

# 2<sup>nd</sup> India Port Expansion and Capacity Upgrading Chennai, India on November 3<sup>rd</sup> & 4<sup>th</sup>, 2011

# Demand & Supply Assessment of ports in India & Growth Drivers for Investors

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#### **Indian Ports Sector Overview**

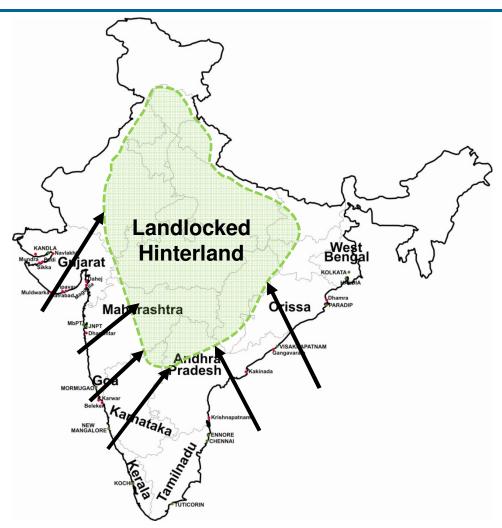


- Indian trade is dominated by low value high volume commodities
  - ✓ Share of 1.5% of Global trade by Value & Close to 8% by Volume
- · Liquid & Bulk Dominates Indian Port Traffic, with following key drivers
  - ✓ Cumulative Refining Capacity of 193 MMTPA
  - ✓ Export of raw material, Iron Ore India is 3<sup>rd</sup> largest exporter
  - ✓ Energy Demand from Coal Fired power plants, Steel Plants & Industrial Units
- Containerized Cargo would be the next growth drivers
  - ✓ Rise in Per Capita Income would lead to higher consumption of finished goods
  - ✓ Gradual rise of export oriented manufacturing in India
- Existing Government owned ports find difficult to accommodate growth
  - ✓ Cities have grown around them restricting their expansion
  - ✓ Commercially unattractive to handle new generation ships with large draft by way of Dredging.

#### **Opens Opportunity for Large Scale Private Participation & Greenfield Ports**

## **Demand Drivers of Ports in India**





India has huge landlocked region

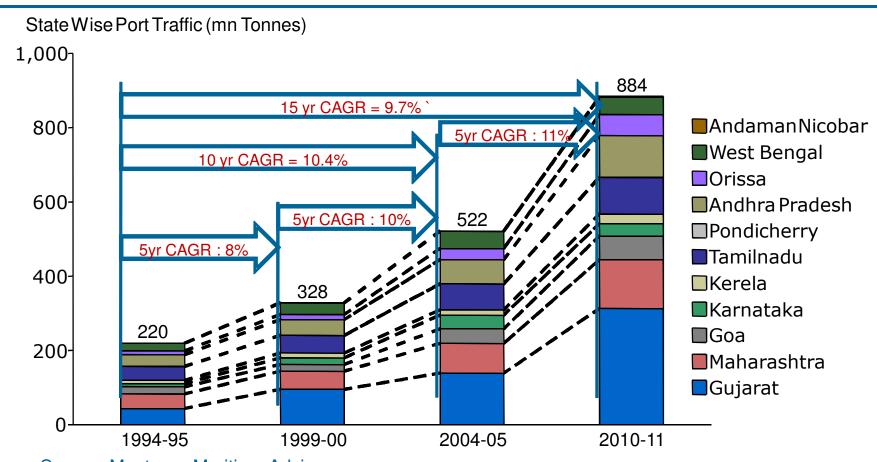
Large population spread with rising
disposable income

Huge investment in Infrastructure @ coast
Industrial development – such as power
plants/ steel plants

