A Century of Innovation: Redefining the Standards of Well Abandonment

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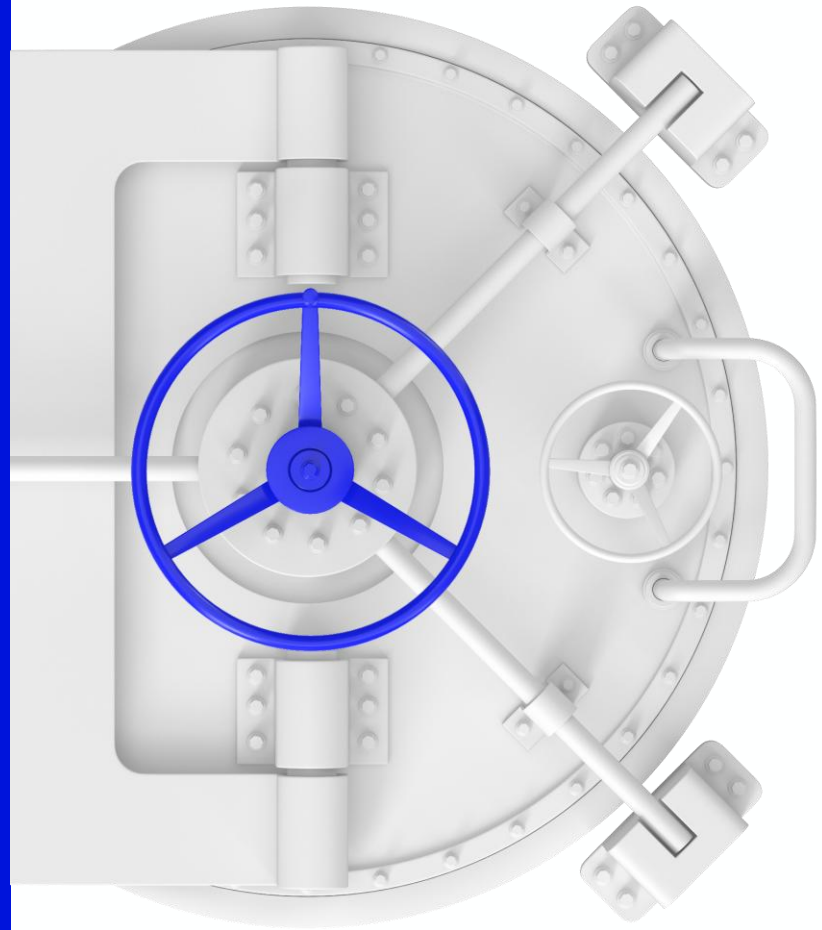
Industry Challenges

- Aging assets
- Increased ARO
- Cost vs investment
- Regulatory alignment

Our value proposition



Safe, reliable and cost effective end-to-end well abandonment

Modular, scalable and fully integrated solutions, de-risking cessation of production and optimizing your asset retirement obligations.

