

# Fundamentals in port infrastructure investments

### 21st Intermodal Africa 2019

20 March 2019 - Djibouti







## Agenda

### Introduction to MTBS

Problem identification

Value drivers for PPP projects

Case studies

Q&A



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

Specialised in port PPP projects, global portfolio (core market: EMEA)



Significant portfolio size

50 port projects per year

Diversified portfolio background

Broad client base

Strong home market

International focus



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

Global leader in port business (financial & strategic) advisory



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

A selection of our worldwide and diverse client base



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## **Quick Regional Port Scan**

There are many recent and ongoing developments taking place in the region. A selection is presented below:



## A lack of port PPP projects

A selection of delayed or cancelled port PPP projects globally In general, the lack of private involvement results in a lacking number of PPPs

**Port of Mombasa:** PPP implementation cancelled



# **Durban Dig-Out Port:** Project shelved until further notice



Lamu Port: Significant delays during construction process



**Surabaya Port:** Contract renewal terms cancelled the PPP project





## Port PPP project: Laem Chabang Phase III

Specific focus on a recently failed port PPP project in Thailand

Port Authority Thailand

Transaction Advisor: Roland Berger

- DBOM Project
- Plots F1 and F2
- 35-yr concession

### **Invitation to Tender:** November 2018

32 bid envelopes sold 1 unqualified bidder in 2-month period for document submission





## **Port PPP problems**

The failures of port PPP projects are caused by poor risk allocation, improper requirement, criteria and procedures as well as difficulties in traffic forecasting



According to the World Bank Group: "project cancellation rates vary greatly among sectors – for instance, deals in transport (5.1%) and water (5.7%) have a much higher cancellation rate than those in the energy sector (2%)".



## Various innovative PPP structures are developed

Tailored PPPs consider market dynamics whereas the use of standard PPP structures and procedures do not guarantee success

- 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 sub-optimal 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

Respond to the relevant market dynamics, for example through market consultations among interested parties



## Successful PPPs allocate risks optimally

Shift in risk allocation between the Grantor and the Concessionaire should lead to a shift in distribution of returns

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

- **Grantors push away risks**: Concession Grantors are often interested to allocate a share of the risk to the concessionaire
- 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

Value





## Why port PPP implementation?

Two main historical reasons for using PPPs in the port sector

#### **Risk management**

Private parties are better positioned to handle risks, for example:

- market risks
- operational risks
- construction risks

#### **Reduce burden on public budgets**

Affordability issues of Developing 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

## **Evolution of port PPP structures**

Wide range of options available: ports have evolved from traditional public ports to fully private ports



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## What determines value?

Three main factors: starting free cash flows, growth and risk





## **Value maximisation**

1 Free cash flow management

### Value maximisation is used to maximise starting cash flows:

- To limit the total investment costs for the first phase(s)
- To limit the total construction period for the first phase(s): to ensure earliest revenue generation



PPP implementation can assist with the optimisation of free cash flows, by ensuring that the party responsible for construction has sufficient incentives to minimise costs.

## Value maximisation

Market growth: focus on the correct market

### Port Projects need to be built on a solid market potential:

- Without growth potential, construction of new facilities is hard to justify;
- Growth creates opportunities and ensures incentives for competition on service level and price level.



A correctly designed PPP structure can maximise the effect of growth opportunities, by allocating the market risk to the party that handles this risk best.



## Value maximisation

Risk management: focus on allocating the risk to the party that is best 3 capable to handle the risk

The following risks are most significant for a port development project.











unding rister DING NEW TERMINALS IN THE SAME PORT PPP contracts are used to allocate risks to the Grantor and Concessionaire. PPP contracts are therefore the main tool to manage the risk of the project.

























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## **Anaklia: DBFMOT**

International practices

Anaklia Development Consortium (ADC) responsible for almost all aspects of the Anaklia Port development

Design of the port



Funding of the investments



**Construction management** 

**Weighted Section 2** Implementation of sub-concession agreements



**Operations at the berth** 



**Operations of the marine services** 



Anaklia Port is a showcase for best practice implementation of a fully private port, with a balanced PPP contract that provides the right incentives to the Concessionaire

## **Anaklia: DBFMOT**

International practices

- Advantages:
  - Optimal asset management
  - Easier to budget

### • Disadvantages:

- Higher costs
- Strategic asset to private sector





## **Rotterdam MV2: DBM**

### International practices



### **Rotterdam MV2: DBM**

International practices





## Maputo: PDMC

International practices

- Maputo Port Development Company
- Master concession of 30 years
- Shareholders
  - Private: Portus Indico (51%)
    - Portus Indico: Grindrod (48.5%), DP
      World (48.5%) and SARL (3%)
  - Public: and CFM (49%)
- Brownfield port

The private sector participation in a PDMClike port PPP model resulted in strong operational performance





## Maputo: PDMC

International practices



# Thank you

Address Wijnhaven 3<sup>e</sup> P.O. Box 601 3011 WG Rotterdam The Netherlands

**Telephone** +31 (0)10 286 59 40

Email Info@mtbs.nl

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