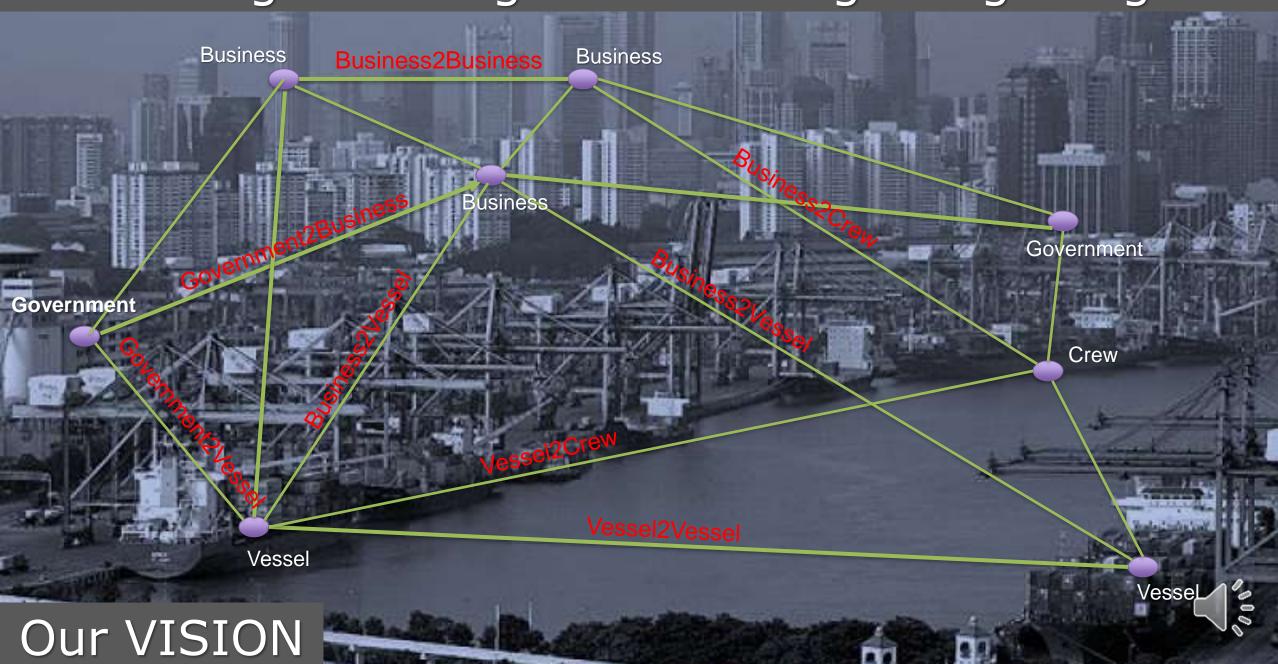


Specialized in Information Systems for Shipping

## Connecting-Servicing-Collaborating-Integrating





650+

years

customers

vessels

employees

























#### 2015/Dec

Lloyd's List Greek Shipping Awards: Award for Big Data

www.greekshippingawards.com

#### 2012/Apr

Edelman: Finalist for the highest award in Operation Research

www.observatory.gr/files/meletes/TPE\_B2\_MeletesPeriptwshs.pdf

#### 2011/Mar

1st place in Panhellenic competition in information applied research. Title: Emulation in Intelligent Management Systems www.kainotomeis.gr

#### 2010/Jun

Selected by European Business Awards as country representative rewarding business success and innovation www.businessawardseurope.com

#### 2007/Mar

The only Greek company named as an EU-ICT prize nominee for innovation in applied information research

www.euro-case.org/publications/2007EISTP\_book.pdf

#### 2006/Jun

Award by IRIS for "initiative in regional innovation & strategies"

http://www.iris-europe.eu/spip.php?article3667

### DANAOS WEB ENTERPRISE SUITE

DANAOS Financial Suite DANAOS Commercial Suite DANAOS Ship Mgt. Suite



#### DANAOS WEB ENTERPRISE SUITE





#### DanaosONE Platform

web & mobile services

#### ONBOARD SHIP MANAGEMENT

- 1. Planned Maintenance System
- 2. Supplies System (Procurement)
- 3. Crew Management & MGA
- 4. Vessel Operations
- 5. ISM & Document Management
- 6. Risk Assessment
- 7. Vessel Performance/Efficiency

#### VESSEL



### **WAVES**Big Data Analytics

#### FINANCIAL SUITE

- 1. Marine Accounting + MIS
- 2. Budgeting
- 3. Exchange Rates
- 4. Fixed Assets
- 5. Marine Claims Manager
- Financial Documents Controller

#### COMMERCIAL SUITE

- 1. Voyage Estimation
- 2. Port Expenses/DAs
- Bunkering
- 4. Freight & Hire
- 5. Laytime/Demurrage
- 6. Emissions Calculator
- 7. Vessel Scheduling
- 8. Bunkers Trading Dashboard

