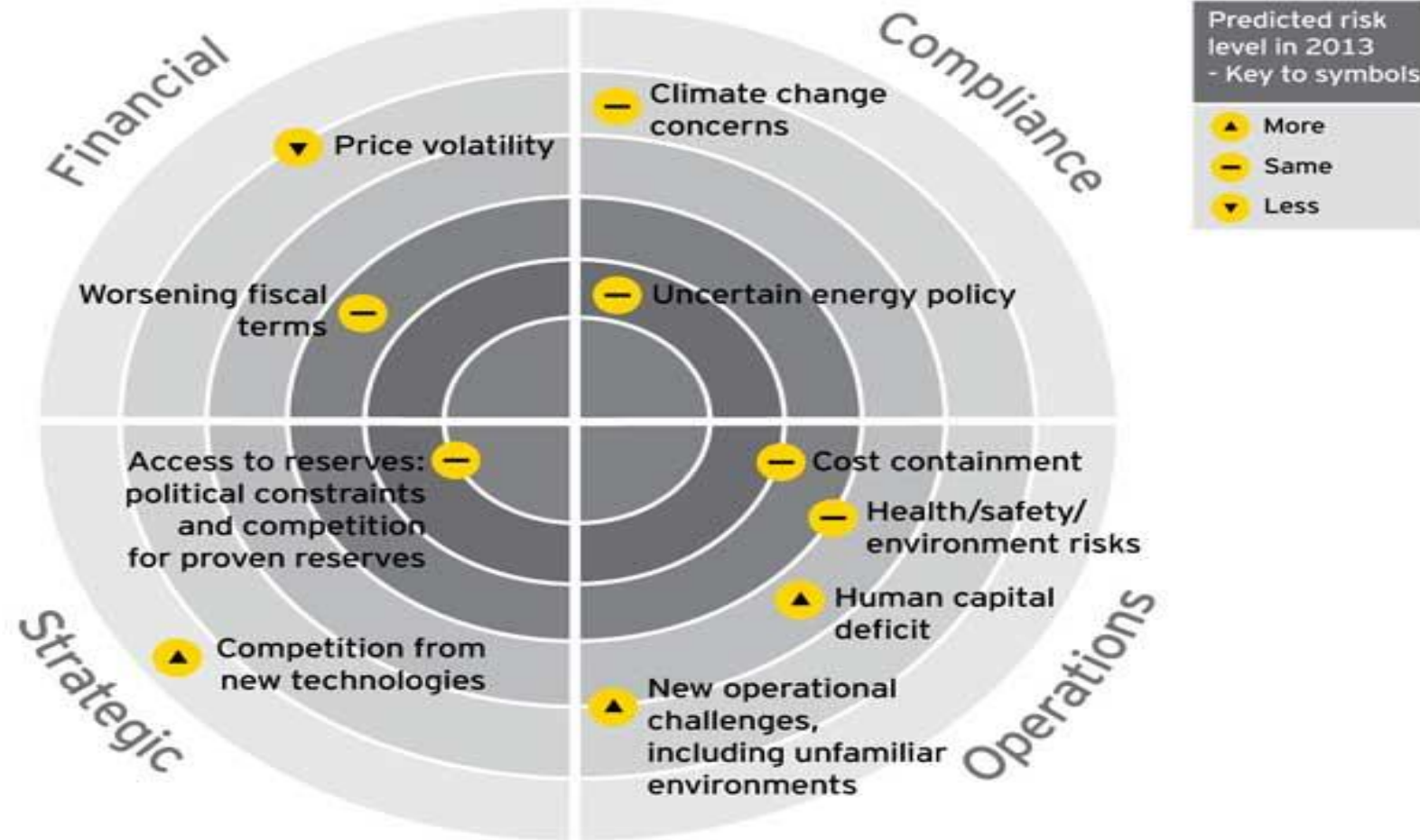


OIL & GAS INDUSTRY CHALLENGES

CHALLENGES

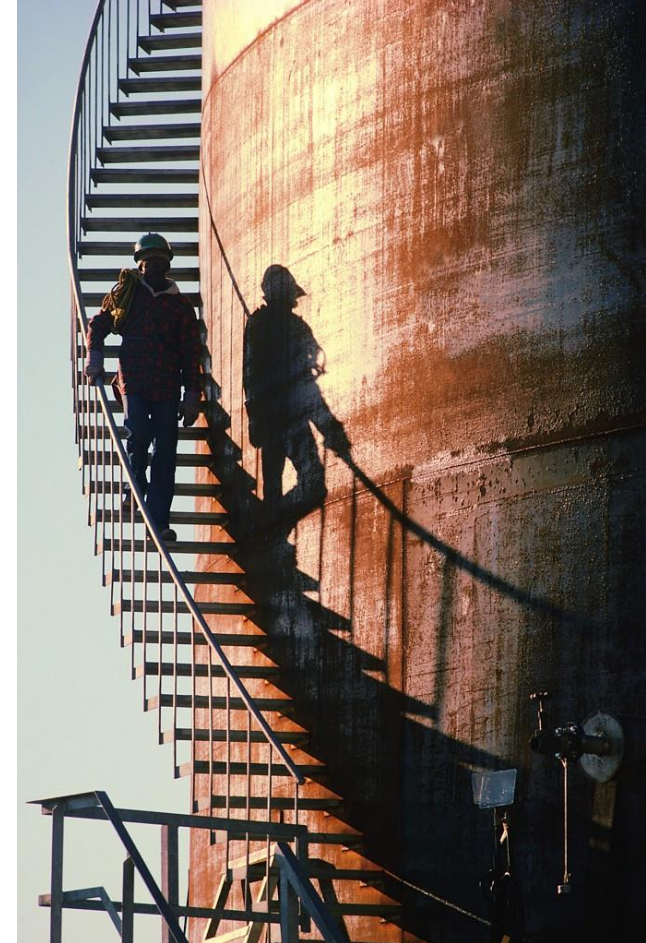


Challenges in oil & gas industry



OIL & GAS INDUSTRY CHALLENGES

- In a dynamic operating environment, daily operational decisions can have significant and immediate impact on profitability, debt and cash flow.
- Changing commodity markets can dramatically affect performance.
- Significant capital requirements require ongoing evaluation of existing and potential opportunities.
- Integrate operational systems and data into planning systems to allow the organization to proactively respond to changing operating conditions.
- Quickly assess new opportunities.



OIL & GAS INDUSTRY CHALLENGES

- Predict and manage risk
- Reduce project complexity through interactive dashboards
- Control and manage project portfolios in real time
- Manage project change and quickly resolve issues
- Improve collaboration
- Implement earned-value management
- Control contracts and documents



BIG DATA IN ACTION IN OIL & GAS

BIG DATA IN ACTION IN OIL&GAS



SOURCE OF BIG DATA

SOURCES OF BIG DATA GROWTH



More Data with More Complex Relationships...in Real Time and At Scale
To manage, govern and analyze

THROUGH ANALYTICS WHAT CAN BE DONE?

- Capture real-time, accurate performance and maintenance data at the point of occurrence: platform, rig or field.



Put this information into the hands of decision makers immediately- while it is still relevant.

Determine the “hot spot” for ensuring safety, achieving planned productivity and minimize cost of operations for predicable performance.



CRITICAL EXPECTATIONS FROM DATA ANALYTICS



- ❑ The key to finding the 'hot spot' proactively around safety, productivity and cost:

