





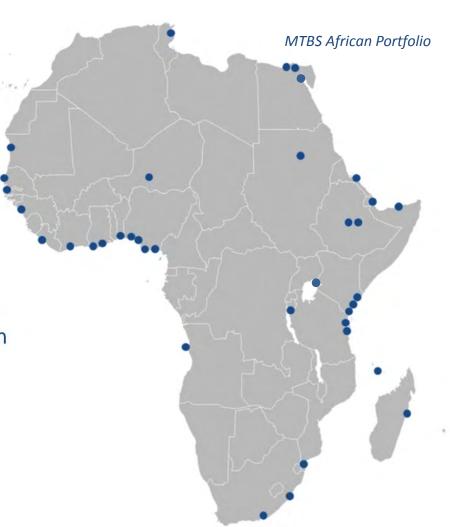
12th Intermodal Africa

23 October, 2014

Introduction

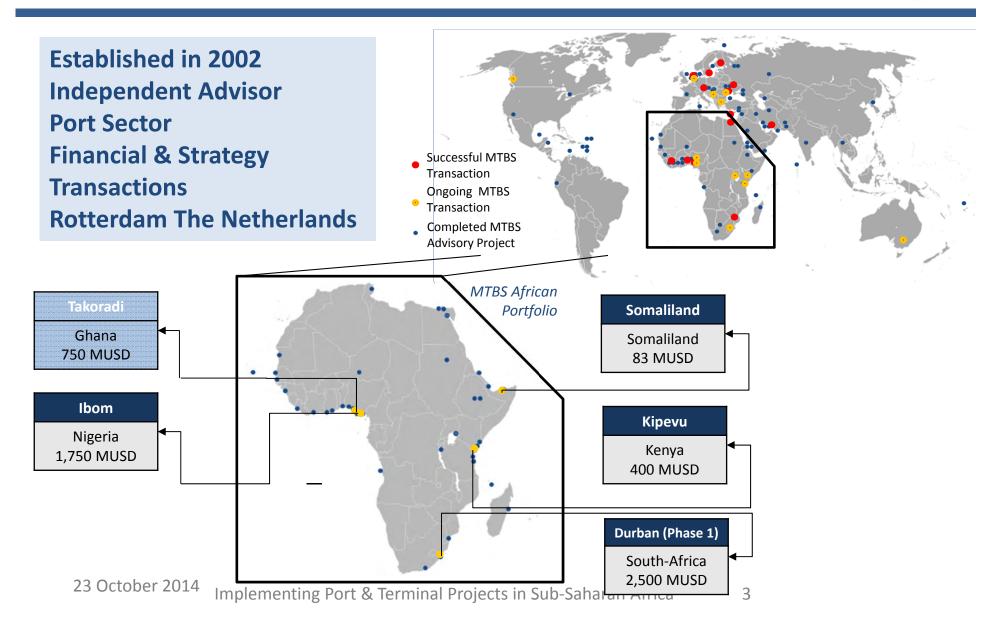


- Introduction MTBS
- Africa's port demand and supply
- Benchmark assessment of:
 - Traditional public port development
 - Traditional with tied financing sources
 - The PDMC model: PPP with PF solution
- Case study: Ibom Deep Sea Port project