#### SHIP MANAGEMENT SUITE

- 1. Planned Maintenance System (PMS)
- Supplies System (Procurement)
- 3. Crew Management Payroll & MGA
- Vessel Operations
- 5. ISM + Documents Management
- 6. Dry Docking
- 7. Risk Assessment
- 8. Vessel Performance/Efficiency
- 9. Oil Record Book
- 10. TMSA
- 11. KPIs

#### COMMUNICATION - CASE MGT.

1. Info@GATE

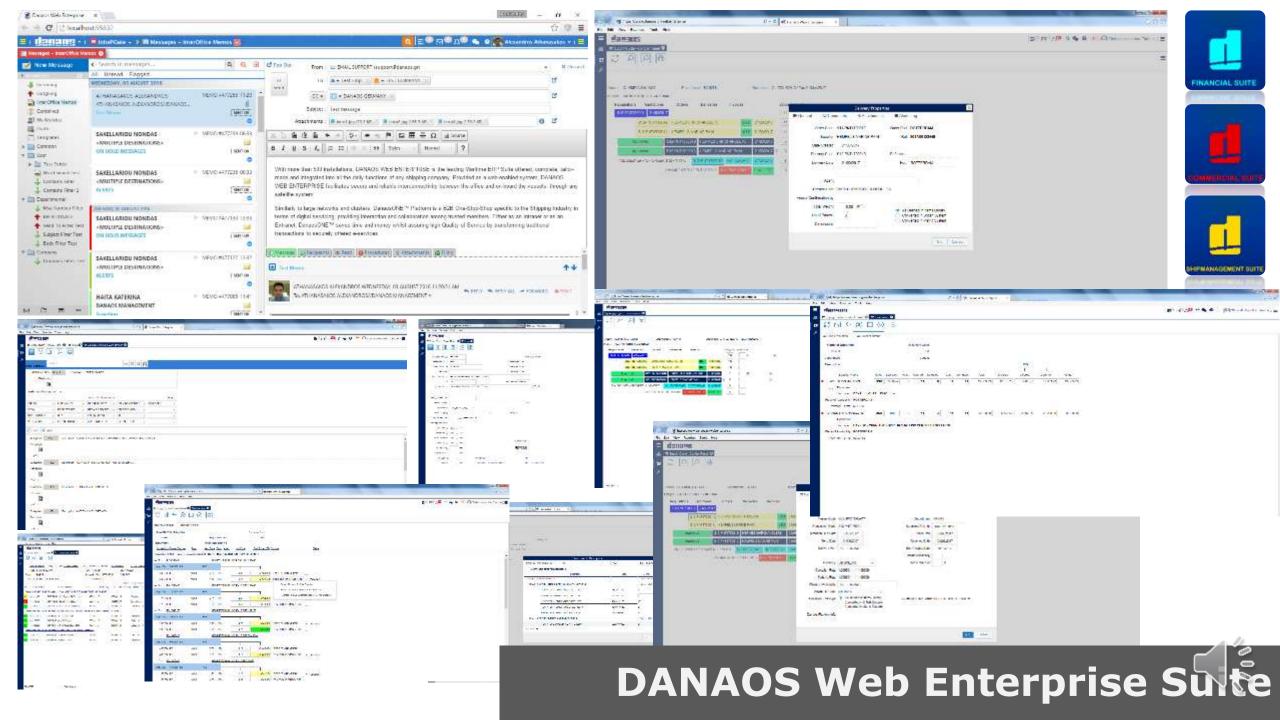
#### TRACKING & ROUTING & EFFICIENCY

1. SEAROUTES









### Reduce Expenses – Increase Productivity

















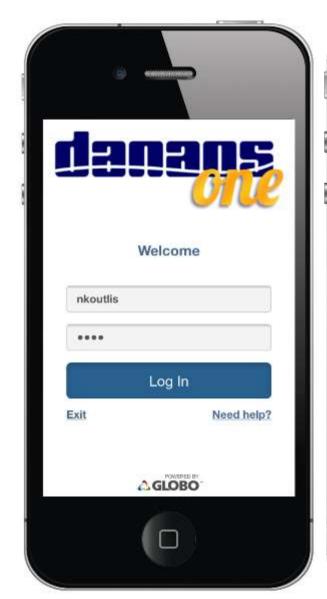




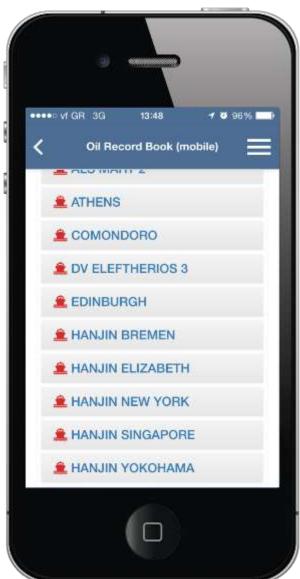


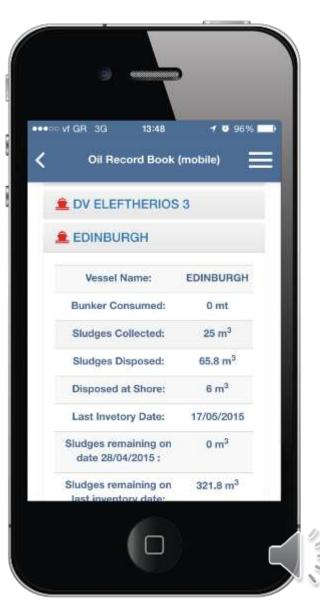


### **DANAOS** Mobile applications











"Over the years, DANAOS software has been an invaluable tool for the full spectrum of our everyday operations, bringing the necessary insights and assisting us in the decision-making process. DANAOS is our trusted partner towards our digital transformation journey"

