



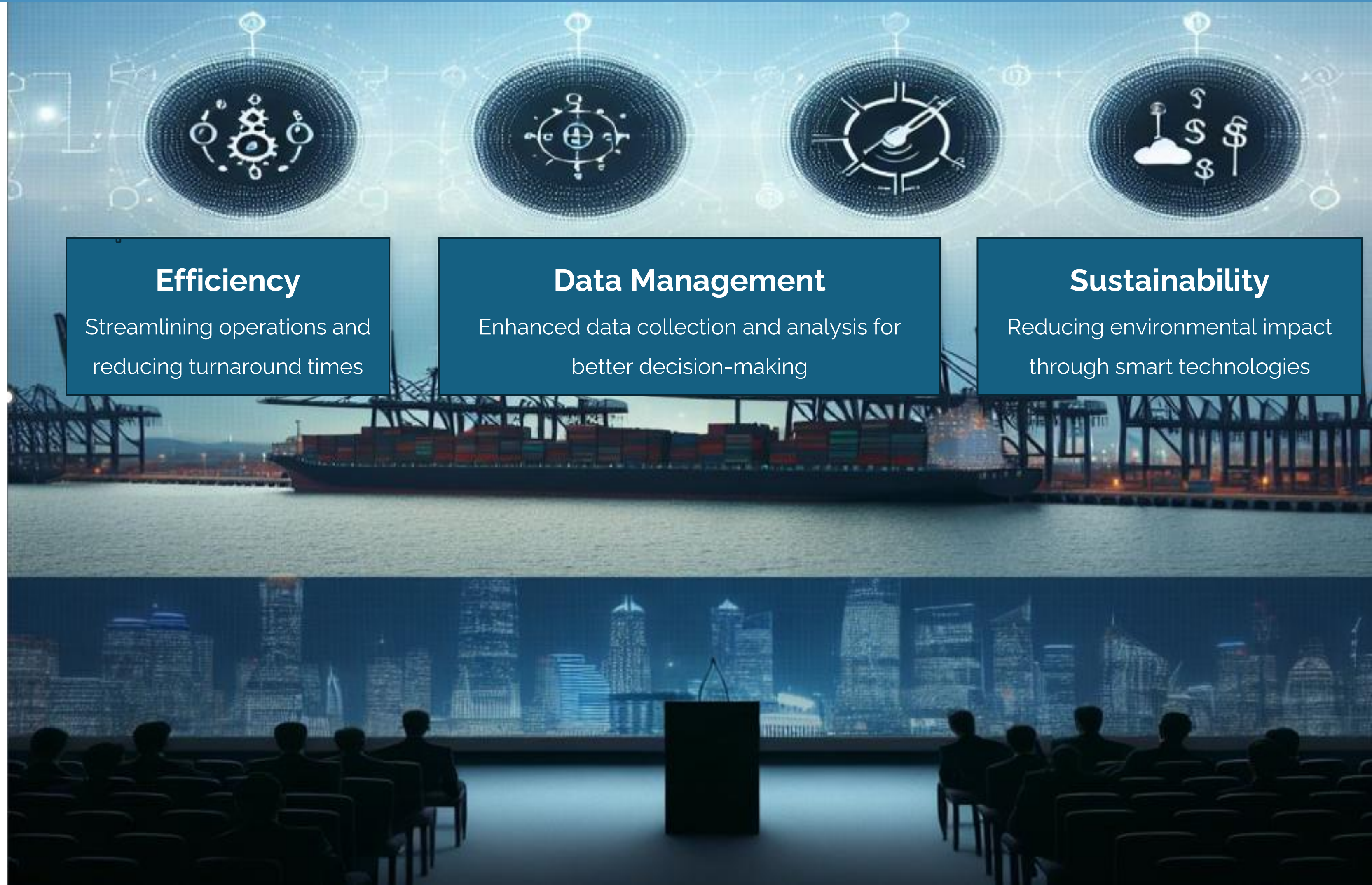
YILPORT Holding

Yilport: Pioneering Digitalization and Security Innovations in Ports

GAME CHANGER IN PORT OPERATIONS

& CONTAINER TERMINAL MANAGEMENT

Importance of Digitalization in Ports



Efficiency

Streamlining operations and reducing turnaround times

Data Management

Enhanced data collection and analysis for better decision-making

Sustainability

Reducing environmental impact through smart technologies

Port Digital Maturity Levels

Challenges to implement Digitalization in ports



