



MAURITIUS MARITIME WEEK

A PRESENTATION ON

“Smart Port Developments And Concepts, Benefits And Making The Best Use Of Limited Resources”

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Contents

- **Effective Port Management Teams**
- **Port Characteristics**
- **Port Automation**
- **Port Efficiency and Productivity**
- **Space For Expansion**
- **Operational Present of Stakeholders**
- **Green Port**
- **Benefits of Efficient and Smart Ports**



Effective Port Management Teams

- Strong vision
- Keep staff at the core of port activities and avail them of training to boost capacities continually.
- Understanding the requirements of port users/vessels.
- Meeting their needs optimally and at least cost to them.
- Keeping abreast with developments in the maritime industry internally and externally.
- Develop performance standards and achieving them at manageable cost.
- Introduce schemes to boost workers' motivation and productivity.
- Integrate efficient technologies in port operations.
- Keep an open mind for new business avenues in port.
- Maintain efficient dialogue/networking with/between port stakeholders/agencies for smoother/faster flow of communications/activities.

Port Characteristics

Matching the Needs of Vessels

- Multi- Purpose or dedicated port terminals.
- 365/24/7 and timely and all- weather port operations.
- Adequate quality infrastructure and port equipment.
- Sufficient draft.
- Consistency in port services.
- Optimal pricing for port services (pilots, towage, bunkering, supplies, logistics).
- Adequate safety and security for port premises, vessels (ISPS Code).
- Efficient cargo handling.



Port Automation

- Manual v/s Automation: Viability of automation depends on volumes.
- May need intelligent mix of manual-automation.
- Versatility of land- based equipments.
- For small domestic markets, viability enhanced by volume re-export/trans-shipped.
- Best practices – develop KPIs, schemes to boost labour/machine productivity.
- IT solutions linking all equipment and port agencies for optimal operation/sequence of activities.



Port Efficiency and Productivity

- Key role of IT.
- Port Management Information System customised to meet the needs of our ports.
- Key role of statistics in efficient decision making (based on facts and figures).
- Enhanced labour schemes to boost productivity.
- Adequate participation of private sector and support of government for continuous port growth.
- Implementation of adequate laws to boost efficiency and productivity.
- Smooth internal connectivity for optimal delivery of cargo (road, rail, canal, lake, air)
- Optimal international maritime connectivity for efficient and least cost import and export.
- Encouragement of re-investments in Port.



Space for Expansion

- A smart port with all allied activities must have scope for expansion.
- Must have room to tap into emerging opportunities.
- Ample physical space and HR capabilities.
- Competition versus Cooperation both needed for continued port development.
- More Intra-Africa trade opportunities - needed to optimise the African potential and sustainable growth.
- Rising importance of the Indian Ocean as a maritime hub – silk route, etc.
- Rising cruise tourism destination – Cruise Africa.
- Maritime species exploitation- tuna, other potential species requires additional fishing ports.



Operational Presence of Stakeholders

- A port cannot be efficient if other port actors are not efficient:
 - Cargo handling
 - Shipping Agencies
 - Customs Services
 - Immigration
 - Other logistics; bunkering, etc
 - Law enforcement
- All agencies must work towards commonly established standards.
- Public Ports or Private Ports or PPPs or Strategic Partnerships – port management models that can be chosen for maximum efficiency, productivity and return on investments.
- All agencies must operate via the Port Management Information System for optimal accountability, efficiency, productivity, synergies, transparency, fool/fraud-proof.



Green Port Strategy

- Increasingly important in modern ports, despite high short term investment costs, especially for smaller ports. (rain harvesting, photo voltaic)
- Can lead to significant cost savings in medium/long term.
- Positive environmental benefits that should be quantified.
- Ships wastes can be landed and efficiently processed instead of dumping at sea.
- Less carbon footprint in port.
- Opportunities/Benefits for local businesses (e.g., local electricity grid).



Potential Benefits of Efficient and Smart Ports

- Lower turn- around time of vessels in port.
- Attract serious vessels/ businesses/ investments.
- Less bureaucracy/ Less time wasted/ More time for real business for port customers.
- Streamlined Operations/ More consistency and precision in operations/ Greater synergies/ communications among port agencies/ Less bottlenecks.
- More transparency and less scope for fraudulent activities.
- Reduced environmental costs.
- Reduced port costs contributing towards lower domestic cost of living.
- Greater business and other opportunities for FDI and local entrepreneurs.
- Greater international maritime connectivity and optimal sourcing of better quality and cheaper commodities.



Benefits of Efficient and Smart Ports (cont.)

- Higher cost-efficiency and productivity translate into greater profits for port agencies.
- Greater incentives for port workers and higher motivation are catalysts for even higher levels of labour productivity.
- More re-investments into better technologies for cost – saving enhancements.
- Training opportunities for higher technical expertise and management team.
- Greater gender – balanced opportunities.
- Able to match or better the performance of more developed ports.



WAY FORWARD

LET US SMARTEN OUR PORTS



ANY QUESTIONS?