Mr. Stefanos Koropoulis ASTRA SHIPMANAGEMENT INC

www.danaos.gr



Utilizing the latest technology!

#### FOR MORE INFORMATION

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Web: www.danaos.gr

Address: 14 Akti Kondyli Street,

18545 Piraeus GREECE

#### Our Digital wall:





























# DANAOS UX DESIGN PRINCIPLES LEADING CHANGE IN THE WEB 3.0 ERA

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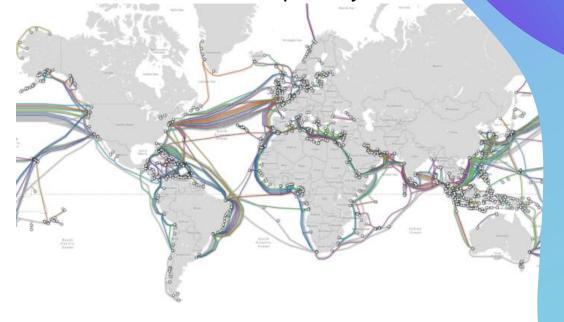




### Introduction

The Danaos I.T. Group is perhaps the largest software provider for the global maritime industry, serving more than 650 shipping companies world-wide for the past 36 years. Perhaps more than 20,000+ office users and crews onboard 7,000+ vessels use the Danaos software in their daily activities. In order to reach and maintain its dominant position in the global market, Danaos had to adopt and embed core usability concepts in the software modules, especially in the latest version.





1985 COBOL - TEXT DISPLAY

1995 WINDOWS POWERBUILDER

2005 DANAOS FRAMEWORK

2015 WEB 2.0 APPLICATIONS

### **DESIGNED** FOR THE MODERN WEB

#### SINGLE PAGE APP

Web Interface inherited from a desktop experience



#### **Modular architecture:**

Based on Danaos Framework, many application developers can add new modules to the system



#### Micro services architecture

Companies can target decentralized e-services through DanaosONE professional maritime e-services network



#### **DECANTRELISED WEB:**

Danaos Web Enterprise Is installed in more than 200 locations worldwide









#### On line - off line

Danaos Web **Enterprise** Runs on board vessels And synchronizes database changes when online





## **Critical Considerations**

Danaos Desktop Edition' runs under Windows desktop operating systems with a legacy interface



Danaos has a User's meeting every two years where customers add usability elements

30 years of design improvements have created a cluttered interface, since most of our users, who are industry specialist, want to have "everything in one screen"

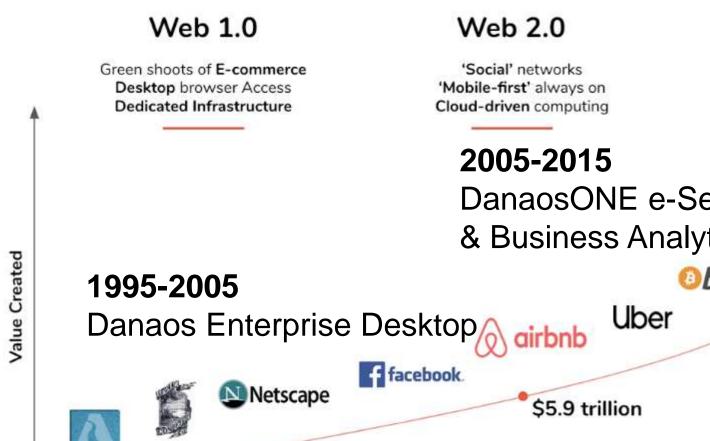
At the same time **computer users are used to a modern web experience when at home**, learning to use modern web apps like facebook, google, amazon, all of them having their own design principles and UI guidelines

More than 75% of today's professional computer usage is through browsers with the rest going through mobile device browser and native apps.

