

An aerial view of a port terminal at night, illuminated by blue and white lights. The terminal is filled with stacks of colorful shipping containers (red, blue, yellow) and several yellow gantry cranes. The background shows a dark sea with a few ships. The overall scene is a busy, modern port environment.

# Digital Transformation in Piraeus Port

Building a Smart Port

# Agenda

**Piraeus Port Overview..... #**

**Port Digitalization and Challenges..... #**

**Disruptive ICT Innovations in Piraeus ..... #**

**Cyber Risk Management ..... #**

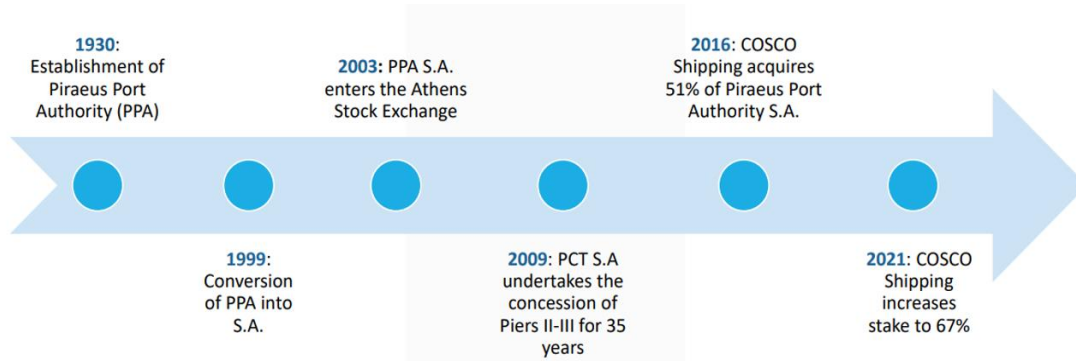
A large container ship is shown from a side-on perspective, sailing on a body of water. The ship's hull is dark, and the upper part is covered in stacks of colorful shipping containers. The sky is a deep blue, suggesting twilight. The water is calm with a slight wake behind the ship. The entire image has a blue color overlay.