Source: Mantrana Maritime Advisory

#### **Historic Trend for Port Traffic Growth by region**





Source: Mantrana Maritime Advisory

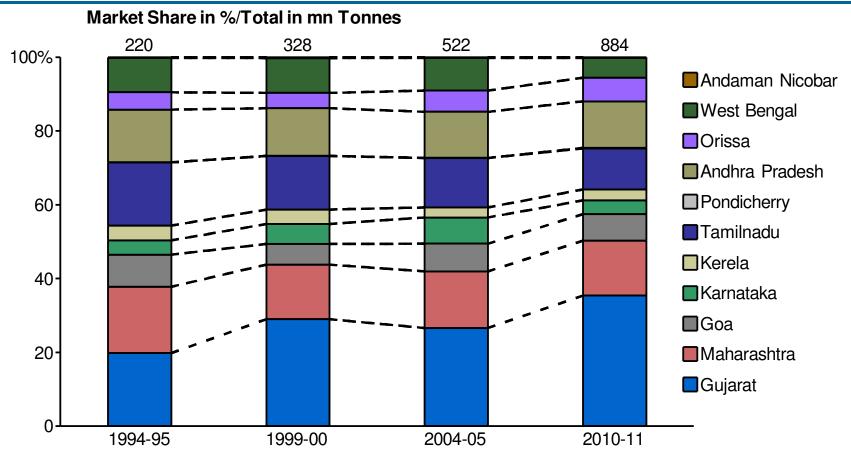
Data: IPA/INA/GMB

2010-11 traffic is Provisional

In last 15 Years, Indian Port Traffic has increased 4 times. How much Stakeholders Gained from Growth?

## **Region wise Market Share of Indian Ports**





Source: Mantrana Maritime Advisory Data: IPA/INA/GMB

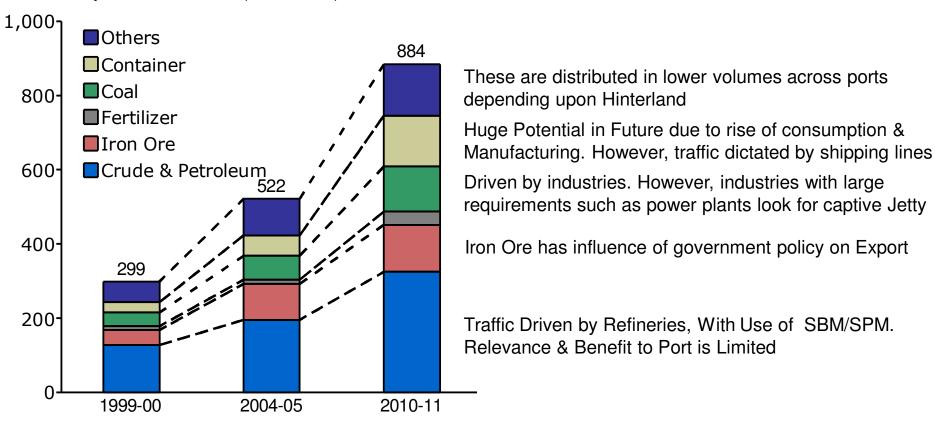
2010-11 traffic is Provisional

In last 15 Years, Every State has gained traffic. However, Gujarat has gained maximum Market Share increasing from 20% to 30% & Maharshtra, Goa, Tamil Nadu and West Bengal have lost theirs

