

Introducing Automation for Well Intervention Operations on NCS



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Schlumberger



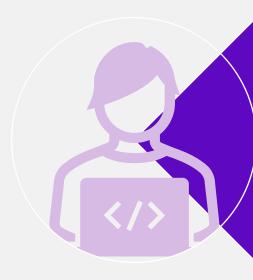


Agenda



Overview

- Well intervention operations
- The path towards automation



Why Automation?

- Goals and status
- Experience from the field

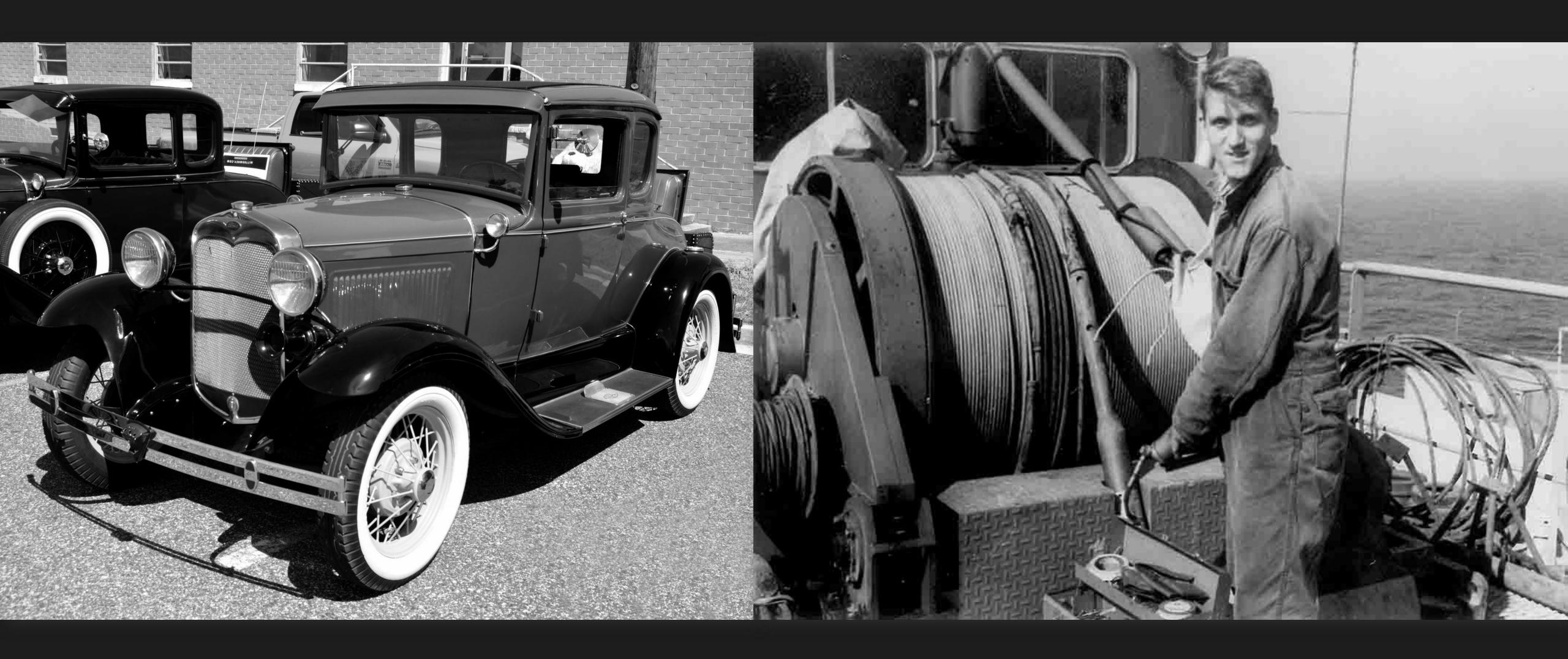


