Intelligent Maintenance and Documentation Management

Optimize Ferry Operations with Quickbrain

Matthew Barrett – Strategic Accounts Manager

CFA Conference, Québec City
November 2nd, 2025

innovmarine

Agenda

1. Introduction & Industry Review
2. Operational Complexity in Ferry Fleets
3. Why Intelligent Systems Matter
4. Technology Enablers
5. Use Case Insights & Strategic Implementation
6. Recap Value Props & Closing Remarks

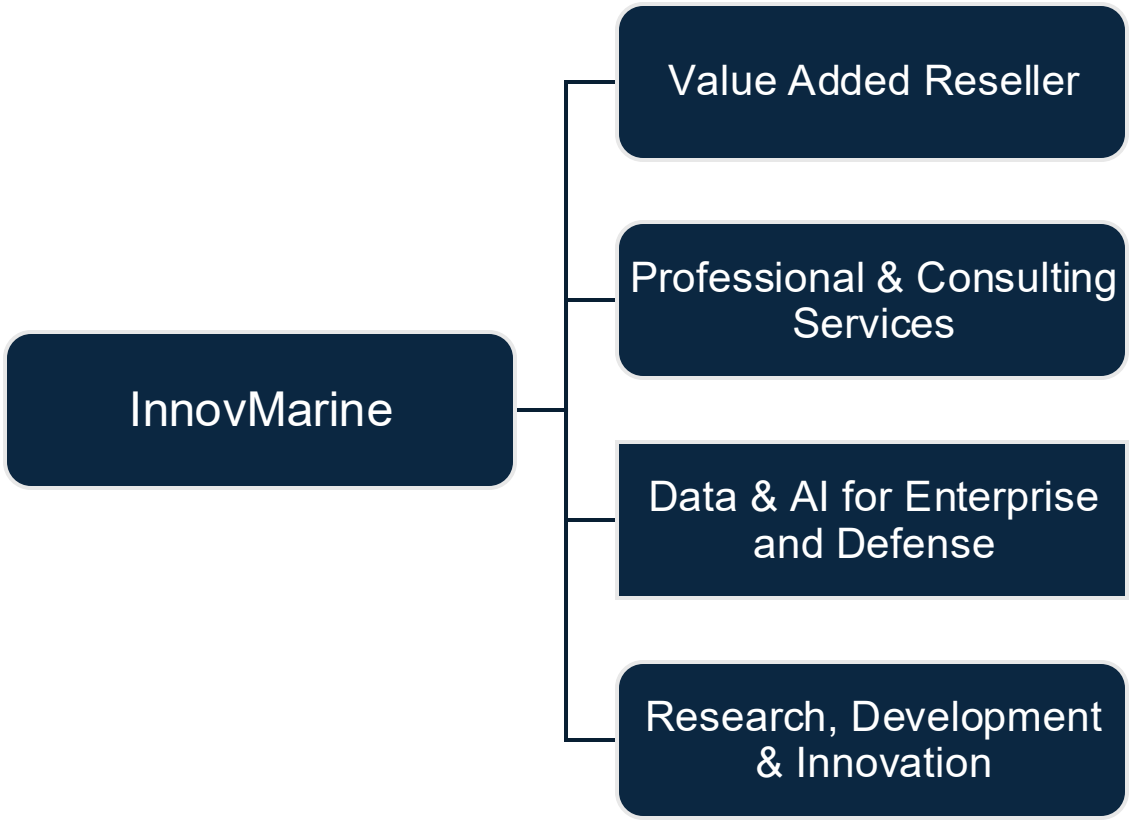
Company Overview

Design Faster, Build Better, and Maintain Smarter

Trusted Industry Experts
Delivering Solutions Since 2014

Proudly Canadian
100% Owned & Operated SMB
HQ in Québec, coast to coast team

Canadian Controlled Goods Program (CGP)
ITAR accreditation
ISO 9001:2015



Operational Complexity in Ferry Fleets

1. **Diversity within Fleet and Range of Operations**
   a. High variability, scattered data across systems, and limited visibility.

