



# Opportunities for Energy Services in the Gulf of Guinea

Wil Faubel  
Vice President, Marketing  
Baker Hughes Incorporated

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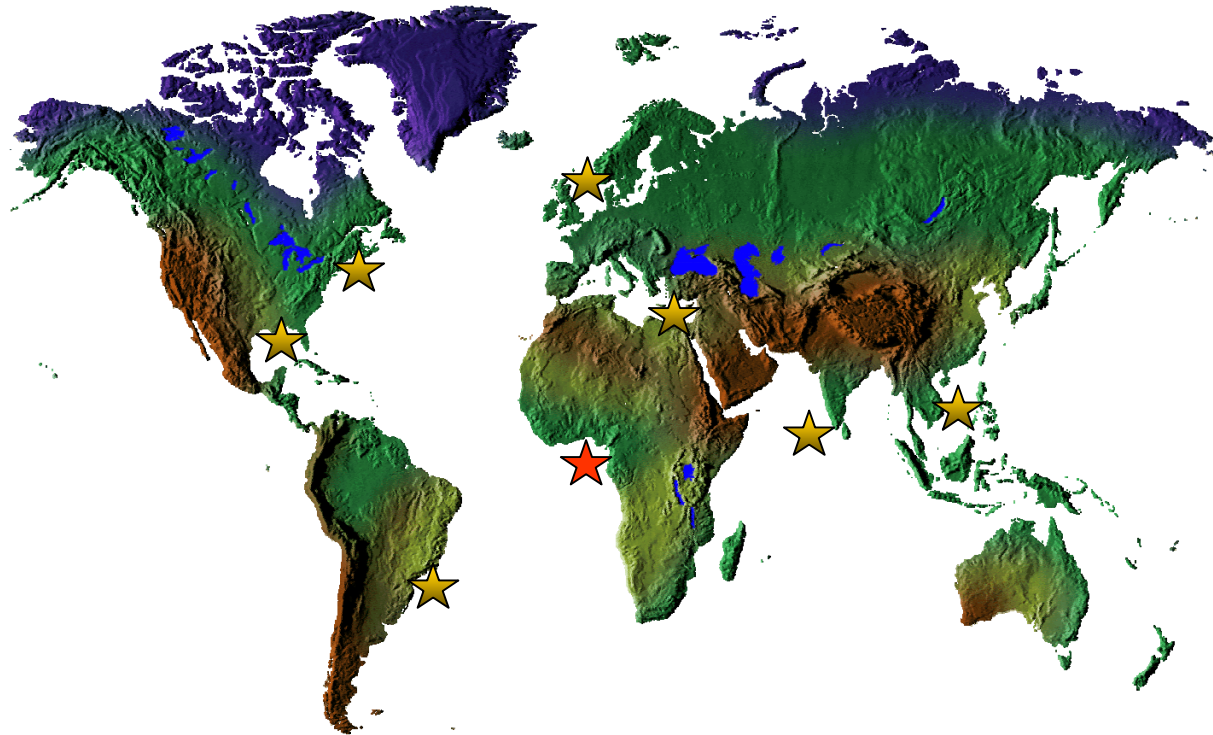


# Service Companies in the Gulf of Guinea

- Why do Business in West Africa?
- Market Drivers and Opportunities
- Technology Requirements
- Operational Challenges
- Commitment to Local Content
- Security, HS&E and Compliance
- Prospects for Growth