MTBS: A Focus on Africa

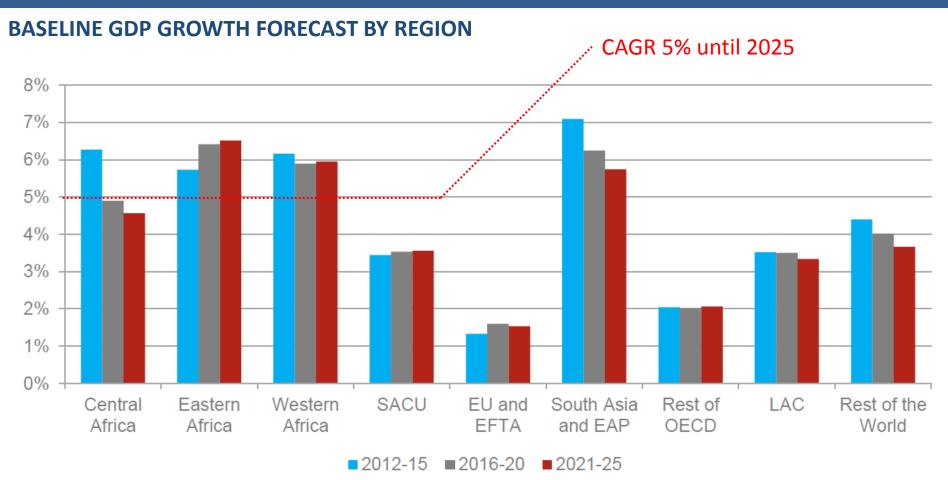




Growth: GDP

Growth driven by socio-economics



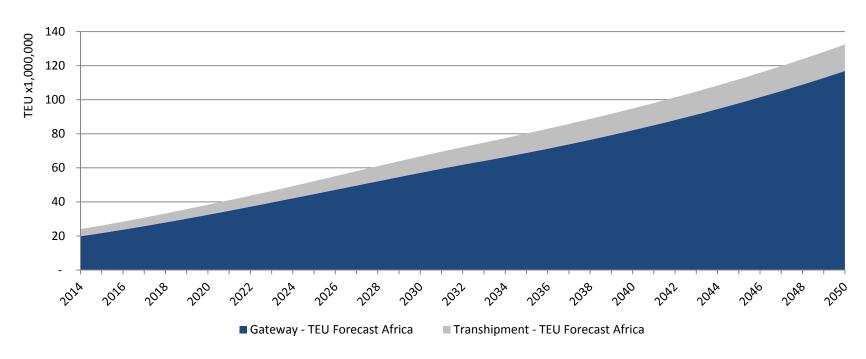


Source: International Trade Centre: "Africa's Trade Potential" (2012)

Substantial increase in demand for port capacity

Example containers





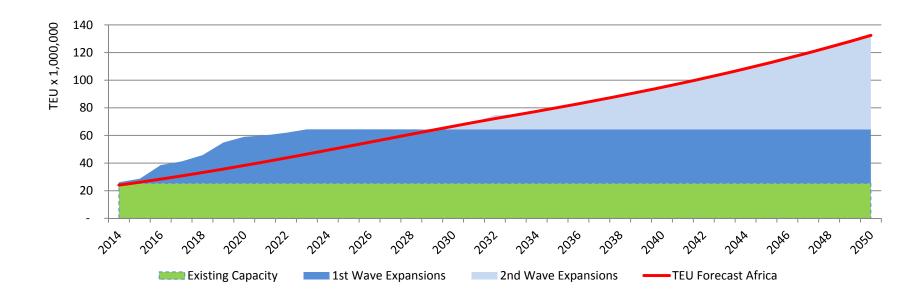
- Throughput from 22mTEU (2013 est.) to 132mTEU (2050)
- GDP Growth: 5% /annum, decreasing to 3% /annum
- Gateway TEU annual growth rate: 10% to 3.6%
- GDP- Gateway TEU multiplier: 2.0, decreasing to 1.2
- Transhipment TEU annual growth rate: 5.5%, decreasing to 2.00%

Port capacity expansion to serve demand

In particular on the short to medium term



- Container demand increasing from 24 mTEU (2014) to 132 mTEU (2050)
- Existing Capacity: 25 mTEU (existing trade +5%)
- 1st Wave Expansions: approx. 40 mTEU
- Capacity Gap by 2050 (requiring 2nd Wave Expansions): approx. 70 mTEU