Safety

- Automated safety
- Human operator role









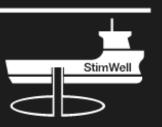




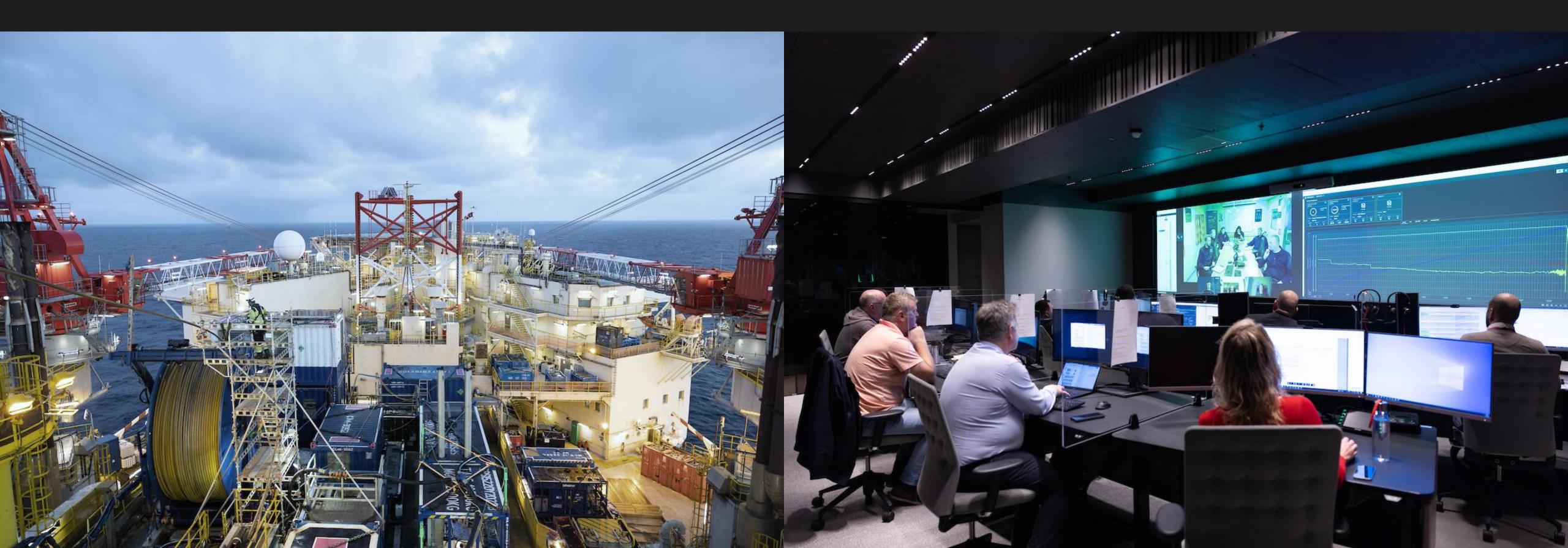


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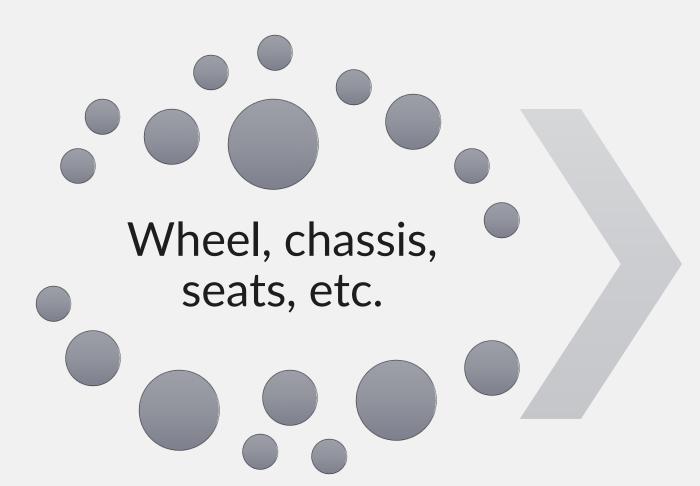




The Alliance will be a global benchmark for outstanding offshore well intervention and stimulation operations



What are we doing?



