



Karl Johnny Hersvik
CEO - Aker BP

Digitalization and Automation – Technology and inspiration, but what are the real challenges?



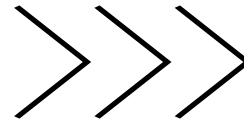
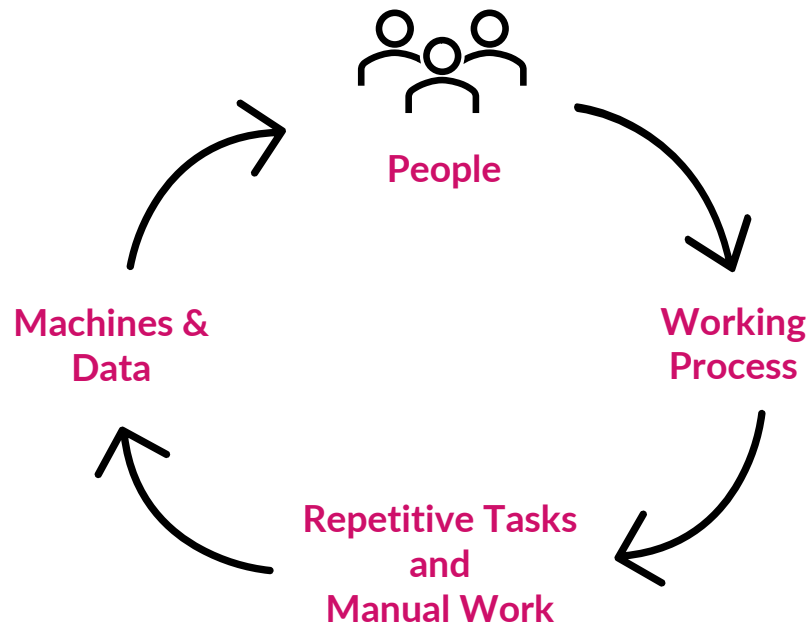
Digitalization and Automation — Technology and Inspiration, but What Are the Real Challenges?

Artificial intelligence is transforming the way we work. Traditional processes are collapsing, and intelligent agents are taking over tasks once handled by humans. This shift is laying the foundation for unprecedented leaps in efficiency.

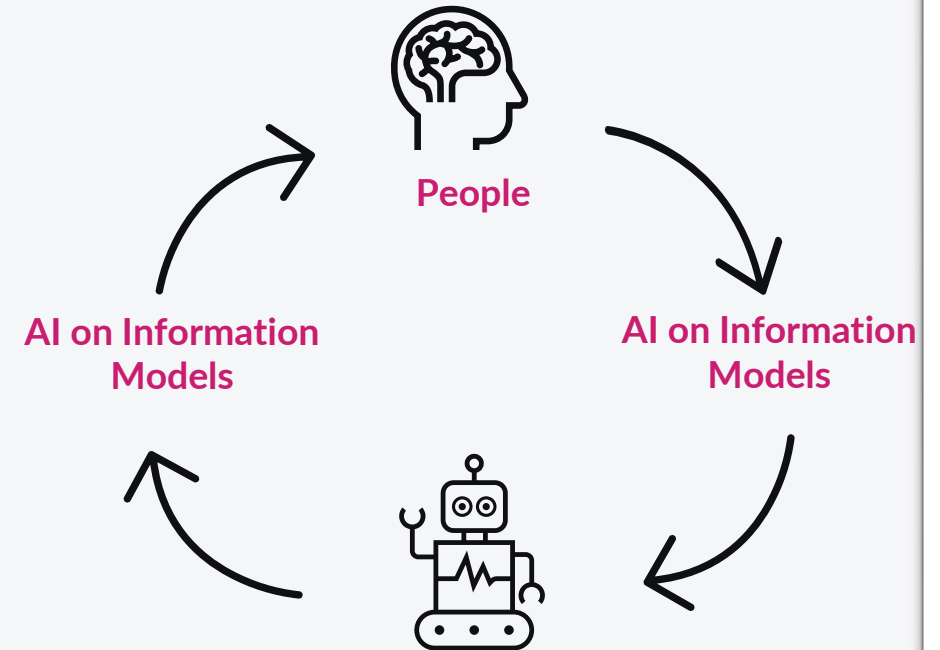
Karl Johnny Hersvik, DISC Show & Tell, Dec 1, 2025

Evolving Data Architecture – From Flow to Autonomy

Integrated working process



Adaptive self-optimizing architecture



Architecture built for **integration** between **people, machines, and systems**

Data connected through **structured workflows** and **human oversight**

With AI: process boundaries **dissolve** – software **adapts instantly** to context

