



DIGITALIZATION OF SEAPORTS TO ENSURE EFFICIENT GREEN PORT OPERATIONS

A collective journey towards sustainability, innovation, and a healthier planet for future generations

Presented By

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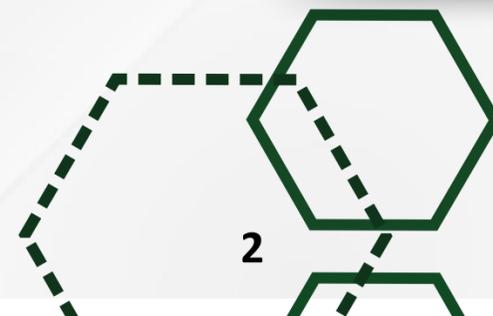
Chairman CPA





Maritime Sector & Digitization-Global Context

- ◆ Maritime trade has always evolved through continuous innovation
- ◆ Maritime sector is at a major transformation point
- ◆ Expanding global trade brings challenges in efficiency environmental sustainability and climate resilience
- ◆ Digitalization is the enabler connecting all these needs and pathway toward green, smart & sustainable ports
- ◆ Seaports handle nearly 90% of global merchandise by volume and this growth brings also challenges like emissions, congestion, waste, and high energy use
- ◆ Green Port concept aims for efficient operations with Minimal environmental impact

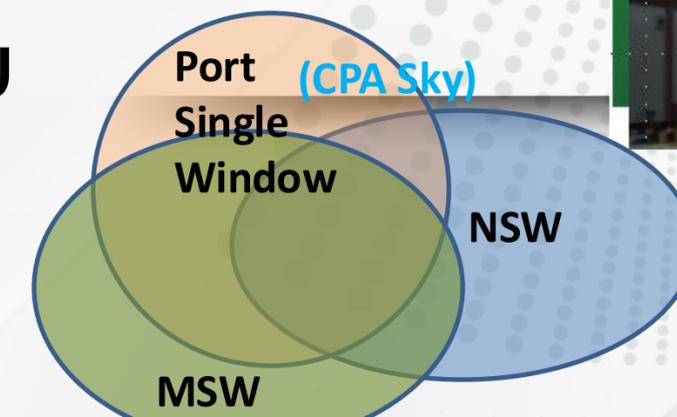
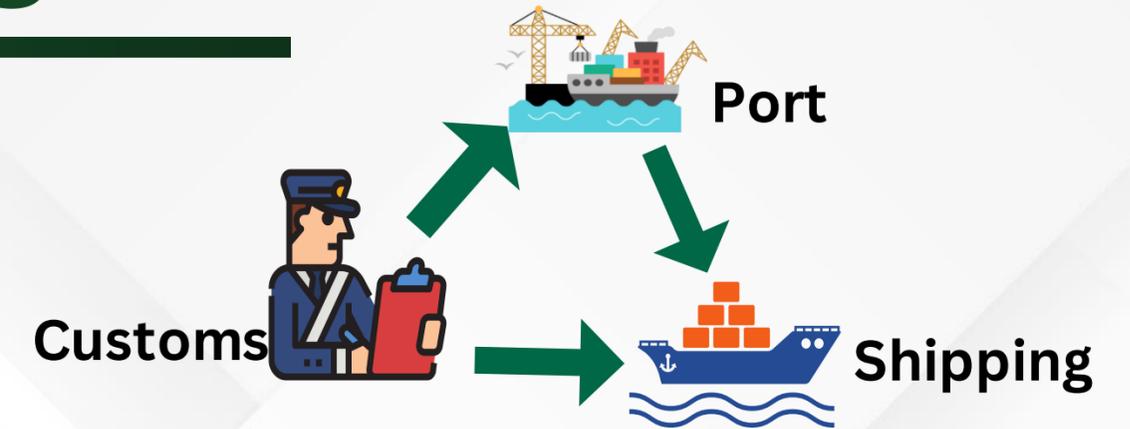


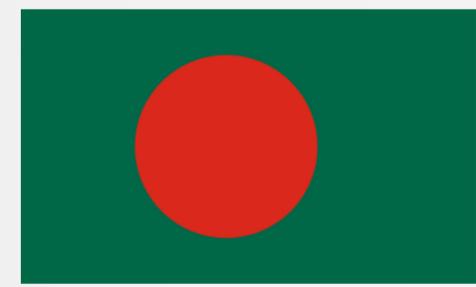


Digital Transformation & Green port Initiatives



- ✓ Automation
- ✓ Artificial *intelligence*
- ✓ Data analytics
- ✓ Technological Innovations
- ✓ Electronic Data Interchange (EDI)
- ✓ Vessel Traffic Management Information System (VTMIS)
- ✓ Digital E-Gate Pass and Container Tracking System
- ✓ Specialized Terminal Operating System (TOS)
- ✓ Automated Payment System
- ✓ A single window platform “CPA SKY” developed to integrate all stakeholders
- ✓ CPA has become the first port in South Asia to join the EU CRIMARIO IORIS Project





Regional and Global Outlook



- ◆ Digitalization is not only a matter of technology – it is a pathway to environmental stewardship
- ◆ Leading global ports like Rotterdam, Singapore, and Shanghai are setting new benchmarks
- ◆ Chittagong Port is determined to join this global movement
- ◆ CPA has signed a contract with APM Terminal BV to build a fully Green Terminal
- ◆ This project will transform the port operational landscape and will pave the way for achieving global port standards





Challenges and Way Forward



Key Challenges

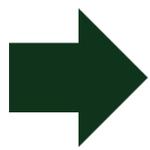
High initial investment requirements

Shortage of skilled human resources

Cyber security risks in digital systems

Resistance to shift from long-established practices

Essential reform for collective progress and long-term societal benefit



Responses

Capacity building

Strengthening capacity through comprehensive training programs

Enhancing digital governance

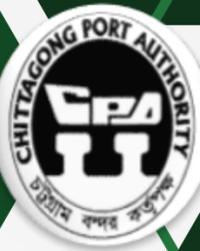
Collaborating with local and international partners

Strengthening digital governance framework

Ensuring long-term operational sustainability



Innovating Today for a Sustainable Tomorrow



- ◆ Digitalizing and greening Chittagong Port reflects Bangladesh's vision for a smarter, cleaner, sustainable future
- ◆ Our goal is to make Chittagong Port a model of innovation and environmental responsibility in the Bay of Bengal
- ◆ Through technology, commitment, and collaboration, we will strengthen the port as the gateway to Bangladesh's prosperity
- ◆ Chittagong Port aims to stand as a beacon of sustainability for future generations
- ◆ MSW will create a global digital platform connecting all nations
- ◆ Full MSW implementation is essential, and we are committed to achieving it and we all should remember-

FAILURE IS NOT AN OPTION



CHAIRMAN ,CPA ,BANGLADESH



THANK YOU FOR YOUR ATTENTION

**Let's take action now to protect our planet
and build a sustainable future.**



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