- ➔ **LACK OF STANDARDIZATION**
- ➔ **INADEQUATE INFRASTRUCTURE**
- ➔ **CULTURAL AND ORGANIZATIONAL BARRIERS**
- ➔ **DATA SECURITY AND INTEGRITY**
- ➔ **REGULATORY AND LEGAL CHALLENGES**

YILPORT Holding

Brief introduction to Yilport, a global port management company.

Focus on innovation, sustainability, and efficiency.

Metals & Mining/ Ports & Logistics/ Fertilizers & Chemicals/ Financial Investments



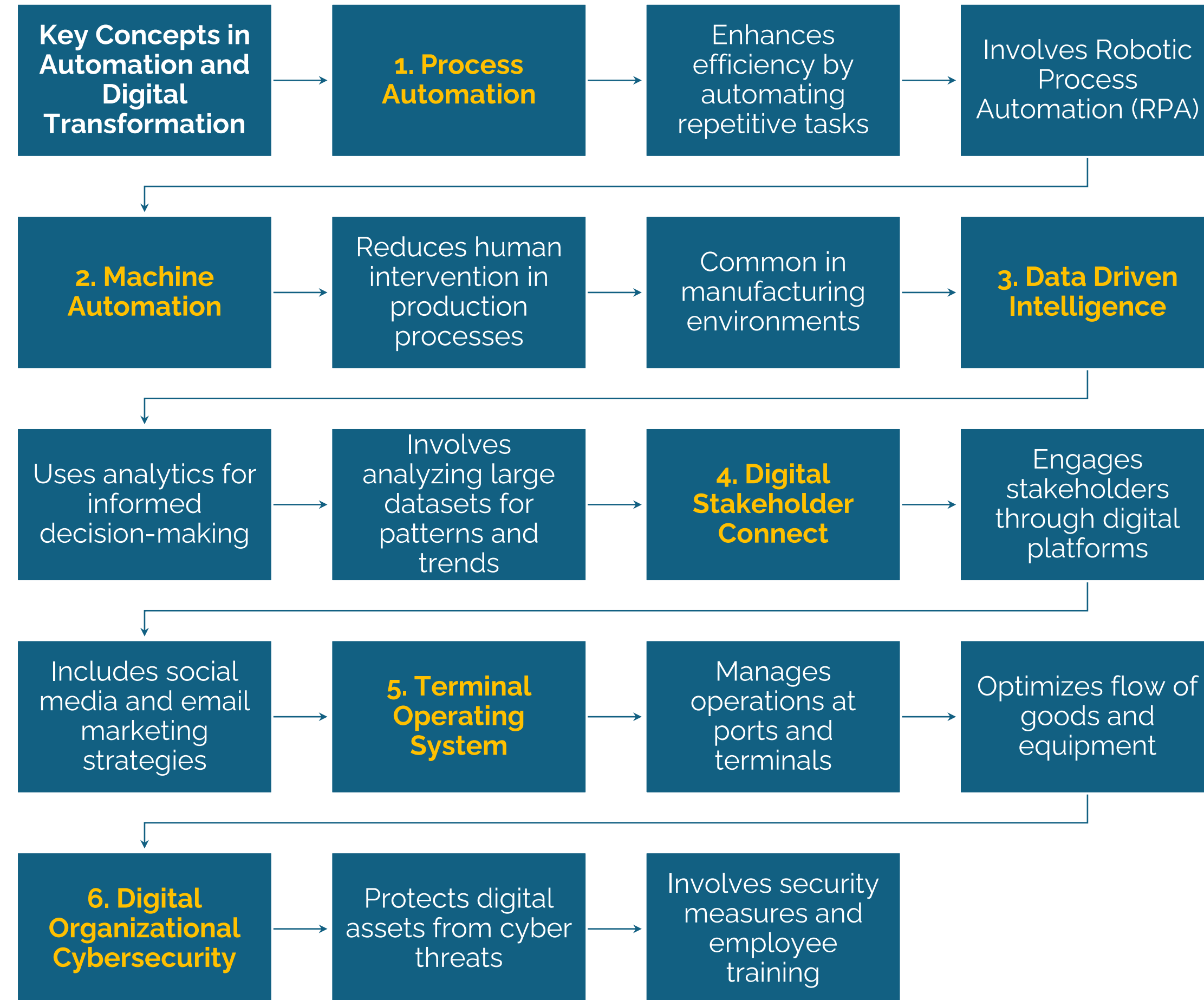
- Guatemala**
Puerto Quetzal
- Ecuador**
Puerto Bolívar
- Peru**
Paíta



