

**24.** **HR** **OLAP**  
godišnja konferencija

 **iOLAP**

## Pioneer Natural Resources: The Kitchen Sink

Nick Larsen  
Vice President

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iOLAP



**Nick Larsen**

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Vice President



- 15-YEAR CAREER FOCUSED ON BIG DATA, ANALYTICS, MODERN APP DEV, AND CLOUD
- STUDIED AT THE UNIVERSITY OF NORTH TEXAS: MANAGEMENT INFORMATION SYSTEMS & JAZZ STUDIES
- LIVE IN TEXAS, FATHER TO MAX (9) AND HUSBAND TO JENNIFER (15 YEARS!)
- PASSION FOR SPORTS, CARS, MUSIC, AND GEEKERY

- **Big Data, Analytics, and Systems Integration professional services**

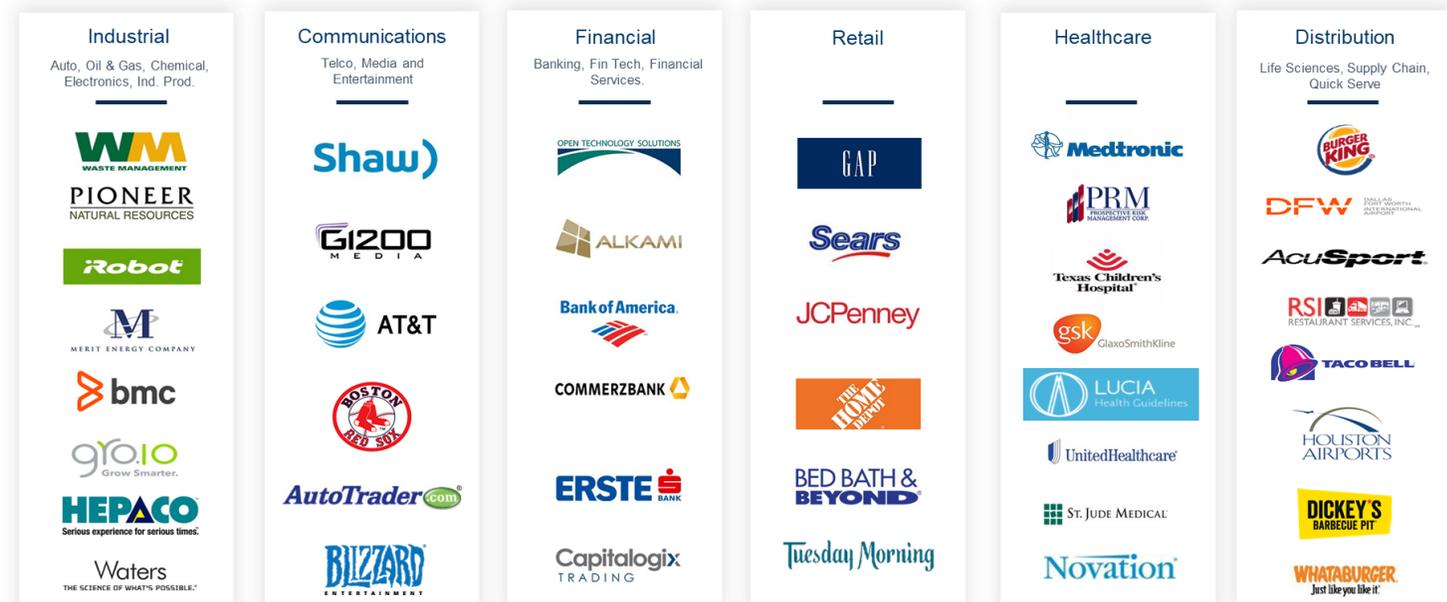
- Strategy
- Implementation
- Managed services