2. **A Need for Increased Digitalization**
   a. Operational inefficiencies due to limited access, tribal knowledge, and staff turnover.

3. **Operational Costs & Maintenance Efficiency**
   a. Poor documentation and maintenance delays drive up costs and impact reliability.

4. **Critical Uptime & Limited Flex Capacity**
   a. People, goods and services rely on these crucial transportation links. Impacts of downtime made worse by limited flex capacity for both operations and maintenance

5. **Regulatory Compliance & Risk Management**
   a. Regulations require strict documentation; poor tracking risks safety and financial penalties.

Why Intelligent Systems Matter

Moving from digital to intelligent maintenance means *turning information into foresight*

What intelligent means:

- Adaptive learning
- Intuitive data access
- Predictive capabilities
- Natural, conversational interaction
- Enhanced reasoning and contextual referencing

Intelligent systems deliver:

- Reduced downtime
- Faster, more accurate inspections
- Greater visibility and understanding of information

"Manual → Digital → Intelligent"

What are Technology Enablers

1. **Integrated Digital Environment**
   a. Enterprise-level IDEs centralize data and workflows to improve traceability, collaboration, and decision-making across complex operations.

2. **Cross-platform integrations**
   a. Break down data silos and unlock access to previously isolated information, empowering user groups with actionable insights.

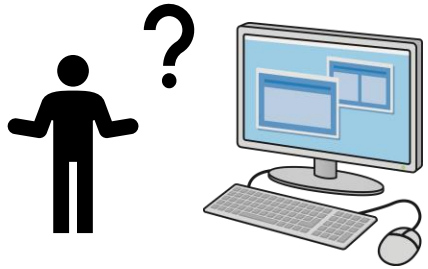
3. **Digital Twins**
   a. Deliver commercial value by enabling better dry dock planning, richer asset visibility, and more flexible maintenance strategies.

4. **AI integrations**
   a. Enhance user productivity, reduce errors, and lower organizational workload through intelligent automation and contextual support.

Use Case Insights & Strategic Outcomes

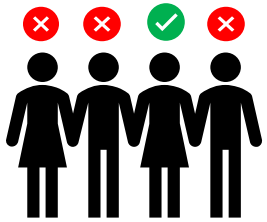
Case Study: Société des traversiers du Québec

Difficulty Accessing Maintenance Documentation



Maximo May Not Be User-Friendly for Crew

Scattered Documentation Among Crew Members



Case Study: Société des traversiers du Québec

1. **Difficulty Accessing Maintenance Documentation**
   a. **Solution:** QuickBrain provides a centralized, easily accessible documentation system to reduce delays.

2. **Maximo is Not User-Friendly for Crew**
   a. **Solution:** QuickBrain simplifies access to maintenance data, integrating with Maximo and other CMMS and ERP platforms.

3. **Scattered Documentation Among Crew Members**
   a. **Solution:** QuickBrain maintains a single source of truth for all fleet personnel, enhancing efficiency and communication.

4. **Opportunity to improve workflows with intelligent technology**
   a. **Solution:** Quickbrain offers direct integrations with the clients existing IBM Maximo installation, as well as IBM WatsonX AI-integrated features such as
      a. AI powered Visual Inspection (E-spector) and,
      b. Natural Language search functions (QuickSearch)

QuickSearch

how to replace the 1HLB10AN001-m01 motor bearing ?

Answer

The replacement of the 1HLB10AN001-M01 motor bearing is documented in maintenance manuals. The process involves several steps including dismounting the motor and replacing the bearings.

