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L'ESPRIT DE L'EUROPE, LE CŒUR DE L'OCEAN INDIEN

SMART PORTS INITIATIVES IN THE INDIAN OCEAN

Smart Ports (Future of Indian ocean)

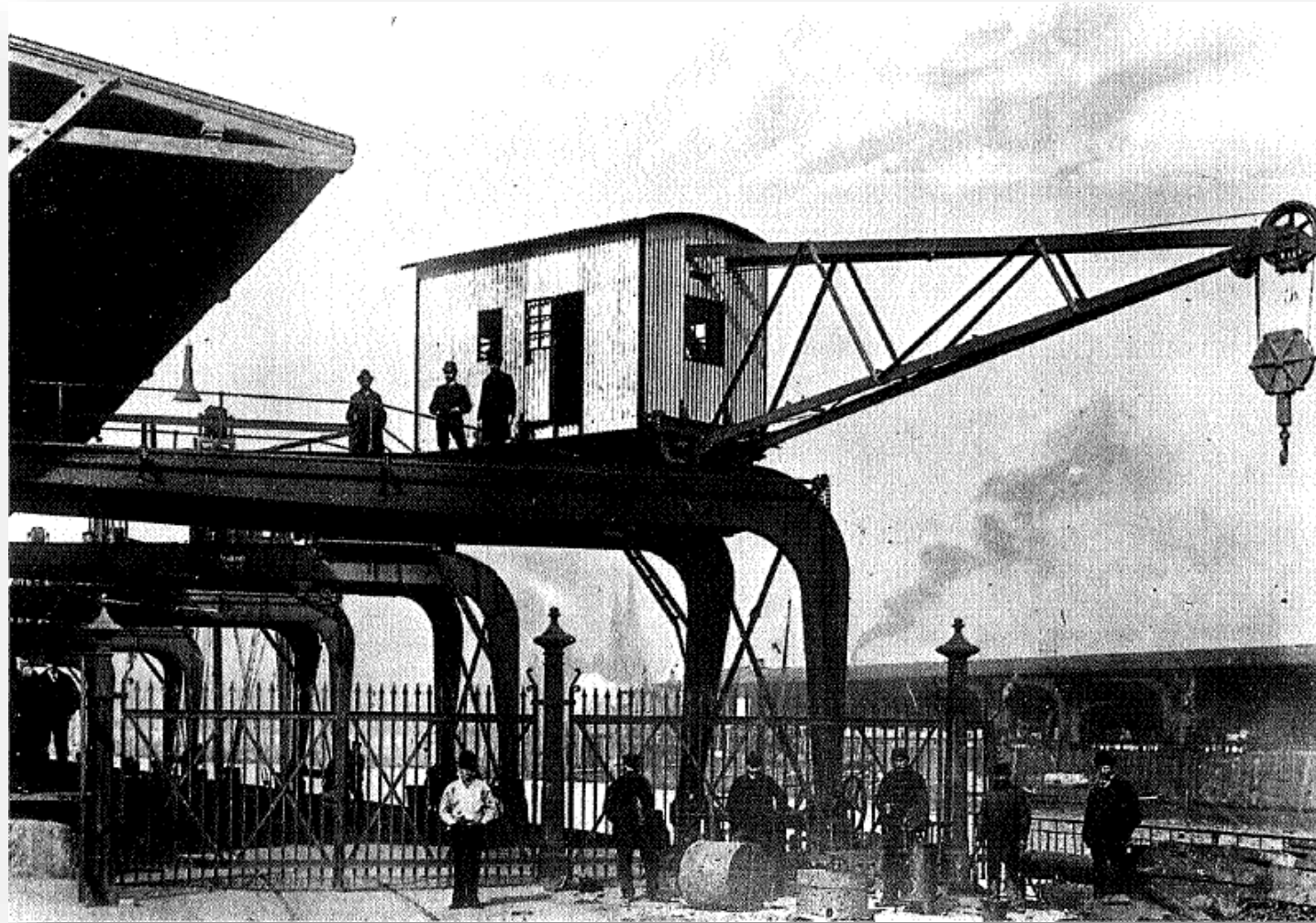
Smart Ports Initiatives (Technical) In The Indian Ocean,
WEBINAR
Buhle Yengwa



Siemens Smart Ports

131 Year of Experience

SIEMENS
Ingenuity for life



Siemens Smart Ports Electrification and Modernization

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Lifespan of Port Equipment

- 30 Years
- However PLC, VSD life cycle is shorter

Advantages

- ✓ Equipment availability
- ✓ Increase Productivity
- ✓ Safety
- ✓ Efficient and Smart state of the art Technology