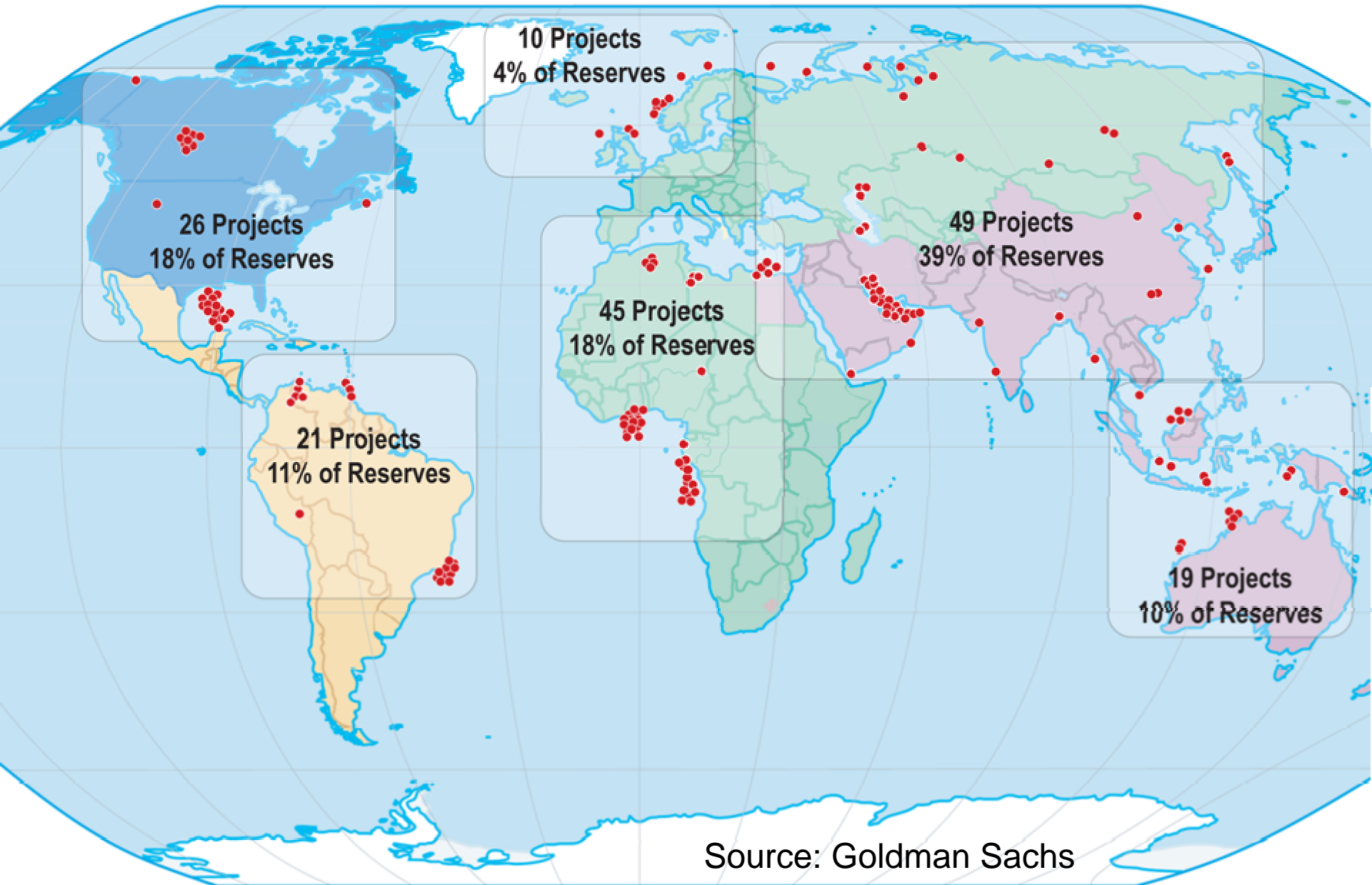
# Why do Business in West Africa?

