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Bangkok Port

Toward a Green Port Initiative

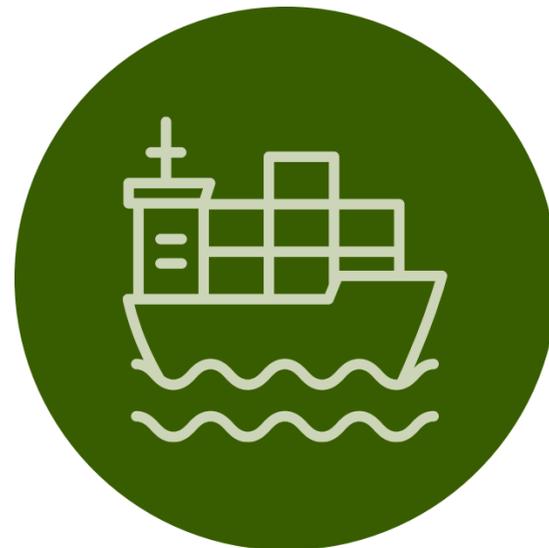
Miss Vansa Uraitat
Director, Occupational Safety,
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Bangkok Port



**Major waterway
logistics hub
in Thailand**



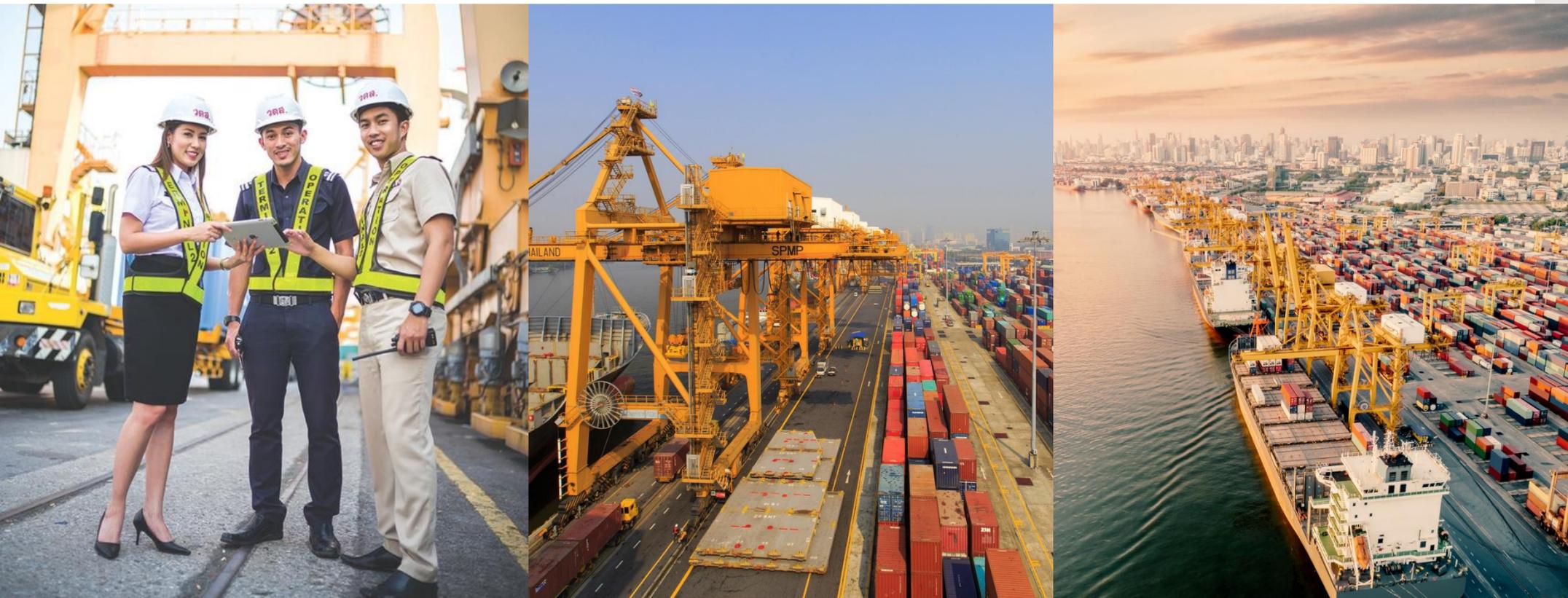
**Supports cargo
transport and
logistics network**



Key challenges

- **High carbon emissions**
- **High energy consumption**
- **Noise and waste pollution**

