



**ENGINEERED
FOR INNOVATION**



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High Performance Data Management

The Impact on Oil & Gas Integrated Operations

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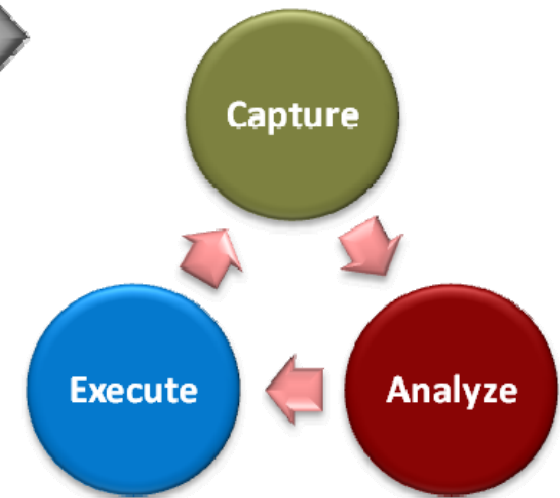
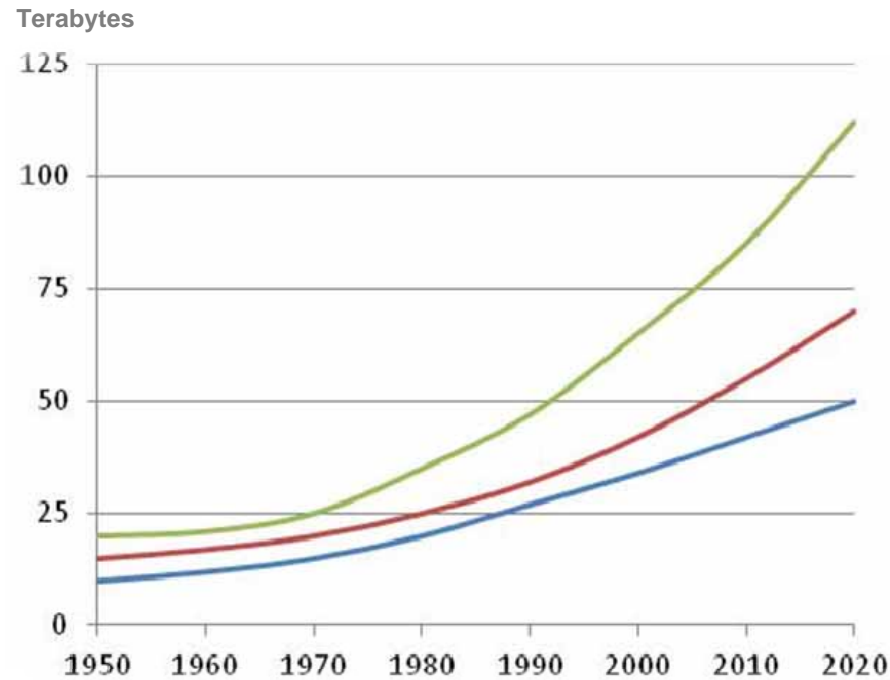


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OIL AND GAS

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.