Ports need to accommodate larger vessels

Current port dimensions are no longer adequate



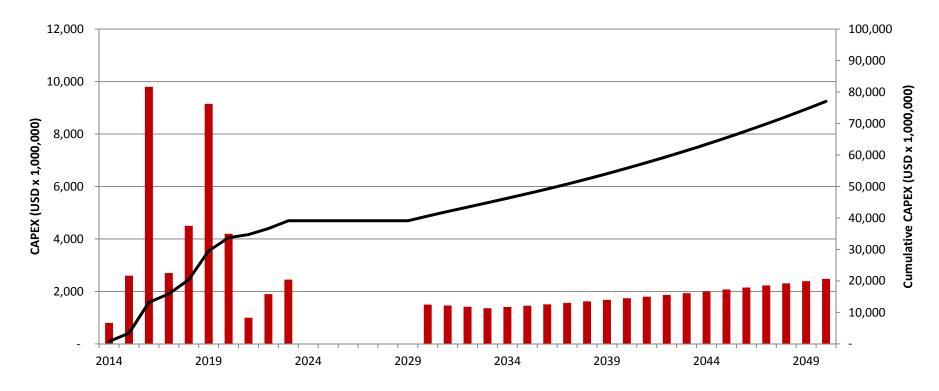


Substantial investments are needed

Funding is needed for these investments



- First Wave Capex: USD 40bn until 2025-30
- Second Wave Capex: USD 35bn until 2050



- Capex: USD 1,000 /TEU capacity (Greenfield projects) created in first wave;
- Approx. USD 500 /TEU (brownfield) for second wave

IFIs are prepared to address the funding requirements

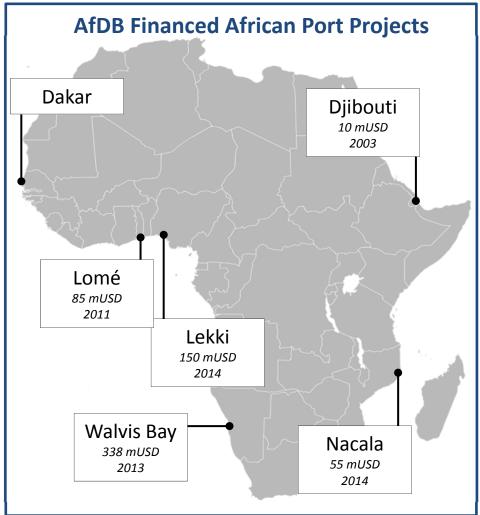
AfDB engaged MTBS: Financing ports in Africa – potential for PPP



MTBS Assigned to Identify and Package Port Projects for AfDB

"MTBS has been contracted by the African Development Bank to identify future port PPP projects and prepare proposals for both financing and advisory services."

