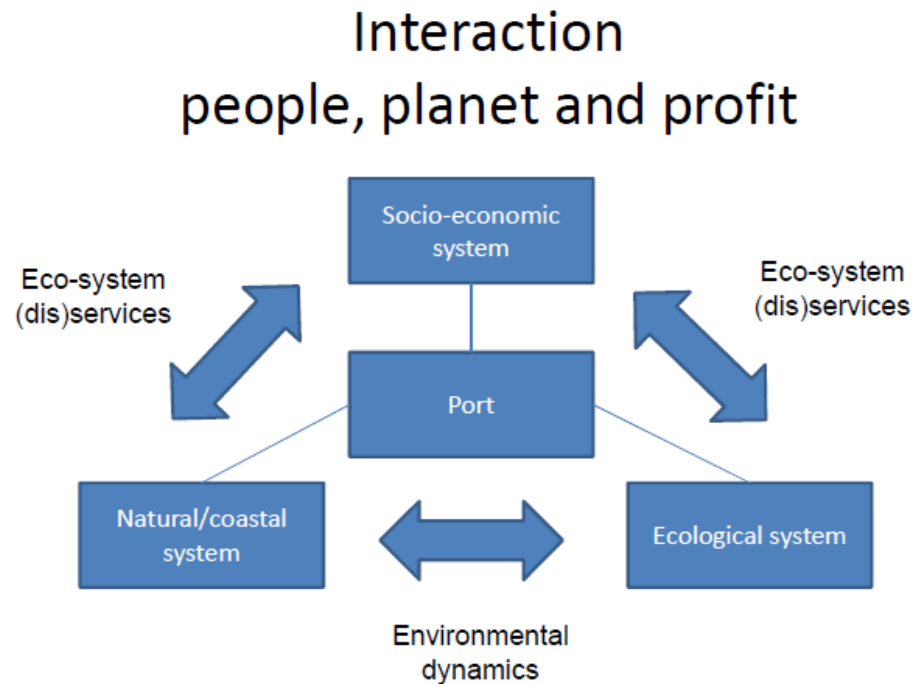


Sustainable Ports in Africa

Jill Slinger & Wiebe de Boer



Research Project



- Bottom-up approach
- Case study - Tema in Ghana
- Developing a generic framework

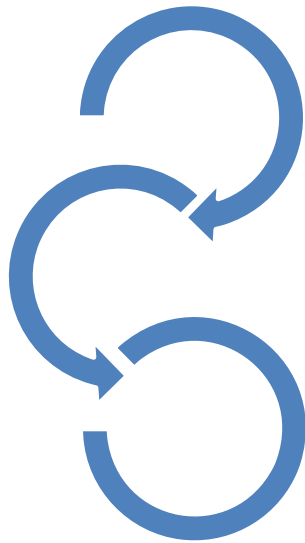
Port of Tema -Ghana





African context

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



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 ++)

Propositions

- By taking the ecosystem into account in engineering design, more port developments become possible
- A stakeholder-inclusive port design process accelerates port development

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S.P. AFRICA
SUSTAINABLE PORTS IN AFRICA

CREATING A BLUEPRINT FOR SUSTAINABLE PORTS

ABOUT THE PROJECT
The project incorporates an integrated approach to port design that is stakeholder-inclusive and encompasses engineering, ecological, economic and governance aspects. A bottom-up approach is employed, with research in all four disciplines directed at relevant and practical cases in Africa.

MAIN AIMS

- SUSTAINABLE BUILD**
Maintaining the marine ecology in and around a port is of the utmost importance; this contributes to biodiversity, provides ecosystem services, and facilitates port development.
- BENEFITTING THE COMMUNITY**
The communities around the port participate in creating a port blueprint; including this local knowledge ensures that they derive sustainable benefits from port development.
- EXPERT INPUT**
Applied research and knowledge institutes, practitioners and potential users collaborate as partners in this project; this is invaluable for research and knowledge development.

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