We help **optimize** your abandonment obligations

Reduce rig intensity

- Lower cost
- Carbon reduction

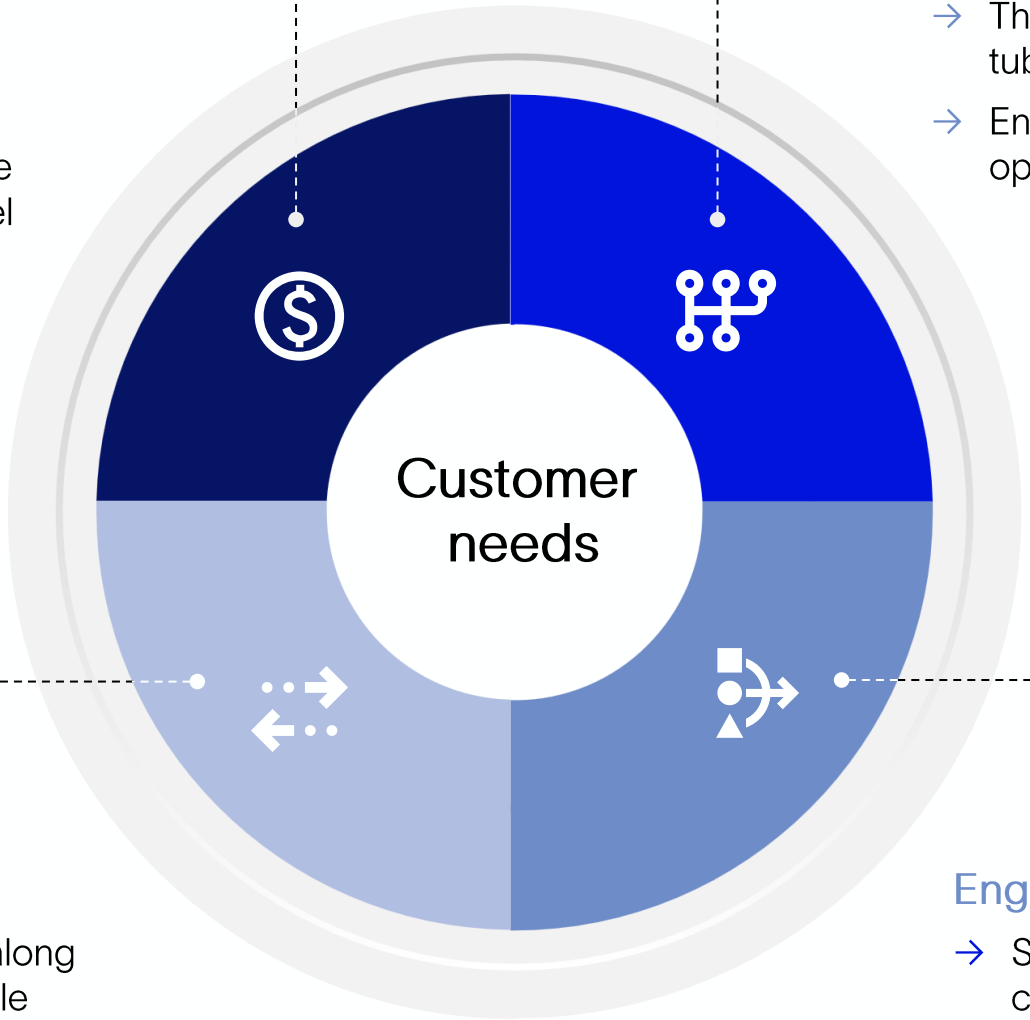
Restore caprock integrity

- Safety
- Integrity

Secure regulatory compliance

- Risk-based P&A design
- Digitally enabled process

Our plug and abandonment solutions have four key enablers



Commercial

- Budget and schedule assurance
- Performance based model

Technology

- Through tubing P&A
- Enable rigless operations

Integration

- Integration along the P&A cycle
- Partnerships

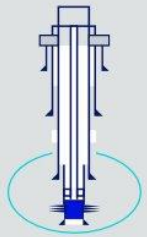
Engineering

- Subsurface characterization
- Digitally enabled workflows

Enabling rigless P&A

An opportunity to step change well P&A workflow

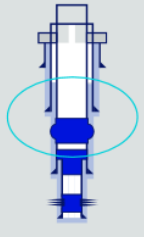
Phase 1



Reservoir isolation phase

- → Zone preparation (perf)
- → Install Isolation (cement plug)

