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.
What to monitor and why (1)

- **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 when adaptation action is needed.
- Operational **performance**. Why? Informs decisions on when change is needed.
- Local **rates of change** in key climate parameters and processes. Why? Understand critical threshold exceedance; helps inform decisions on when 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 predefined 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/