- **Founded in 1999 in Frisco, TX**

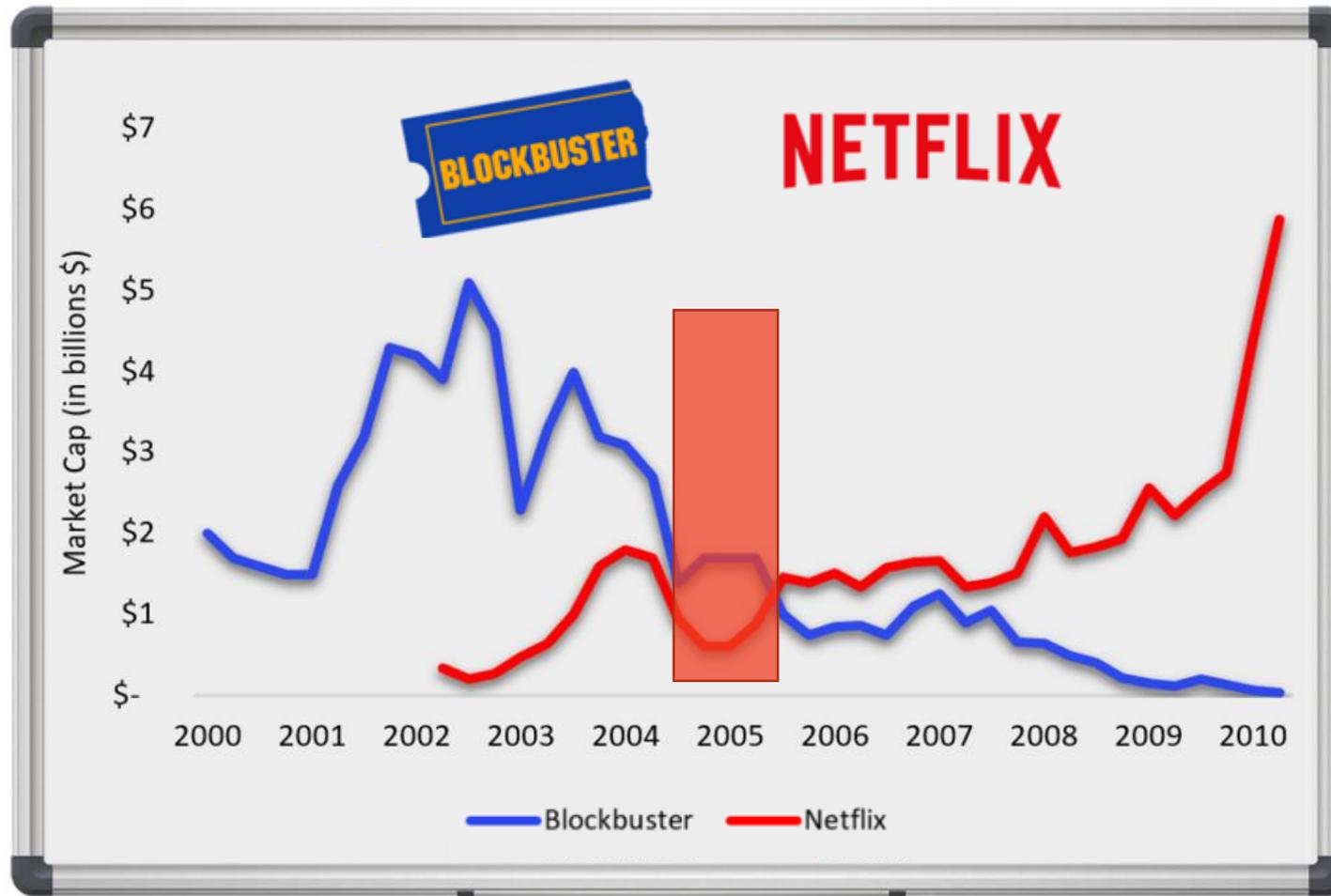
- **50 U.S. employees & 140 in Rijeka**

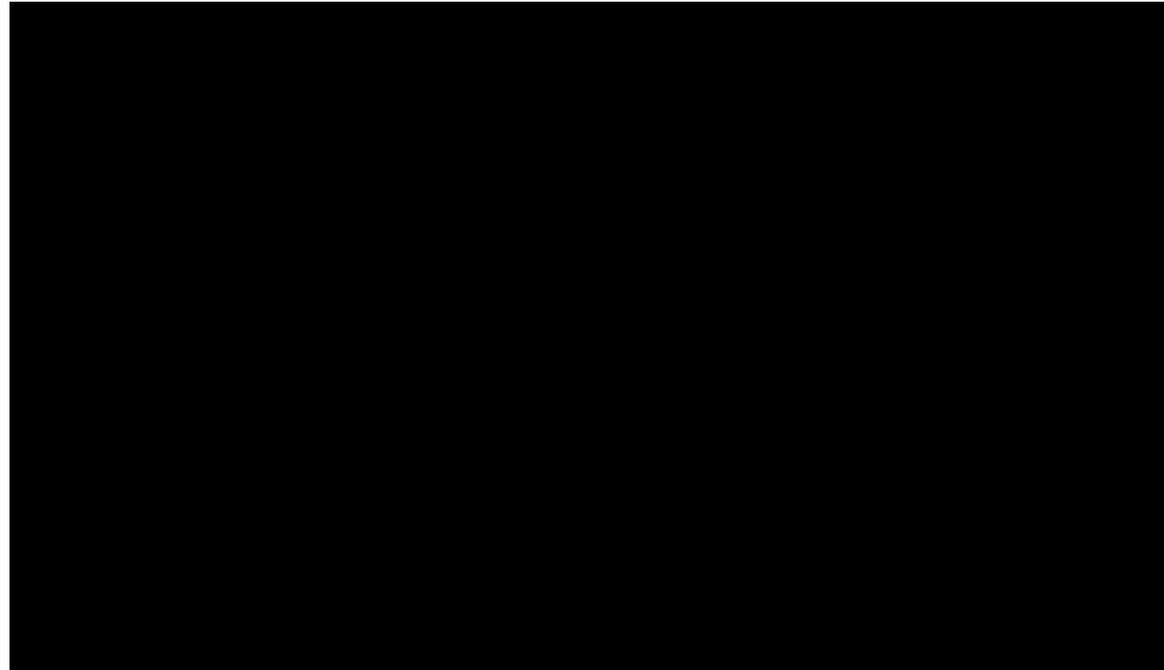
- **Broad yet focused technical expertise**

- Cloud: AWS, Microsoft, IBM
- Databases: Oracle, SQL Server, IBM DB2/Netezza/WoC, Redshift, Snowflake, Teradata, HANA
- Analytics: OBIEE, Microstrategy, Tableau, PowerBI, Spotfire, Cognos
- Big Data: Cloudera, Hortonworks, etc.
- Data Integration: Talend, SSIS, Informatica, Datastage, ODI, etc.
- Modern apps: Javascript, Python, Containers, etc.



# THE START OF MY ORACLE JOURNEY





### WHAT THEY DO

Oil and gas exploration  
primarily in Texas

### OUTCOMES

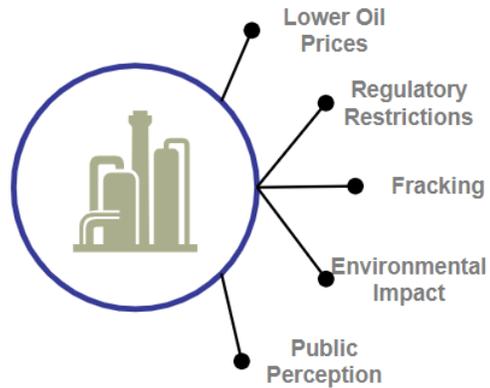
300,000+ barrels of oil  
equivalent daily

### REVENUES

\$9.5 billion USD

- Pioneer recently embarked on a multi-year program implementing Oracle EBS to streamline processes across every business unit and functional area
- Pioneer users needed a richer data set than BI Apps OOTB augmented with production, active operations, safety incidents, and realized pricing metrics
- User analytics maturity ranged from dashboard consumers to data scientists and the technical solution required a best in breed architecture

## Market Pressures



## Key Business Issues

### Decreasing margins



Predict the effects of price fluctuations on operations and provide insight into factors that influence prices

### Evolving technologies



Evaluate drilling locations and plan schedules to help lower production costs and increase productivity

### Increasing uncertainty & risk



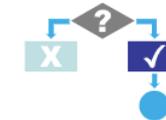
Identify high-risk employees by comparing their behaviors and working conditions with lower-risk workers

