

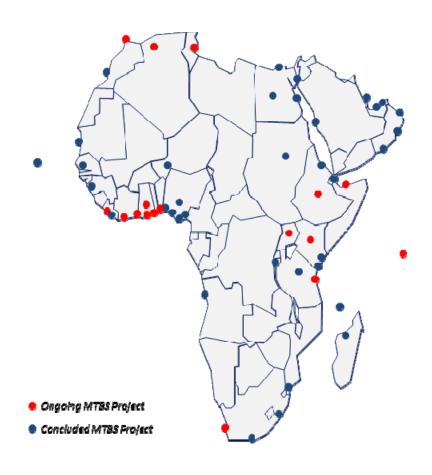




**17 November 2016** 

maritime & transport business solutions





#### Introduction to MTBS

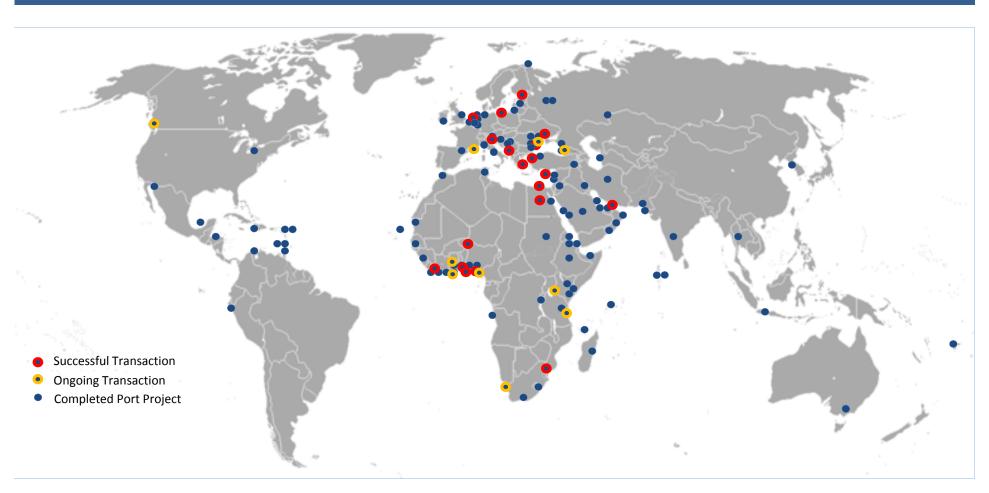
#### **Critical Success Factors**

- 1. Project Feasibility: Value Engineering
- 2. Value Optimization: Tailored PPPs
- 3. Bankability: Early Awareness Critical

# **MTBS: Maritime & Transport Business Solutions**



Specialized in Port PPP Projects. Global Portfolio, focus on EMEA Region.



Significant Portfolio Size - 50 Port Projects per Year - Diversified Portfolio Background

Broad Client Base - Strong Home Market - International Focus

# **MTBS: Maritime & Transport Business Solutions**

Comprehensive Project approach thanks to a diverse Client Base



Authorities		GTOs	Industrials	Governments	IFIs	Banks
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LUKA KOPER Port of Koper	**	<b>₩</b>	LAPARGE	Government of the Netherlands	international Finance Corporation	FMO Finance for Development
ZUKA RIJEKA.	ROSMORPORT	GLOBAL FORTS HOLDING	NAVIGATION .	HELLONIC REPUBLIC ASSET DEVELOPMENT RING	THE GLARBANIA DETE DESCRIPTION	HSBC 🗱
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Port of Antwerp	3	International Container Terminal Services, Inc.	TOYOTA TBUSHO CORPORATION	Transport and Infrastructure	UNCTAD	Standard Schartered

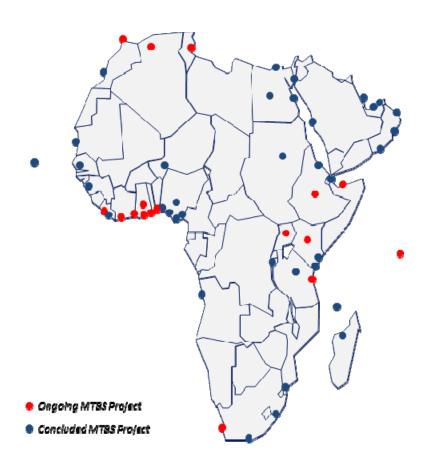
# **MTBS: Maritime & Transport Business Solutions**