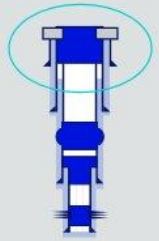
Phase 2



Intermediary section phase

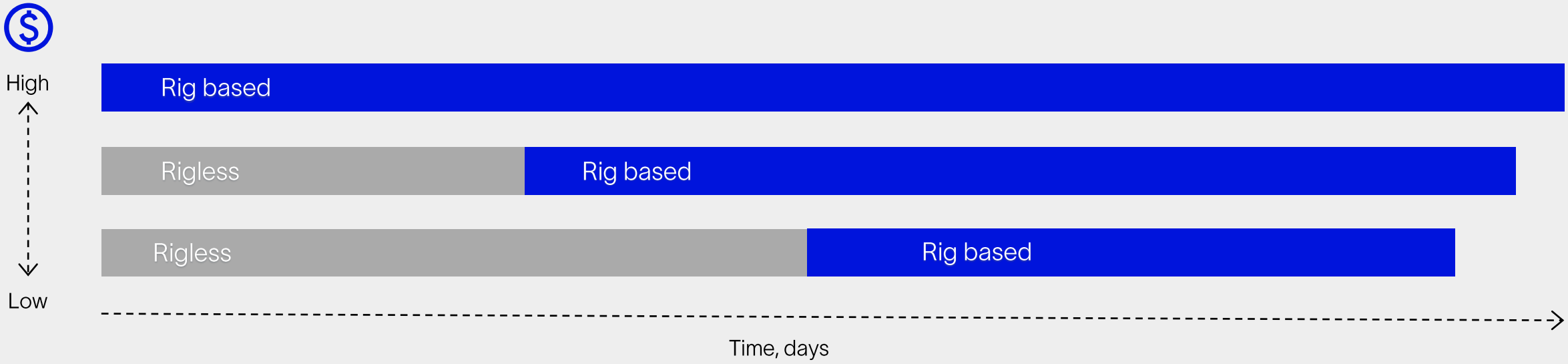
- → Completion recovery
- → Annular remediation (mill window)
- → Annular remediation (cement plug)

Phase 3

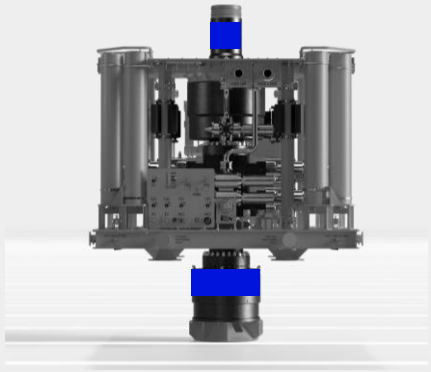


Conductor recovery - Wellhead removal phase

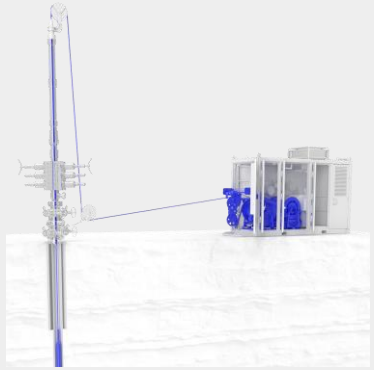
- → Wellhead removal
- → Conductor retrieval



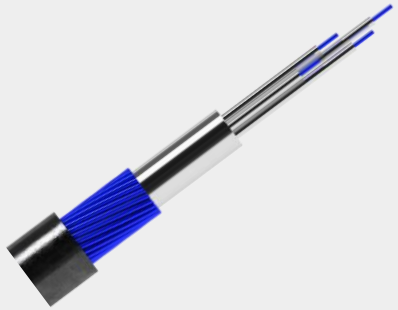
Broad portfolio of well abandonment technologies



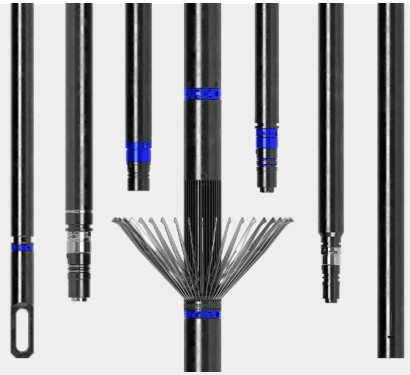
ROAM riserless open-water abandonment module



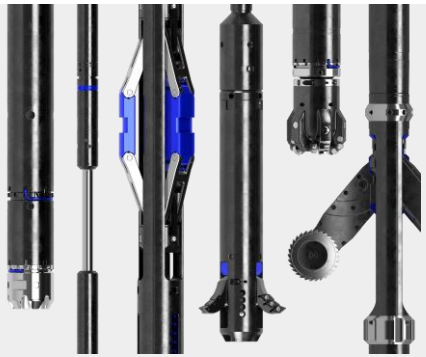
Digital Slickline



Active Power™ coiled tubing real-time powered downhole measurement system



Reveal™ wireline surveillance solutions



ReSOLVE iX™ intelligent extreme wireline intervention service



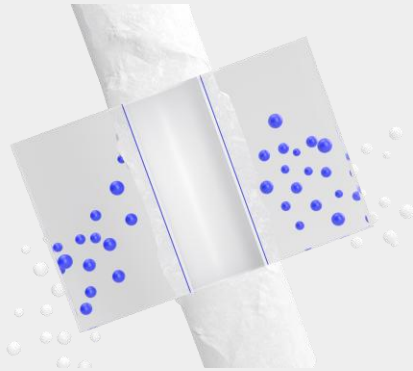
Peak Family™ flow control and well intervention tools