### The Evolution of the Web

\$1.1 trillion\*





Web 3.0

Al-driven services Decentralised data architecture Edge computing infrastructure

DanaosONE e-Services

& Business Analytics

Obitcoin

2015-2025

Danaos Web Enterprise Al – Decentralized Web Sensors & Edge

MAKER

1990

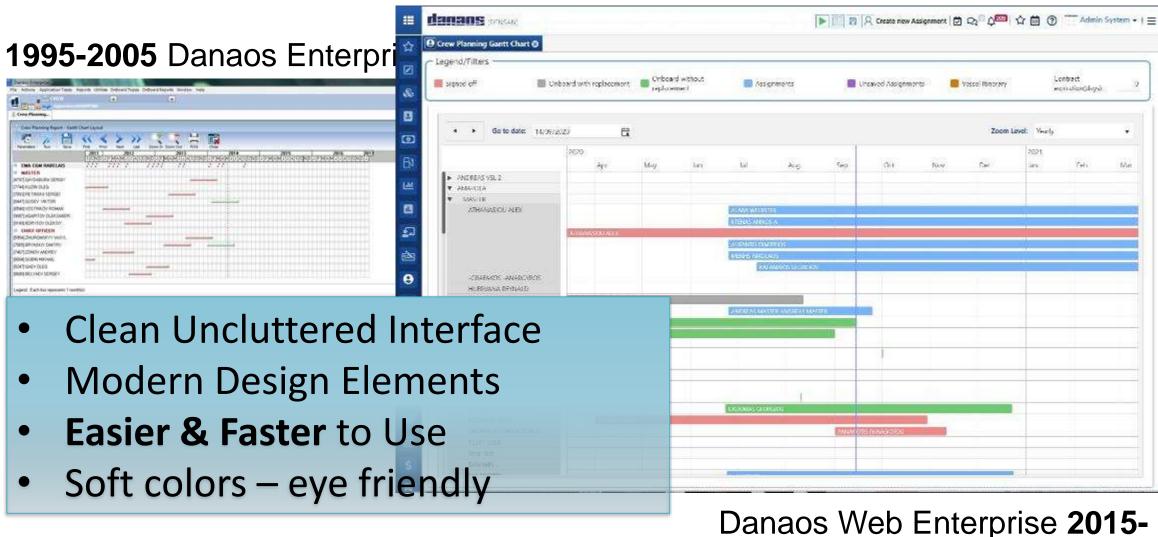




- Danaos had to consider that in the Web 3.0 era, we don't actually know the device that is
  used to work with a business application. Different screen sizes, mobile devices, even a large
  TV or projector can be used and all design elements must be resizable and adjustable
- For special cases like mobile messaging, special hybrid applications are build to support
  mobile devices. These applications can adjust the screen elements to fit a mobile horizontal or
  vertical screen or a tabled 3:4 screen or even run on an isolated desktop (on board of a vessel
  without internet connection)