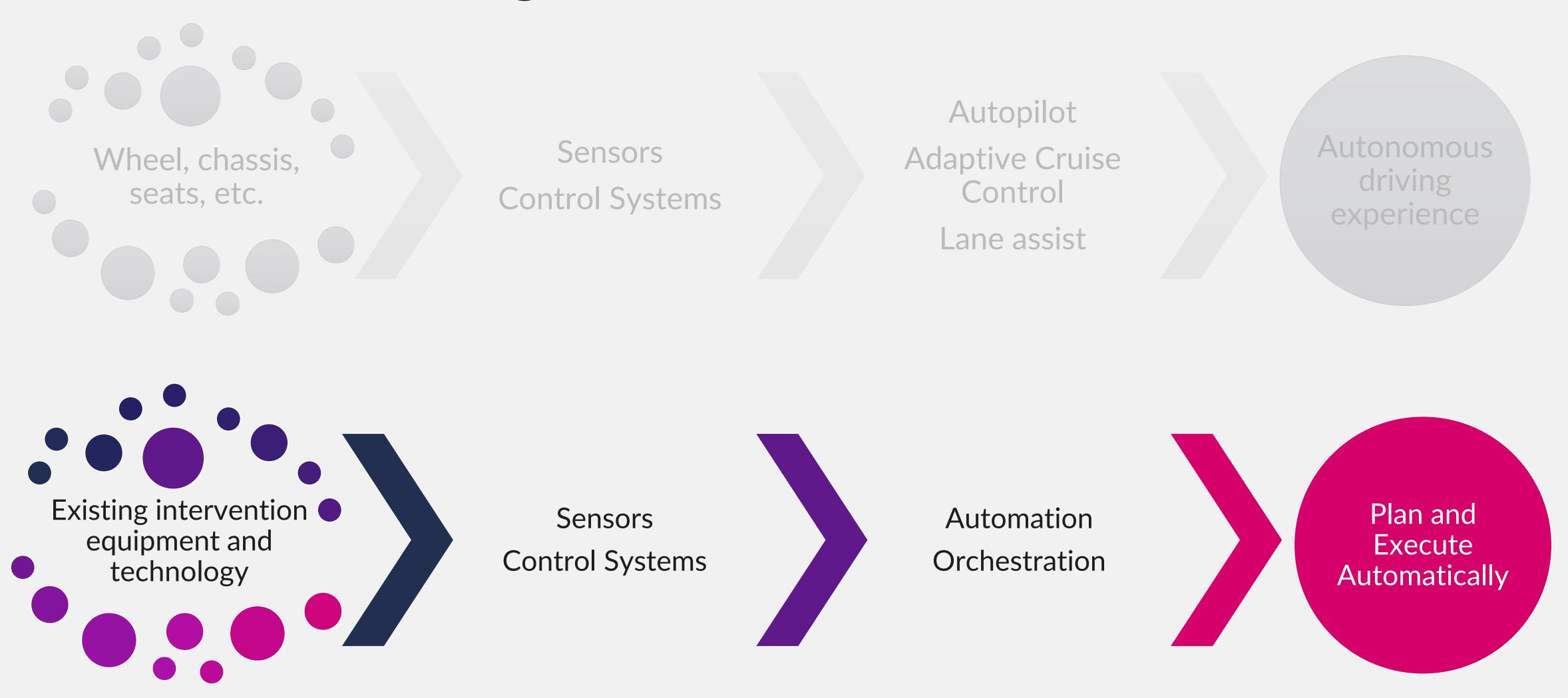
Sensor Data
Control Systems
Maps in the cloud