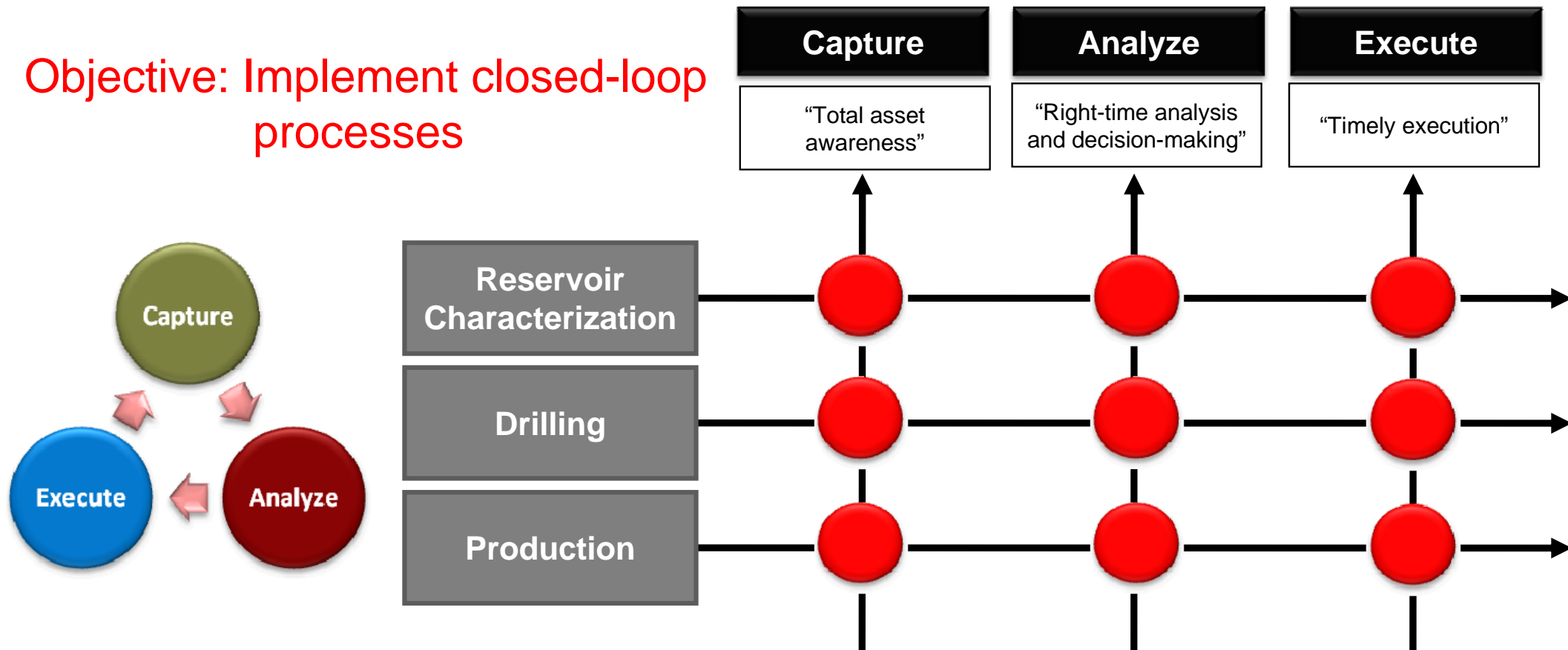
The Impact of Big Data on Integrated Operations



Closing the Loop Between *Capture*, *Analyze* and *Execute*

The Impact of Big Data on Integrated Operations

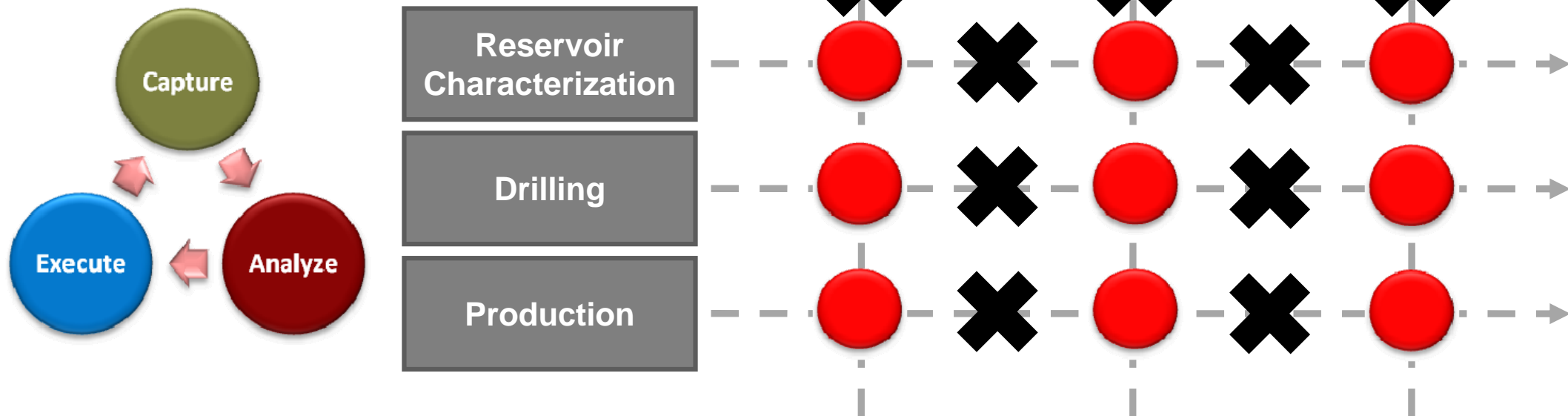
Objective: Implement closed-loop processes



