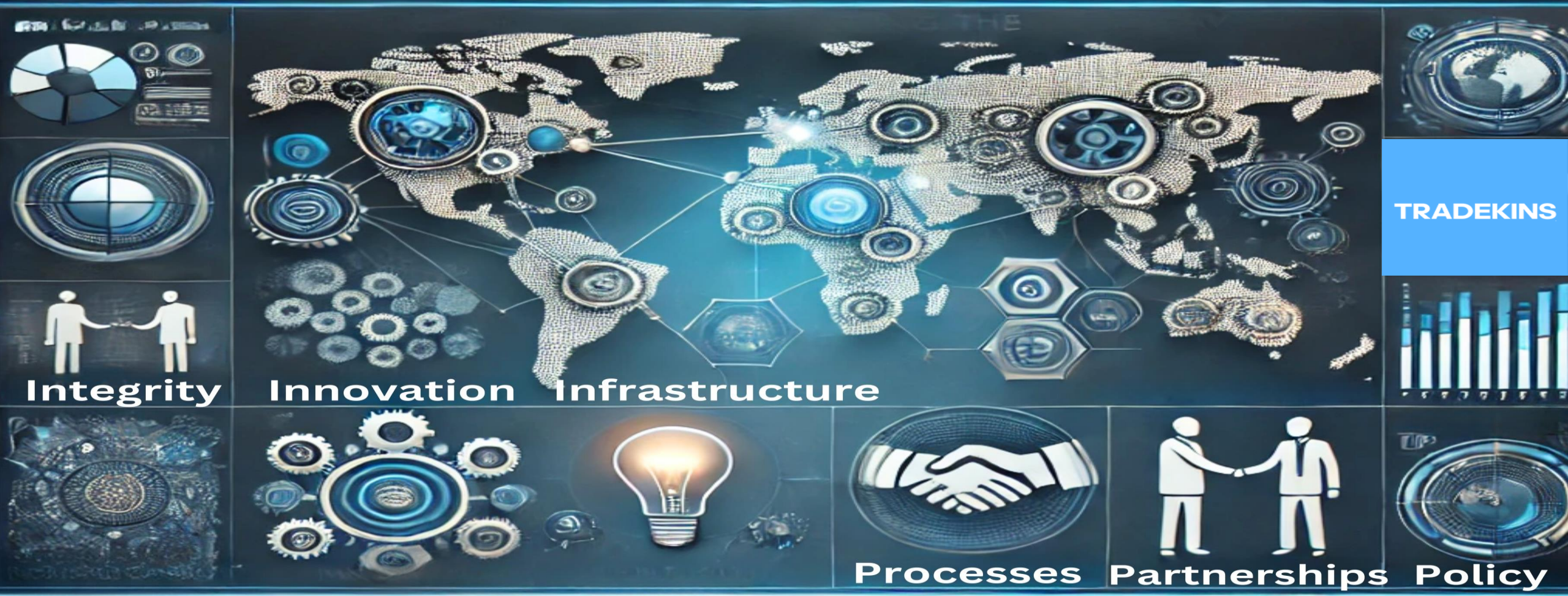


# Building a Modern Maritime Economy



Prof V Jesudevan

Not to be reproduced without written permission.



# Building a Modern Maritime Economy

## Designing and Operating Sustainable and Future-Ready Ports

### Digitalisation & Sustainability

- Operational Efficiency
  - Automation
  - Energy Efficiency
- Enhanced transparency
  - Predictive Maintenance
  - Digital Twins & Triplets
- Supply Chain Integration
  - Intermodality
  - PCS & NMSW

### Adapting to Requirements

- Vessel Size Developments
  - Port Access
  - Port Operations
- Circular Economy
  - Shared Resources
  - Sustainable Infrastructure
- EU Corporate Sustainability Reporting Directive
  - 6 of 9 Planetary Boundaries crossed in 2023
  - Shipping and Ports contribute 3% to GHG, total transport 20%

### Best Practices & Lessons Learned

#### *Hamburg, Rotterdam, Antwerp*

- Smart Port Solutions
- Diversifying Services
- Green Port Solutions
- Skilled Workforce
- Partnerships
- Research and Innovation

# The Potential of Free Zones in Positioning South Asia as a Trade and Logistics Hub.

- Strategic Location of Colombo port - South Asia's geographic position do we harp further or create value ?
- Economic Growth - Countries in South Asia, such as India and Bangladesh, are experiencing robust economic growth. Are we benefiting ?
- Investment Incentives - increased offering of incentives to attract foreign investment in free zones. Are we competitive?
- Infrastructure Development - Many South Asian countries are investing heavily in infrastructure. Are we late?
- Growing E-commerce - The rise of e-commerce in South Asia connecting Middle East , Africa and Asia ?
- Regional Trade Agreements - Both bilateral and regional, which will enhance trade flows and reduce tariffs drastically. Are we promoting these ?