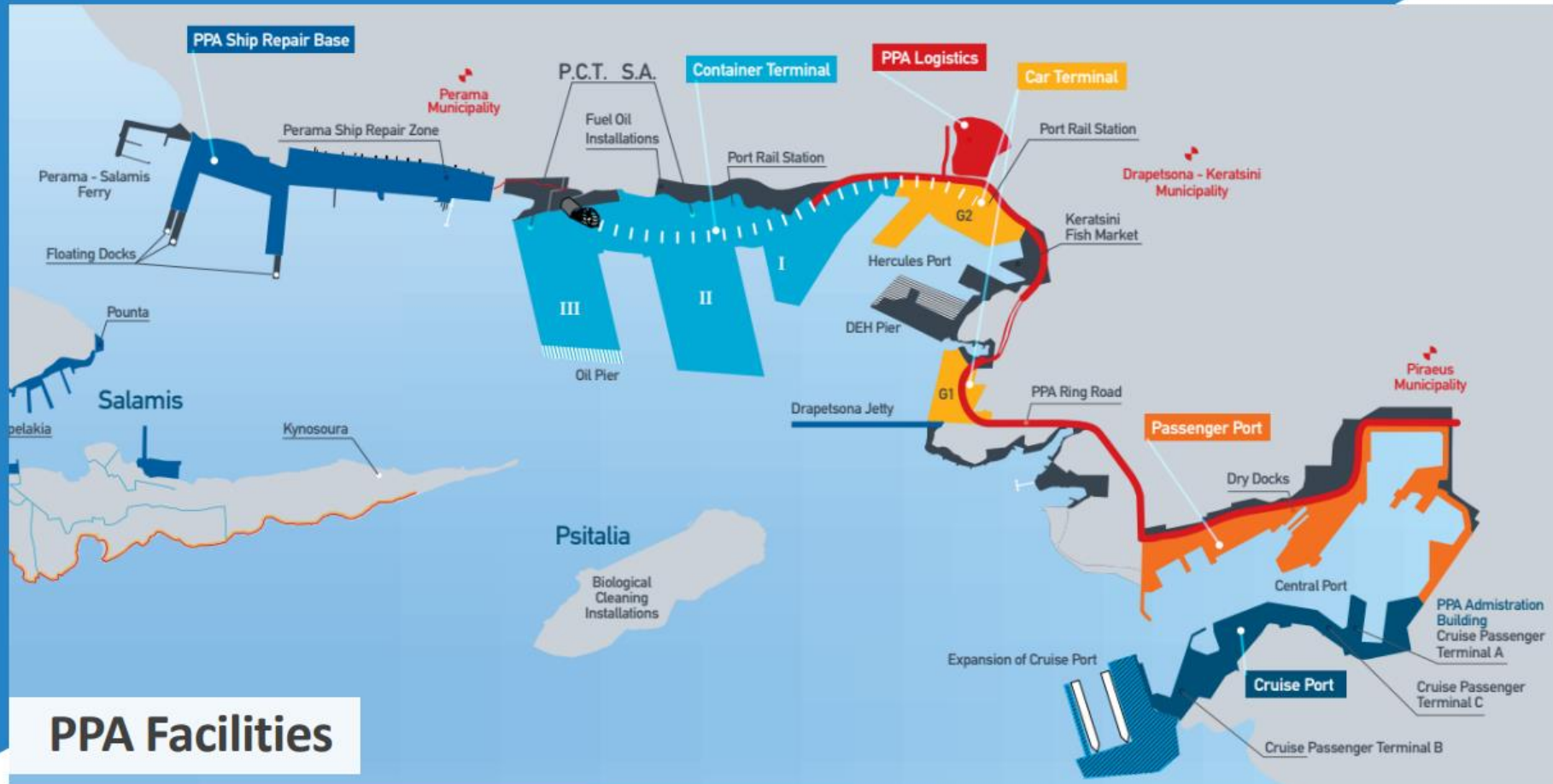
# Piraeus Port Overview

# Piraeus Port Overview

Indicatively Piraeus Port is:

- The largest passenger port in Europe
- In the top 5 largest container ports in Europe
- A cross-road of goods and passenger traffic
- A robust infrastructure capable of serving the largest container carriers
- The center of the Mediterranean cruise experience





# PPA Facilities

# Port Digitalization and Challenges

FOR  
→ P R Y  
WITH PROJECTS  
DECISIONS MADE  
+ ISSUES + FLAGS

CLOSURE MEETING  
PMO →

IF THERE IS A FLAG  
ESCALATION  
DEPENDING ON  
THE IMPORT...

Project team PM  
Tools frequent  
process update  
(change) etc

MT MT  
visibility DECISION  
MAKING

Recognition Success

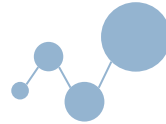
IF NO DECISION ESCALATE  
TO REP

# Benefits of Port Digitalization



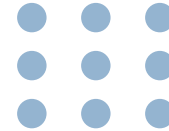
Improved efficiency

**Automate** and streamline operations, reducing the risk of errors and **improving efficiency**



Reduced costs

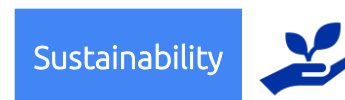
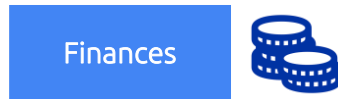
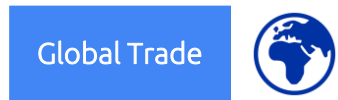
**Eliminating** manual processes. Digital systems can be used to track and **optimize** the use of resources, such as fuel and labor



Enhanced customer experience

Providing **real-time tracking** and **visibility** of shipments and the ability to access information and services **online**