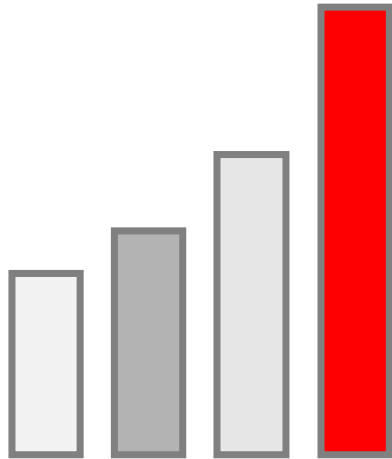
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The Impact of Big Data on Integrated Operations

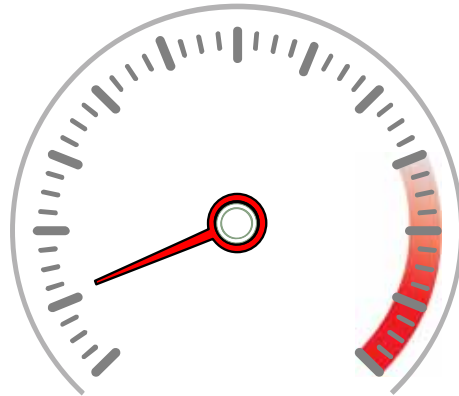
- Where do you start to implement closed-loop processes?



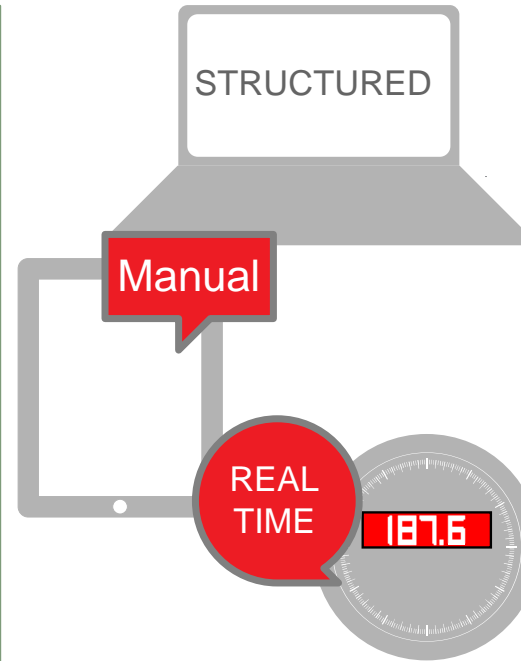
What Makes it **BIG DATA** ?



