Facilitating Digital Transformation in Maritime Operations

Piros.

Reference Case DEME Dredging

- *Modernizing IT Infrastructure for Operational Excellence.*
- *Collaborative IT Modernization for Enhanced Efficiency*
- *Transforming Challenges into Triumphs*

Impact & Outcomes

Transforming Challenges into Triumphs

- **Future Opportunities**
  - Standardization
  - Automation
  - AI integration



Red Hat One
One experience. One team. One purpose.

Red Hat

Content

Engagement Background

Customer, Challenge & Key Challenges

Engagement Background

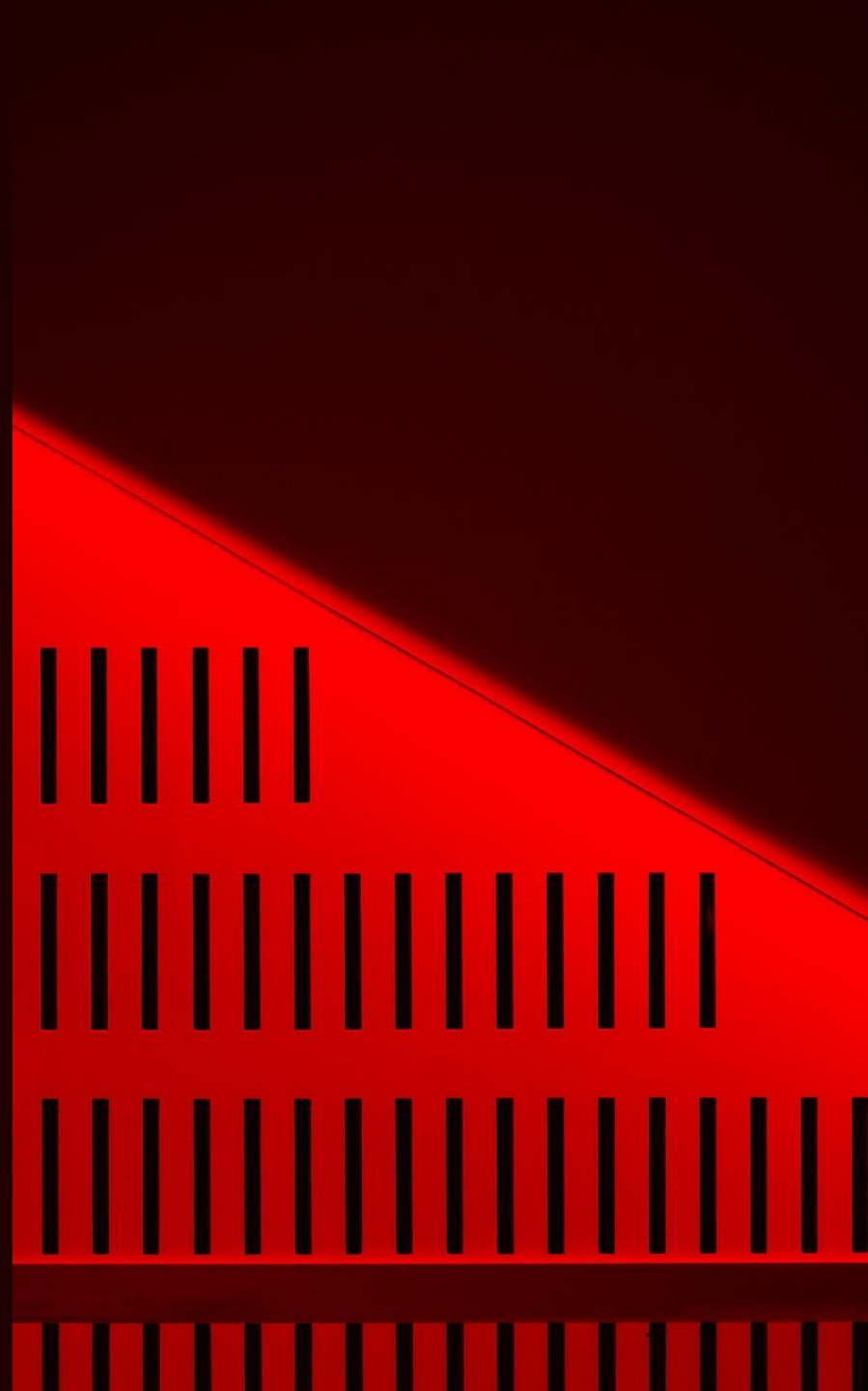
Solution & Partnership Connection

Engagement Background

Complexity of Legacy, Limited Scalability & Data Silos

Engagement Background

Predictive Maintenance Needs & Security Risks



Content

Approach & Implementation