- Norway**
Oslo
- Sweden**
Gävle Container Terminal
Gävle Multipurpose Terminal
Stockholm Nord Dry Terminal
- Spain**
Ferrol
Huelva
- Portugal**
Leixões
Liscont
Sotagus
Setúbal
Figueira da Foz
Aveiro
Tersado
- Croatia**
Šibenik
- Italy**
Taranto
- Malta**
Malta
Freeport
- Ghana**
ATSL Takoradi
- Türkiye**
Gebze
Gebze Dry Terminal - 1
Gebze Dry Terminal - 2
Gebze Dry Terminal - 3 (E-5)
Gemlik
Gemlik Dry Terminal - 1 (Gemlik)
Gemlik Dry Terminal - 2 (Gemlik)
Solventaş
Körfez

Başkent OIZ Eti Logistics Ankara Intermodal Terminal

Yilport - Key Concepts in Automation and Digital Transformation



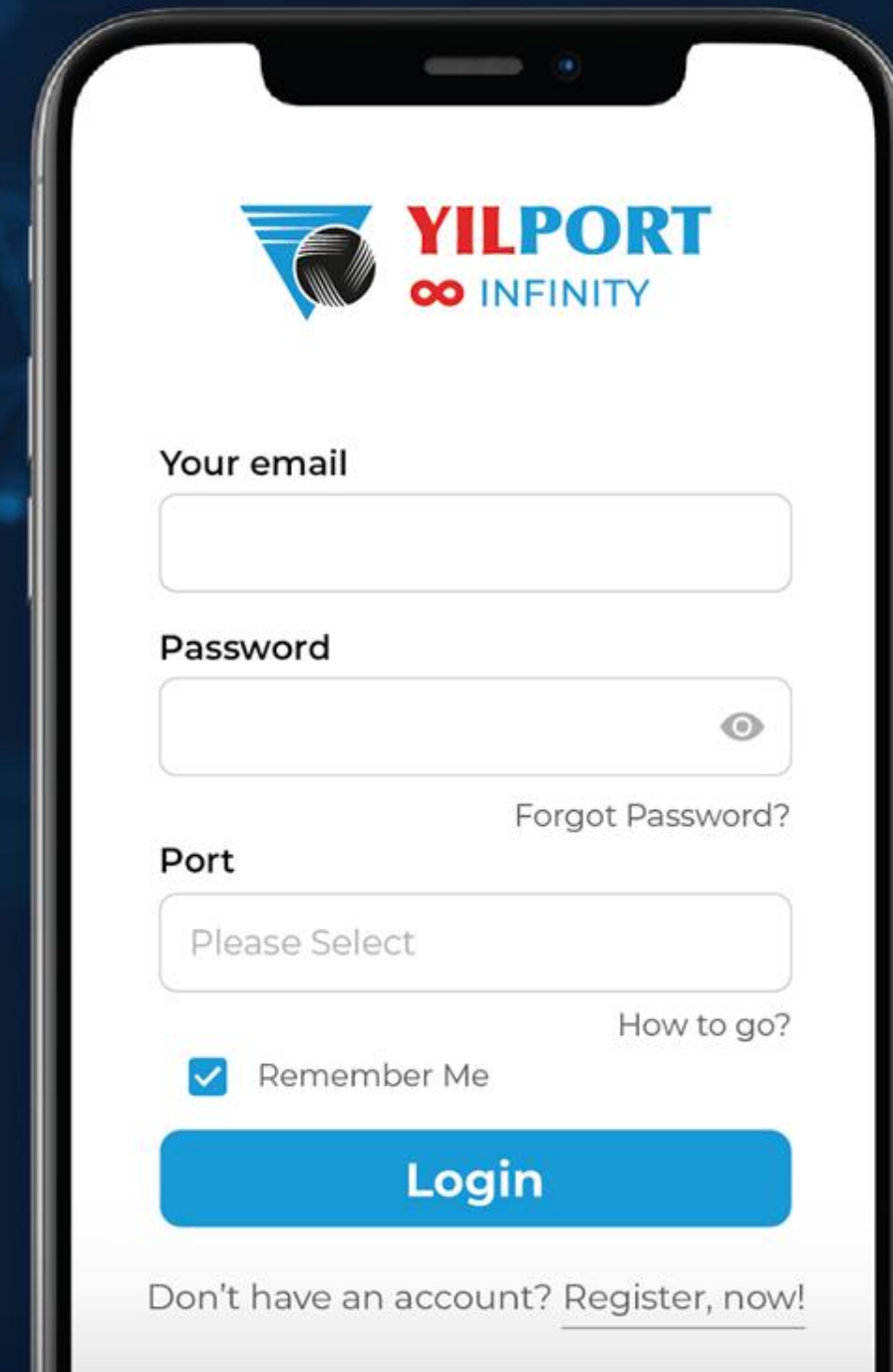
Process Automation

- Port call optimization
- Position Detection System
- Container tallying at loading/unloading
- Verified gross mass (VGM) process during loading
- Container tracking
- Customs clearance
- Customs container inspection
- Container damage inspection
- Horizontal fleet routing
- Horizontal fleet refueling
- Horizontal fleet recharging
- Horizontal fleet loading/unloading priority
- Documentation for gate-in/gate-out
- Gate-in/Gate-out Identification
- "Container inspection (at gate in/out or load/unload on trains)"
- Rail load/unload planning
- Container repair planning
- Reefer monitoring
- Reefer pre-trip inspection before loading



DISCOVER THE **INFINITY** APP!

*Available in Türkiye



The image shows a smartphone screen with the YILPORT INFINITY app login interface. At the top is the YILPORT INFINITY logo. Below it are three input fields: 'Your email', 'Password' (with an eye icon for visibility), and 'Port' (with a dropdown menu showing 'Please Select'). There is a 'Remember Me' checkbox and a 'Login' button. At the bottom, there is a link for 'Don't have an account? Register, now!'.

- **Container Search:**
Access container information
- **Booking Operations:**
Expedite export and empty delivery bookings
- **Vessel Schedule:**
Stay updated on vessel schedules and voyages
- **VGM Ticket:**
Access VGM results and ministry approved PDFs
- **CFS Request Search:**
Monitor CFS service requests
- **Contact Form:**
Send us your inquiries through the contact form
- **Announcements and Documents:**
Access latest important documents online