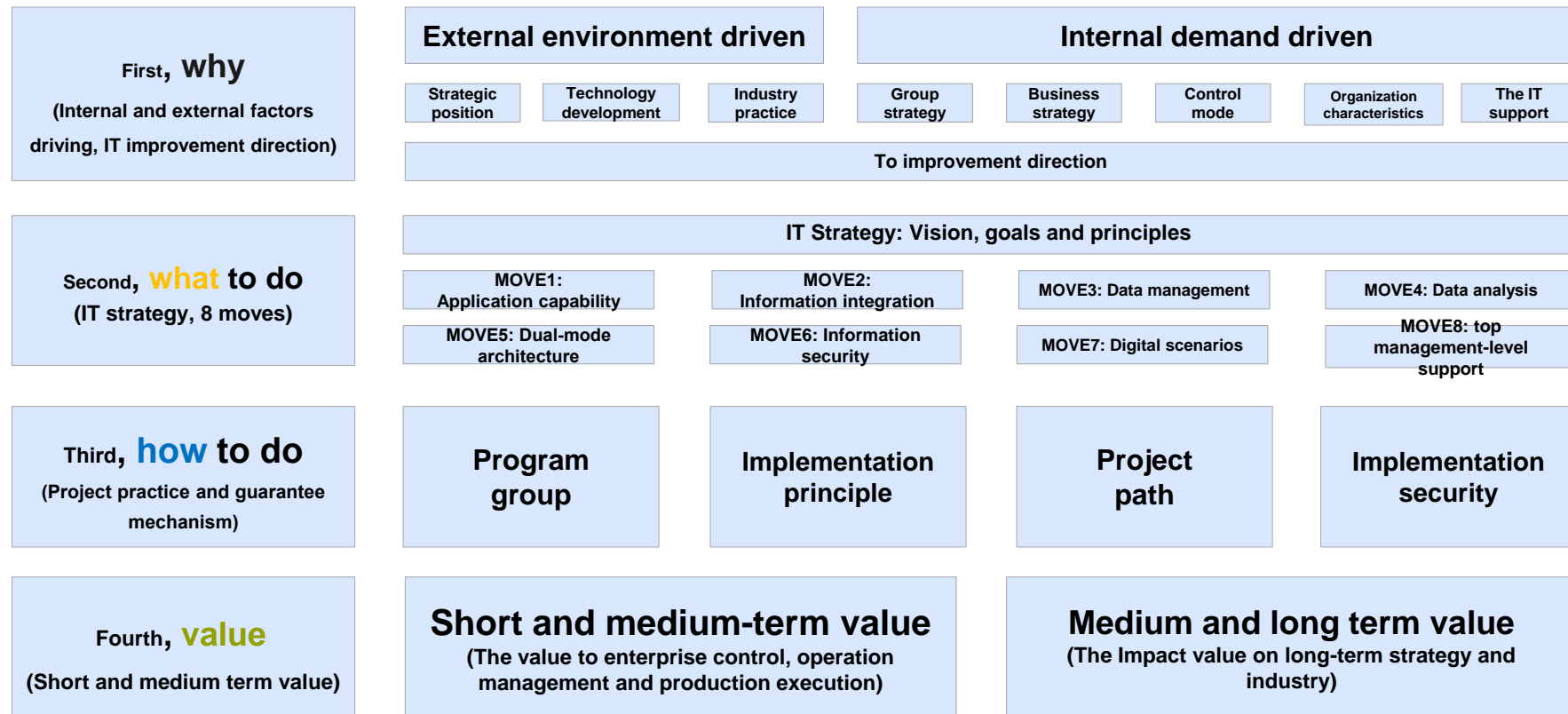
# The 9 Challenges and their Smart Port Solutions



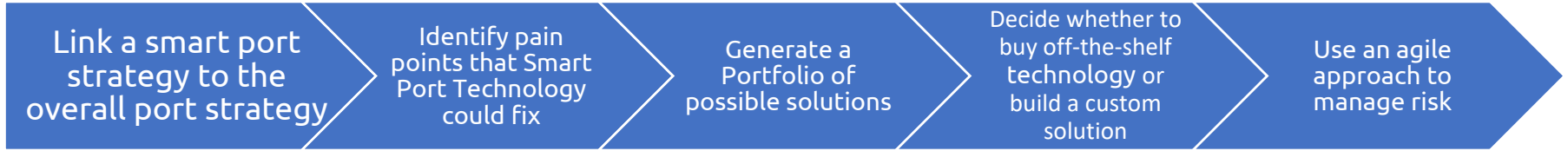


# Disruptive ICT Innovations in Piraeus

# The framework



# HOW TO GET TO THE RIGHT DIGITAL SOLUTIONS FOR YOU



## Digital is strategic

Digital strategy should be intimately linked with the overall port strategy. Digital strategies are created in the **board room**, not the IT department