### Operations efficiency



Prioritize replacement or preventive maintenance before a breakdown occurs

### Complex supply chain

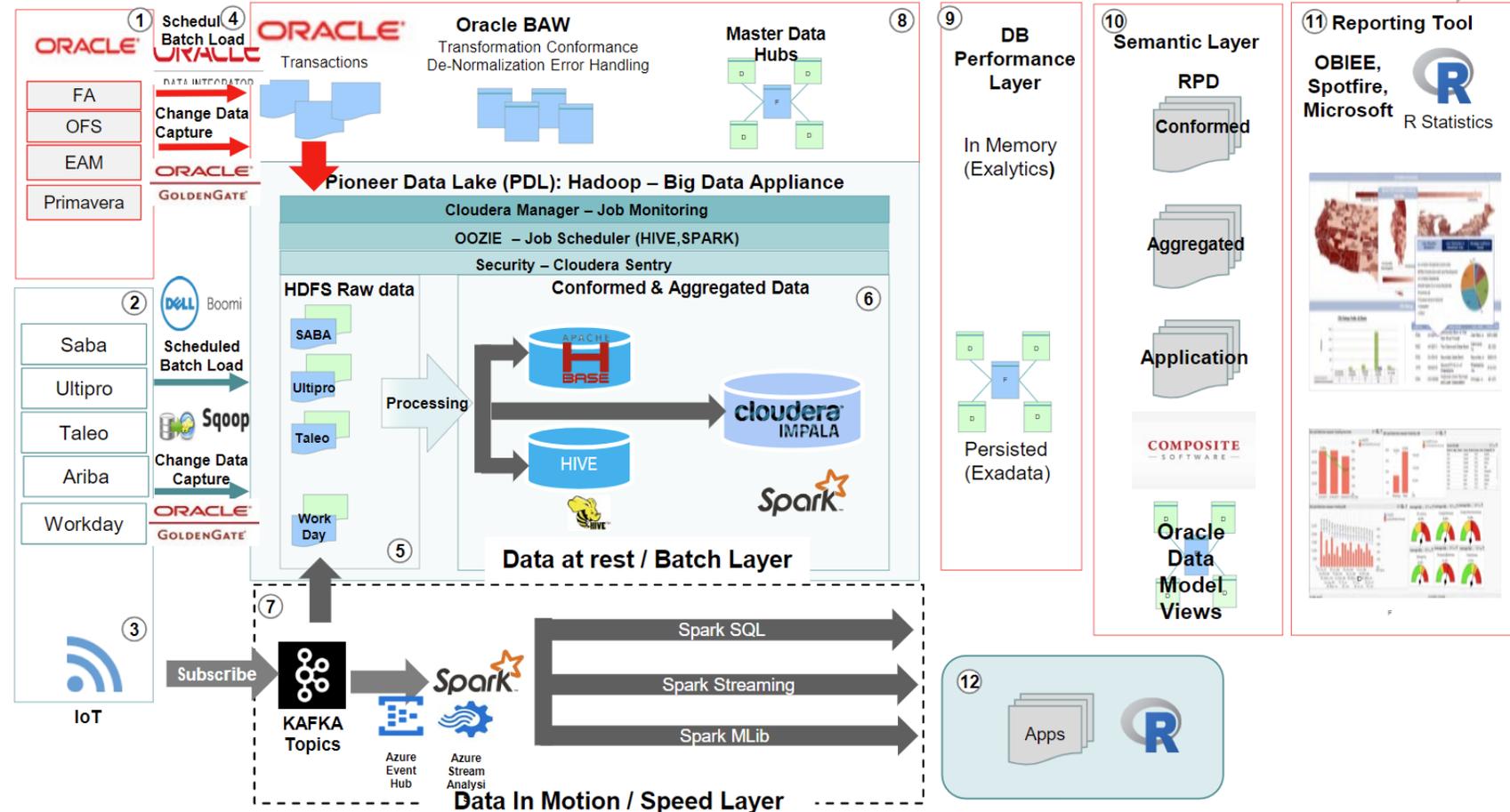


Identify which vendors are more likely to be reliable and cost efficient

- **Position PXD for the future**
- **Deliver value more efficiently and effectively**
- **Drive down costs**
- **Comply with data management leading practices**
- **Do no harm**
- **Engage all users**