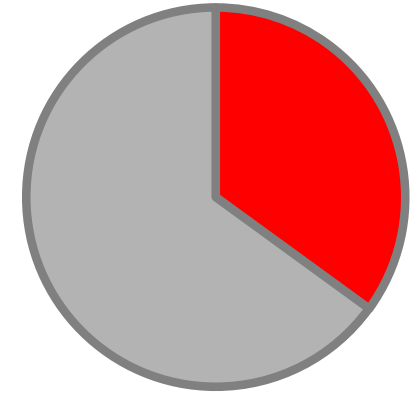
VOLUME



VELOCITY



VARIETY

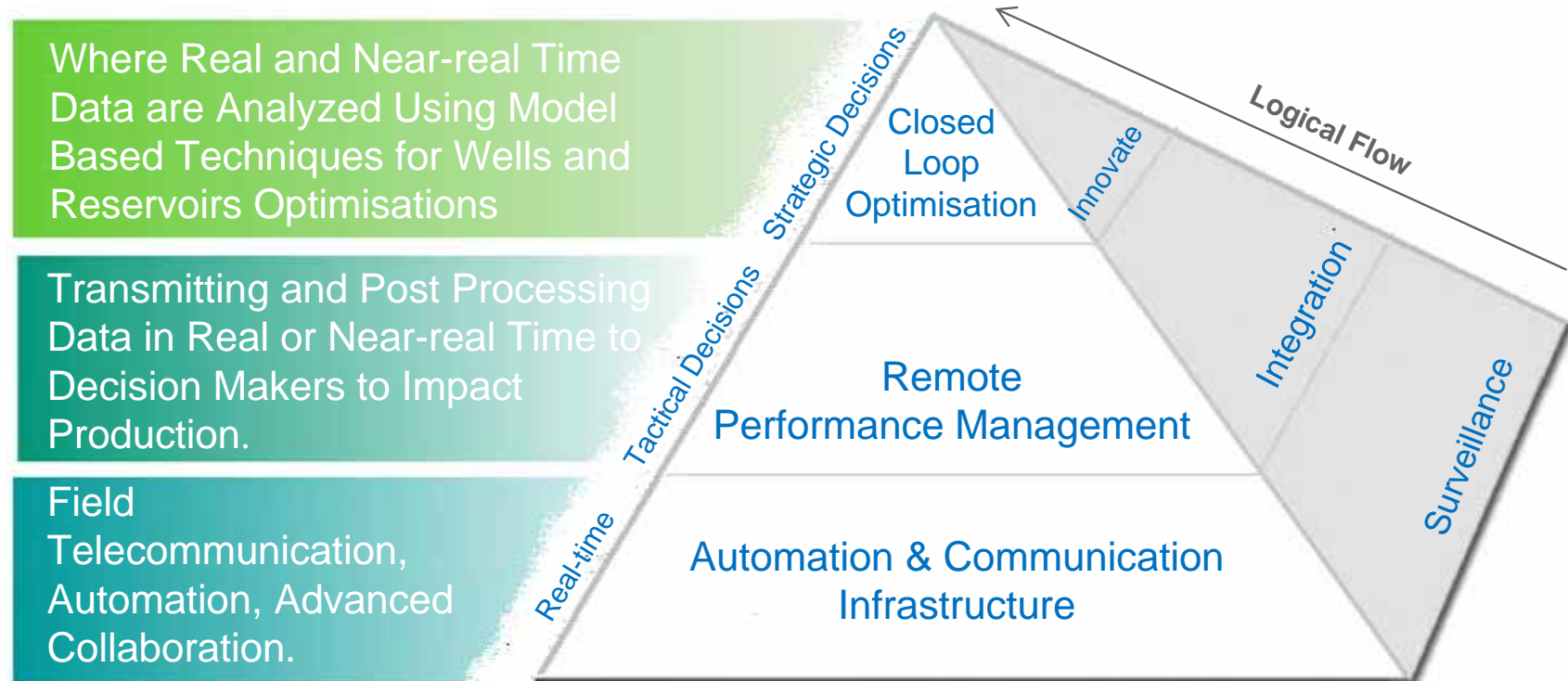


VALUE

Oracle High Performance Data Management

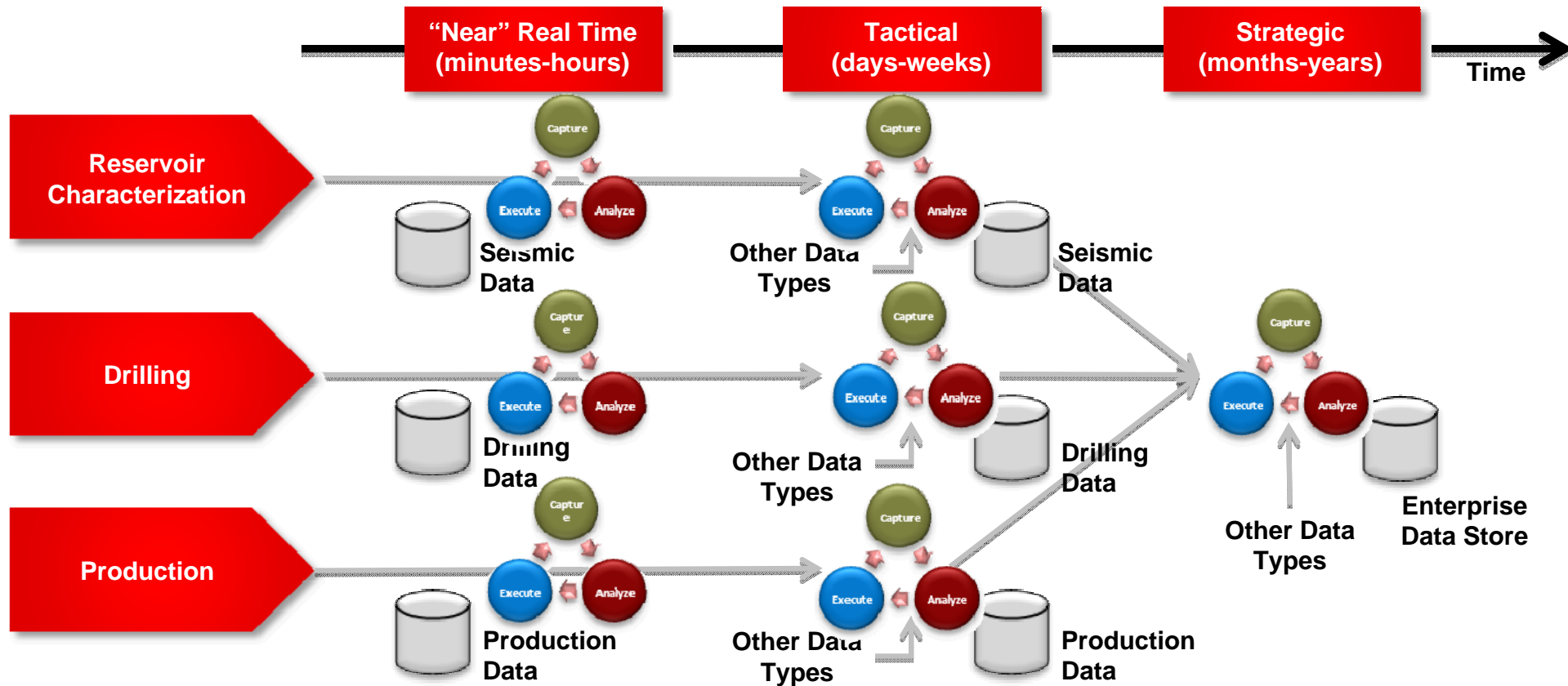
How does it Work?

Back to Basics - The Digital Oil Field Building Blocks



