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# Integrating DrillPlan and DrillOps to enable Workflow Automation

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# WHY Change... On Prem vs. Integration

## Current State: disjointed and expensive



OQE



LL/BP



EAR



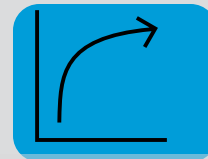
Barriers



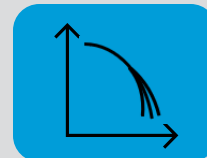
Drill Prog



OWA



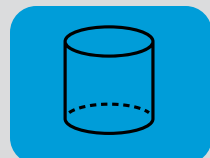
Well Control



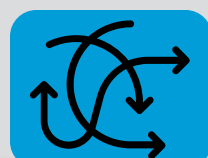
Torque/Drag

Business Units

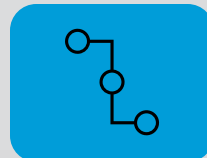
CTC – Technical Center



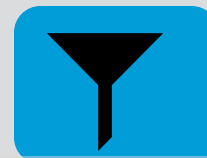
Casing Design



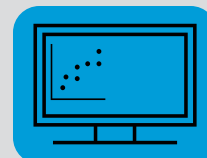
Collision risk



Surveys



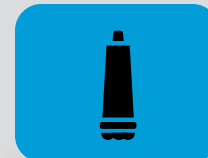
Mud/Hydraulics



RT Viz



KPI Analysis



BHA Design

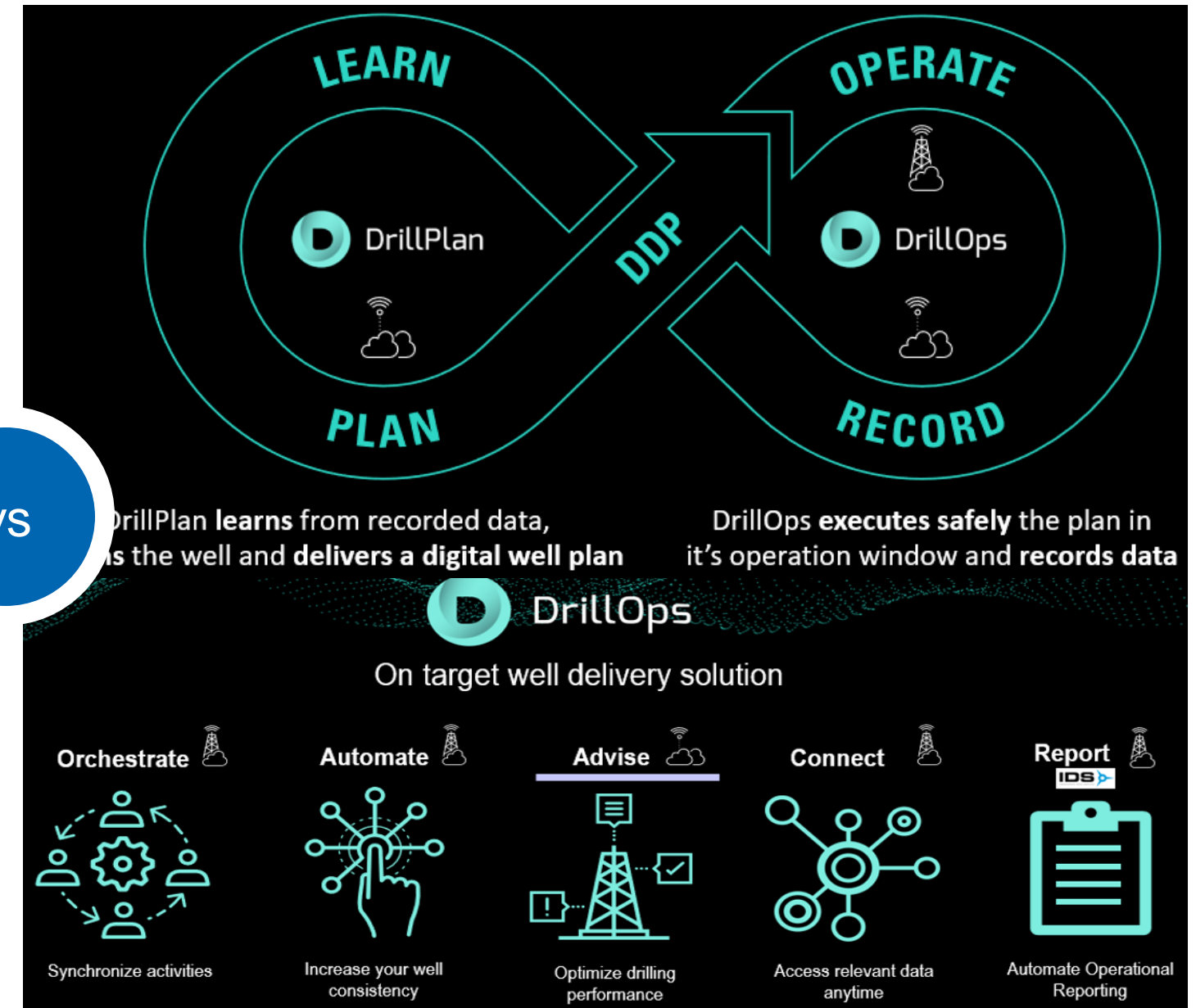


Daily Reports

third party digital solutions

VS

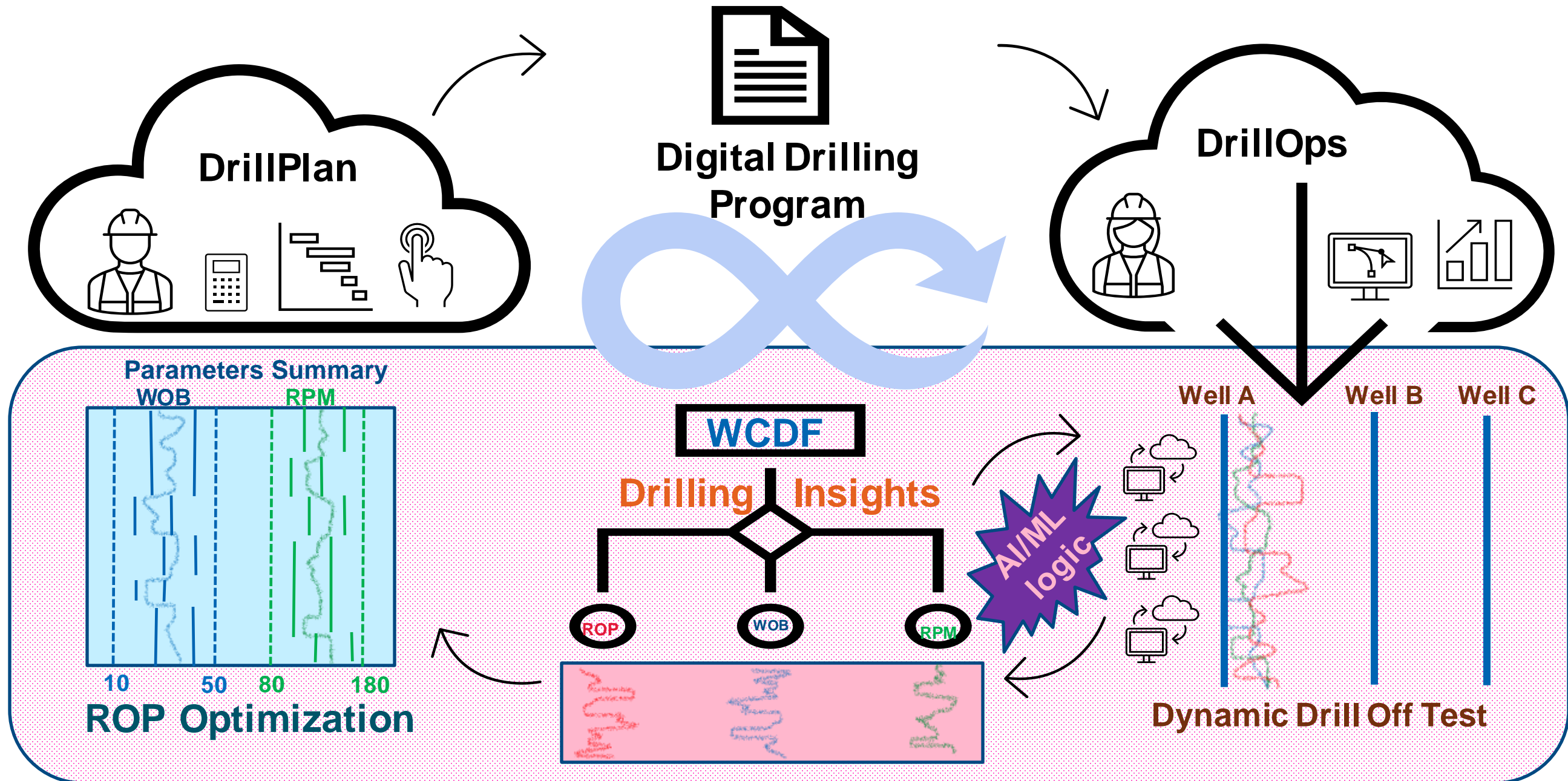
## DrillOps: integrated and automated



# The Importance of the “Infinity Loop”



# Leveraging the “Infinity Loop” for Parameter Optimization





# Potential Value to Uncover...

- **Workflow Automation:**

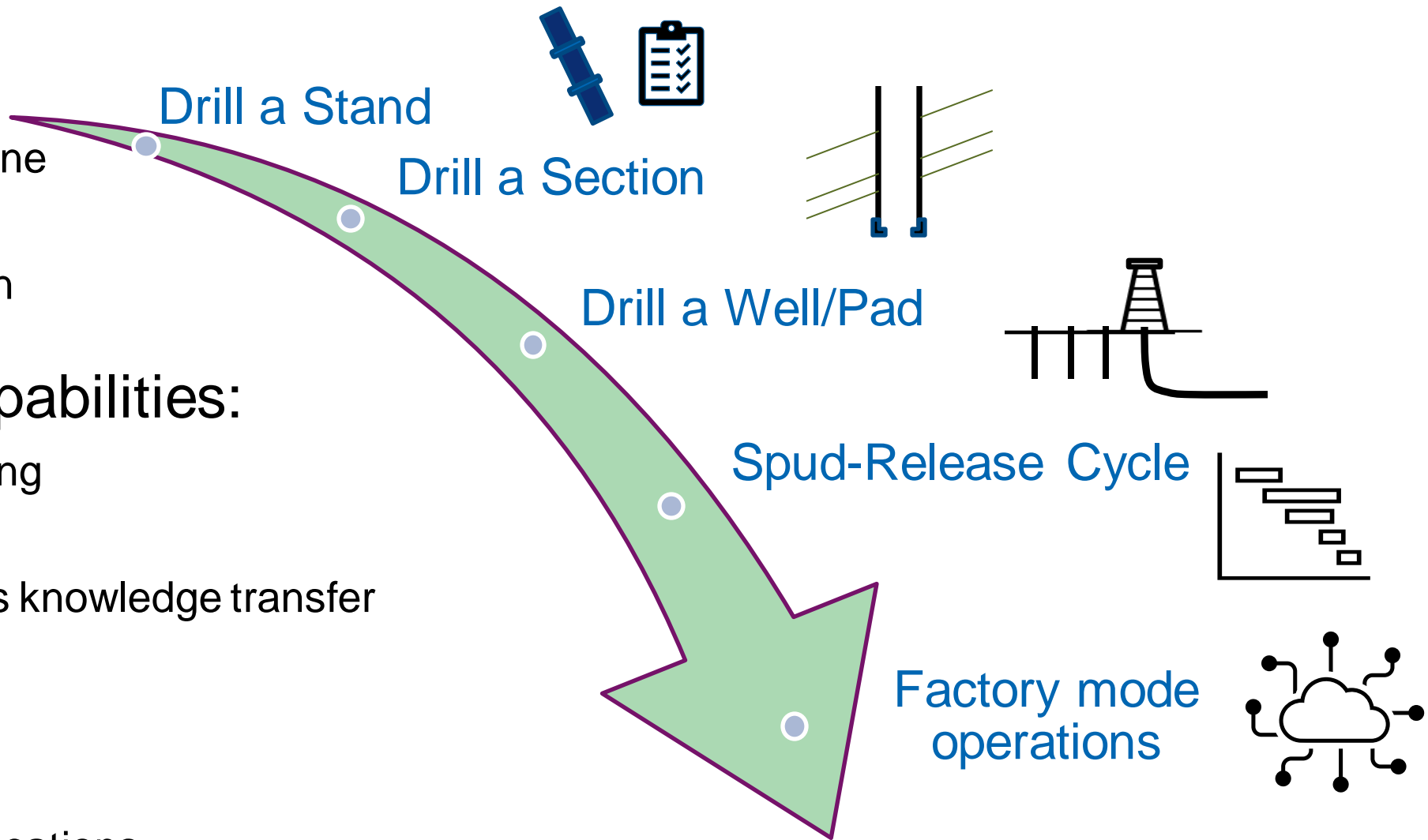
- ✓ Digital Lessons Learnt and smart search engine
- ✓ Less human dependency and experience
- ✓ More consistency in performance optimization

- **Enabling AI/ML and Data Fog capabilities:**

- ✓ Automated workflows to feed Machine Learning
- ✓ Predictive analytics beyond human logic
- ✓ Opportunities for data fog in an instantaneous knowledge transfer

- **Accelerating full automation:**

- ✓ Analytical quality beyond human error margin
- ✓ Process Automation based on analytical applications
- ✓ Rig/Equipment Automation based on process automation



# Long-term Vision is a Holistic Cross-Functional Integration