#### **COMPARING UI ELEMENTS**

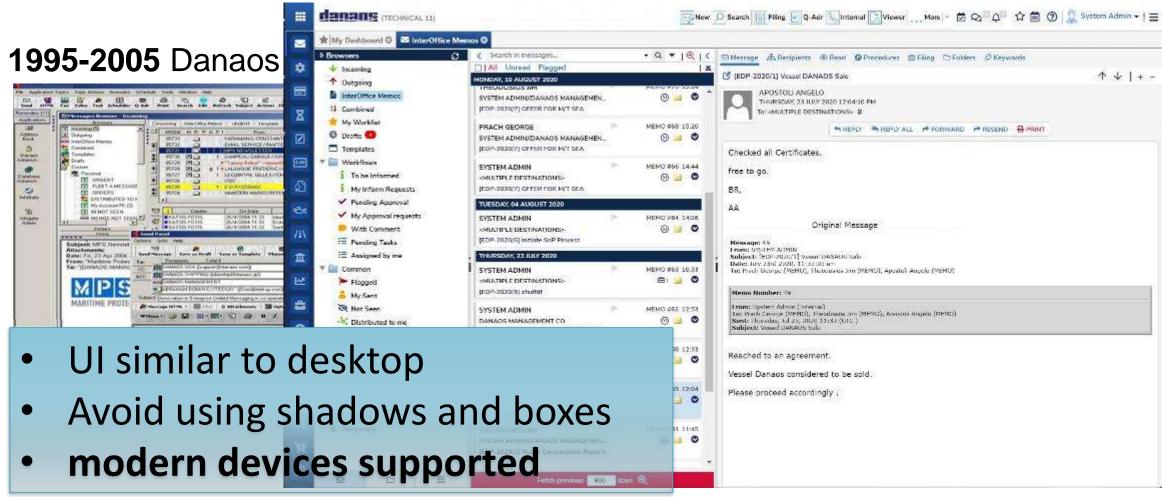




2025



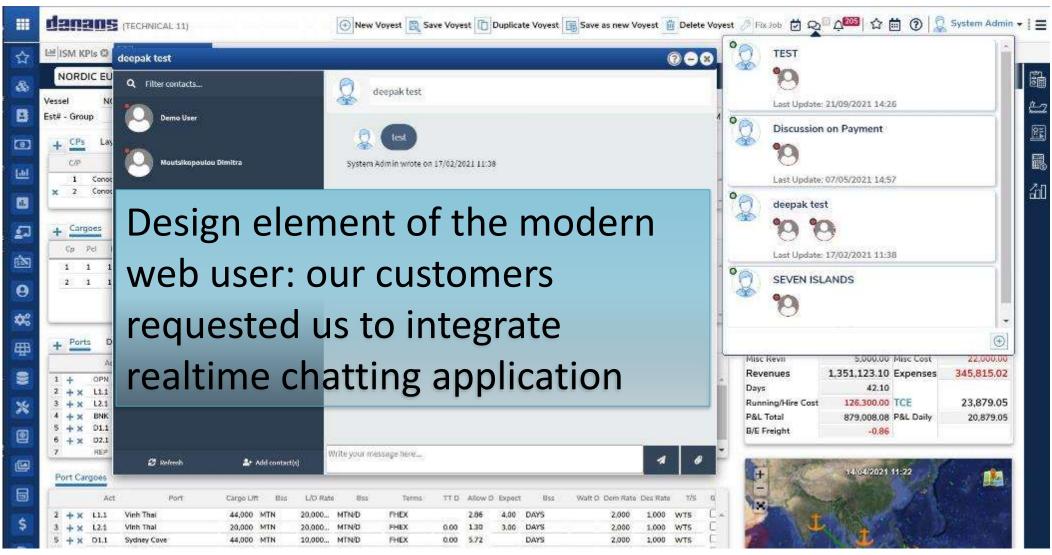




Danaos Web Enterprise 2015-

### **COMPARING UI ELEMENTS 3-chatting**





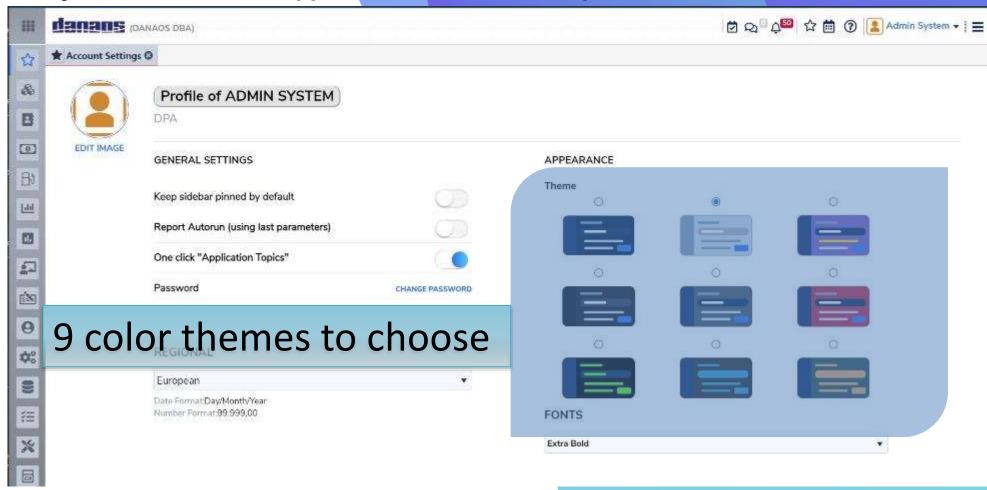


### Personalization



User can choose his own preferences

Every user has it's own applications, menu items, permissions, tasks and







