



CANADA-NEWFOUNDLAND & LABRADOR

CNLOPB

OFFSHORE PETROLEUM BOARD

# Artificial Intelligence: A Regulator's Perspective

Human Factors and AI: Opportunities & Risks for Safety Critical Industries

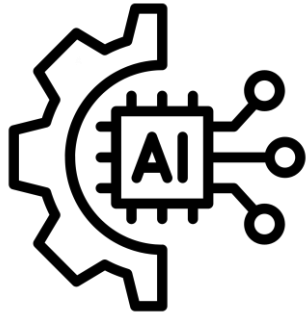
Rob McGrath

# Regulators – Gatekeepers or Catalysts?

- Regulators protect public trust, safety, and the environment.
- Traditional caution = slower innovation—but times are changing!
- Stability matters, but so does progress.
- We must evolve to enable smart, responsible innovation.



# AI – Game Changer or Risk Factor?

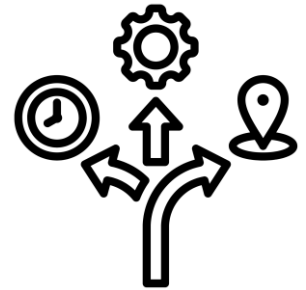


- AI boosts efficiency, decision-making, and predictive analytics.
- Risks? Automation paradox, cybersecurity threats, and human oversight gaps.
- Should we be worried?
- The challenge: embrace AI's potential without compromising safety.



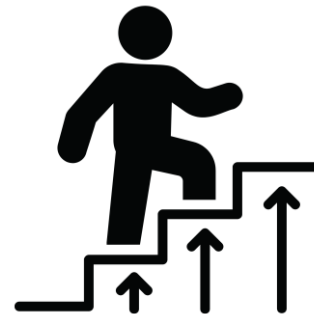
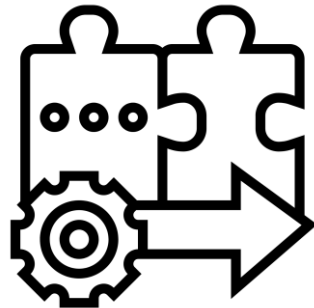
# Performance-Based Regulating – The New Frontier

- Rigid rules? Out. Smart outcomes? In.
- Performance-based regulations can unlock innovation without compromising safety.
- AI adoption thrives when it proves real-world effectiveness.
- Human oversight is non-negotiable—more automation = stronger vigilance



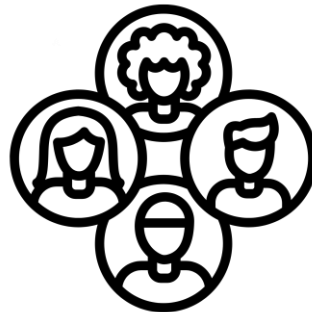
# C-NLOPB – Stepping into the Future

- AI is here, and we must understand it to regulate it effectively.
- Training, skill-building, and working with industry experts.
- An internal Innovation Working Group is pushing digital transformation.
- Leadership, education, and change management will define success.



# A New Focus on Collaboration

- Regulators can't sit on the sidelines—we must engage with innovators.
- COVID-19 proved trust and transparency accelerate informed decisions.
- New working groups will help regulators and operators navigate AI together.
- Collaboration with global counterparts keeps us ahead of emerging challenges.





## **International Regulators' Forum**

**THANK YOU**

### **International Regulators Forum 2025 – Offshore Safety Through Innovation**

**Date:** October 9-10, 2025

**Location:** St. John's Convention Centre