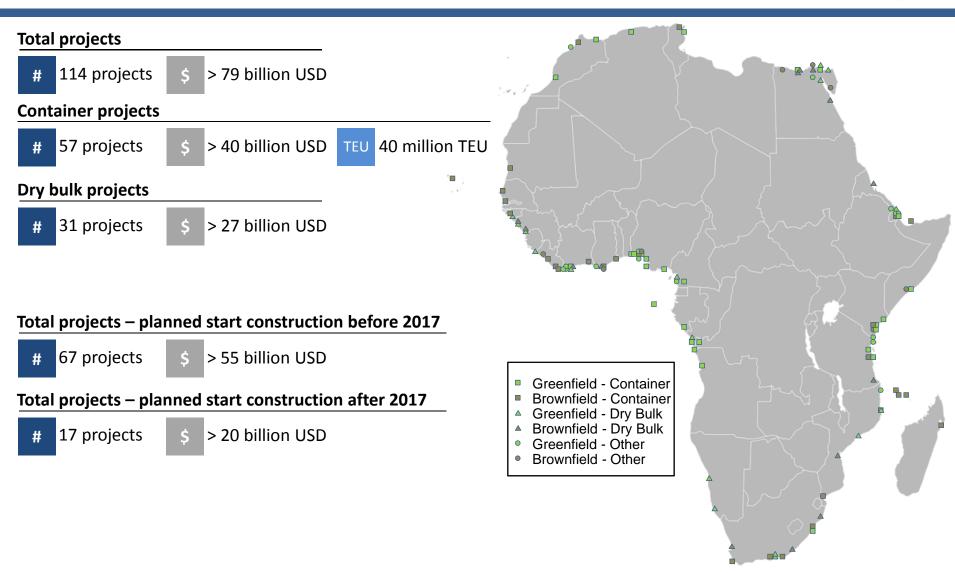




We have identified a large number of planned projects







Project structure

Three funding and project structures compared



PUBLIC BENCHMARK

- Public port or landlord
- Substantial public investments: 65% 100%

BILATERAL CONCESSIONAL

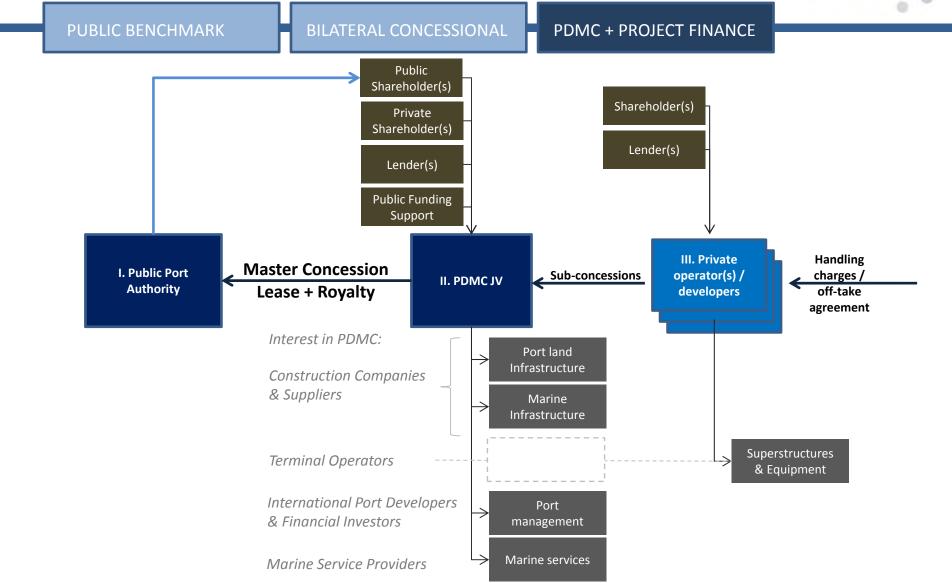
- Bilateral Concessional financing
- Landlord (transition)

PDMC + PROJECT FINANCE

- Public private JV at port level
- Possibly sub-concessionaires
- Limited public investment: <25%
- Project financing
- Example: Ibom







Challenge in project implementation

Maximise value and realise financing by selecting the optimal structure



$$Value = \sum_{t=0}^{N} \frac{FCF_{t,g}}{(1+i)^t} = -Investment + fCF$$

$$Capital expenditures (\downarrow) \leftarrow$$

$$Revenues - Opex (\uparrow) \leftarrow$$

$$Funding costs (\downarrow) \leftarrow$$

$$Growth (\uparrow) \leftarrow$$

Project structure

Three funding and project structures compared

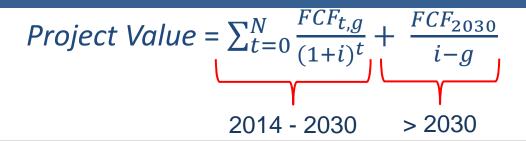


Project Structure	Public Benchmark	Bilateral Concessional Funding	PDMC and Project Finance
Investments			
Opex			
Funding Costs			
Revenues			
Growth			
Total Value			
	 Public port or landlord Substantial public investments: 65% - 100% 	+ Lower funding costs - Inefficient investments (higher Capex) - Constrained growth	+ Efficient investments (lower Capex) + Improved operational performance (lower Opex) + Additional growth - Higher funding costs

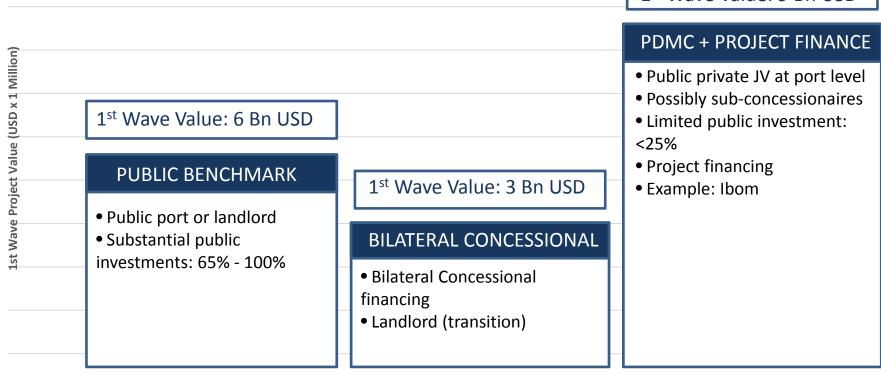
Benchmark assessment

Comparison of project value 1st wave of investments





1st Wave Value: 9 Bn USD



Bilateral concessional funding

Importance of competitive forces and scope optimization for infrastructure development