# Design phase



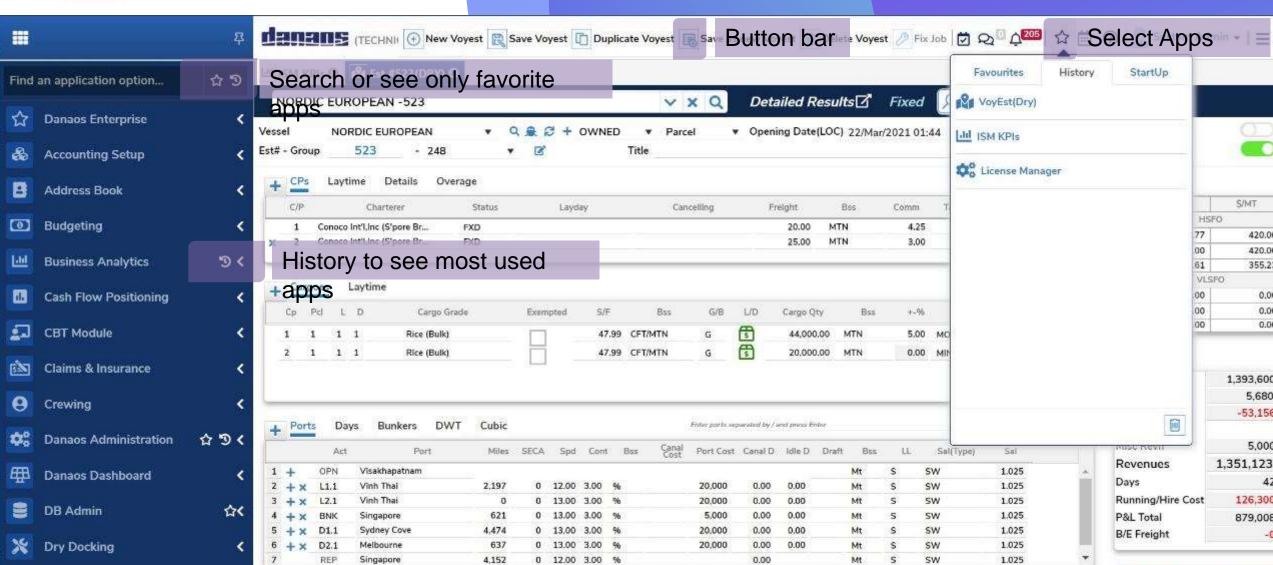
During the design phase, Danaos run customer workshops and focus groups with key users, to get their feedback and guidance on the look-and-feel of the new software facilities. This guidance proved very valuable and greatly assisted the development teams.