The Imperative for Green Transformation



International standards: IMO, ESG

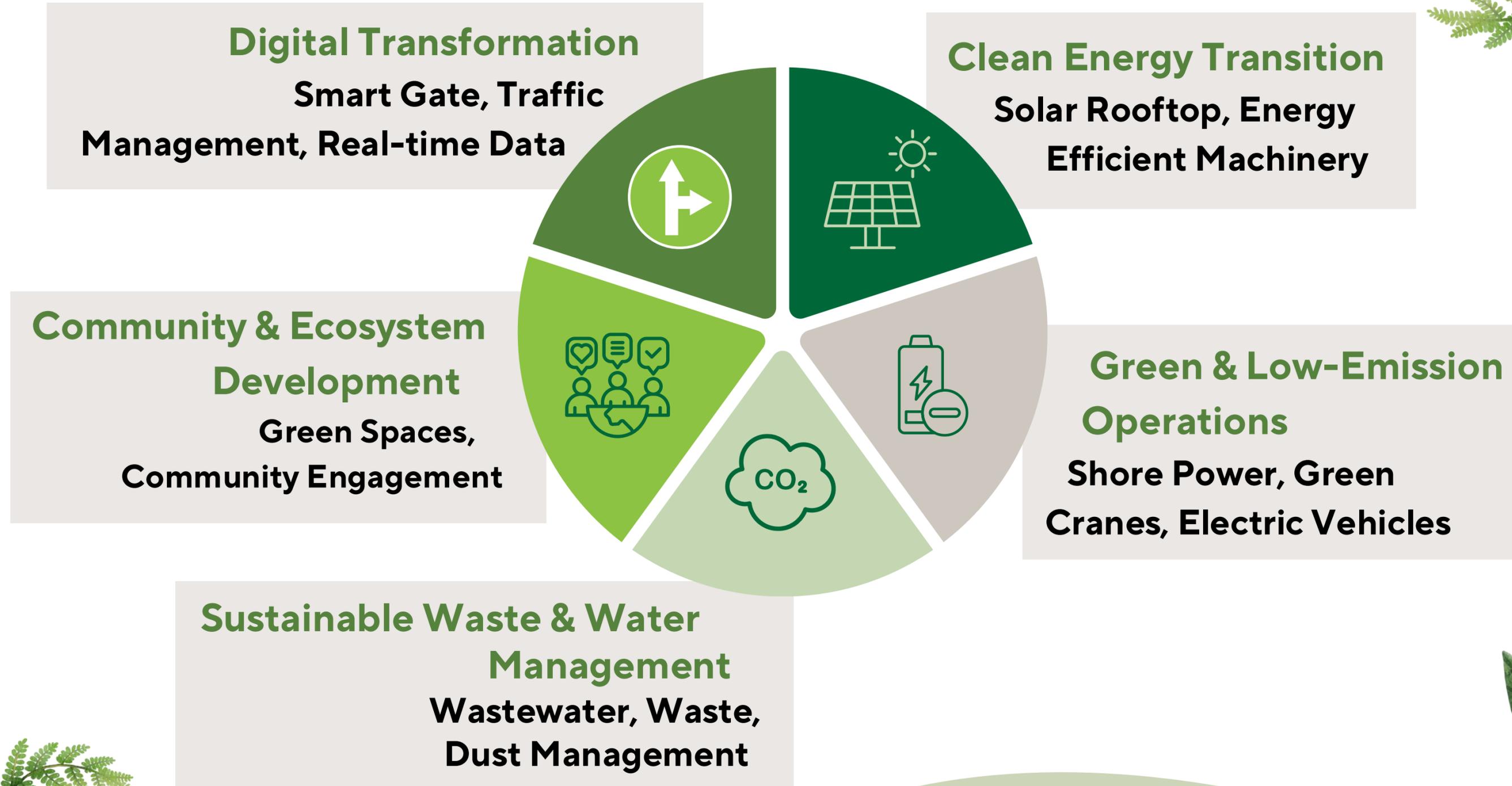
Growing focus on sustainability by operators

Benefits of a Green Port

- Energy cost reduction
- Increased cargo handling efficiency
- Reduced waiting time at berth
- Enhanced national image
- Supports Net Zero goals



Core Strategies for a Green Port



Key Projects & Initiatives



Environmental Quality Monitoring & Management

- Real-time Air quality monitoring
- Noise & air pollution control
- Environmental Information System (EIS)
- Environmental surveys & research

Waste & Pollution Control

- Ship & port area waste management
- Hazardous waste management
- Wastewater treatment system
- Prohibiting polystyrene foam packaging

Green Energy & Energy Efficiency

- Solar LED lighting, Solar Rooftop
- Onshore Power Supply for tugboats

Sustainable Operations

- Electric forklift replacement
- Green Office initiative

Ecosystem & Coastal Conservation

- Mangrove forest & coastal restoration



Expected Benefits

Environmental Benefits



- **Reduced greenhouse gas emissions**
- **Improved air and noise quality**
- **Energy savings**

Economic & Operational Benefits



- **Reduced long-term costs**
- **Increased cargo handling efficiency**
- **Enhanced confidence of port users**
- **Strengthened national port image**



Key Recommendations for Developing a Green Port

Must Do's:

- Establish a multi-stakeholder Green Port task force
- Start with quick-win projects like air quality monitoring and energy-saving equipment
- Make decisions based on reliable data (Data-driven)

Things to Avoid:

- Starting large projects without pilot testing
- Investing in technology without preparing staff
- Working in silos without proper coordination

Challenges & Solutions:

- High costs / slow ROI → Phase investments, start with Quick Wins, seek support from funds or government
- Unprepared operators → Create joint roadmaps, provide incentives, and offer training
- Limited staff skills → Conduct specialized training and establish expert teams
- Incomplete / inaccurate environmental data → Install standard sensors and centralize data

Areas to Watch:

- Long-term budgeting aligned with Net Zero goals
- Accuracy of ESG and environmental data
- Staff capability development for new technologies



Conclusion



**Green & Smart Port
as a tangible goal**



**Collaboration from all
sectors: Government,
operators, shipping
lines, community**



**Vision: Bangkok Port
as a model Green
Port in Thailand and
ASEAN**





THANK YOU