Autopilot
Adaptive Cruise
Control
Lane assist



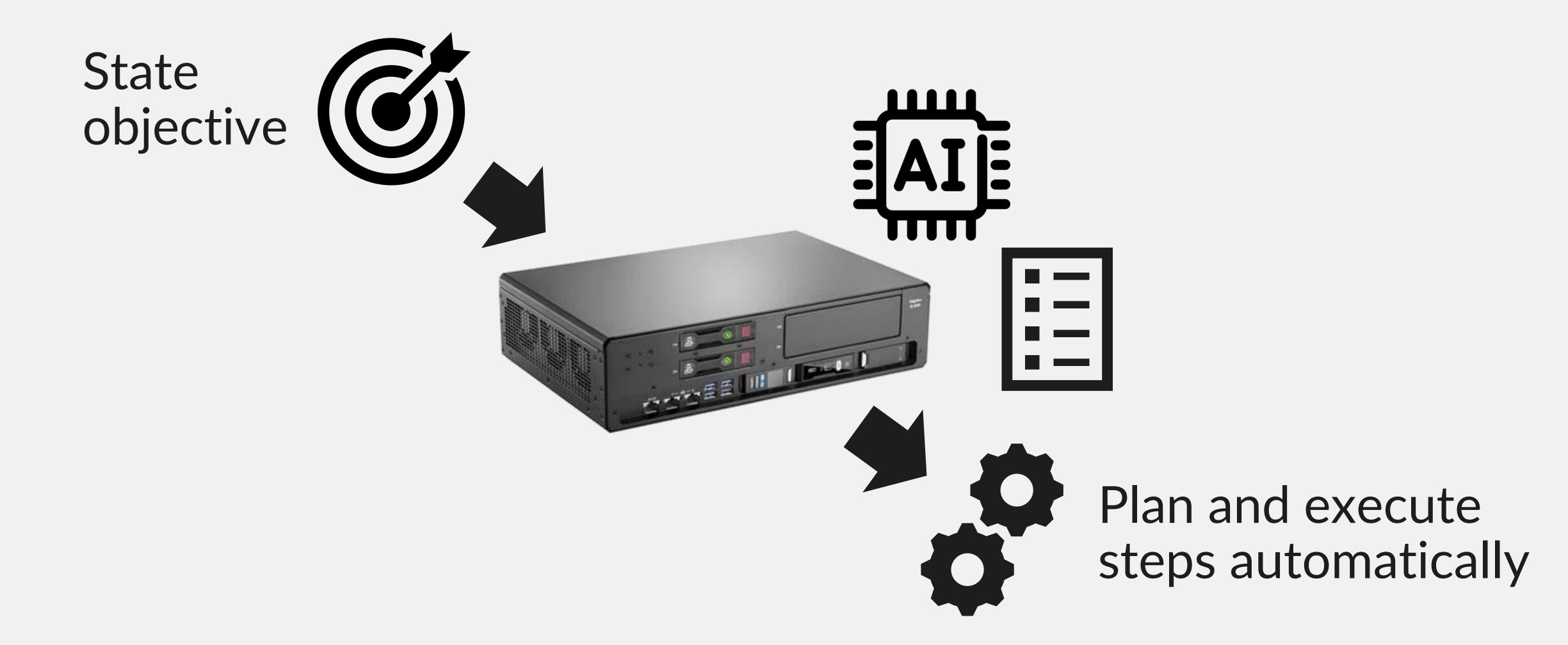


What are we doing?





Automation Goals





Where are we today?