As a result of the customer's guidance, the new Web Enterprise version has adopted a minimal User Interface where only the information necessary for the next actions is presented to the user, in an aesthetically pleasant and "relaxing" screen layout.



# Menu Search & History

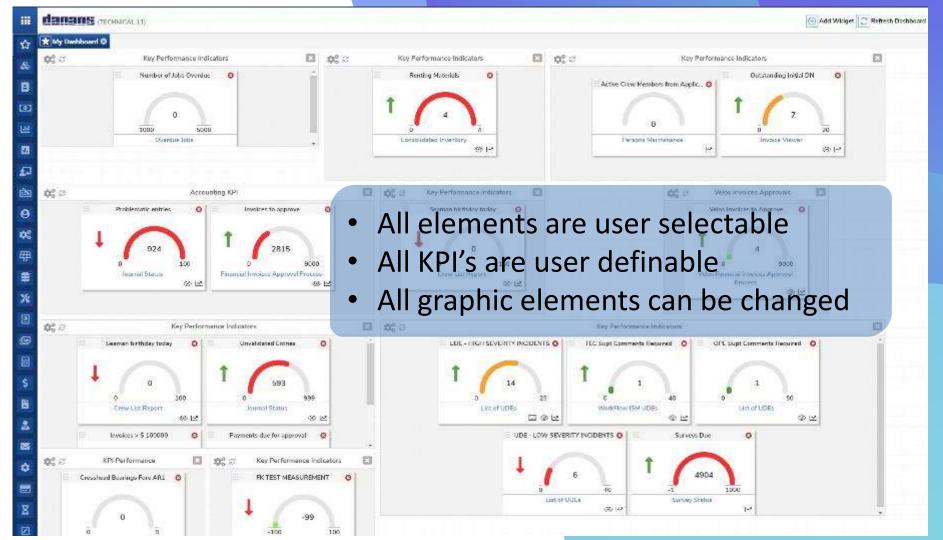








A fully customizable dashboard to start your work day

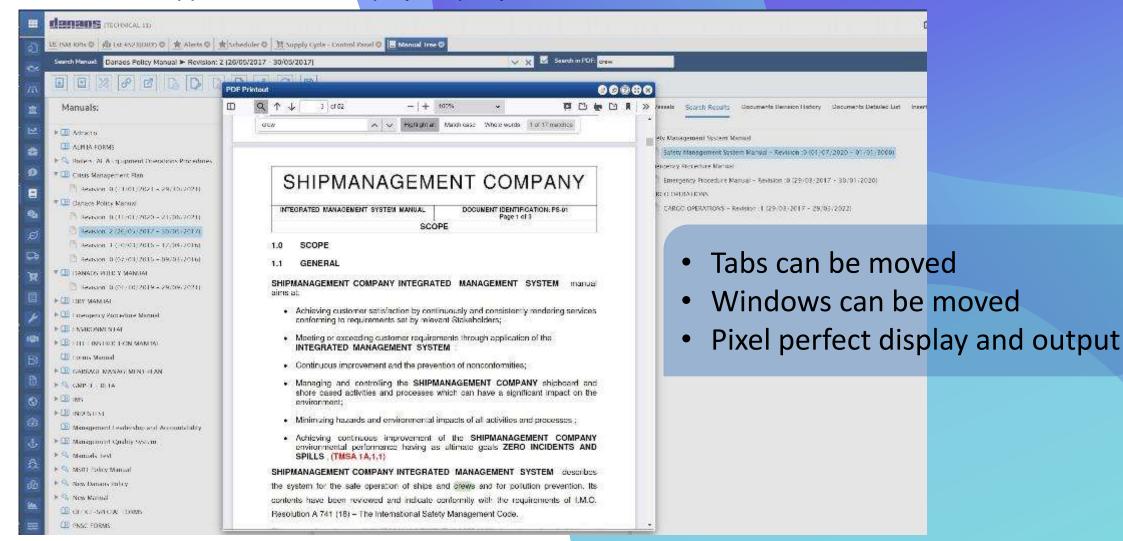




### 24 ISM and manual creation



Modern Web Applications can display 3rd party documents like PDF







Al throughout the entire range

CyberSecurity FullStack

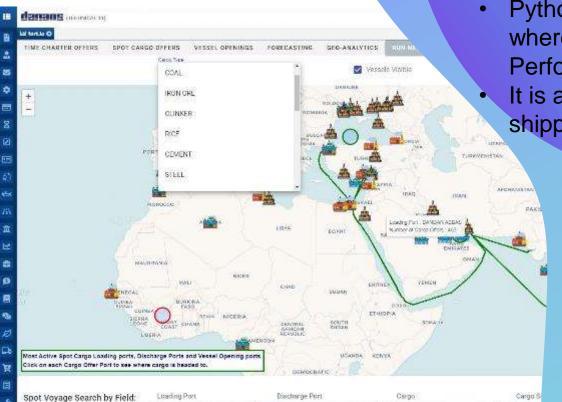
Onboard Info@GATE Online/Offline

Decarbonization – GreenSea™





# **Artificial Intelligence**



Underlying microservices & modular architecture

 Python used throughout the entire range of applications wherever possible, starting with WAVES Intelligent Performance Monitor to Info@GATE Intelligent messaging

It is a challenge to find meaningful AI applications in shipping and apply user interfaces that make sense

Al throughout the entire range

CyberSecurity FullStack

Onboard Info@GATE Online/Offline

Decarbonization – GreenSea™





# **Cyber Security**



- Security incidents are common these days with Shipping no exception
- Hackers target the public web and every server is hit 5-10 minutes after becoming alive
- There is an issue with API's that are exposed as well as several router and server ports that are known to be vulnerable
- Danaos Web Enterprise get's regularly penetration tested
- We use all modern security best practices and Google Authenticator is used in public login pages
- All pages with any kind of forms are validated for SQL injection and other practices

Al throughout the entire range

CyberSecurity FullStack

Onboard Info@GATE Online/Offline

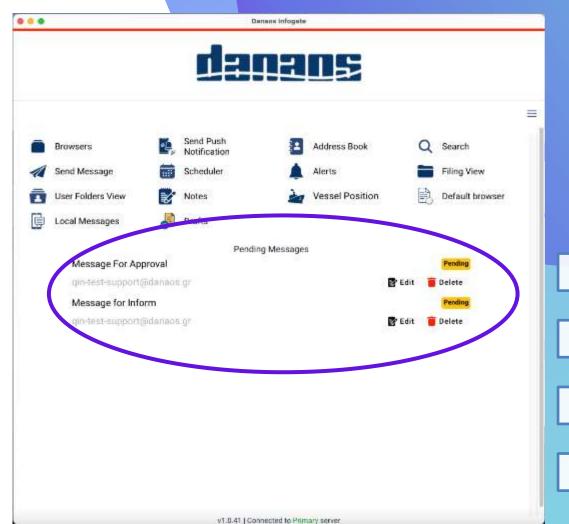
Decarbonization – GreenSea™





# Challenges 2022

- New Onboard application → internet connection is not assured at all times
- UI for tablets/phones or disconnected PC's
- Integrate a lightweight database to follow enterprise business processes like approvals