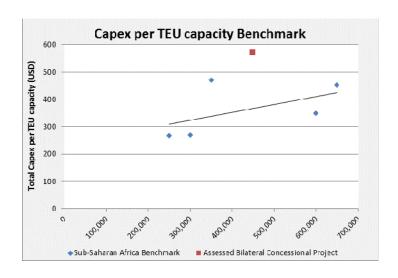


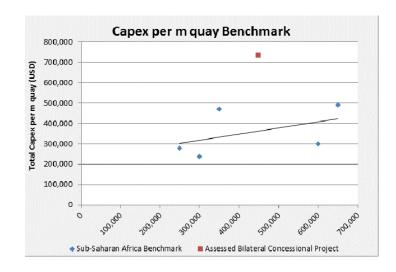
PUBLIC BENCHMARK

BILATERAL CONCESSIONAL

PDMC + PROJECT FINANCE

- Introduction of competitive forces for infrastructure development may lead to optimized Value for Money
- Scope optimization also leads to improved value for money





De-Risking



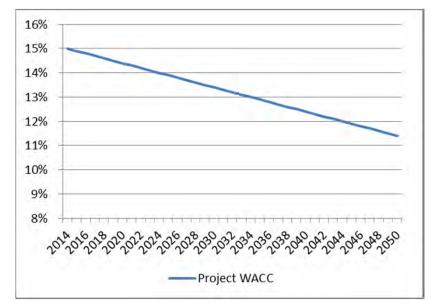


PPP Structuring: PDMC

- Procurement risks
- Financial/commercial risks
- Project realisation risks

PPP Procurement Processes

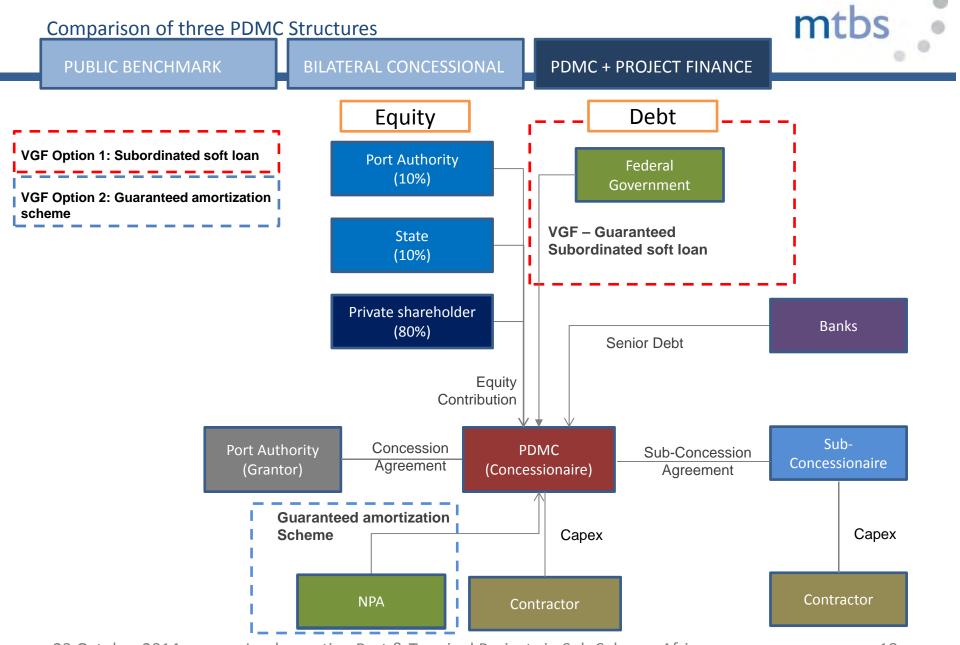
- Realistic transactions
- Process embedded in legislation
- Non-contestable outcomes