## **Analysis of Commodities Handled at Indian Ports**



#### Commodity Wise Port Traffic (mn Tonnes)



Source: Mantrana Maritime Advisory Data: IPA/INA/GMB/

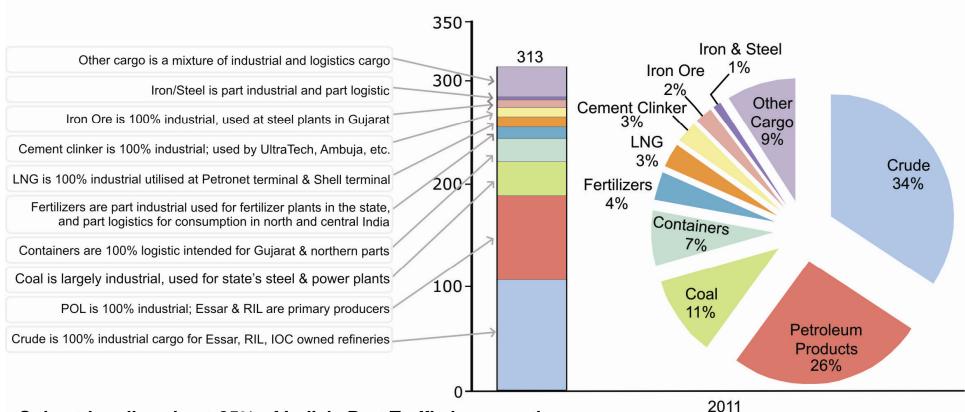
2010-11 traffic is Provisional

## Reasons & Impact of Port Development in Gujarat – A Case Study



#### Industries & Ports together have led to the overall Social & Economic development of Gujarat





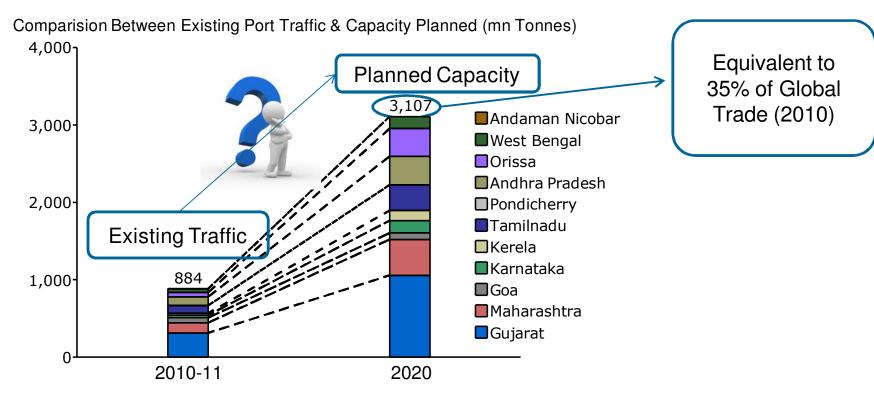
Gujarat handles about 35% of India's Port Traffic because they have developed Industries as well, which is driving port volumes

Source: Mantrana Maritime Advisory

Data: IPA/INA/GMB/

## **Upcoming Capacity – An Assessment**





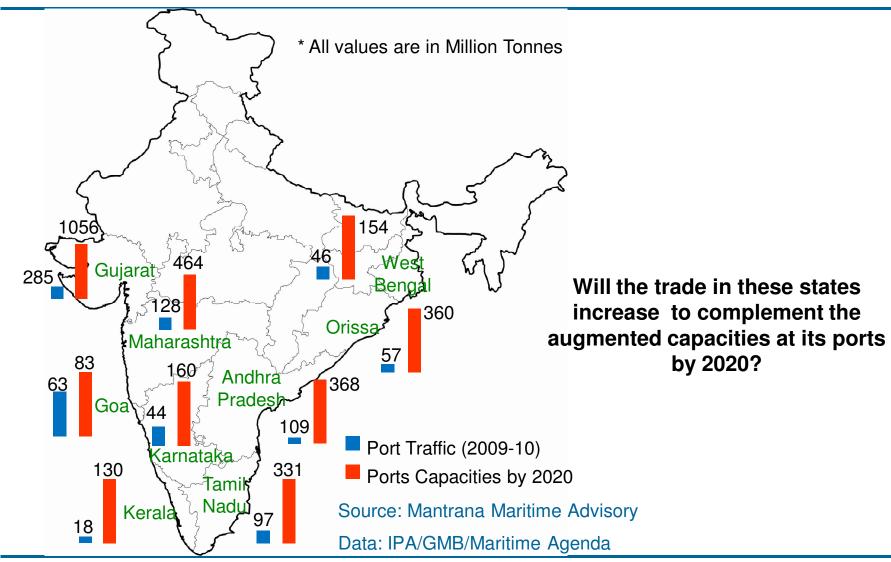
Source: Mantrana Maritime Advisory Data: IPA/INA/GMB/Maritime Agenda

2010-11 traffic is Provisional

- 2020 Capacity does not include plans for captive Ports /
   Green Field Ports
- What could be Capacity if they too come up?