Reach **24/7** Safe & Accurate Information

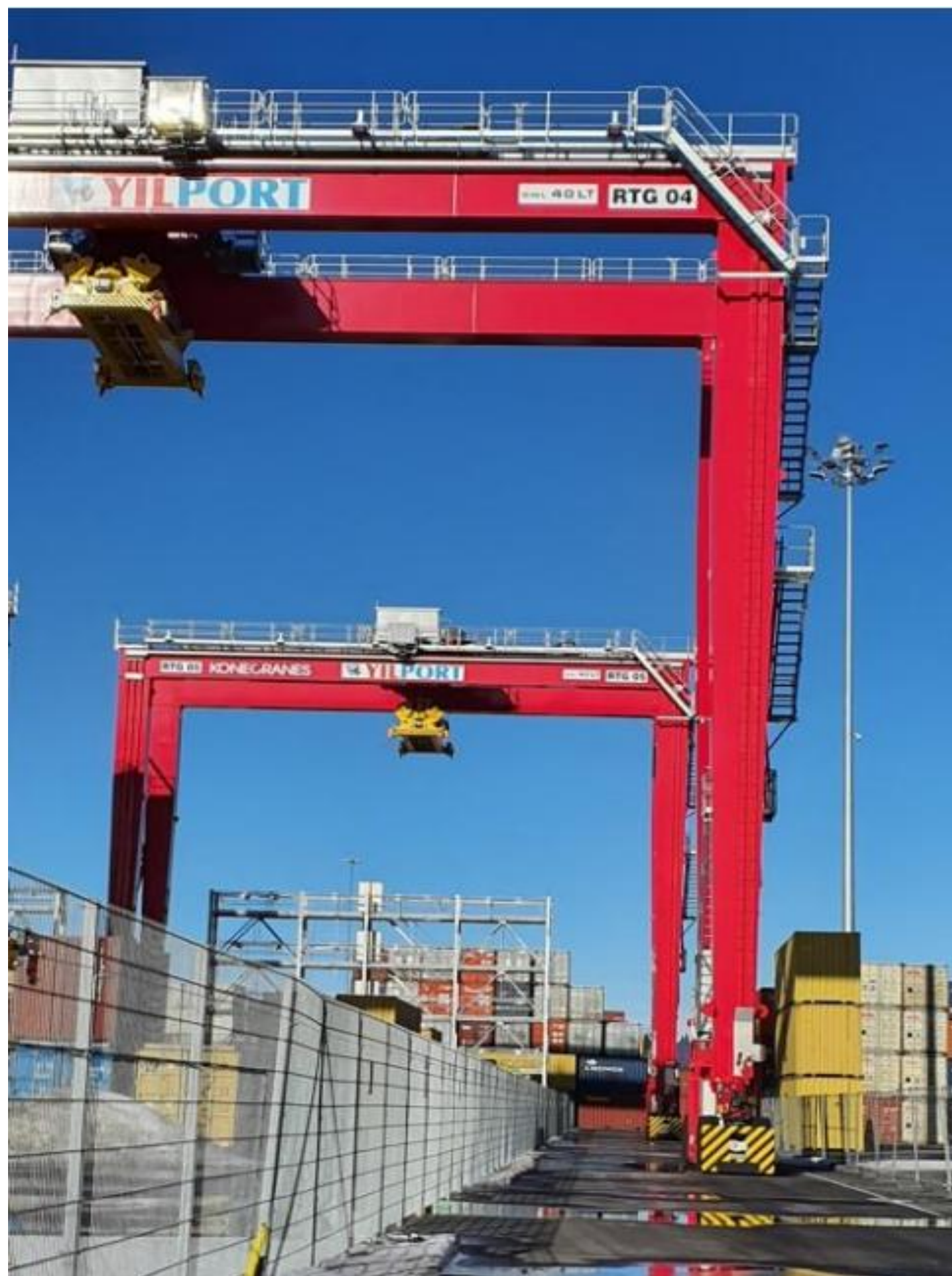


Machine Automation

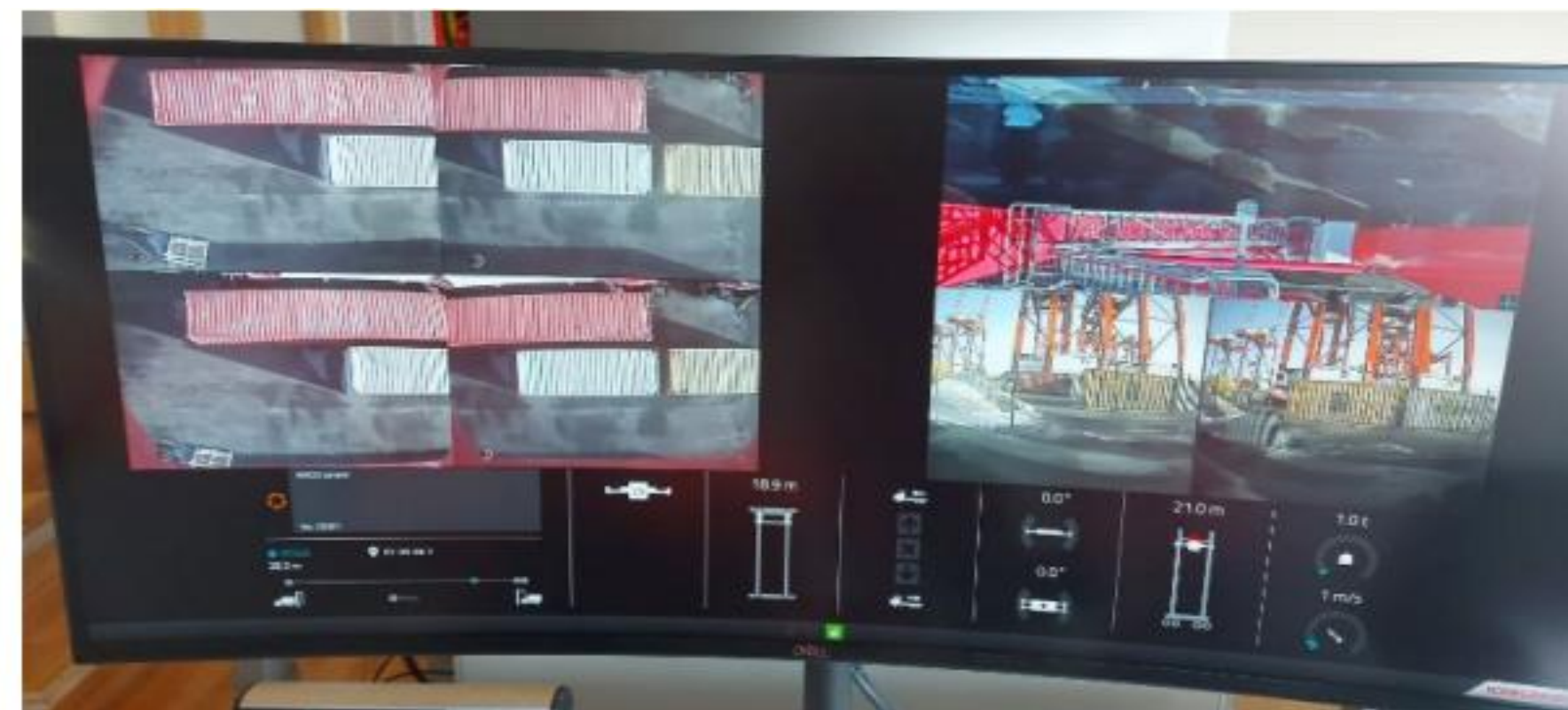
- Vessel mooring and unmooring
- Lashing/unlashing container on vessel during loading/unloading
- Twistlock attachment/release during loading/unloading
- Cargo loading/unloading
- Intermodal transport
- Horizontal transport
- Container stacking & retrieval



Semi-automated RTGs



- New Semi Automated RTGs**
- Controlled remotely
 - Guiding system for trucks on the cranes
 - Full electric
 - Anticollision systems crane to crane, and crane to object
 - Anti truck lifting
- Safer, Faster, Greener**



Data Driven Intelligence

- Yard stacking optimization
- Empty container storage yard stacking optimization
- Yard space optimization
- "Long term cranes planning(e.g., STS, RTGCs, RMGCs, ASCs etc.)"
- "Long term terminal tractors planning(for in-terminal transport)"
- Long term manpower planning
- "Long term other Infrastructure & facilities planning(e.g., Berths, cold storage, bunkering tanks etc.)"
- Dynamic berth management
- Dispatching (Job instructions)
- Scheduling (cranes/vehicles/manpower)
- Dynamic pricing for container storage charges
- Dynamic pricing for container handling charges
- Dynamic pricing for berth charges
- Dynamic pricing for demurrage charges
- Equipment maintenance
- Spare parts inventory planning
- Equipment visual inspection
- Automated equipment repair
- "Simulation modelling(e.g., supply chain planning, capacity planning etc.)"
- Digital twin implementation
- Operating performance reporting