Equipments & Tags

- **1HLB10AN001-M01 :** FAN MOTOR - FAN SYSTEM, FORCED DRAUGHT FAN SYSTEM (tag 1HLB10AN001-M01)

Steps — Replace the 1HLB10AN001-M01 motor bearing

- Step 1 — Remove the sound hood. 53011852_LAG0001_MAINTENANCE BOOK_2 (Page 10)
- Step 2 — Lift the motor and rotate it. 53011852_LAG0001_MAINTENANCE BOOK_2 (Page 10)
- Step 3 — Put the motor down on a pallet. 53011852_LAG0001_MAINTENANCE BOOK_2 (Page 10)
- Step 4 — Replace the bearings using standard tools (mechanical tool box) and consumables (cloth, grease pump). The specific bearings to be replaced are SKF 6204 2RS C3 for the 1HDB10AB001-M01 motor. 5301_ENL0001_MAINTENANCE MANUAL_2 (Page 987)

document

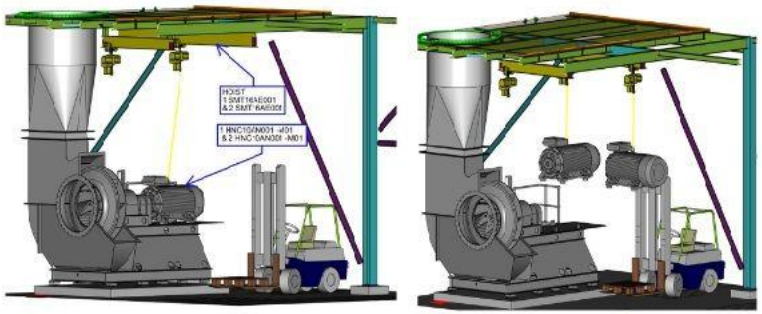
10 of 41 — Zoom automatique

5311 18 52 / LAG 0001 – Avonmouth – Maintenance book

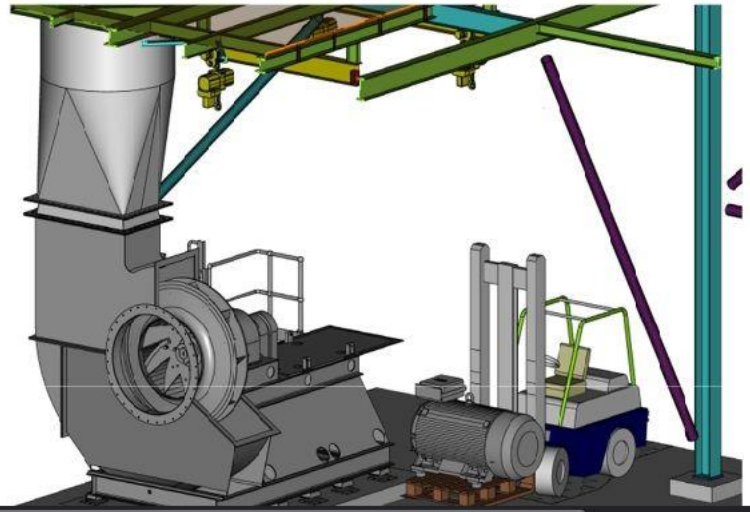
- MOTOR DISMOUNTING: 1 HNC10AN001 -M01 & 2 HNC10AN001 -M01 (L1&L2)

- Step 1: remove the sound hood.

- Step 2: - Lift the motor then rotate them.

