Kiribati report-National Priority project for sustainable maritime transport and resilient port development.

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OBJECTIVES

To ensure Kiribati Maritime and Port sector is resilient, economically viable, and environmental sustainability in the future
Topics to cover

• Challenges of the Maritime and Port Sector (Domestic and International)

• Vision and action plans to promote sustainable Maritime transport

• Top priorities for becoming more sustainable, resilient, green or clean Maritime and Port
1. **Challenges of the Maritime and Port Sector**

1. Climate changes and Sea level rise,
2. Outdated Nautical charts – paper charts,
3. Channel width and Depth constraints,
4. Berthing areas size and depth constraints,
5. Inadequate of Land space
6. Social Culture
7. Limitations of heavy plant vehicles
8. Capacity training/Lack of skills
9. Aging infrastructures
1.1 Climate change and Sea level rise,

• Infrastructure - deterioration
• Erosion to the coastline – Ports relocated,
• Damage to the Port seawall – swallow berthing areas
• Change of weather pattern – Cargo handling and ships schedule delays
1.2 - Outdate Nautical paper charts

- Manufactured 1941 (US and British Navy)
- Discrepancy of depth soundings on used charts.
- Risk of ships aground
- Hydrographic survey office and no equipment
- Off loading and loading of cargoes at Outer islands
- Time consumed to ship’s operators
1.3 **Width and Depth of channel constraints.**

- Impact on the country revenue
- Deep draught vessels,
- Limitations of ships movements
- Insufficiency of petroleum supply
1.4 – Berthing areas depth Constraints

- Impact on country revenue
- Slow ships movements
- Time waste to local shipping lines
- Shortage of goods on outer islands
- Shipping congestions
- Changes to ships operation routine – departure and arrival
1.5 In adequate land space

- Container yard congestion
- Traffic jamming – limitation of traffic inside Port.
- Limitation of essential infrastructure (Passengers and cargoes)
- Time waste to customers
- Insecure area for Kiribati Police patrol boats
- Foreign naval vessels visiting the country
- Safety and security
1.6 Social Culture

• Compliance to International and National Maritime regulations.
• Labour conditions and safety issues
• Complacency
1.7 Limitations of heavy plant vehicles

- Hinder customer service
- Slow the cargo handling
- Frustration by local company
- Cause delay to ships movements
1.8 Capacity training

- Shortage of man power
- Not provided by donors – heavy duty machineries
- Maintenance of heavy equipment.
1.9 – Aging Infrastructure

- Environmental – Salinity
- Funding - maintenance
- Shortage of suitable equipment
- Quality of material – limitation of budget
2. Vision to promote sustainable maritime and transport

VISION

• Environmental Sustainability
• Economic Viability
• Social responsibility
2. VISION – Environmental sustainability

• Ensure that maritime activities cause to a minimal environmental impact, including reducing of gas emission, protection of marine biodiversity and marine pollution prevention.
2. VISION - Economic Viability

- Enhance the economic benefits of maritime transportation while ensuring long-term sustainability and resilience to climate change impacts.
2. VISION - Social responsibility

- Improve safety standards, promote and increasing of local employment opportunities and ensure equitable access to maritime resources and services.
2. Action plans to promote sustainable maritime and transport

ACTION PLANS

- Regulatory Framework:
- Infrastructure Development
- Capacity building
- Promotion of Clean technologies
- Community engagement
- Monitoring and Evaluation
ACTION PLAN

1. Regulatory Framework
   • Develop and Enforce of Maritime National regulations that align with International standards for safety, pollution prevention and vessel efficiency.

2. Infrastructure Development
   • Invest in Port facilities, renewable energy integration for Ports and Coastal protection measures to enhance resilience against sea level rise and natural disasters events
ACTION PLAN continue

3. Capacity Building

• Provision of training programs to Maritime personnel on sustainable practices, safety protocols and emergency response.

4. Promotion of Clean technology:

• Encourage adoption of low-emission technologies such as hybrid or electric vessels and promote into alternatives fuels like biofuels or hydrogen.
ACTION PLAN - continued

5. Community Engagement:
   • *Foster partnership with local communities, indigenous groups and stakeholders to ensure their participation in decision-making processes and benefits sharing.*

6. Monitoring and Evaluation:
   • *Establish mechanisms for monitoring maritime activities, assessing environmental impacts and periodically revision of policies to adapt of new evolutions and challenges.*
ACTION PLAN - continued

Implementation of these action plans requires strong collaborations among government agencies, private sectors entities, international organizations and local communities in order to achieve sustainable maritime transportation in Kiribati.
TOP PRIORITY FOR BECOMING MORE SUSTAINABLE, RESILIENT, GREEN OR CLEAN MARITIME AND PORT.

• Becoming more sustainable, resilient, green or Clean in Maritime and Port operations is significantly important for islands nations like Kiribati.
TOP PRIORITY FOR BECOMING MORE SUSTAINABLE, RESILIENT, GREEN OR CLEAN MARITIME AND PORT.

• RENEWABLE ENERGY INTEGRATION
  Investing in renewable energy sources, implementing energy-efficient technologies.

• ENERGY EFFICIENCY
  Introduction usage of led lighting and smart lighting system

• WASTE MANAGEMENT
  - Recycling programs
  - Waste – to – Energy
  - Marine Debris Management
TOP PRIORITY FOR BECOMING MORE SUSTAINABLE, RESILIENT, GREEN OR CLEAN MARITIME AND PORT – Con’t

Water Management
- Desalination plant
- Stormwater management

Green Infrastructure
- Green building
- Natural barriers
- Urban Green spaces
TOP PRIORITY FOR BECOMING MORE SUSTAINABLE, RESILIENT, GREEN OR CLEAN MARITIME AND PORT – Con’t

Sustainable Shipping practices
- Low – emissions vessels
- Clean fuel
- Efficient routing

Climate Resilience
- Infrastructure upgrading
- Early warning system
- Community engagement
- Develop disaster response and recovery plan
TOP PRIORITY FOR BECOMING MORE SUSTAINABLE, RESILIENT, GREEN OR CLEAN MARITIME AND PORT – Con’t

Regulatory and Policy Framework
- Enforcement of National Environment Act
- Incentives
- International Cooperation

Technology and Innovation
- Smart Ports
- Research and development
- Digitalization
- Improving cybersecurity measures
TOP PRIORITY FOR BECOMING MORE SUSTAINABLE, RESILIENT, GREEN OR CLEAN MARITIME AND PORT – Con’t

Education and training
- Awareness program –
- Skills development –
- Collaboration with institutions

Implementation Strategies
- Stakeholders engagement
- Investment and securing of Funding
- Monitoring and Evaluation
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AND
THANK YOU ALL FOR YOUR TIME