## Deepwater Prospects

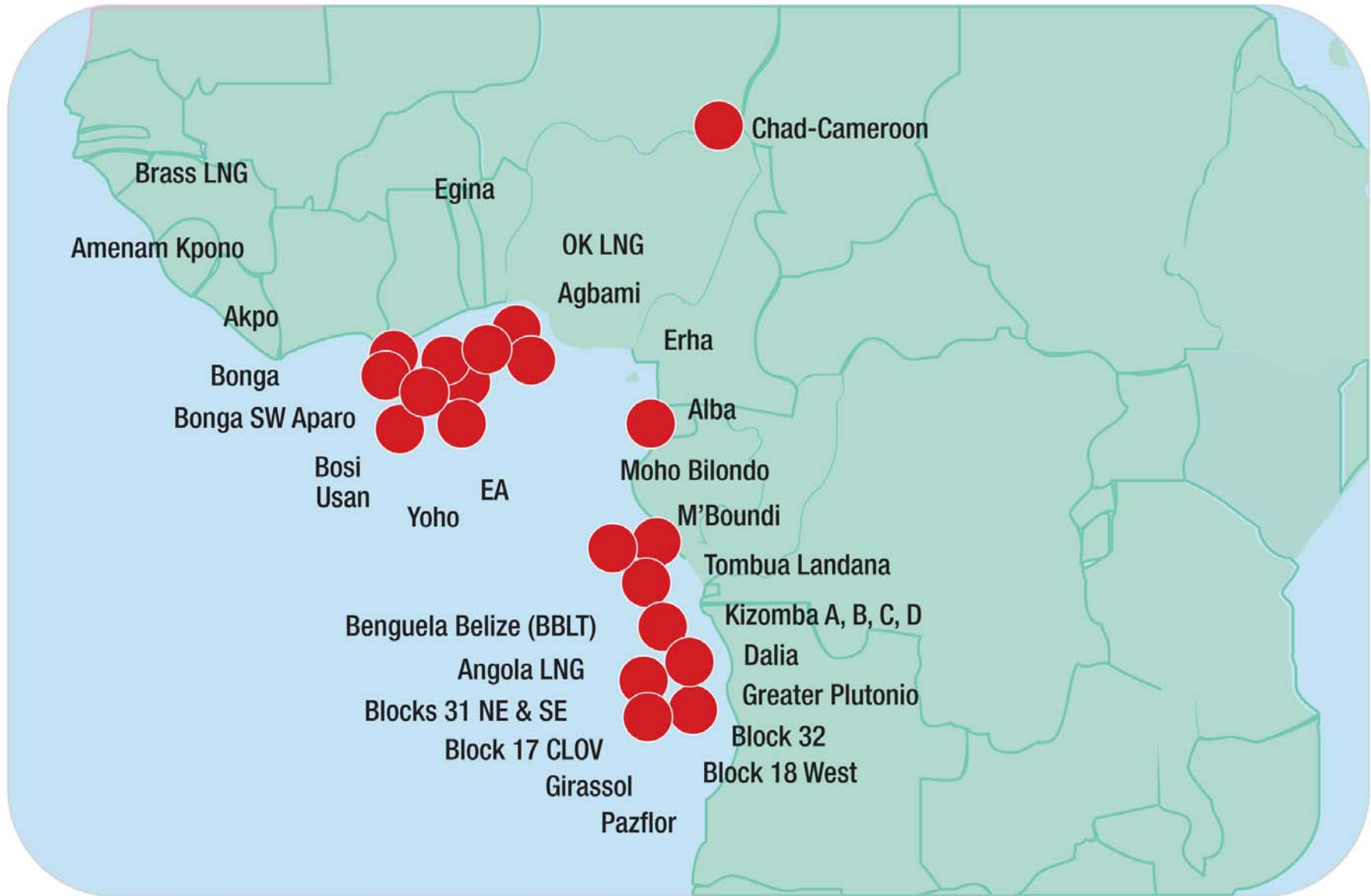


- New Frontier
- “Sister” Deepwater Area
- Accessible Market
- Financially Attractive

