Sustainable Ports in Africa

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Bottom-up approach
Case study - Tema in Ghana
Developing a generic framework
Eroded, stone-protected beaches

Lagoon under pressure

Crowded fishing port

Existing port

New port development area

Flood risk
African context

- Requires context sensitivity
- Ecosystem and engineering knowledge
- Liveability – quality of life, stakeholder values & livelihoods

**Timeline:**

- $T_{-1}$ Historic development
- $T_0$ Existing port (status quo)
- $T_1$ Proposed expansion
- $T_1^+$ Incremental value addition (green port)
- $T_1^{++}$ Out of the box (green port ++)
By taking the ecosystem into account in engineering design, more port developments become possible.

A stakeholder-inclusive port design process accelerates port development.

http://sustainableportsafrica.com/