Al throughout the entire range

CyberSecurity FullStack

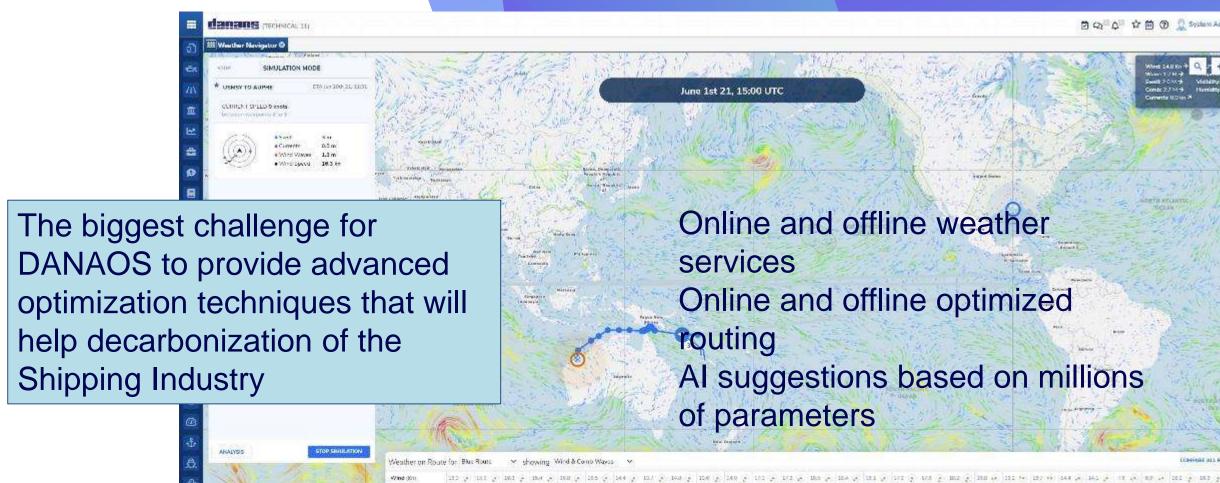
Onboard Info@GATE Online/Offline

Decarbonization – GreenSea™





## GreenSea<sup>™</sup> Decarbonization

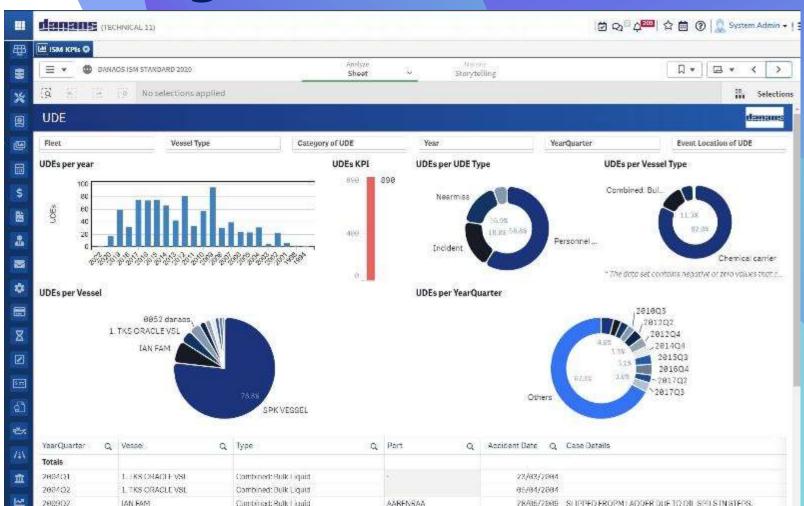




# 3<sup>rd</sup> party UI integrations

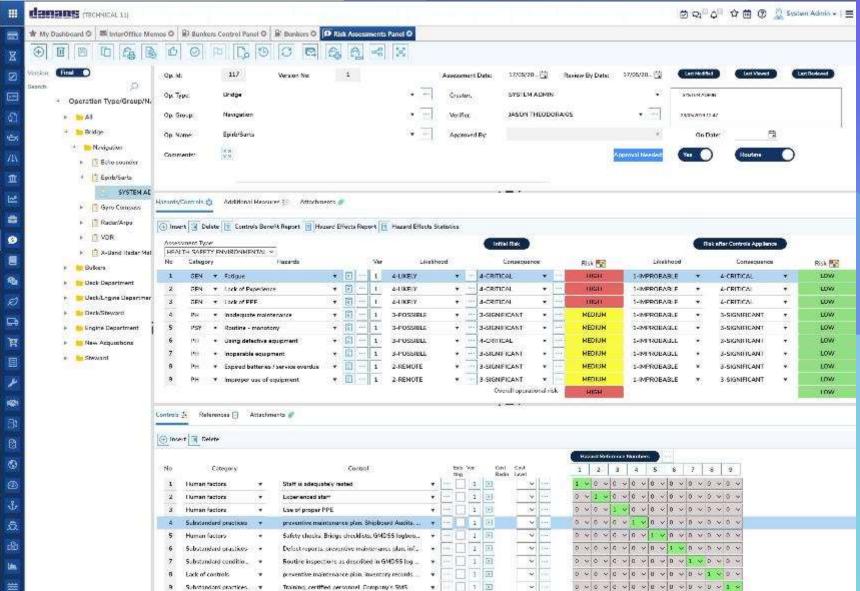
- Danaos has

   partnered with
   QLIK™ a worldwide
   leader in the field of
   Al business
   analytics
- Qlik Leonardo UI
   beautifully integrates
   with DANAOS



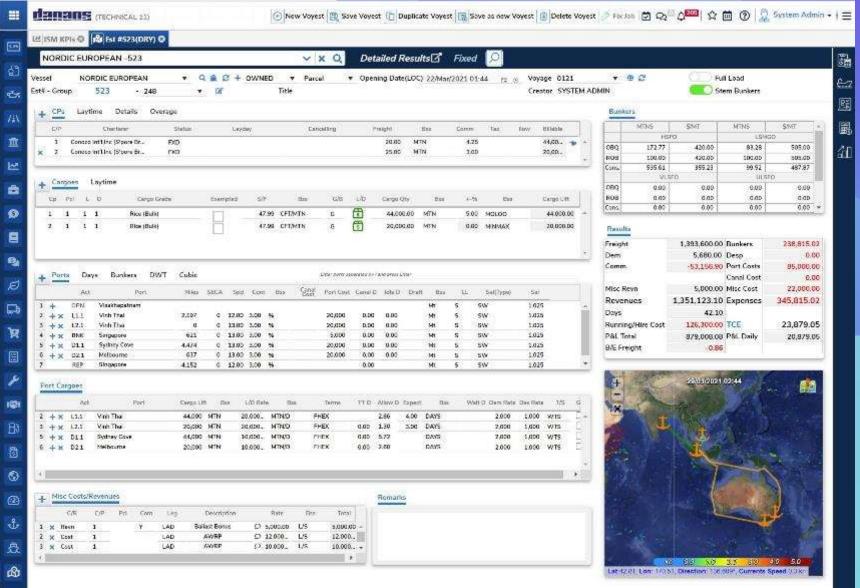
### Ul example : Risk Assesment





### **Ul example 2 : Operations Management**









# Thank you for watching the world's most advanced shipping software

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