## Implementation Driven Approach









#### Introduction to MTBS

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- 1. Project Feasibility: Value Engineering
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# GDP Growth Outlook: 2016-2021 Population Growth Outlook: 2016-2021 CAGR '16-'21 less than -1% CAGR '16-'21 less than -1% CAGR '16-'21 between -1% and 1% CAGR '16-'21 between -1% and 1% CAGR '16-'21 between 1% and 2% CAGR '16-'21 between 1% and 2% CAGR '16-'21 between 2% and 9% CAGR '16-'21 between 2% and 3% CAGR '16-'21 between 3% and 4% CAGR '16-'21 between 3% and 4% CA GR '16-'21 between 4% and 5% CAGR '16-'21 between 4% and 5% CAGR '16-'21 above 5% CAGR '16-'21 above 5%

Source: HAF World Economic Outlook (October 2016)

Sourca: HAF World Economic Outlook (October 2016)

Port PPP: large share of risks allocated to Private Parties



## Why Port PPP Implementation?

- **Risk management:** private parties better positioned to handle risks (e.g. market risks, operational risks, construction risks)
- Reduce burden on public budgets: affordability issues of Emerging economies are often one of the main reasons for insufficient infrastructure supply

These two main arguments result in a tendency to shift a large degree of risks and investments to the Private side

Successful Port PPP Project: balanced for all Stakeholders



## A basic critical success factor for Port PPP projects:

## The project (structure) should are balanced for all Stakeholders

- **Private Sector:** to retrieve a fair return on a bankable investment in line with the risk profile
- Public Sector: to optimize port capacity & performance,
   under a limited risk profile and a reduced burden on public budget
- Tax payer: highest project value realised with spenditure of public funds, and
   economic value added through creation of jobs and lower cost of transport



Optimal structure for Port PPP Project: business case driven approach

## **Structuring successful Port PPP projects is all about:**

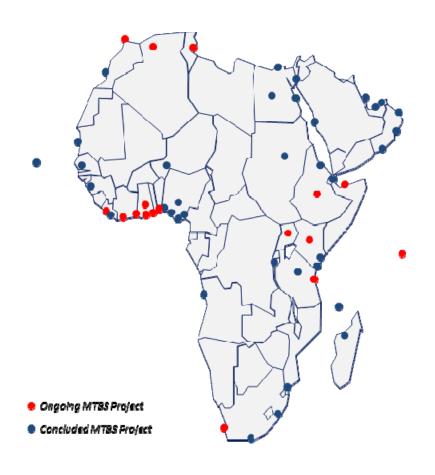
1. Project Feasibility: Value Engineering

**2. Value Optimization**: Tailored PPPs

3. Bankability: Early Awareness Critical

A <u>business case driven approach</u> is crucial to determine the optimal structure for a Port PPP project.





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Port Development Plan should be engineered with a value focus

## Three key factors in the development of a Port Development Plan:

- Reduction of Phase 1 capex: the capex of phase 1 is often a deal-breaker, especially when taking into account bankability concerns;
- Reduction of lead-time: it is essential to ensure early revenue generation, as long lead-times reduce bankability and erase equity returns;
- Demand/Supply should lead long-term development plan: a port should always cater to demand/supply needs. Construction of capacity well ahead of demand reduces bankability and erases equity returns.

Reduction of Phase 1 Capex key for Bankability



## Critical questions to be asked in order to ensure optimal Phase 1 Capex:

- Breakwater & access channel design:
  - Is it possible to phase construction of the breakwater?
  - Is it possible to start with a one-way access channel?
  - Is it possible to achieve a balance in sand-usage?
- Terminal dimensions:
  - Tailored to phase 1 market demand?
  - Options for expansion?

The Phase 1 Capex is essential for bankability. While Project Feasibility may be attainable with a high phase 1 capex, DSCR's are often too low when Projects are over-dimensioned.

Reduction of lead-time: early revenue generation essential



## Important aspects for ensuring early revenue generation:

- Reduce Phase 1 Scope: over-dimensioning of ports does not always create a high capex, but also increases the lead-time of a Project;
- **Phased Handover:** in case of multi-berth terminals, a phased handover can provide an opportunity for early revenue generation.