Platform Deployment & Application Integration

Approach & Implementation

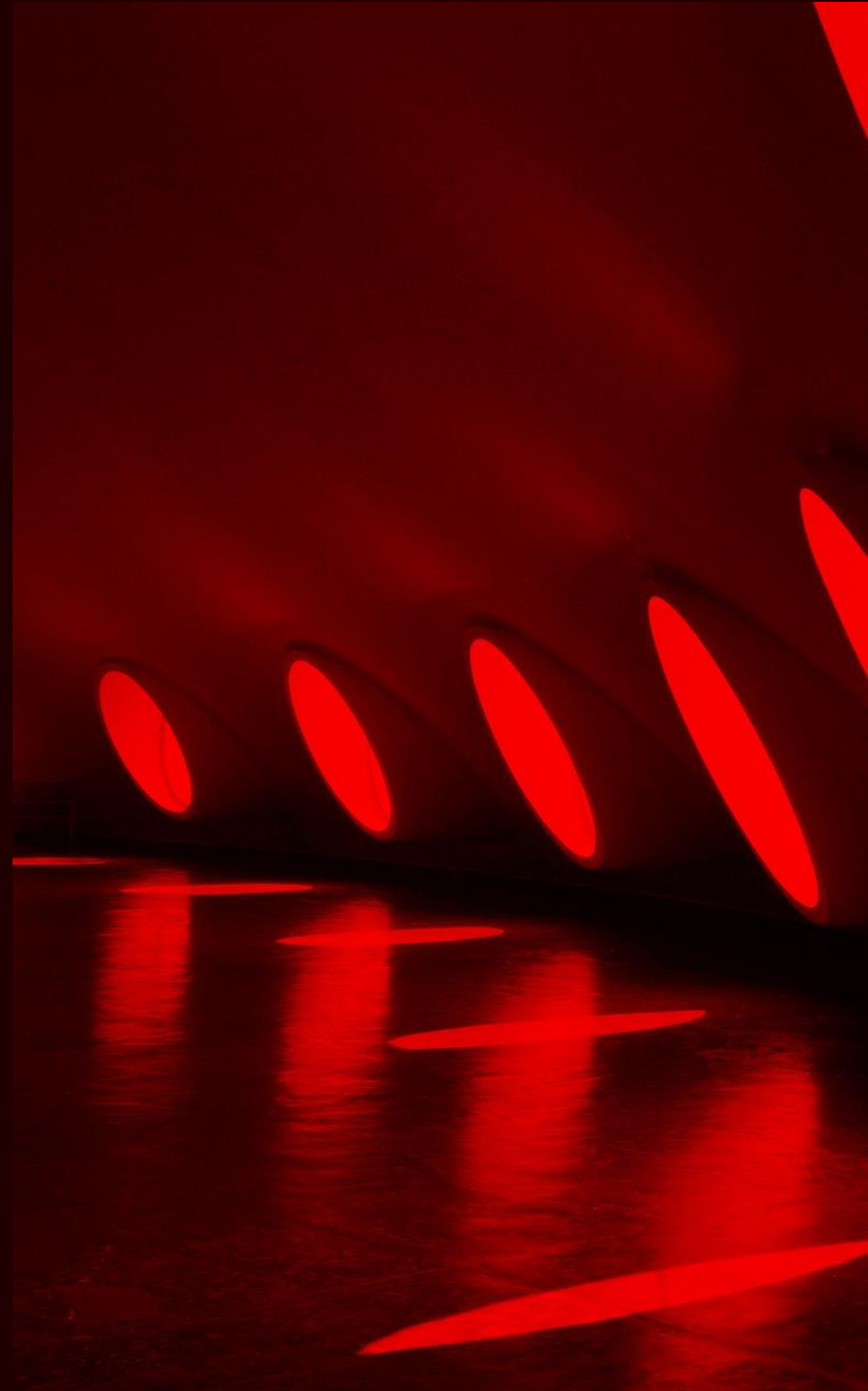
Security & Compliance

Approach & Implementation

Change Management, Collaboration & Iteration

Approach & Implementation

Implementation & Training



Content

Impact & Outcomes

Operational & Financial Benefits

Impact & Outcomes

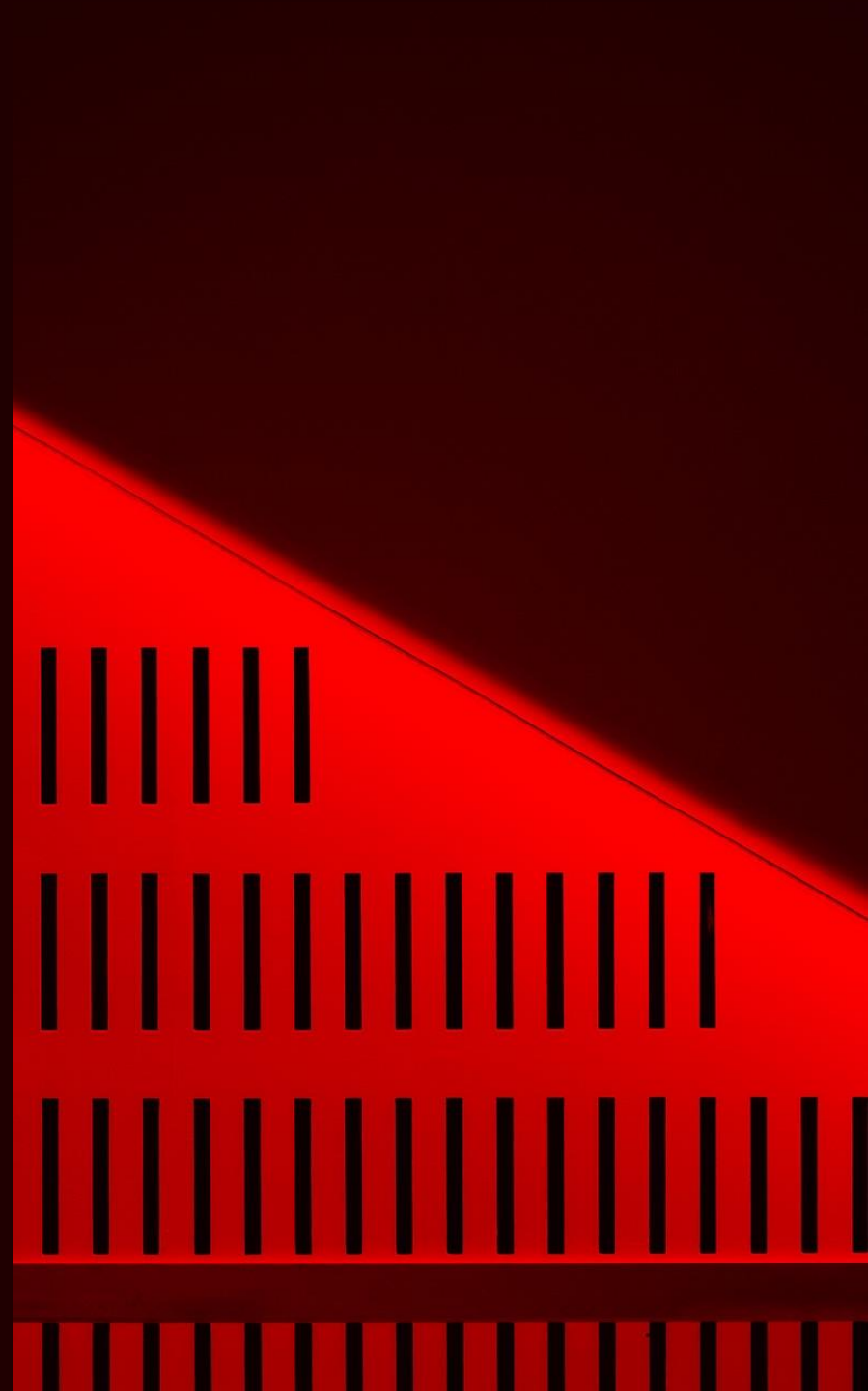
Security & Compliance, Additional Challenges Solved

