



Unifying Excellence in Marine Operations

Combining strengths of the PI System & UOC for compliance

Fredrik Lang – Zamil Marin

Martijn Handels – Helin Data

The AVEVA logo is displayed in a bold, white, sans-serif font. The letters are closely spaced, and the 'V' is stylized with a horizontal bar.



Zamil Marine



Largest offshore fleet in Middle East

- Presently operates a fleet of 65 diversified offshore Support Vessels; expanding to 100 vessels
- Operates and manages 2 shipyards in Dammam and Jeddah
- 3,600+ staff ashore and offshore
- An entirely 'in-house' managed end-to-end operations structure
- Class leading reliability across all operations
- Excellent track record with Saudi Aramco and we want to keep that



Maximizing our competitive advantage

Utilizing our internal improvements to further engage our clients

Accelerating operational excellence

Our continuous drive to improve the safety and utilization of our people and vessels

- Crew & operational safety
- Condition monitoring of equipment
- Planning & utilization of vessels
- Fuel & emission management
- Operations monitoring & support

Compliance with client requirements

These evolve over time and cover multiple areas and disciplines

- Improved vessel up-time and client satisfaction.
- Fuel monitoring (in/out)
- Energy efficiency management
- Crane operations monitoring
- Crew logistics & management

Our fleet is diverse

While we wish to have uniform monitoring

Our main technical challenges were:

- Low level of standardization
- Wide range of protocols for available sources
- Missing data sources, like fuel levels & flow
- All data must remain within the country
- Connectivity is costly and has limited bandwidth
- Limited access to vessels in offshore operation
- Changing client requirements



Combining the strengths of two platforms

Data & Visualization

Data PI System

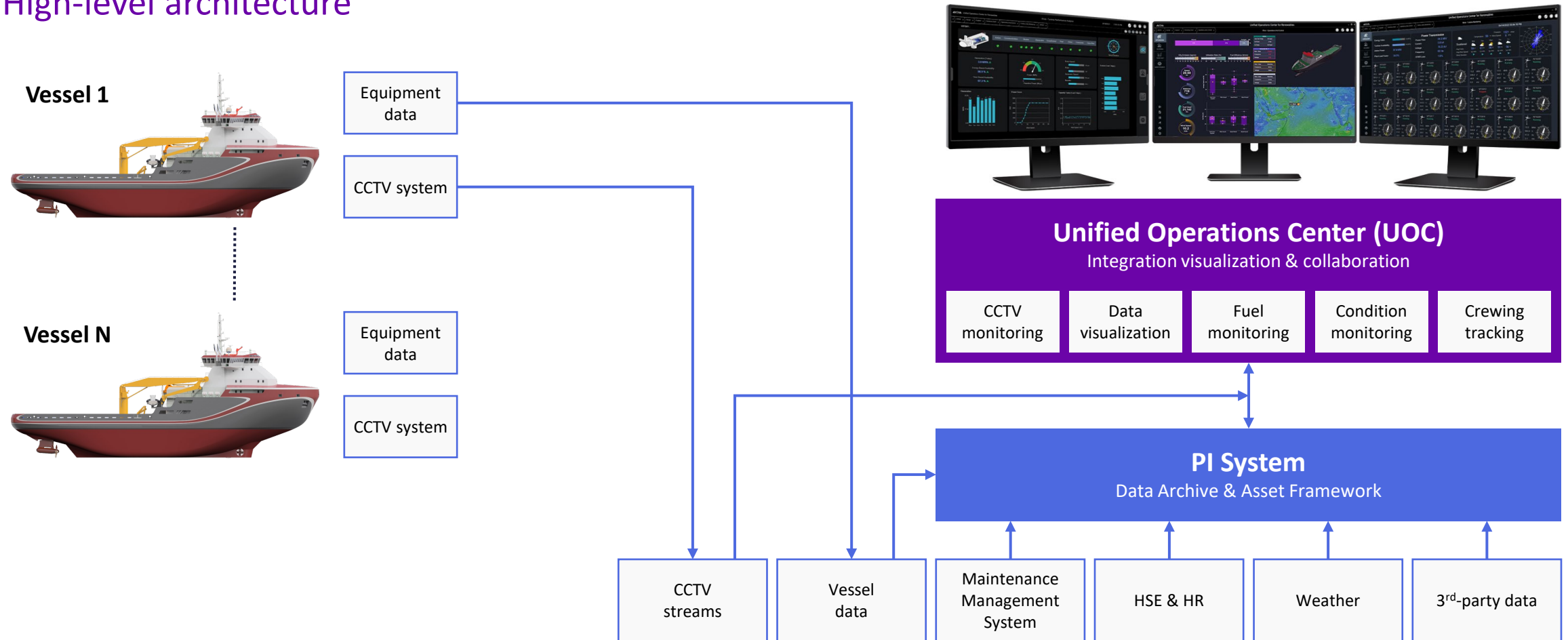
- UFL Connector for vessel data
- Templates within Asset Framework
- Deployed within Private Cloud within KSA