PPP Contract: Valuable & Enforceable & Bankable

- Tenor
- Step-in
- Clear termination compensation regime
- Freedom to set tariffs
- Handback conditions
- Capacity management (national port masterplanning)

PDMC Financing Structures



PDMC Viability

Adequate Governmental commitment is required

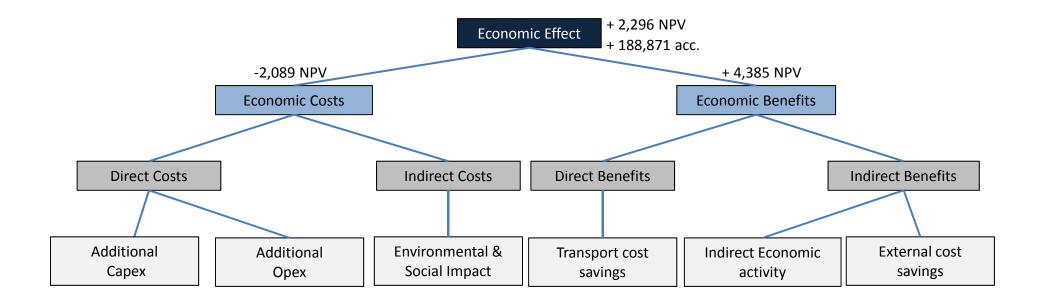


PUBLIC BENCHMARK

BILATERAL CONCESSIONAL

PDMC + PROJECT FINANCE

 Governmental commitments are justified by positive economic effects of the PDMC model



Conclusions

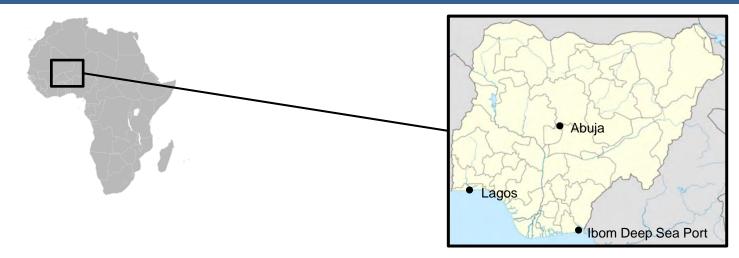
Unlocking Value in the **African** Maritime & Transport Industry



- Africa is getting prepared for this century's port development boom
- Be careful accepting and committing to cheap (bilateral) funding in an early stage
- PDMC is a strong model for major port capacity expansions benefitting from
 - Better lifecycle maintenance
 - Private sector's commercial strength and knowledge
 - More efficient procurement
 - <u>But</u>, in order to make PDMCs viable, adequate governmental commitment is required (viability gap funding / sovereign guarantee)
- A well-prepared and well-implemented port PPP transaction process is key
- Africa is moving towards international best practices in procurement of port PPP

The Eastern Gateway of Nigeria







Project Organisation



Project Initiators

- Nigerian Federal Ministry of Transport
- Akwa Ibom State Government

Project Supervisors

Ministerial Project Development and Steering Committee on Ibom Deep Sea Port

- Nigerian Federal Ministry of Transport (MoT)
- Akwa Ibom State Government (AKSG)
- Nigerian Ports Authority (NPA)
- Infrastructure Concession Regulatory Commission (ICRC)
- Nigerian Export Promotion Council (NEPC)

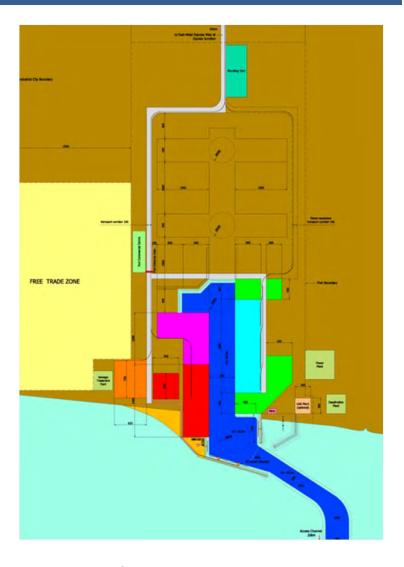
Project Transaction Advisors

- Felak Concept Limited (Abuja)
- Maritime and Transport Business Solutions (Rotterdam)