Digital Stakeholders Connect

Service providers & regulatory authorities

- Trucking companies
- Rail operators
- Barge operators
- Shipping lines
- Container repair service providers
- Fleet refuelling service providers
- Port authority
- Customs agents
- Customs authority
- Health authorities (like veterinary authority)
- Harbour Master
- Coast guard



Vendors

- Crane vendors
- Maintenance and Spare part vendors
- Port equipment vendors

Other Terminals

- Terminal in the company portfolio in the same port
- Terminal in the company portfolio in an outside port
- Terminal outside the company portfolio

Complementary systems



Terminal Operating System

- Yilport implemented Navis in N4 as the main systems that registers and updates every operational or commercial transaction



Infinity

- Web based app for customer to do pregate transactions remotely prior to arrive to the terminal



Mobile Truck App

- An app that allows the truck driver to follow the transaction throughout the entire process at the terminal.
- This app is also linked with our system. Allowing to speed up the transaction if the app is used.



Automated Gate System

- New System to register visits from trucks to the terminal

RTG Automation / Position Detection System

Mobile Truck APP - Position Detection System



***Depending on Equipment Supplier TOS integration and WO processing might changed.

Terminal Operating System

- Berth module
- Operational module (Load and Discharge)
- Transport module (Equipment control)"
- Yard module
- Gate module
- Rail module
- Integration module



- **Network Segregation:** Implement network segregation to isolate critical systems and reduce the risk of widespread cyber-attacks.
- **Access Control:** Implement strict access control measures to ensure that only authorized personnel have access to sensitive systems and data.
- **Incident Response Plans:** Develop and regularly update incident response plans to quickly and effectively respond to cyber incidents.
- **Continuous Monitoring and Threat Detection:** Use advanced monitoring tools to detect and respond to threats in real-time.
- **Employee Training and Awareness:** Conduct regular training sessions to ensure all employees are aware of cybersecurity best practices and the latest threats.
- **Collaboration and Information Sharing:** Collaborate with other ports, maritime organizations, and cybersecurity agencies to share information about threats and best practices.

Digital Organization Cybersecurity



SECURITY

Your cargo is in our secure hands!



DATA Protection:

The YPH-IT-Infrastructure is continuously under supervision to apply the highest standards for Data protection.

Perimeter / Access Protection:

To ensure the safety of all people and cargo, YILPORT implements the latest technology and hires the most vigilant security personnel who monitor our facility 24/7.

ISPS:

Every year the ISPS certification undergoes a rigorous test by the Undersecretaries of Maritime Affairs, which we consistently and successfully pass.



IMO:

We follow all IMO recommendations closely and carry on our leadership in port security.

Strategic questions to be made related to Digitalization implementation



1. Where does digitization lie among the top priorities that the leadership is driving?
2. What is the prime objective/inspiration for digitization at your company?
3. How would you define the engagement of the workforce with the digital transformation of the company?
4. What are your plan to hire employees/contracted workforce for next year to drive digitization across terminal operations?
5. Does your company generate or plan to generate revenue using data (e.g. data sharing with other stakeholders for additional revenue stream)?

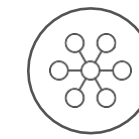
OUR OPERATIONAL STANDARDS

GLC Global Logistics Center



GLC - one team multiple terminals

- One operation language
- Navis N4
- Standardized reporting
- Analysis and global benchmarking



Efficiency
Through Centralization



Data Control
& Reporting



Planning Critical Aspects of Operations



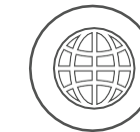
Continuous Improvement
by Advanced Technologies



Operational Efficiency
Through Optimization



Knowledge Exchange
& Collaboration



Global Deployment
of Best Practices



Customer Service for Customer-Centric Approach



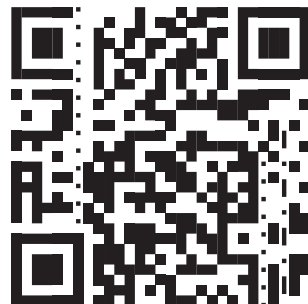
Harnessing Employee
Expertise

The YILPORT Global Logistics Center is not only a technological powerhouse but also a hub for fostering efficiency and the exchange of best practices among terminals.



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THANK YOU