Tracking data in real time and generating alerts

Predict the risk based on past performance

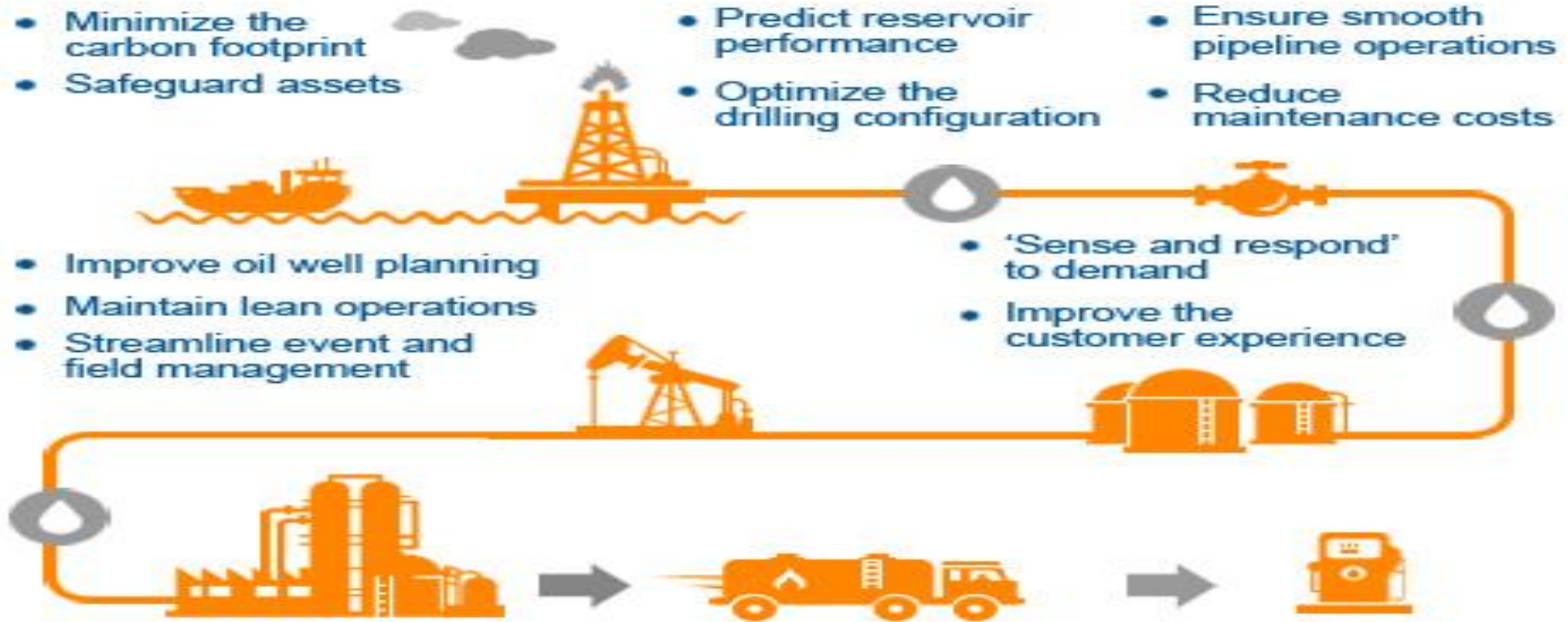
Prescribe corrective actions with actionable insights

Utilise dynamic optimization for improved yield and quality

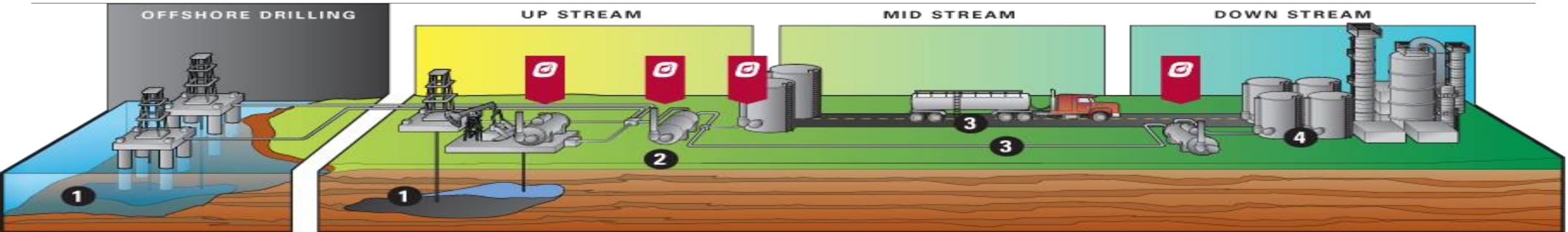
Cross-functional visibility for early warning and mitigative actions

- ❑ In typical industry the people, process and technology are well aligned to achieve proactive decision making hence alignment is a critical need.
- ❑ The most of the oil and gas companies still relying on spreadsheets or paper-based systems for tracking and controlling their performance which needs to be enhanced for dynamic risk management.

Major focus in the value chain



Focused scenarios for analytics



Asset performance	Logistic' s planning	Yield maximization
Predictive maintenance	Opportunity loss reduction	Quality loss reduction
Production forecasting	Inventory optimisation	Lower safety / environmental incidents
Dynamic risk analysis	Demand planning	Cost reduction

THANK YOU.