## Mantrana Maritime Advisory

## **Upcoming Capacity – An Assessment**



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## **Upcoming Capacity – Backlash & Resolution**

- Will these maritime states have enough trade volume to justify the capacity expansion by 2020?
- Trade growth may not be uniform across all the maritime states
- Increase in handling capacity doesn't translate into increase in port traffic
  - ✓ Addition in port capacity will not ensure availability of corresponding cargo
- In case of overcapacity, ports will be contending for the same share of cargo
  - ✓ Consequently, uneven distribution of cargo volume
  - √ Some companies may perform better than others
- It's the presence of industries that, ultimately, drives the port business
  - ✓ Augmentation in capacity is borne out of demand from thriving industries in the region
  - ✓ Only presence of adequate industries can justify the increase in ports' capacities
- Increase in port capacity will be logical only if it's accompanied by industrialization



## **Upcoming Capacity – Real-world examples**

#### JNPT vs Mumbai Port Trust

- ✓ JNPT was commissioned as MbPT's satellite port, to help decongest the MbPT
- ✓ Over a period of time, due to better infrastructure, JNPT attracted more traffic
- ✓ JNPT started attracting container share from MbPT
- ✓ In the last 15 years, JNPT has grown to become the largest container terminal in India, while MbPT has been reduced to the smallest container terminal in India

#### Kolkata Dock System (KDS) vs. Haldia Dock Complex (HDC)

- ✓ HDC, similar to JNPT, was intended as KDS's satellite port
- ✓ In 2001-02, KDS handled barely 5 mn Tonnes, while HDC handled nearly 25 mn Tonnes.
- ✓ Even today, HDC witnesses more traffic than KDS. In 2010-11, KDS's traffic was 12.5 mn Tonnes, while HDC's was 34.8 mn Tonnes
- Inter-port competition is a potential threat for the intended capacity expansion drive
- Of the two competing ports, one is bound to lose some amount of either existing or additional traffic share

#### **Conclusion**



- India Needs more port capacity. However, judicious planning is essential
- Just Setting up port does not attract traffic
- In the absence of Industries and trade growth, Ports fight for Same Cargo. Win for one port is loss to another port..
- Skewed ratio of supply and demand may render some of the expansion ventures non-viable



Be Choosy in selecting Right Investment – Herd Mentality will Cost you High



Port Prospers and Rewards, if it is developed at right location with right infrastructure and
 Correct market focus ----- - Else it could turn out to be Sunk Cost

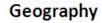
#### **About Mantrana**

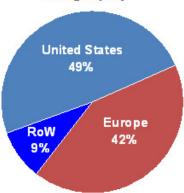


- Undertakes Independent Assessment of Ports & Related infrastructure
- Statistical Analysis & Primary Interaction with the Customer is the Key Methods used for Analysis
- No Room for Passionate views/ Opinions & All recommendations are driven by Numbers & Logic
- Has Association with Arcadis, A Dutch company with expertise on all technical matters related to port.

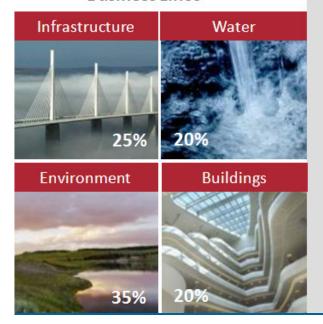
## ARCADIS at a Glance

# Manfrana Maritime Advisory





#### **Business Lines**



#### **Key Statistics**

- Revenue € 2 billion
- 15.000 people worldwide
- Europe top 3
- Worldwide top 10

#### Services

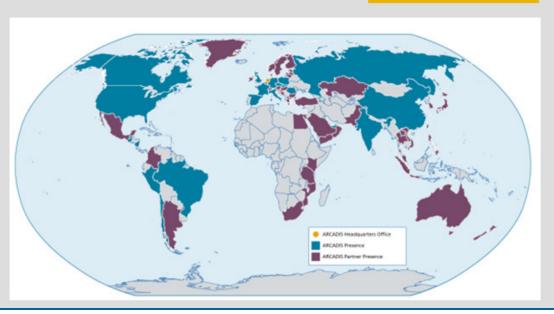
Program & project management

Consultancy

Master planning & Architecture

Design & Engineering

Implementation



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## **Thank You for Attention**

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