Petrolink
Real Time Operations
Q: Describe the role of Third-party providers

**3rd Party categorization:**

**Data Acquisition**
- chain of custody, calibration, data processing

**Data Aggregation & Integration**
- combining data from sources, standardizing & securing

**Data Analysis**
- process data into actionable information
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3rd Party categorization:
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Petrolink’s role -
- Provide neutral real time infrastructure to collect, manage, aggregate and analyze data during drilling activities.
- Aggregate any number of service provider’s data including results data
- If this is a corporate data store, then this is occurring for any/all active rigs
Q: How do you interface with industry customers
How do you view this relationship?

Data Aggregation & Integration
• Act as an extension of the Operating Company
• Typically contracted by the operator for this infrastructure
• 24x7 staffed for data transfer validation
• May also include additional services such as:
  • Visualization
  • Quality
  • Analysis
  • Reporting
  • Engineering

Petrolink’s role -
• Under contract, collect and secure real-time data
• Work with services providers to ensure data infrastructure is stable
• Ensure that corporate security policies are in place
• Provide access to any number of analytical systems using this information
Q: What about accountability between the Operator and your firm?

Accountability and Coverage:
- The information is property of the Operating Companies
- Managed by the contract
- Driven by drilling objectives
- Constrained by the services available on each job

Petrolink’s role
Ensure that the information produced by the contracts between the services companies and the operating companies is captured and available

Protection of, and access to intellectual property
Q: What level of automation and remote control is appropriate to balance accountability, responsibility, and operational efficiency?

Petrolink’s role -
- Enable systems and human with information they need to make informed decisions
- Standardization (of data formats and content) improves the efficiency of this task

Automation:
Data Acquisition
- Simplify the collection and aggregation of information without loss of contextual information
  (chain of custody, calibration, data processing)

Data Aggregation & Integration
Data Analysis
- Alerts and notification should be consistent at any step in the data flow
Q: Which activities could real-time monitoring supplement or replace?

**Supplementing activities with RT monitoring:**

**Barriers -**
- Accurate and timely information
- Confidence in the information
- Predictability in structure and format
- Complete enough for digital analysis without human intervention

**Petrolink’s role -**
- Utilize and participate in industry standardization to eliminate inefficiencies in the availability of information
- Under direction of Service Providers & Operating companies, automate repeatable tasks to reduce barriers, inefficiency and errors
- Reduce time spend finding relevant information