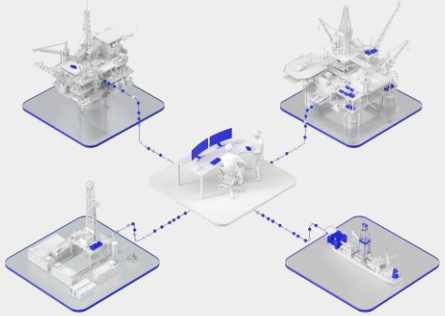
Epilogue™ dual barrier cement evaluation



Perf Wash and Cement® Portfolio



OmniCem™ performance optimized system

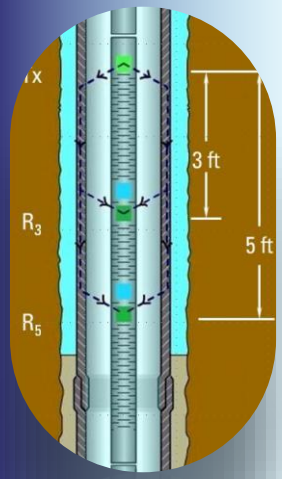


IDEX™ collaboration platform

The evolution of sonic data

Over 60 years of Sonic measurement Innovation

Acoustic

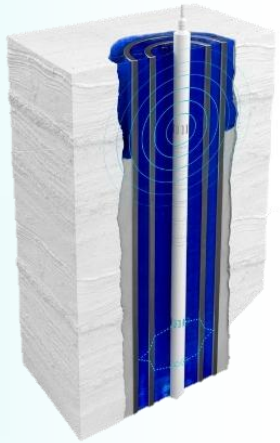


Ultrasonic









1960 — 1993 — 2006 — 2017 — 2022

slb

Epilogue™ Dual-string barrier evaluation

- Through tubing well integrity evaluation
- Continuous measurement of liquid properties in A-annulus and pipe-to-pipe standoff
- Simultaneous A- and B-annuli evaluation with environmental corrections.