# 170 Top Projects

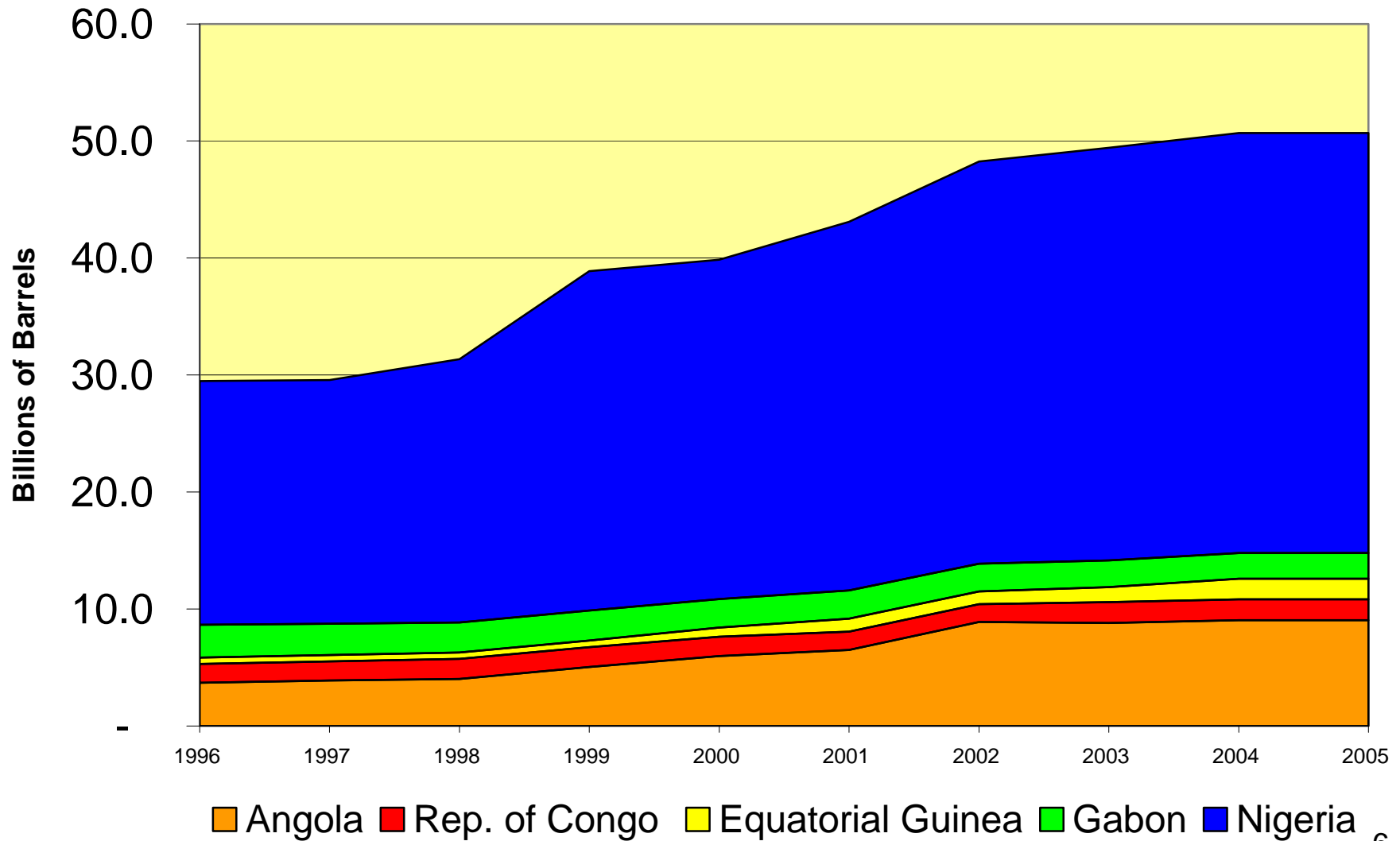


# West Africa Projects

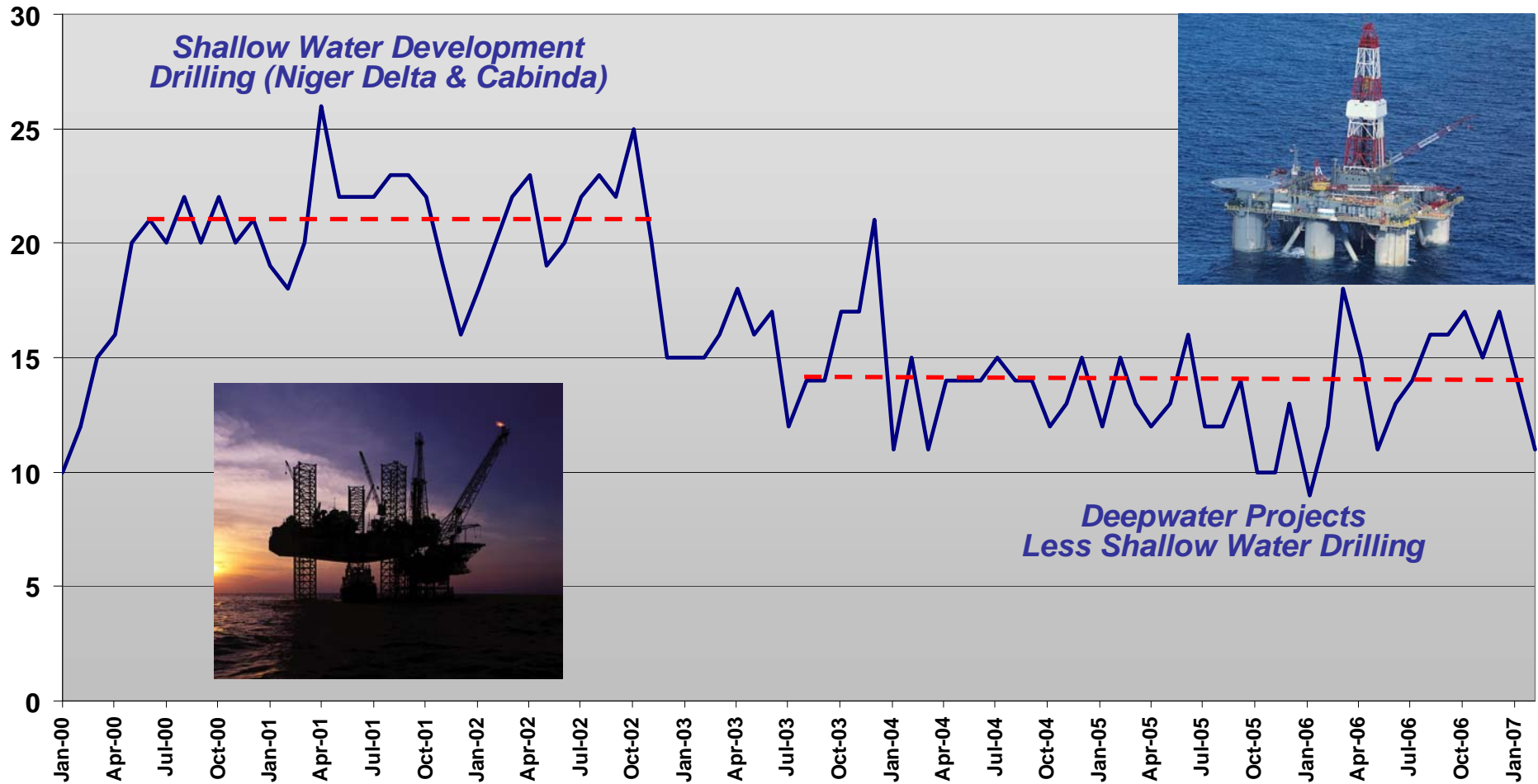


Source: Goldman Sachs

# West Africa Oil Reserves



# West Africa Offshore Rig Count



# Deepwater Technology Requirements

<b>Drilling</b>	<b>Wellbore Stability</b>
	<b>Directional Control/ Well Placement</b>
	<b>Extended Reach Drilling</b>
	<b>Drilling Hazard Mitigation/ Pore Pressure Mgmt</b>