## No one size fits all

Find the **solutions** that will address the most important **challenges** within your competitive and operating environment

## Portfolio thinking

Don't put all your **digital eggs** in one basket. You will need a portfolio of different solutions to ensure getting **impact**

## Not invented here

Avoid the temptation to build everything from **scratch** when good solutions already exist. **Leverage** the best thinking out there

## Fail fast and pivot

Not every digital **idea** or use case is going to work. With a systematic approach it is possible to avoid **over-investing** in an unviable solution

# 15 projects in 4 major project groups

## A. Intelligent decision support projects

- visualized big data operation and management platform
- Digital Card Project



## B. Smart management projects

- PPA integrated intelligent management platform ERP comprehensive management project
- Lightweight management application project
- Audit management system: including audit operation management
- Contract management system: including contract standardization management



## C. Operation excellence projects

- Container production operation and Auto Gate system
- Digital comprehensive and integrated Business Operation management project
- Intelligent warehousing logistics management service project in the Ro-Ro terminal



## D. Technology Innovation projects

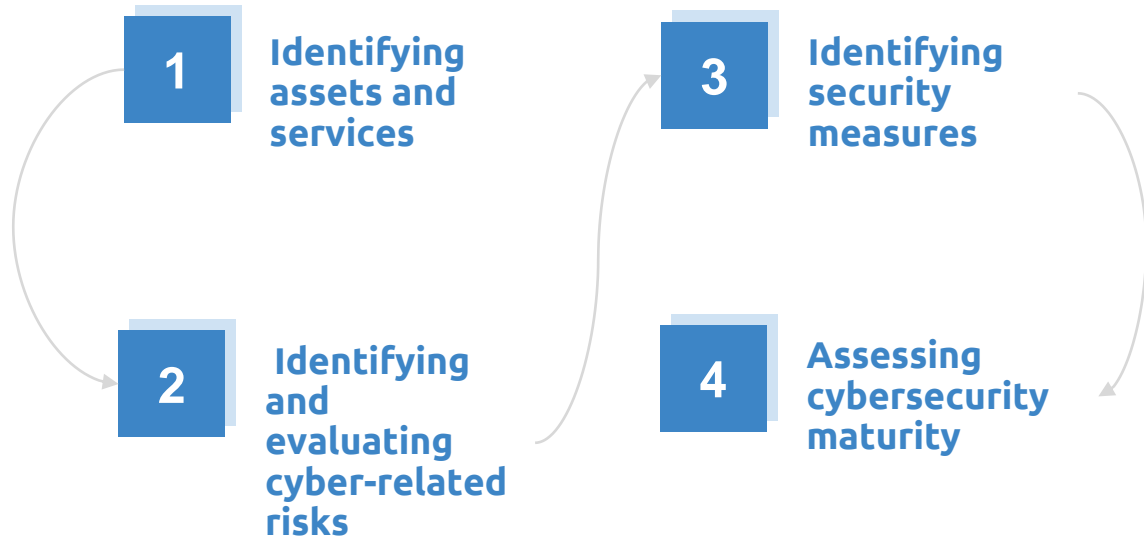
- Quay Crane Remote control
- 5G port scenarios construction project
- PPA One-stop service platform
- Master data management platform
- Cloud office platform
- Information Security Enhancement Project
- IT Infrastructure supporting upgrade project



An aerial photograph of a port and city at dusk. The sky is a deep blue with scattered clouds. In the foreground, a dense urban area with multi-story buildings is visible. The middle ground shows a large port area with numerous colorful shipping containers stacked in neat rows. Several large gantry cranes are positioned along the waterfront. In the background, a body of water is filled with various ships, including cargo vessels and smaller boats. A city skyline is visible on the left side, featuring a prominent red and white striped chimney. The text "Cyber Risk Management" is overlaid in a large, white, sans-serif font across the center of the image.

# Cyber Risk Management

# The process in 4 Steps



**Thank You!**