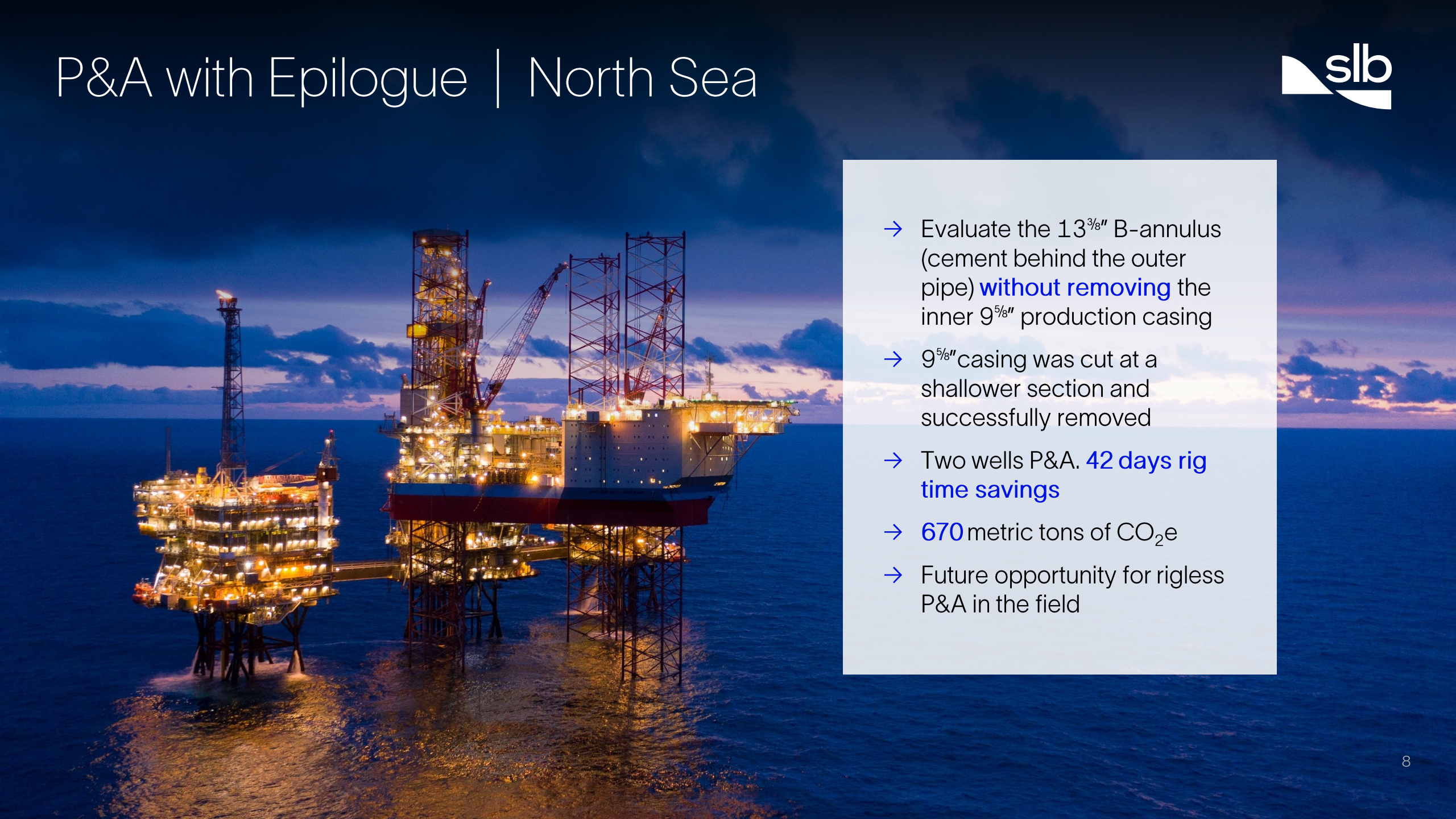
600+

Epilogue deployments

400+

dual-barrier application

P&A with Epilogue | North Sea

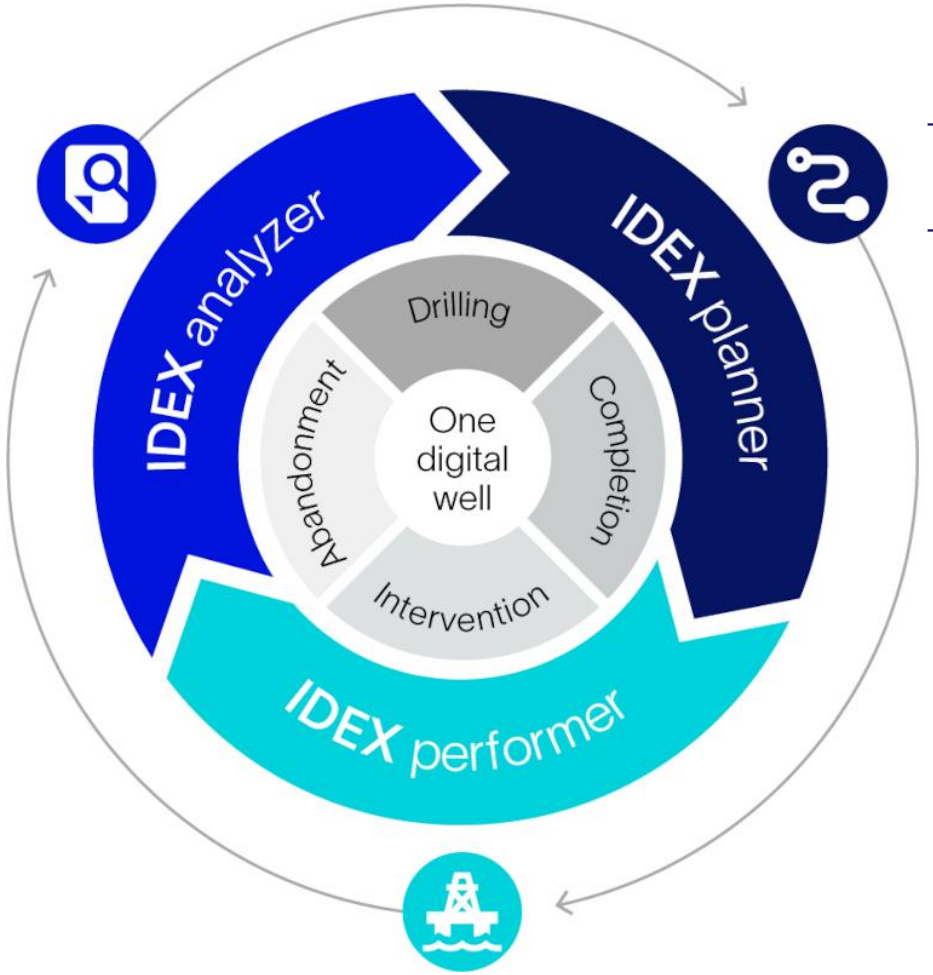


- → Evaluate the 13 3/8″ B-annulus (cement behind the outer pipe) **without removing** the inner 9 5/8″ production casing
- → 9 5/8″ casing was cut at a shallower section and successfully removed
- → Two wells P&A. **42 days rig time savings**
- → **670** metric tons of CO_2e
- → Future opportunity for rigless P&A in the field

IDEX™ collaboration platform

- An independent, cloud-based environment
- A single, intuitive platform that integrates planning to operational performance
- Two-way dataflow ensures that corporate data is enriched with knowledge and learnings from every job

- Analysis of performance,
- Tracking of KPIs



- Create detailed operational plan
- Approvals and Manage Change

- Generates work instructions,
- Automates job reporting,
- Captures lessons learned
- Streams real-time data on rigs

P&A with IDEX | Norway



- → **AI Driven**. From Unstructured data to P&A BoD
- → Wellbarrier **plumbing diagram**
- → Govern **every well** under a campaign:
  - Wellbore selection
  - Action tracking
  - Approvals & decision
  - Risk management
  - Scheduling & metrics
  - Lessons learned and continuous improvement
  - Final wells report