<b>Formation Evaluation</b>	<b>Complex Reservoir Evaluation</b>
	<b>Reservoir Fluid Characteristics</b>
<b>Completion</b>	<b>Upper Completions</b>
	<b>Sand Control Completions</b>
<b>Production</b>	<b>Subsea Artificial Lift</b>
	<b>Flow Assurance</b>
	<b>Production Optimization</b>





# Deepwater Technology



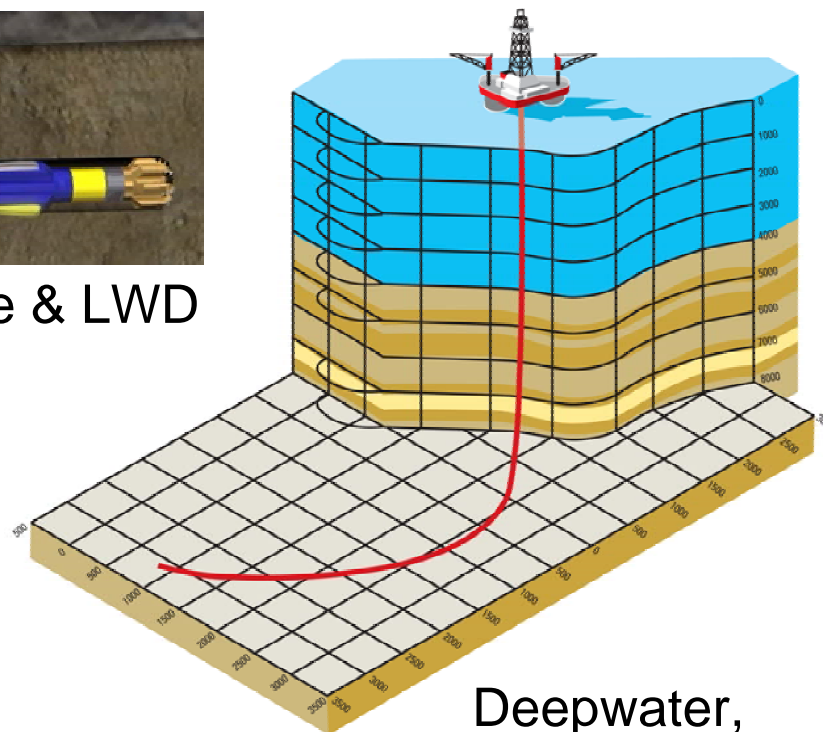
Sampling & Testing



Modular Stimulation Vessel



Rotary Steerable & LWD



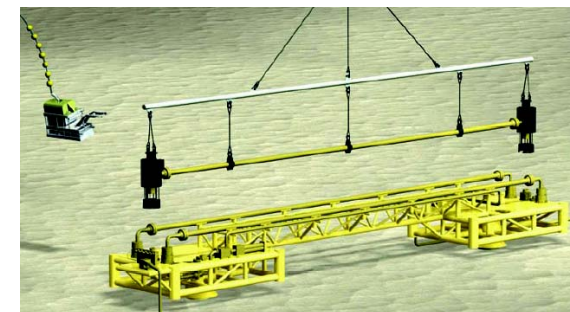
Deepwater, ERD Wells



Flow Assurance



PDC Drill Bits



Subsea Booster Pumps

# Operational Challenges



- Logistics
- Facilities
- Quality Control
- Staffing



# Commitment to Local Content

- Infrastructure
- Employees
- Suppliers
- Community Involvement



# Security, HS&E and Compliance



Remote Advisory Center



# Prospects for Growth

- New Frontier
  - Deepwater
  - Gas
- Local Content & Infrastructure





Questions?