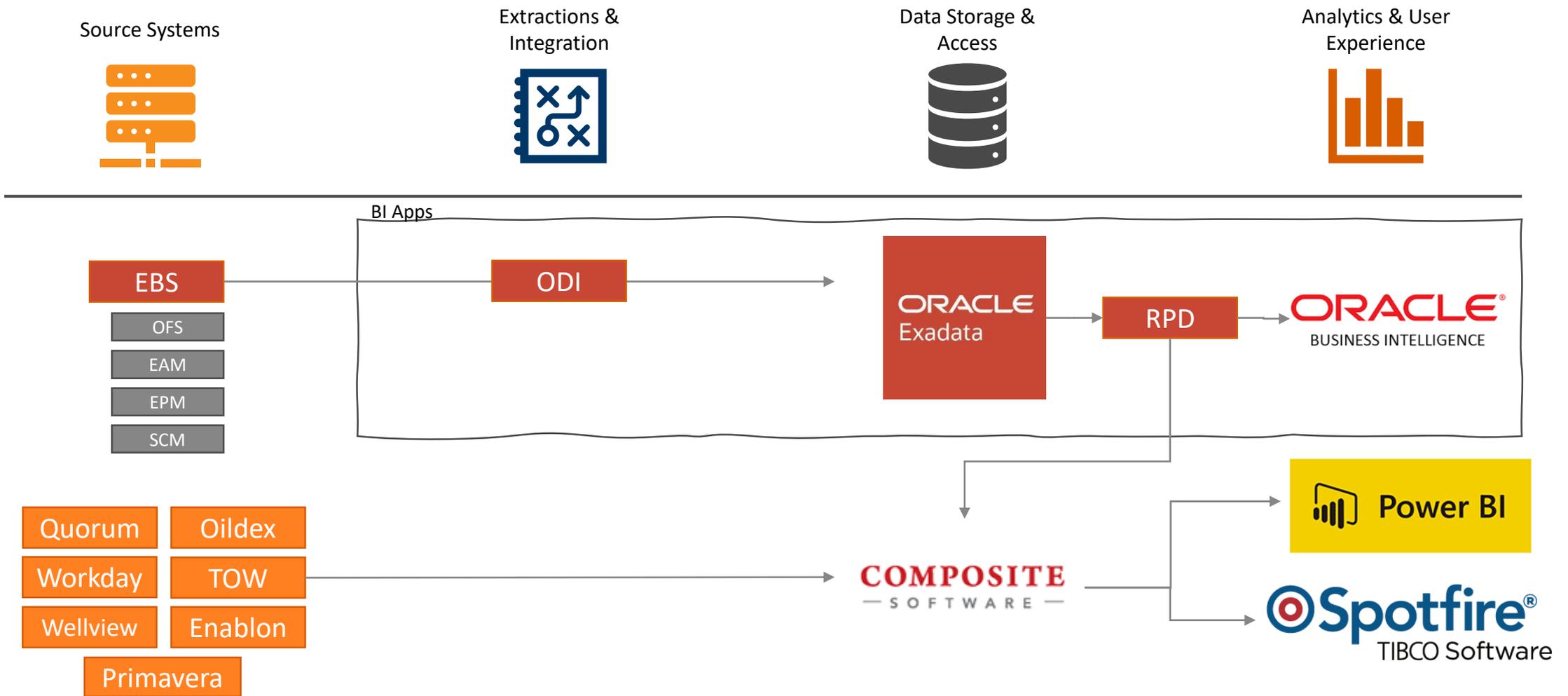
# INCUMBENT ARCHITECTURAL RECOMMENDATION

- ✓ Position PXD for the future
- ✗ Deliver value more efficiently and effectively
- ✗ Drive down costs
- ✗ Comply with data management leading practices
- ✓ Do no harm
- ✓ Engage all users