Impact & Outcomes

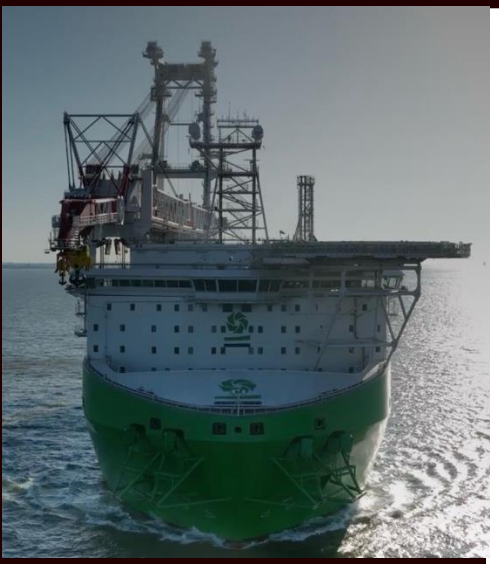
Evolved Roadmap

Impact & Outcomes

Future Opportunities



Engagement Background



Modernizing IT Infrastructure for Operational Excellence

- **Customer**

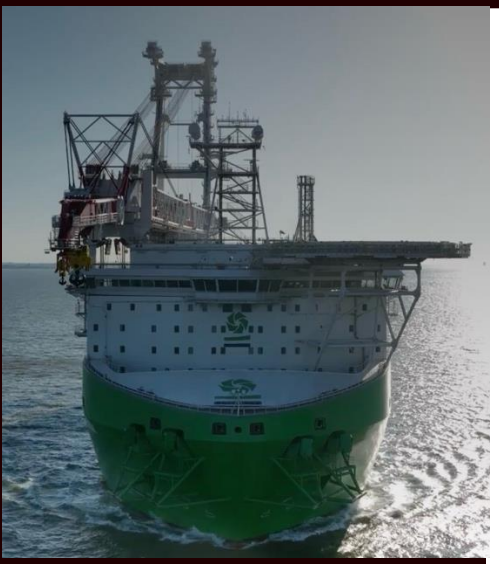
  DEME Dredging – a leading company in dredging and maritime engineering, employing thousands worldwide.

- **Challenge**

  Revamp IT infrastructure to support digital transformation and boost operational efficiency.

- **Key Challenges**
  - Outdated legacy systems lacking scalability
  - Data silos affecting decision-making
  - Need for predictive maintenance and enhanced security