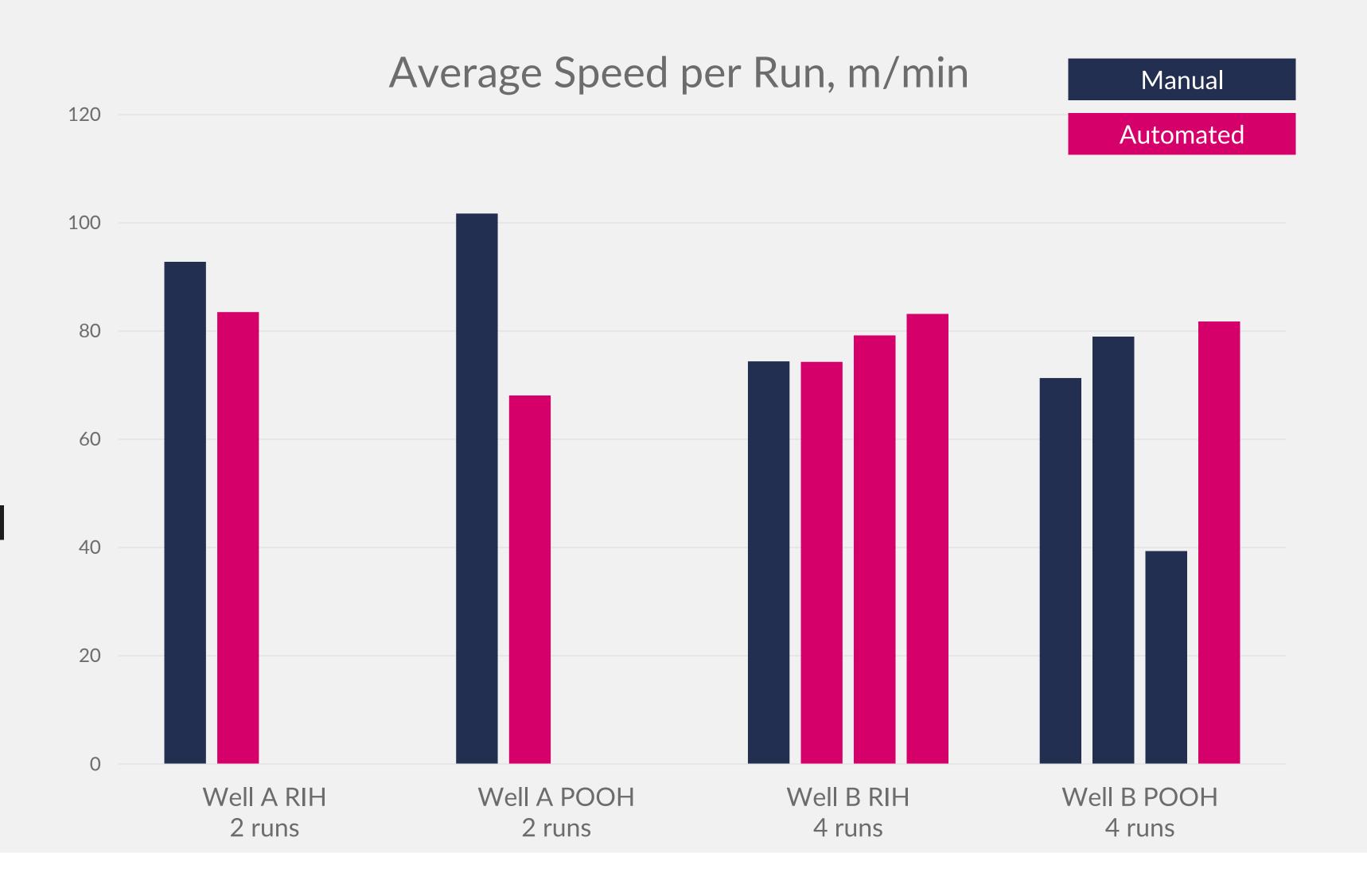


Automation Experience

 Increased use of Automation

Execution consistency

 Automation system equal experienced operators

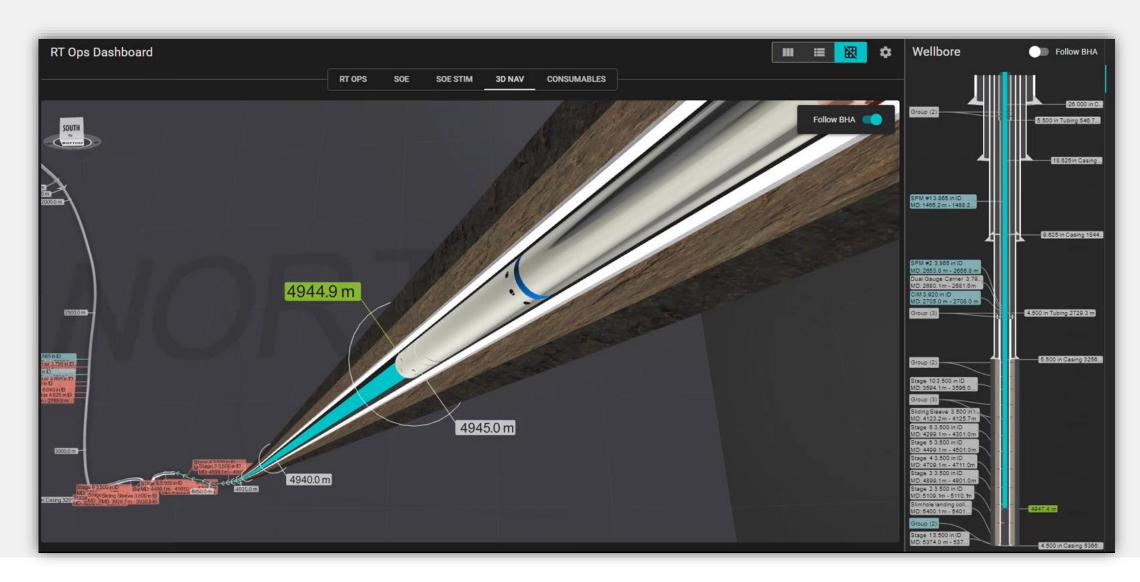




Automated Safety

Real-time modelling and monitoring of anomalies

Automated safety measures prevents undesired and unsafe situations







Safety—Human Operator Role