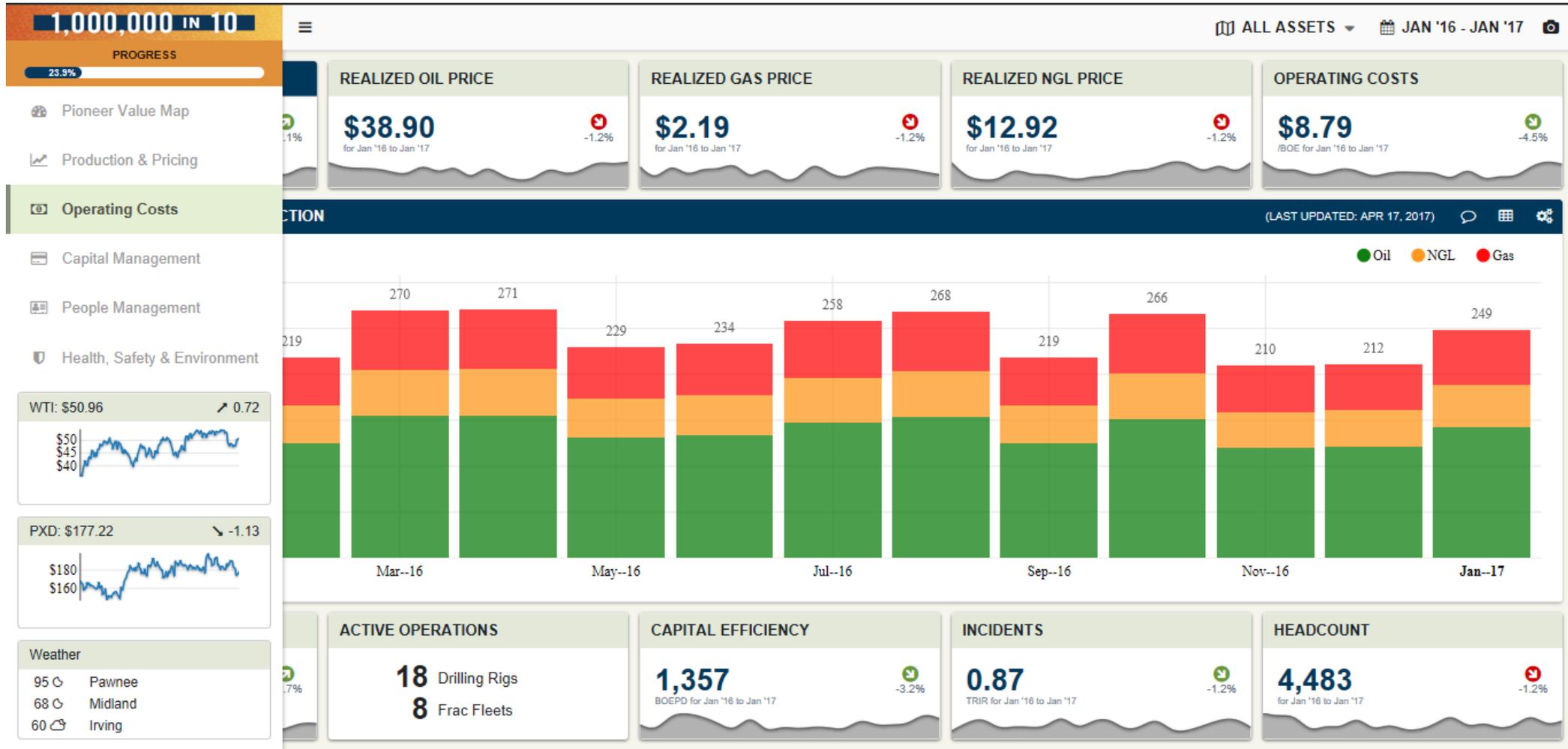
# ARCHITECTURE WORKSTREAMS

## Decision Points



# EXAMPLE DASHBOARD

Non OBIEE



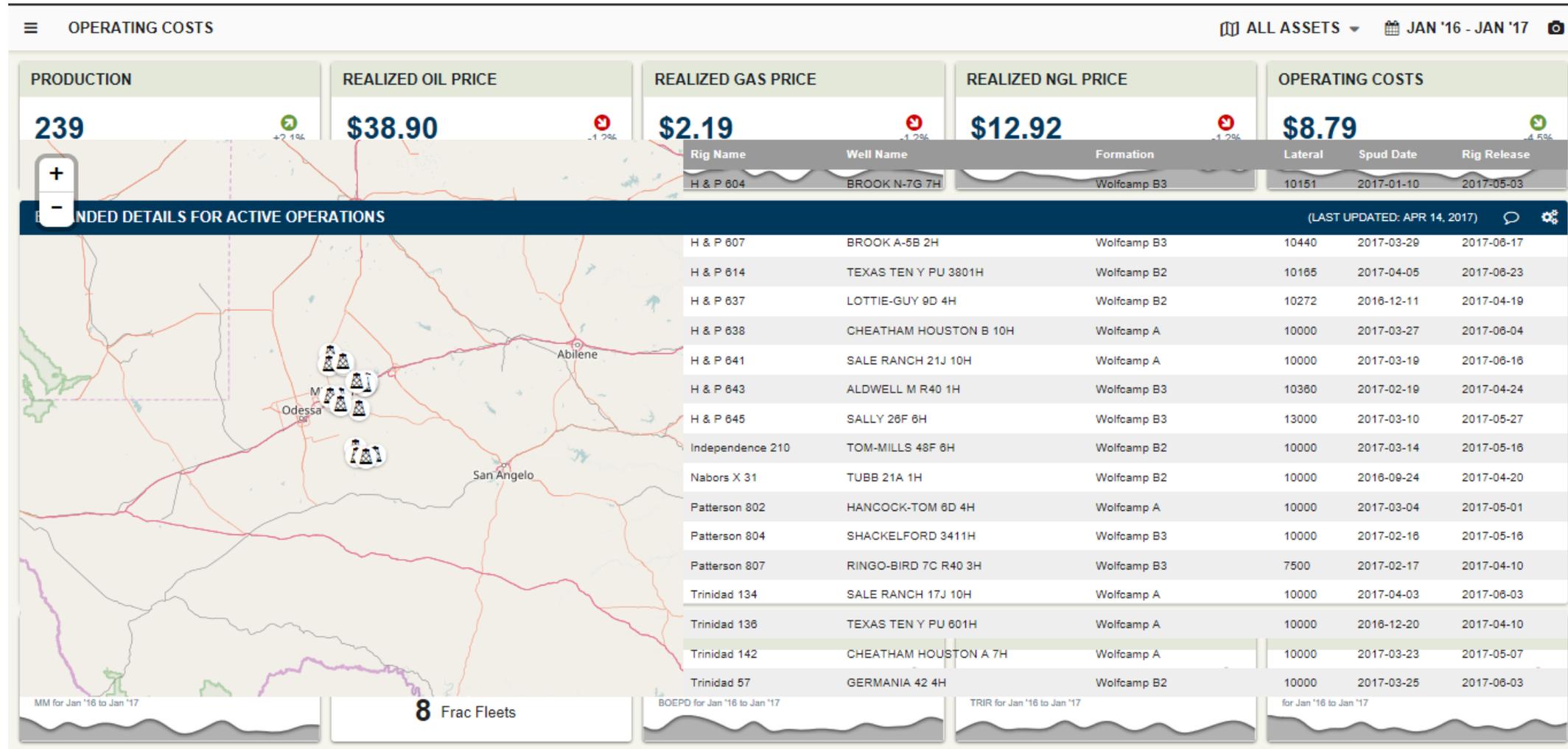
# EXAMPLE DASHBOARD

Non OBIEE



# EXAMPLE DASHBOARD

Non OBIEE



- **F&A data latency**
- **HR row level security**
- **Governance and guidelines for reporting tool selection; where do I go to find the data?**
- **Speed to market for ad-hoc and transactional data (not yet in the EDW)**
- **Data stewards and SME's by functional area**

- Oracle provides an incredible ecosystem of technology and business value...
- Oracle breaks...
- Oracle works...
- There is no perfect architecture; avoid the kitchen sink

**Thank You!**