organisations
- Action Plan has **four themes**

1. Raise awareness of climate-related issues
2. Promote action to reduce GHG emissions
3. Improve preparedness, strengthen resilience, promote adaptation **includes PIANC Working Group 178: Guidance on Climate Change Adaptation**
4. Encourage integrated solutions

WG178 Good practice stakeholder engagement

- Internal stakeholders: **climate change** is **not only an environmental issue**; it affects many departments

- External stakeholders: ports/waterways cannot operate effectively in isolation; many **interdependencies**

- Limited benefit in raising, strengthening and defending infrastructure if the port has no power or access roads are flooded and the workforce cannot get to work

- Climate change is a common problem; identify others with common goals; common goals can lead to **shared responsibilities** and contribute to shared costs

- Similar issues for other transport sectors

- **State** of physical assets. Why? Informs decisions on maintenance requirements: maintenance is critical to resilience and preparedness for extreme events

- **Condition** of critical assets. Why? Helps inform decisions on <u>when</u> adaptation action is needed

- Operational **performance**. Why? Informs decisions on <u>when</u> change is needed

- Local **rates of change** in key climate parameters and processes. Why? Understand critical threshold exceedance; helps inform decisions on <u>when</u> adaptation action is needed
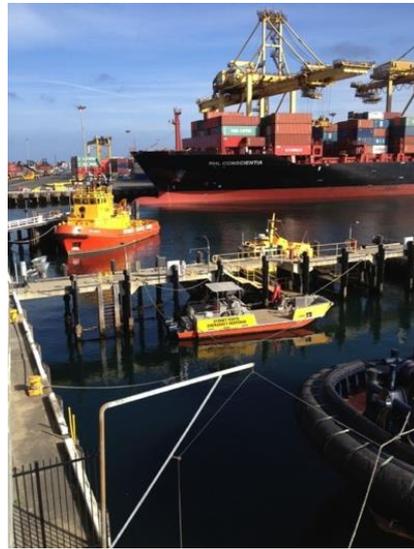
- **Costs** and **consequences** of **extreme events**. Why? Understanding the 'cost of inaction' helps to justify the incremental investment needed to strengthen resilience

- **Effectiveness** of implemented adaptation measures. Why? Generates knowledge to support future decisions on which measures to use

- **Performance** of implemented measure against pre-defined thresholds. Why? Trigger action in adaptive management or decision on phased adaptation pathway

- Effective **management** of data vital to realise benefits!

- Similar issues for other transport sectors

Thanks for listening!

http://navclimate.pianc.org/