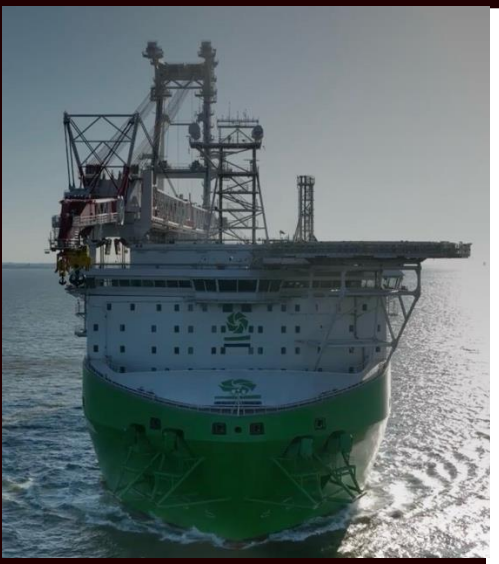
Engagement Background



Modernizing IT Infrastructure for Operational Excellence

- **Solution**
  - Piros deployed Red Hat OpenShift to implement the IBM Maximo Application Suite (MAS)
  - Created a scalable, secure, and future-ready IT framework
- **Partnership Connection**
  - DEME Dredging selected Piros for its expertise in IT modernization and hybrid cloud and containerization.
  - The partnership is built on a shared commitment to IT innovation and operational excellence to tailor DEME’s digital transformation

Engagement Background



Modernizing IT Infrastructure for Operational Excellence

- **Complexity of Legacy Systems**

  Maintaining disparate systems with limited interoperability.

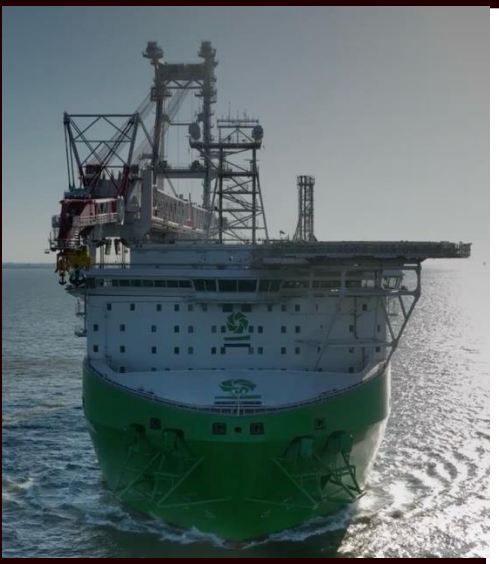
- **Limited Scalability**

  The existing infrastructure was not designed to meet growing operational demands.

- **Data Silos**

  Fragmented data across multiple systems and departments, leading to inefficiencies in decision-making.

Engagement Background



Modernizing IT Infrastructure for Operational Excellence

- **Predictive Maintenance Needs**

  Critical for reducing downtime and optimizing asset utilization.

- **Security Risks**

  The need to comply with increasingly stringent regulations and cybersecurity requirements.

Collaborative IT Modernization for Enhanced Efficiency

- **Platform Deployment**
  - Seamless installation of IBM Maximo Application Suite (MAS) and integration with existing systems
  - Deployment of Red Hat OpenShift for container management
- **Application Integration**
  - Integration of multiple applications through an API-driven architecture
  - Synchronization of existing data into a central data hub
- **Security and Compliance**
  - Implementation of advanced security measures
  - Automation of compliance processes using tools like Ansible



Approach & Implementation



Collaborative IT Modernization for Enhanced Efficiency

- **Change Management**
  - Inspirational sessions to engage employees
  - Comprehensive documentation and user manuals
- **Collaboration and Iteration**
  - Iterative collaboration with user feedback.
  - Daily consultations with Red Hat's commercial account managers and solutions architect for validation.
- **Implementation and Training**
  - Hands-On Labs and pilot projects for practical workshops and testing

Approach & Implementation

Impact & Outcomes



Transforming Challenges into Triumphs

- **Operational Benefits**
  - Improved efficiency
  - Faster decision-making
  - Reduced downtime
- **Financial Benefits**
  - Cost savings
  - ROI on technology investments
- **Security and Compliance**
  - Enhanced security

Impact & Outcomes



Transforming Challenges into Triumphs

- **Additional Challenges Solved**
  - Addressed data silos and scalability
- **Evolved Roadmap**
  - Expanded workloads on Red Hat OpenShift
  - Virtualization
- **Future Opportunities**
  - Standardization
  - Automation
  - AI integration

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