## Early revenue generation should also be supported by effective Contracting:

- Clear Timelines with longstop dates: Grantors, Concessionaires and Contractors should have a firm timeline for Project Development
- Include Penalties where relevant: delays should be compensated via penalties/liquidated damages

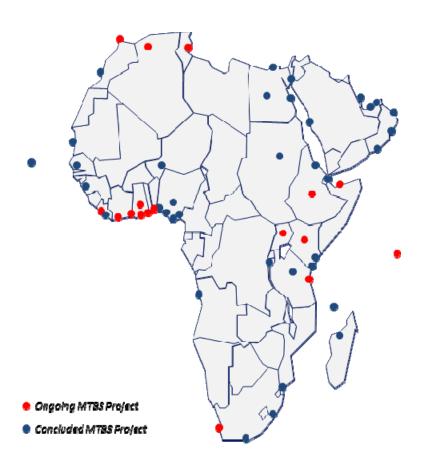
Demand/Supply should lead long-term development plan



## **Demand/Supply is always the basis for Port Development:**

- Capacity in line with Demand: Construction of capacity well ahead of demand reduces bankability and erases equity returns
- **First exhaust existing Assets:** Development of greenfield initiatives is only sensible if potential of existing assets is reasonably exhausted
- Port Capacity supply does not stop at Port's Boundary: (intermodal) hinterland connectivity is increasingly important. Lock-in of Public Authorities to support the Project's development is essential





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Use of Standard PPPs & Tender Procedures not a guarantee for Success

# Three critical issues need to be addressed, in order to ensure Value Optimization of the Project:

- No one-size-fits-all: each PPP Contract is a unique arrangement, tailored to the risk management capabilities of the Grantor and the Concessionaire;
- Risk-adjusted returns: focus on returns, without adjustment for risks, leads to suboptimal PPP contract design;
- Assess market interest in an early stage: requirements of potential co-investors should be assessed prior to the start of a transaction: early market consultation.

PPP Structure should make sense in Local Context



## Various innovative PPP structures have been developed in recent years:

- Private Port Authorities: replace the traditional role of Public Authorities
  - More business-oriented approach
  - No economic motives: projects need to be feasible on stand-alone basis
- Public-Private Port Authorities (PDMC): private firm as lead party, public authority to ensure Government lock-in and provide gap funding
- Integration with Industrial Zones: an increasing number of port concessions are implemented in conjunction with SEZs/IZs

These new PPP structures are a response to market dynamics



Shift in Risk Allocation should lead to a shift in distribution of Returns

## **Risk-Adjusted returns often neglected:**

- **1. Grantors push away risks:** Concession Grantors are often interested to allocate a share of the risk to the concessionaire
- 2. While maintaining the same return requirement: Concession Grantors expect a similar return for a Project with lower overall risk

Risk allocation is the primary determinant for the required return of a Project.

A shift in the risk allocation of the PPP contract should always lead to a shift in the distribution of returns of a Project.

Assess Market Interest in an early stage

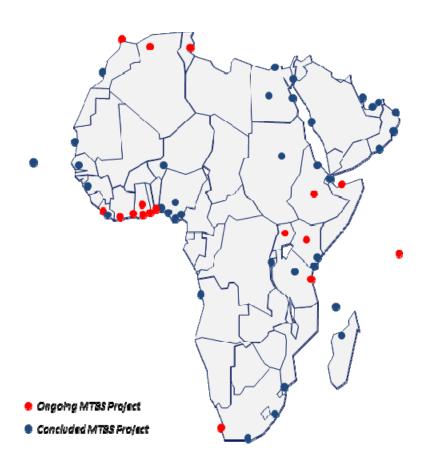


## **Early Market Consultations provide helpful insights:**

- What do Investors think of demand potential?
- Anticipated operational configuration / capacity requirement?
- Anticipated risk allocation and upfront investment?
- What is the Investors' overall risk perception of the Project?