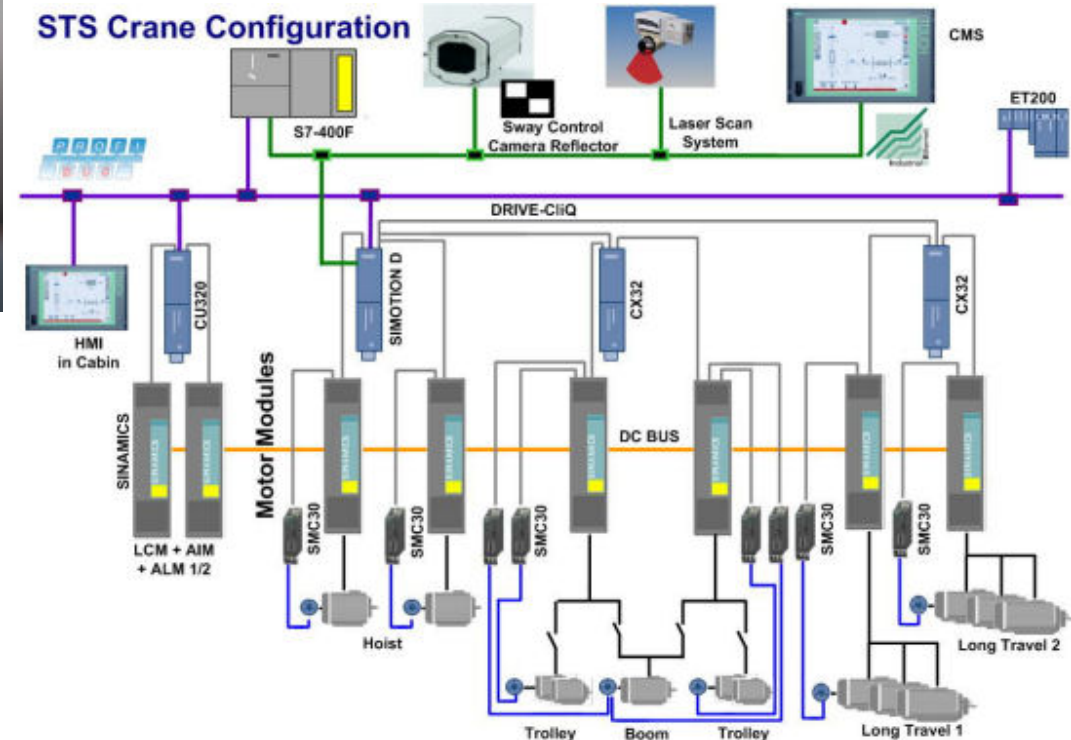
Phase out of Technical equipment

- 10 Years (Spares availability)
- Stop manufacturing
- 2 Years later end of guarantees



Disadvantages

- High maintenance cost
- Spare parts no longer available
- Safety might be compromised



Siemens Smart Ports

Smart Data (Safe and Efficient Production)



Port Challenges

- Manual operations with errors
- Traffic/ delays
- Old Technology
- Slow production processes
- Shift change taking longer



Next Generation's Technology today

- ✓ Safe
- ✓ Faster
- ✓ Visualize the status of the crane at any given time
- ✓ Modular and robust Components
- ✓ Accommodating Ports weather conditions



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Smart Ports

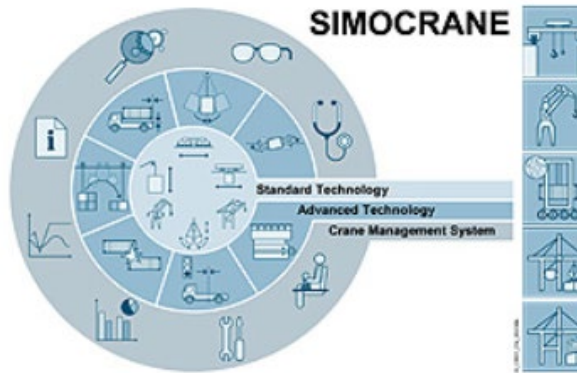


Smart Engineering

- ✓ 3D Crane Digital twin, real time optimization

Smart Cranes

- ✓ Crane Management Systems
- ✓ Sway Control
- ✓ Collision Prevention



Remote Crane Operating System

- ✓ Remote connect and control any Crane



Advantages



Accurate stacking



Improve performance
and productivity



Accurate landings



Cost-saving with FLS in
remote operations

Siemens Smart Ports Cyber Security

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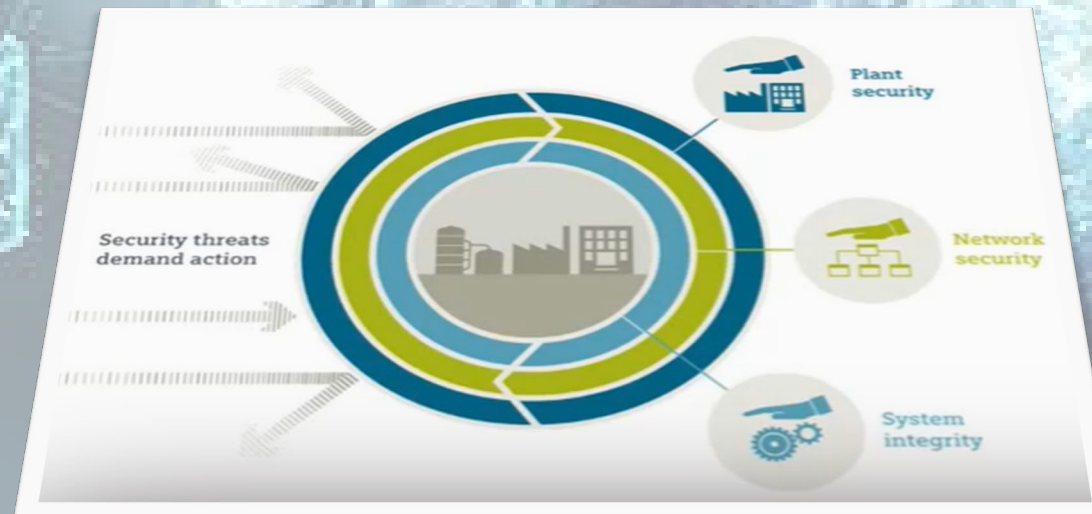


Siemens Smart Ports Cyber Security

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The Importance of Cyber Security

- ✓ Protect your Productivity
- ✓ Safe Smart Data sharing
- ✓ Essential Standard IEC 62443



Thank you

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