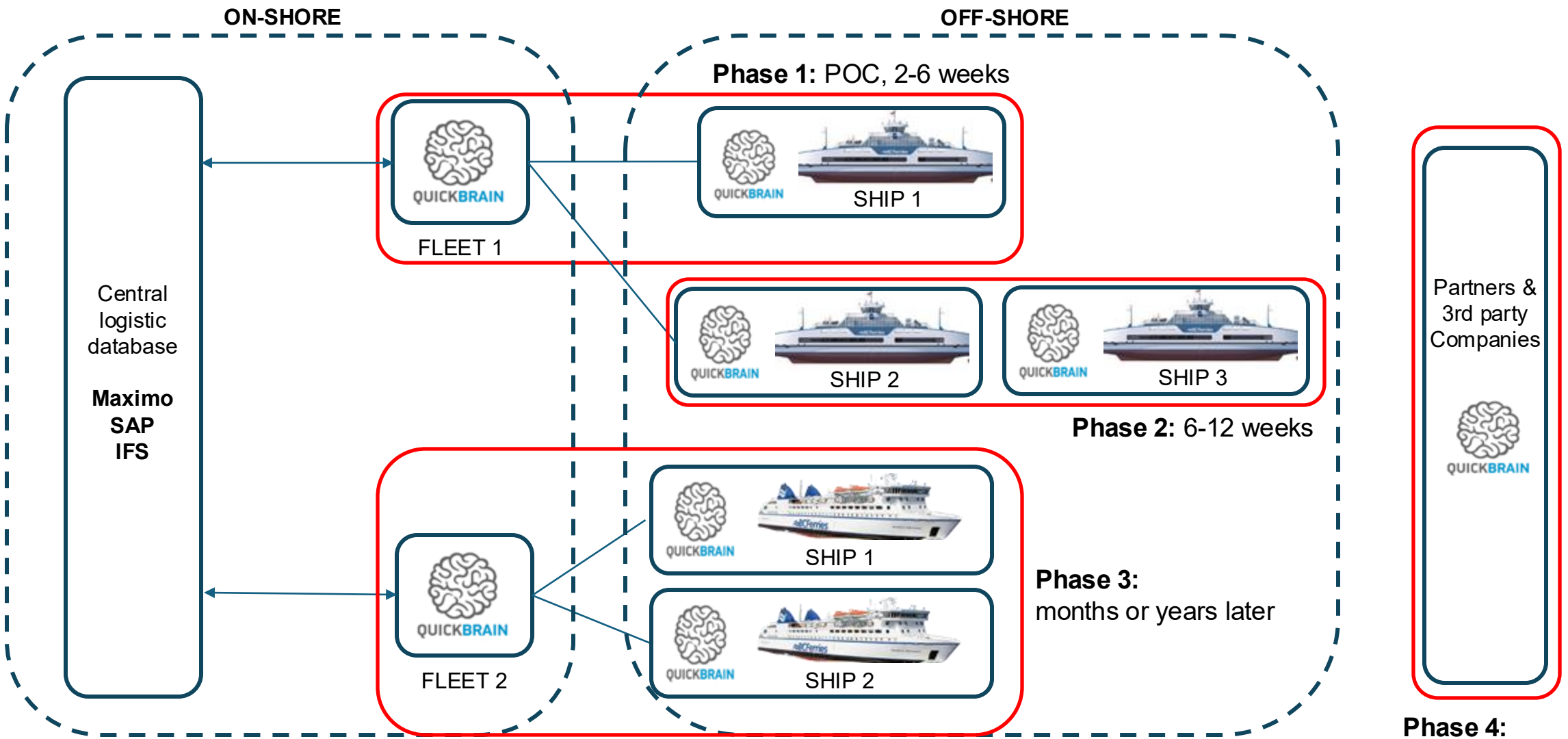


- Step 3: put down on the pallet



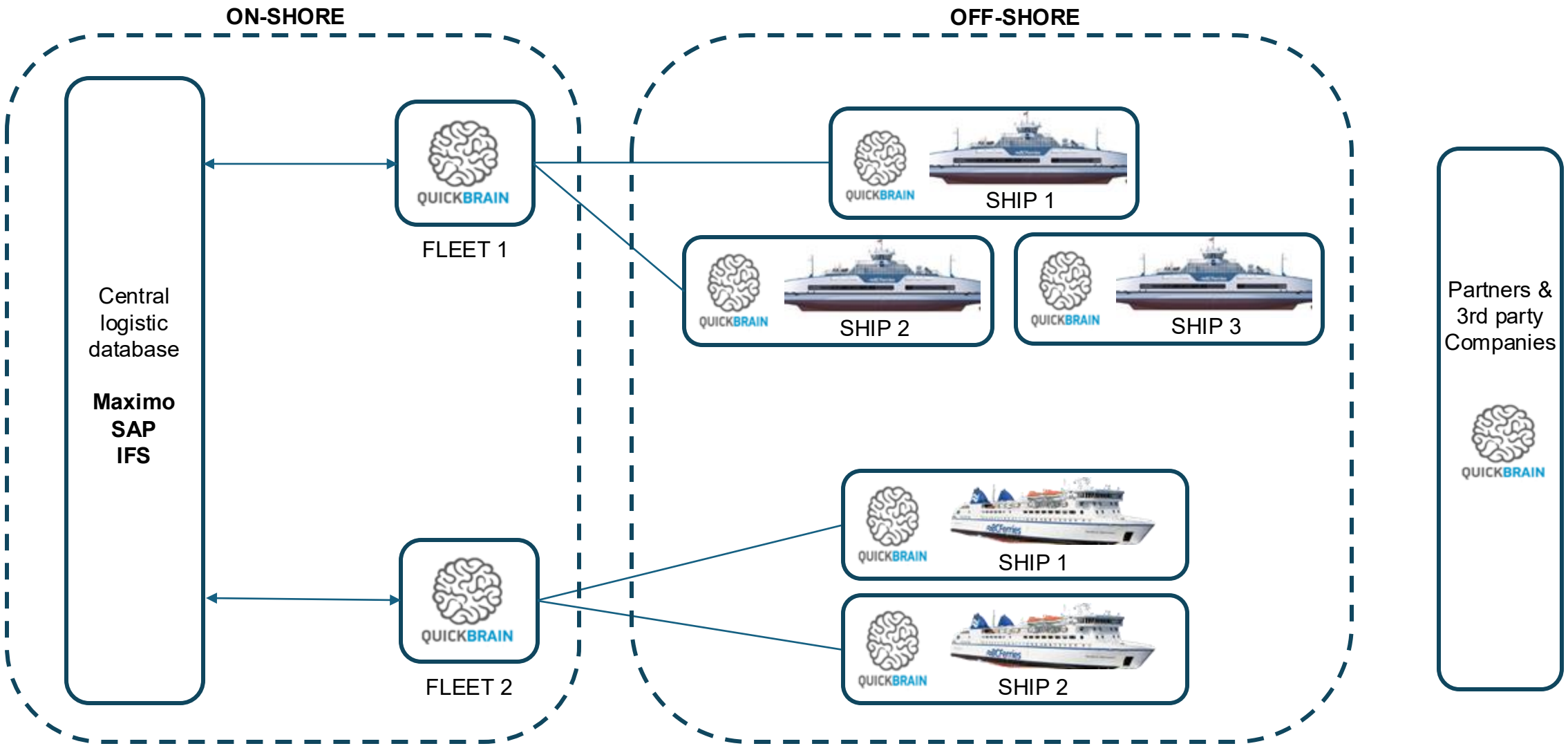
QuickBrain E-DMS Implementation Roadmap

Example flexible and phased implementation:



QuickBrain E-DMS Architecture

A scalable and integrated system:



QuickBrain E-DMS Solution for Fleet Operators

Cloud & accessibility:

- Access anywhere on any device, eliminating outdated paper systems and fragmented data silos while leveraging intelligent tools.

Integration:

- Open architecture integrates seamlessly with ERP, CMMS, and compliance tools, standardizing fleet-wide documentation for better efficiency.

Compliance & efficiency:

- Reduces downtime, lowers labor costs, and streamlines regulatory compliance with ensuring proper documentation for audits and regulatory inspections.

Flexible Architecture & Phased Implementation

- Easily adapts to existing enterprise architecture and protects data integrity across access points
- Phased implementation supports quick ROI, partner-led support and training upfront enables operator self-sufficiency in following phases

innovmarine

Intelligent Maintenance and Documentation Management

Optimize Ferry Operations with Quickbrain

Let’s explore how Quickbrain can work for you!
Scan the QR code to book a 30-min Quickbrain Discovery Meeting

Matthew Barrett – Strategic Accounts Manager
Matthew.barrett@innovmarine.com
780-827-8905

www.innovmarine.com