AI driven **autonomy** – the working process layers **collapse**

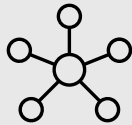
Root Cause Analysis (RCA): Significant Efficiency Gain Achieved

BEFORE

Weeks spent on Data Collection and Months on single RCA



Lengthy Data
Exploration
Weeks



Manual Cause
Maps
Days

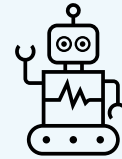


Distributed Time
Series Analysis
Weeks

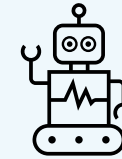


AFTER

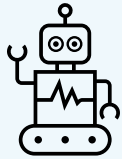
AI-Powered Insights and Automated Workflow



RCA Data
Exploration Agent
Days



Cause Map
Agent
Minutes



Advanced TS
Analysis + RCA Agent
Days

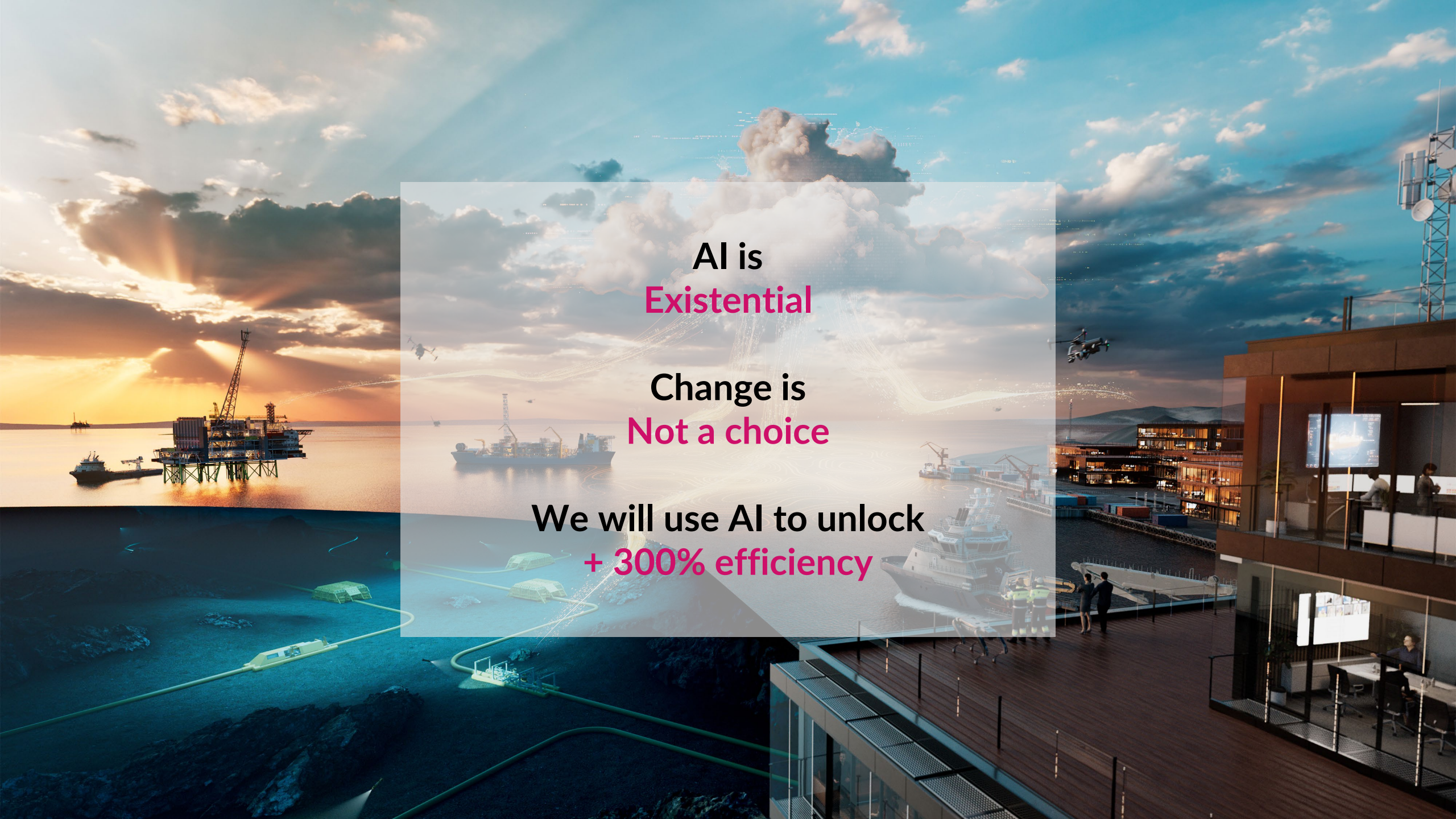
RCA Duration: Weeks to 9 Months

- Up to 97% time on data gathering
- Manual and limited quality of RCAs
- Previous AI Unsatisfactory for Industrial environment