Automation ↔ Manual control

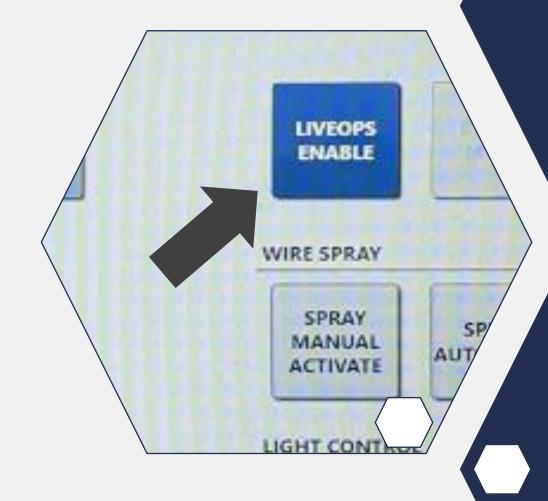
Automation confirmation required



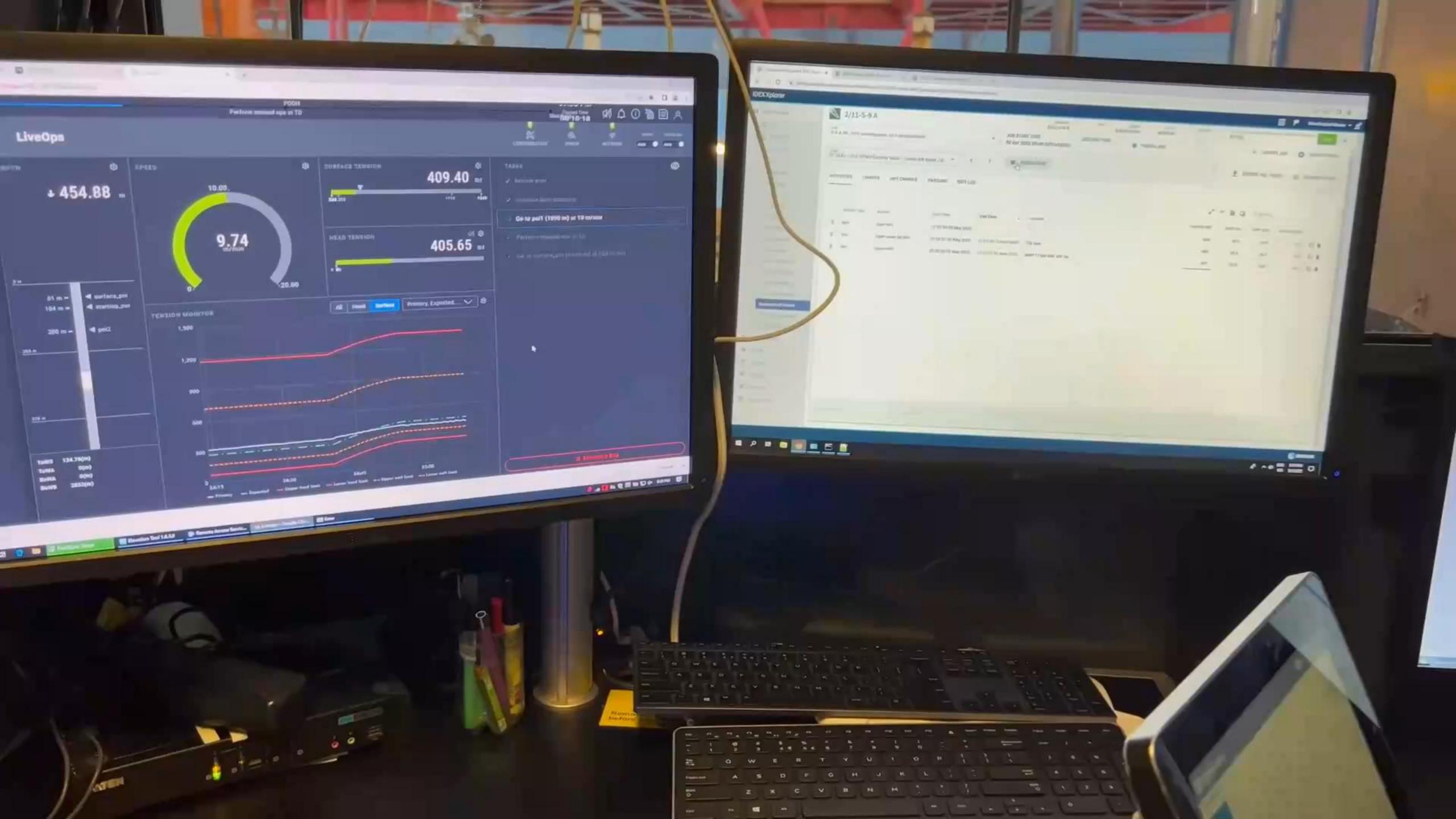
Automation input verification prior to execution











Conclusion

 Wireline and slickline automation a reality in NCS

First in the world offshore

Next step is coiled tubing automation

First in the world

