



# JUST-IN-TIME FOR A BETTER FUTURE





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SENIOR NAUTICAL SUPERINTENDENT  
CARNIVAL MARITIME



CARNIVAL  
MARITIME

## ONE SHIP

➤ 4 440 PEOPLE IN

➤ 4 440 PEOPLE OUT

➤ HUNDREDS OF CARS, BUSES, TRAINS, FLIGHTS

# TIMING IS EVERYTHING.



12-HOUR DELAY

- INTERRUPTIONS TO PASSENGER FLOW
- DISRUPTIONS TO SUPPLY LOGISTICS
- UNWANTED FUEL CONSUMPTION AND EMISSIONS

1.5 M€ LOSSES





COMMUNICATION TODAY

# MANUAL POINT-TO-POINT INEFFICIENT

DESIRED SET-UP

# ECDIS-INTEGRATED CENTRALIZED EFFICIENT





REDUCED FUEL  
CONSUMPTION

BETTER LOGISTICS  
PLANNING

REDUCED  
EMISSIONS

LESS  
CONGESTION



# GERALD HIRT

MANAGING DIRECTOR

HVCC HAMBURG VESSEL COORDINATION CENTER



## ONE PORT

- 8 000 VESSELS
- 9 000 BARGES
- 60 000 TRAINS
- 1 900 000 TRUCKS

# TIMING IS EVERYTHING.





INCREASING TRAFFIC AND PEAKS

# CHALLENGES FOR PORTS GLOBALLY

## FRONTRUNNERS IN PORT COLLABORATION

- 4 100 FEEDER / BARGE TERMINAL CALLS OPERATED
- 3 200 CALLS OF LARGE VESSELS COORDINATED
- 3 800 PASSAGE PLANS DISTRIBUTED

# BUT WE CAN STILL DO BETTER





WÄRTSILÄ

HVCC

CARNIVAL  
MARITIME

BUREAU  
VERITAS

- SEAMLESS COMMUNICATION BETWEEN SHORE AND SHIP
- 100% DATA ACCURACY
- TRUE JIT-ARRIVAL

# DIRECT LINK TO NAVIGATION SYSTEM

HIGHER VISIBILITY OF  
INCOMING TRAFFIC

OPTIMIZED TERMINAL  
RESOURCE PLANNING



EFFICIENT USE OF PORT  
INFRASTRUCTURE

REDUCTION OF  
EMISSIONS



# MATTEO NATALI

GENERAL MANAGER, PORT BUSINESS DEVELOPMENT  
WÄRTSILÄ



WÄRTSILÄ





WÄRTSILÄ

HVCC

CARNIVAL  
MARITIME

BUREAU  
VERITAS

ONE ECOSYSTEM

➤ 100 000 VESSELS

➤ 3 000 PORTS

➤ 30 BILLION EUR WASTED EVERY YEAR

**TIMING IS EVERYTHING.**

ONE SOLUTION FOR FLEET OPERATIONS

- ONBOARD NAVIGATION SYSTEM
- FLEET OPERATIONS CENTER
- VESSEL TRAFFIC SOLUTION
- SIMULATORS

# WÄRTSILÄ FOS

## FLEET OPERATIONS SOLUTION

WÄRTSILÄ

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CARNIVAL  
MARITIME

BUREAU  
VERITAS





AIDAPERLA



AIDASOL



ETA

RTA  
Optimized route

ETA

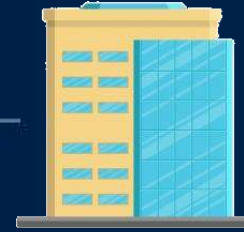
Wärtsilä FOS



Wärtsilä  
Navi-Port

ETA

RTA



CARNIVAL FLEET  
OPERATION CENTRE



HVCC



# NAJMEH MASOUDI-DIONNE

TECHNOLOGY LEADER, SMART SHIPS

BUREAU VERITAS MARINE AND OFFSHORE



BUREAU  
VERITAS



## NAVI-PORT

- EFFICIENT
- SUSTAINABLE
- EASY TO INSTALL

# CYBERSECURE

BUREAU VERITAS ASSESSMENT ON CYBERSECURITY

# APPROVAL IN PRINCIPLE BASED ON BV NR 659





**JOIN US!**

**YOU ARE JUST-IN-TIME FOR A BETTER FUTURE**

[WWW.WARTSILA.COM/NAVI-PORT](http://WWW.WARTSILA.COM/NAVI-PORT)