Visualization Unified Operations Center (UOC)

- Integration of PI Vision, CCTV & 3rd-party applications
- Deployed within Private Cloud within KSA

Combining the strengths of two platforms

High-level architecture



Our operations center

Our fleet, vessel and equipment in a single view

It is an enabler

- Single view on fleet operations
- Vessel-specific performance & state
- Proactive insights in reliability & health
- Secure client access



Maximizing vessel reliability

Picking up technical issues before they develop into events

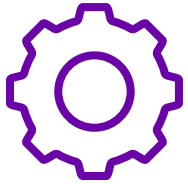
- The aim is to be able to always offer reliable vessels for our client
- Minimize the breakdowns caused by conditions that could have been discovered
- Crews are very busy and do not always have time to report technical malfunctions and adverse conditions
- Our system avoids having to rely on the human factor alone and report automatically
- It is a platform that we enhance with predictive functions in logic and AI to be proactive and maximize our reliability





Summarizing

Accelerating performance iterations



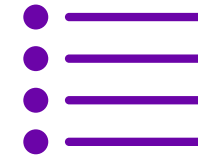
Challenge

- Demonstrating maximum compliance to our client's requirements on operations reporting & monitoring
- Creating scalable data platform to monitor diverse fleet of offshore vessels



Solution

- Implementing PI System with AF to integrate, unify and templatize vessel data
- Implementing Unified Operation Center to create holistic overview of fleet operations



Benefits

- Comprehensive and scalable vessel data management infrastructure
- Data sharing & reporting aligned with client's standards
- Flexible visualization tooling with the agility to absorb new insights and requirements



“Reliability is a culture that you need to nourish.
It is an everlasting drive to make every next
operation better than the last.”

Fredrik Lang – Zamil Marine

Questions?

Please wait for the microphone.
State your name and company.



Please remember to...

Navigate to this session in the mobile
app to complete the survey.



Thank you!

This presentation may include predictions, estimates, intentions, beliefs and other statements that are or may be construed as being forward-looking. While these forward-looking statements represent our current judgment on what the future holds, they are subject to risks and uncertainties that could result in actual outcomes differing materially from those projected in these statements. No statement contained herein constitutes a commitment by AVEVA to perform any particular action or to deliver any particular product or product features. Readers are cautioned not to place undue reliance on these forward-looking statements, which reflect our opinions only as of the date of this presentation.

The Company shall not be obliged to disclose any revision to these forward-looking statements to reflect events or circumstances occurring after the date on which they are made or to reflect the occurrence of future events.

 [linkedin.com/company/aveva](https://www.linkedin.com/company/aveva)

 [@avevagroup](https://twitter.com/avevagroup)

ABOUT AVEVA

AVEVA is a global leader in industrial software, sparking ingenuity to drive responsible use of the world's resources. The company's secure industrial cloud platform and applications enable businesses to harness the power of their information and improve collaboration with customers, suppliers and partners.

Over 20,000 enterprises in over 100 countries rely on AVEVA to help them deliver life's essentials: safe and reliable energy, food, medicines, infrastructure and more. By connecting people with trusted information and AI-enriched insights, AVEVA enables teams to engineer efficiently and optimize operations, driving growth and sustainability.

Named as one of the world's most innovative companies, AVEVA supports customers with open solutions and the expertise of more than 6,400 employees, 5,000 partners and 5,700 certified developers. With operations around the globe, we are headquartered in Cambridge, UK and listed on the London Stock Exchange's FTSE 100.

Learn more at www.aveva.com