RCA Duration: Reduced to Hours

- Eliminated data gathering with CDF and AI Agents
- Automated RCA workflow with improved Quality
- Grounded and trustworthy AI agents

Examples has shown >70% efficiency improvement



AI is
Existential

Change is
Not a choice

We will use AI to unlock
+ 300% efficiency

SUMMARY OF KALLE PRESENTATION AT DISC SHOW & TELL 2025

Background & Context

The presentation, delivered by Karl Johnny Hersvik (CEO, Aker BP), addresses the transformation of the oil and gas industry through digitalization, automation, and especially artificial intelligence (AI).

The narrative uses the metaphor of libraries and librarians to describe historical data silos and the challenges of data accessibility and integration.

SUMMARY OF KALLE PRESENTATION AT DISC SHOW & TELL 2025

Key Themes & Insights

A. Data Silos and the Need for Data Liberation

- Historically, data was locked in functional silos, each managed by “librarians” (data owners) with strict access controls.
- This led to inefficiencies and a lack of collaboration, both within and between companies.
- The “Data Liberation Front” was initiated to break down these barriers and promote accessible, high-quality, and well-governed data.

B. Foundation for Industrial AI

- Four pillars for effective data-driven transformation:
 1. **Good Data:** High quality, well-versioned, and accessible data is essential.
 2. **Accessibility:** Data must be available in real time to support critical operations.
 3. **Consistency:** Industrial data platforms are complex; consistency and interoperability are crucial.
 4. **Data Flow:** The goal is seamless data flow, not just accessibility—data should move like water in a river.

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Key Themes & Insights

C. The Role of AI and Modern Data Architectures

- AI is seen as a tectonic shift, not just another tool.
- The transition is from applications powered by data to autonomous agents making decisions and generating new data.
- Without high-quality, AI-ready data, investments in AI applications are ineffective.
- The “North Star architecture” at Aker BP consolidates multiple platforms (CDM, Microsoft Fabric, OSDU/ADME) into an interoperable system, emphasizing industry standards and data flow.

D. From Proactive to Predictive Operations

- The move is from process-based, sequential workflows to concurrent, agent-driven workflows.
- AI agents can act and optimize in real time, often before humans even see the data.
- This changes organizational roles: humans shift from executing tasks to training and governing AI agents.

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Key Themes & Insights

E. Root Cause Analysis (RCA) as a Case Study

- Traditional RCA in complex operations (like gas processing) is slow and resource-intensive.
- AI-driven RCA can reduce analysis time by up to 97%, but the biggest bottleneck is data modeling and quality.
- Human bias and inconsistent data standards remain challenges; AI can help identify and mitigate these.

F. Organizational and Industry Implications

- The industry must move from incremental improvements to radical productivity gains (targeting 3x productivity).
- Collaboration across the ecosystem is essential—no company can succeed alone.
- Leadership and governance must adapt to a future where organizations have both human and AI “employees.”

SUMMARY OF KALLE PRESENTATION AT DISC SHOW & TELL 2025

Key Takeaways & Recommendations

- **Data Quality and Accessibility:** Invest in robust data governance, versioning, and real-time accessibility.
- **Interoperability:** Build platforms that integrate across business systems and enforce industry standards.
- **AI Readiness:** Ensure data platforms are structured, standardized, and enriched for AI consumption.
- **Organizational Change:** Prepare for a shift in roles—from task execution to agent training and governance.
- **Collaboration:** Foster industry-wide cooperation to achieve transformative gains.
- **Ambition:** Set bold targets (e.g., 3x productivity) and recognize that only radical adoption of AI can deliver such results.

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How the Slides Support the Talk

The slides reinforce these points visually:

- They illustrate the collapse of traditional process layers and the rise of autonomous, AI-driven architectures.
- They show before/after scenarios for RCA, highlighting dramatic efficiency gains.
- They emphasize the existential nature of AI-driven change and the need for industry-wide action.



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Conclusion

This presentation is a call to action for the oil and gas industry to embrace data liberation, AI, and radical collaboration.

The combination of the transcript and slides provides a comprehensive roadmap for digital transformation, with practical examples and ambitious goals.



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