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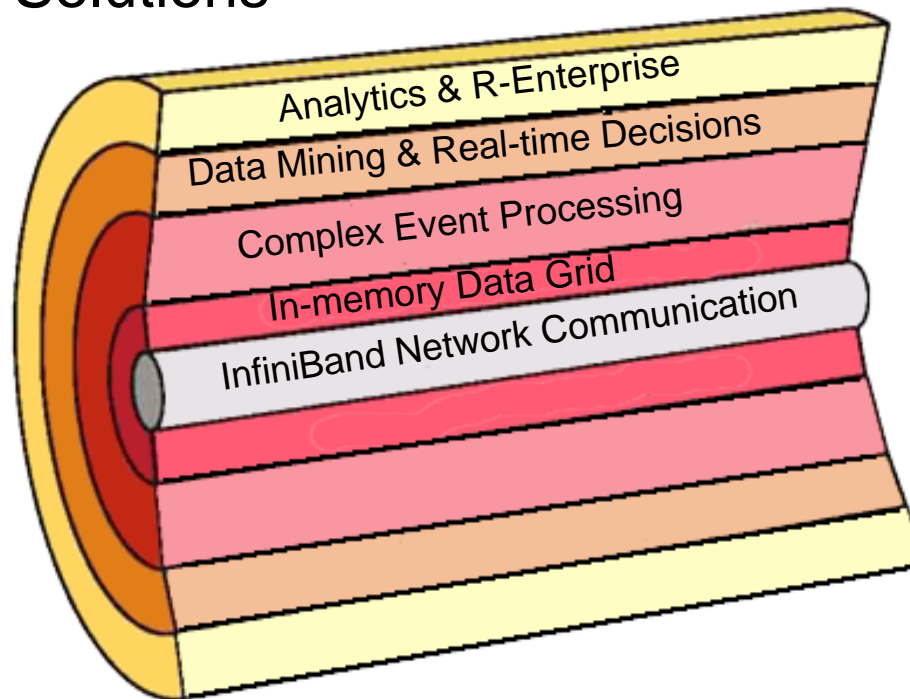
Logical Decision-Making Flow



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Oracle High Performance Data Appliance – Exa*stack

