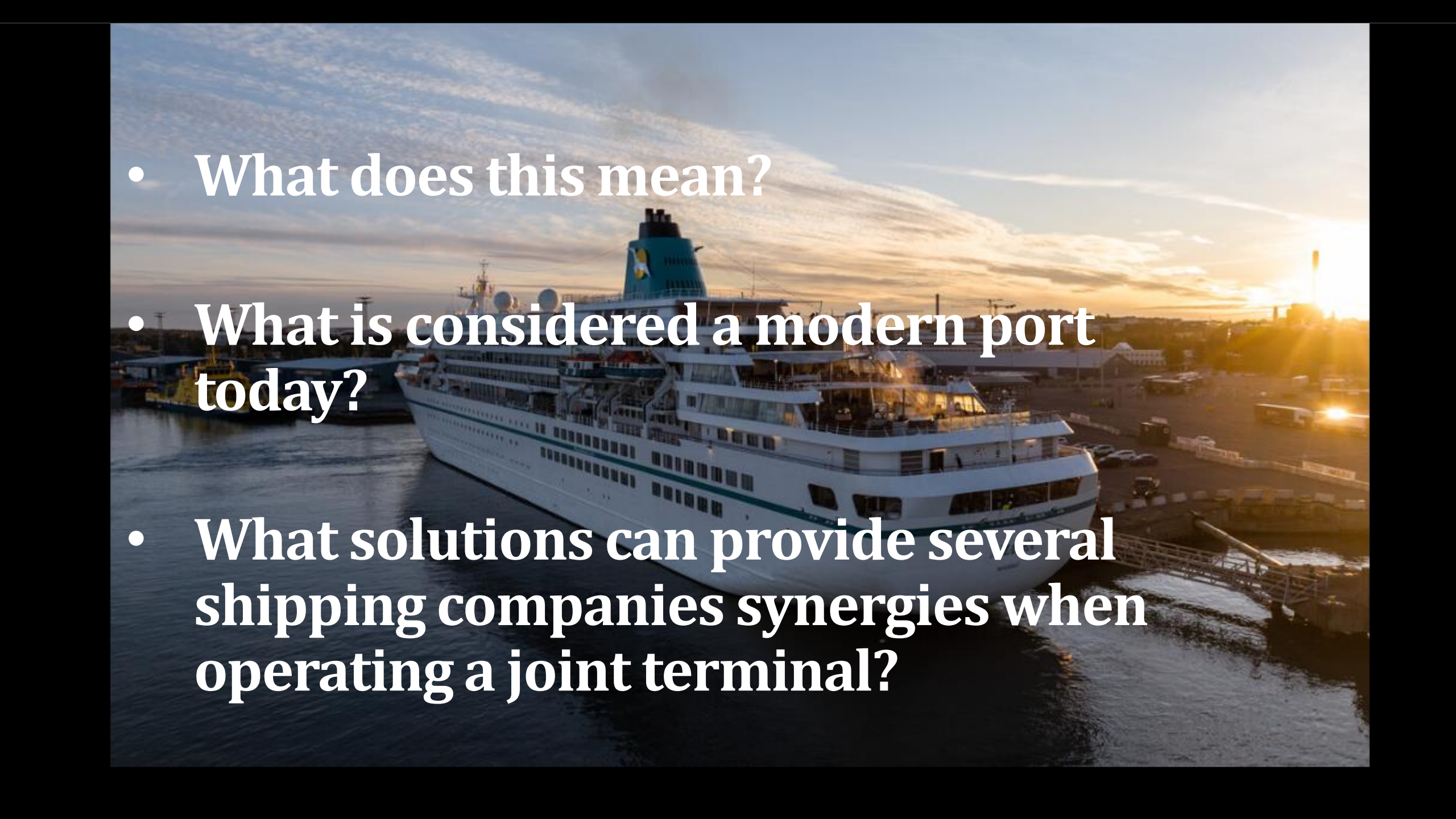




Ferry Terminal Turku, Creating synergies by digitalization and modern port solutions

COO, Deputy CEO Captain Antti Pekanheimo

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- **What does this mean?**
 - **What is considered a modern port today?**
 - **What solutions can provide several shipping companies synergies when operating a joint terminal?**

Challenges:

- Port security is moving more and more towards airport security procedures.
- Strict security controls
- One hour turnaround time at port
- Car passenger identification and scanning of vehicles
- GDPR and legal challenges
- Strong integration to shipping companies booking systems



What are the solutions at Ferry Terminal Turku?



Smart Fairway

Film credits: Petri Koskinen



Smart Fairway

- Remotely adjustable light brightness
 - Alarms when faults in functions are detected
 - Alarms when a buoy gets lost its position
 - Weather conditions
- Allows a quick reactiontime to defaults



A fully automatized port

- Automatized carfield with digital signs and indicators
- Same area operated by several shipping companies at same time
- Automatic gates
- Digital check-in system for vehicles
- Vehicle measurement and Damage control systems



Automooring

- Improves safety and operational efficiency, enables the port to make infrastructure savings.
- Vacuum-based automated mooring technology eliminates the need for conventional mooring lines
- Remote controlled vacuum pads
- Separate mooring units (6) along quay area installed
- Saves in bunker costs with a quicker and more efficient mooring time
- Decreases emissions



Vehicle measurement system

- Vehicle measurement system installed at the port to get exact information of the unit
- The system uses a license plate recognition, a measurement scanner (for length, width and height) and weight-in-a-motion scale to measure weight
- Fully integrated to Shipping Companies booking systems
- Cameras used for damage control
- The project includes ground works, cabling, portal for imaging and measuring devices, cameras, laser scanners, truck scale, server room and software



Optimizing a new joint passenger terminal for today's requirements

- X-ray machines will be installed
- With an one hour turnaround time, the efficiency of the loading and unloading of the passengers is crucial
- No congestions can take place
- Security check has to be fast (e.g. Helsinki Airport)
- Quick automatic check-in procedure
- Efficient working areas for authorities





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Thank You!

COO Antti Pekanheimo

Port of Turku Ltd

antti.pekanheimo@portofturku.fi