Project Characteristics



- Large Greenfield
- Channel depth: -18m
- Concession area: 5,000 hectares
- 20 km infrastructure corridor (road/rail/pipe)
- Trades:
 - Containers
 - General cargo
 - RoRo
 - Liquid bulk
 - Dry bulk
 - Offshore supply base
- Adjacent Free Trade Zone & Ibom Industrial City
- Phased development: Dig-Out Concept
- Initial investments: USD 1.7bn USD 2.6bn



Timeline



Project Development

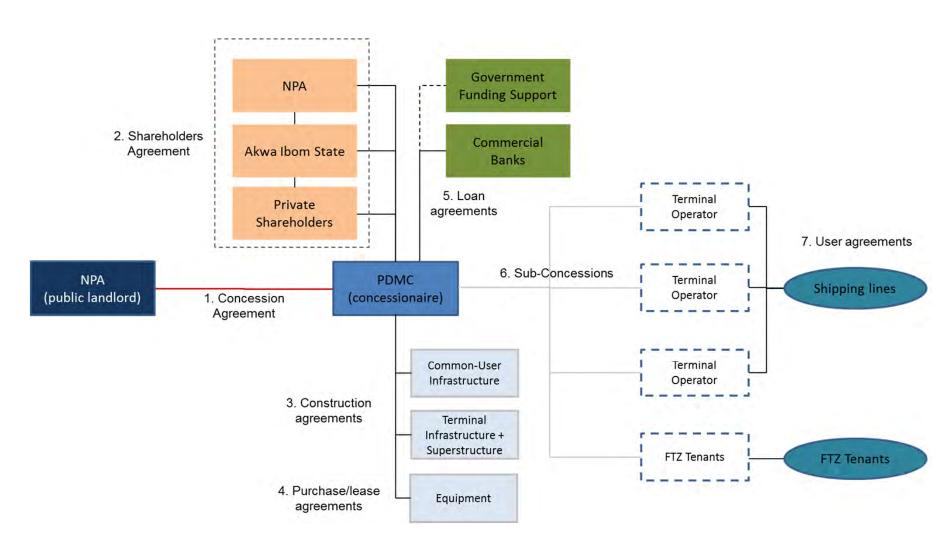


PPP Tender: ICRC compliant



PDMC structure is the only viable PPP implementation model







thank you for your attention



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maritime strategy & finance advisors

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Artist's Impression – Concession Area





Artist's Impression – Ibom Deep Sea Port





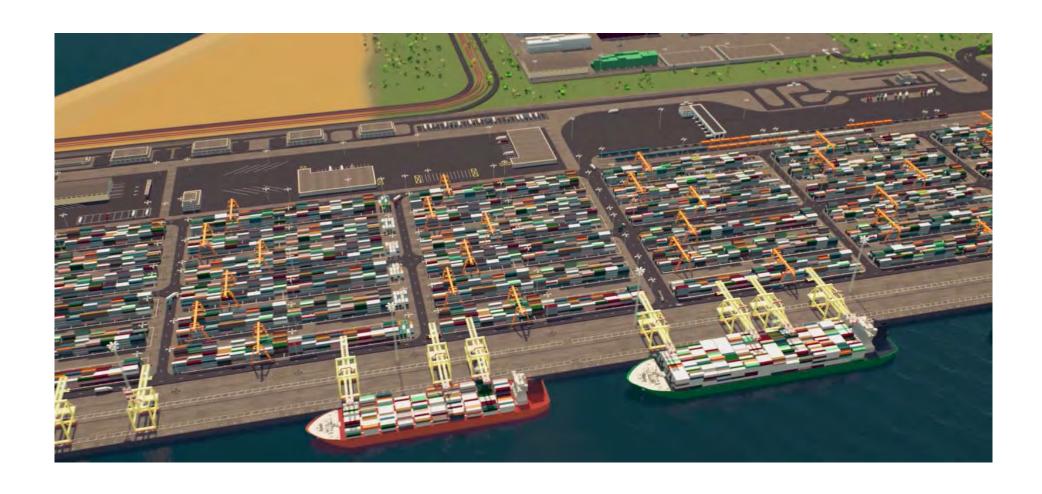
Artist's Impression – Nautical Dimensions