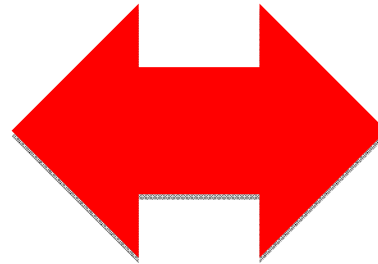
- Oracle Exadata Database Machine
- Servers and Storage Solutions
- NoSQL Database
- Hadoop Capability
- Exalogic Middleware



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Oracle High Performance Data Appliance

**Pre-integrated, optimized Oracle
Database platform**



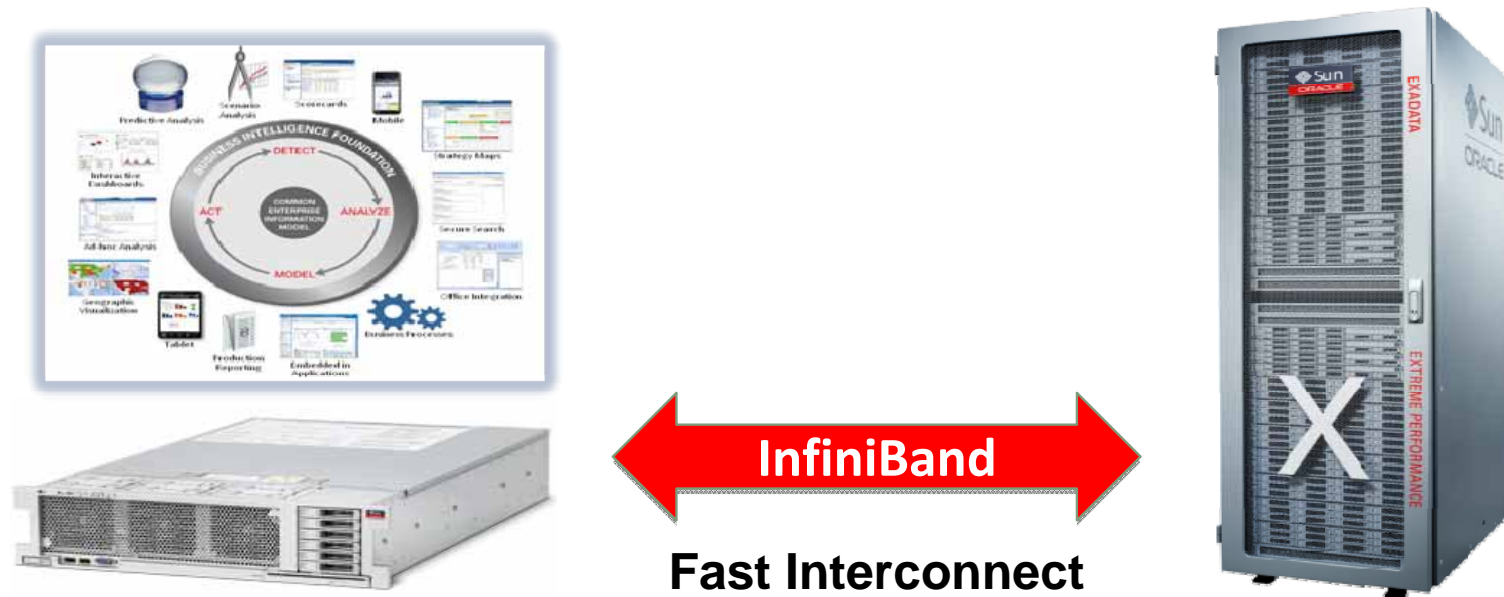
**100's of Components
1000's of Hours**



**1 Machine
1 Day**

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Exalytics – Business Intelligence @ Speed of Thought



- Monitor processes & services in real-time
- Analyze events as they occur
- Event-driven alerts

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Oracle High Performance Data Appliance

Benefits of the Integrated Stack

- Procurement time, cost and risk
- Deployment and manageability
 - Best performance at each layer of the stack
 - Optimization
 - Fast time to market
 - Modular design
 - Low maintenance and high serviceability
 - Consolidation



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Oracle High Performance Data Management

- Oracle **High Performance Data Management** solution ... enables Oil & Gas companies to deploy **closed-loop processes** ... across **Reservoir Characterization, Drilling, Production, Refining** and **Trading** ... in order to make optimal **near real-time, tactical** and **strategic** decisions.



Hardware and Software

ORACLE®

Engineered to Work Together

ORACLE®