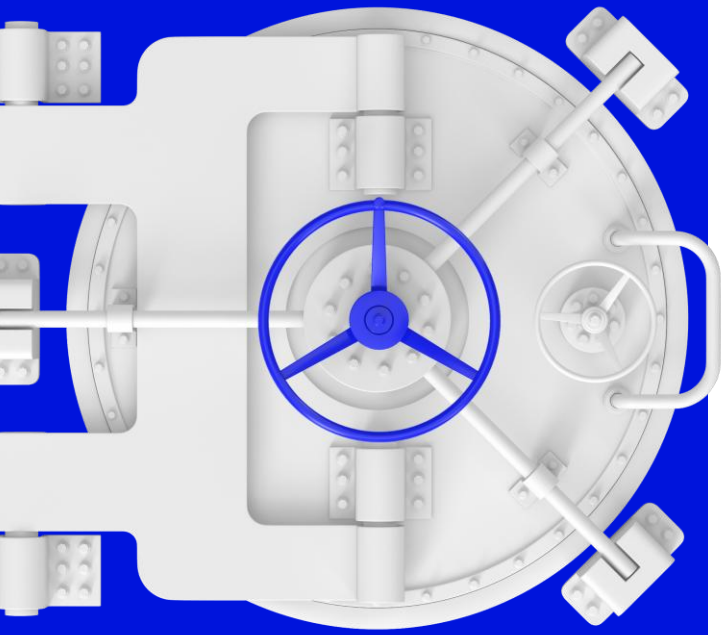
10+ → 1
Applications

↓50%
P&A design time

One standard way of working

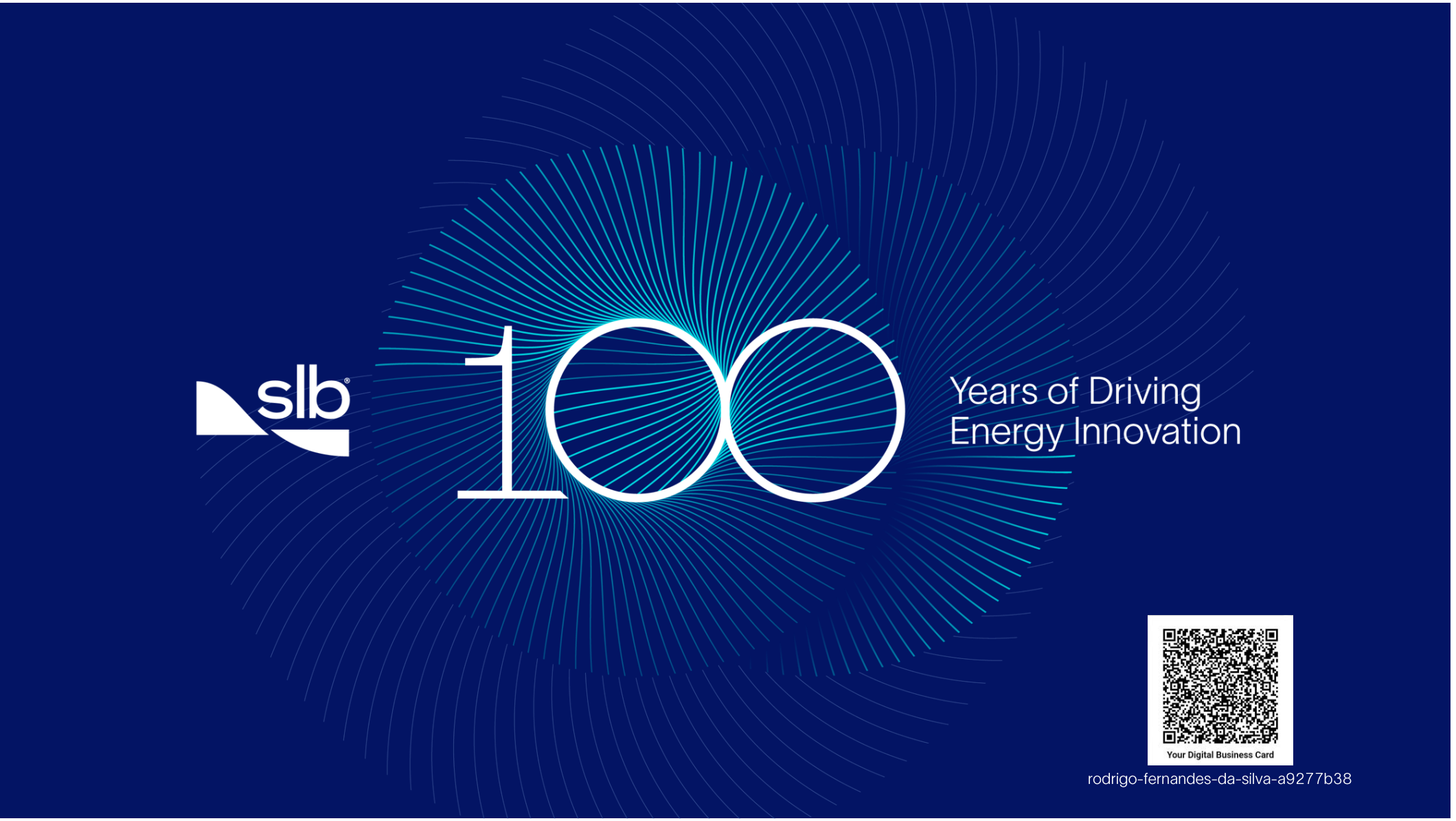
All the information in one place · Every team on the same platform · One standard for P&A

Integrated P&A



Through Innovation, Engineering and Integration SLB is redefining the standards of well abandonment

Maximize efficiency today, minimize well decommissioning liabilities tomorrow.


slb
100
Years of Driving
Energy Innovation
Your Digital Business Card
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