Early assessment of the Investors' views allows for a timely inclusion of relevant factors in the PPP Contract





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Feasibility does not always imply Bankability



## **Exemplary, non-Bankable Project:**

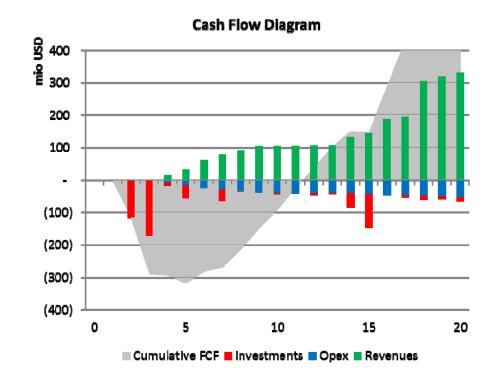
- Healthy Return: IRR at 19%
- Project NPV of 300m USD

#### **However:**

- First positive cash flow: **year 6**
- Pay-back period: >10 years

## **Project not Bankable:**

- Loans often have a tenor of <15 years</li>
- Lenders often require a DSCR of > 1.3



PPP Structures increase complexity for Bankability



## **Recent developments in Port development complicate Port Financing:**

- Traditional PPP Structures: introduction of multiple parties increases interface risks and complicate the risk management of the Project, especially in case of Project failure.
- Off-Balance Sheet Financing: non-recourse finance structures are more often pursued by Investors, yet this requires increased attention to Project Concession contracts.
- **Private-Private Project Structures:** Port Projects are nowadays also initiated by Private Investors, rather than by Public Authorities. This increases interface risks (buy-in of Governments) and the dependency on capital markets.

Bankability is often neglected in the early stages of a Project



## Projects often follow a sequential logic in implementation:

- Strategy: determination of need for a port;
- **2. Feasibility:** assessment of attractiveness of Port Project;
- 3. Contracting:
  - I. PPP Implementation: signing of Concession Contract;
  - II. EPC Contract signing;
- **4. Financing:** attracting debt & equity



Ensuring Bankability of a Project already starts in the Strategy-phase



## Critical Questions for Bankability need to be asked in each phase:

#### 1. Strategy Phase:

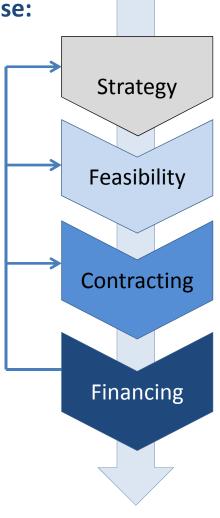
- Demand/Supply development: tailored to the market?
- Long-term development plan: sufficiently flexible?

#### 2. Feasibility Phase:

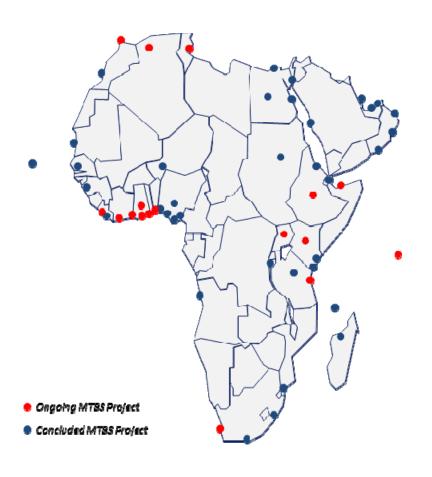
- Robustness of the business case: impact of sensitivities on DSCR?
- Cash flows in first years of operations: sufficient for Debt Service?

## 3. Contracting Phase:

- What are the remaining risks for the Project? Can they be mitigated?
- What about Termination/Compensation Clauses?







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## **Conclusion**

Value Engineering, PPP Optimization & Early Bankability Checks required



#### Three main critical success factors for Port PPP Implementation in Emerging Markets:

## **Value Engineering:**

- Focus on reduction of phase 1 capex: often a deal-breaker;
- Focus on reduction of lead-time: early revenue generation important;
- Demand/supply should lead long-term port development plan.

#### **PPP Optimization:**

- No one-size-fits-all: PPPs should be tailored to the Project;
- Risk-adjusted Returns: expected returns should be adjusted for risk allocation;
- Early Market Sounding: markets' expectations should be considered when designing (PPP) contracts;

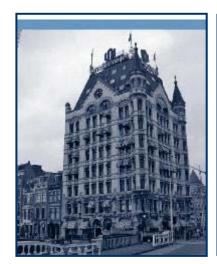
#### **Early Bankability Checks:**

- Assess flexibility of long-term planning in the Strategy Phase;
- Conduct thorough downside risk assessments in the Feasibility Phase;
- Include proper risk mitigation and termination/compensation arrangements in Contracts.

## **Conclusion**

## THANK YOUR FOR YOUR ATTENTION





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