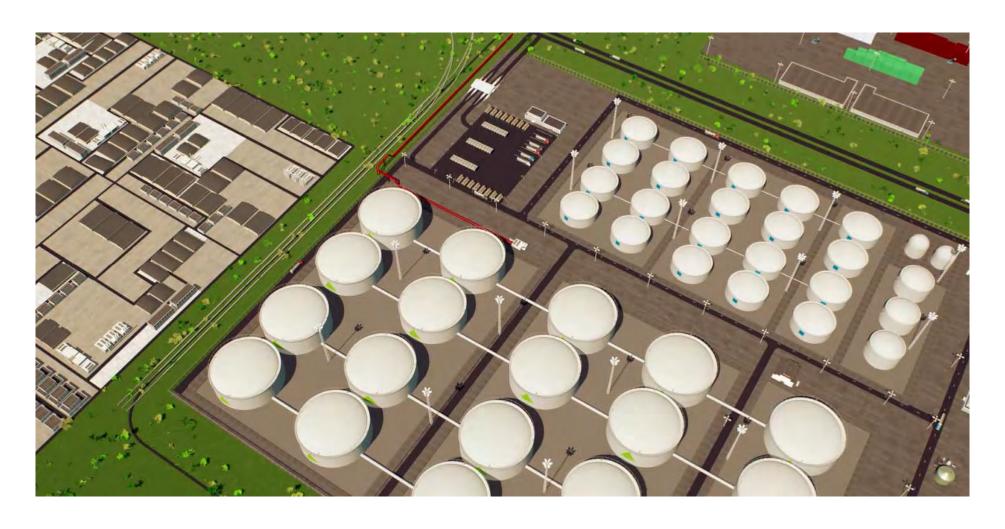
Artist's Impression – Container Terminal





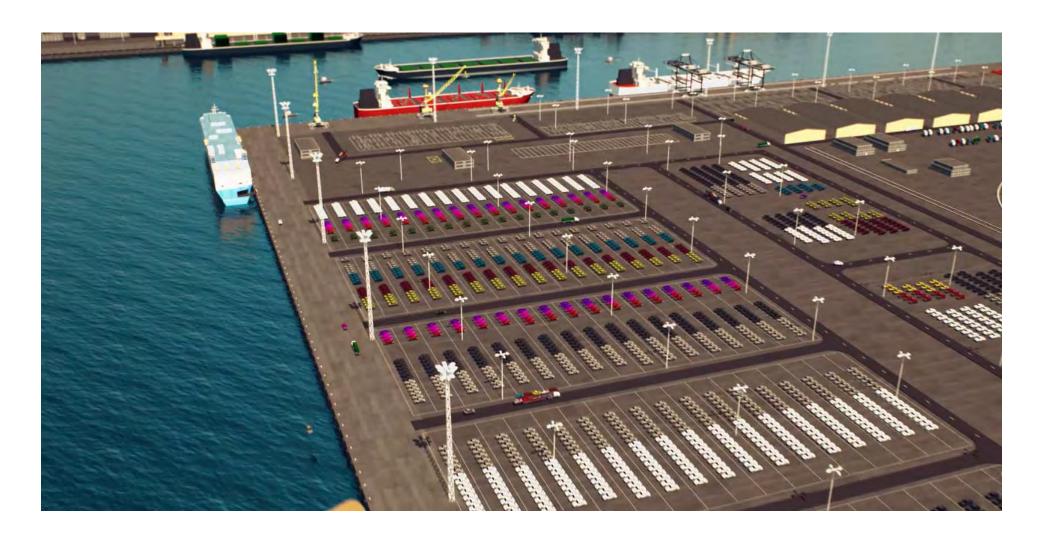
Artist's Impression – Petroleum Products Terminal





Artist's Impression – RoRo & Breakbulk Terminal





Artist's Impression – Dry Bulk Terminals





Artist's Impression – Offshore Supply Base





Artist's Impression – Dry Cargo Terminals



