

**Assurance Process** 

**Industry Assurance** 

November 2008

### **Assurance**



#### Assurance

 Commenting on BP's "dreadful" Q3 performance, Tony Hayward said "bp needs to shift its culture and take well-judged risks. Assurance is killing us"

### Uncertainty

 There are known knowns...There are known unknowns... There are also unknowns unknowns" (D. Rumsfeld)

### **Best Practice**



## Roles and Responsibilities of EAT



### **Exploration Assurance Team (EAT)**

- Manage overall subsurface assurance process
- Provide independent assessment, assurance, support and guidance for stakeholders
- Provide standardised, balanced and consistent reviews with effective support & challenge
- Ensure technical standards and guidelines are followed
- Provide consistency of subsurface model
  - Volumetric range (uncertainty)
  - Chance of Success estimations (risk)
- Ensure that all recommendations fully reflect the opportunities, risks and uncertainties
- Facilitate knowledge transfer

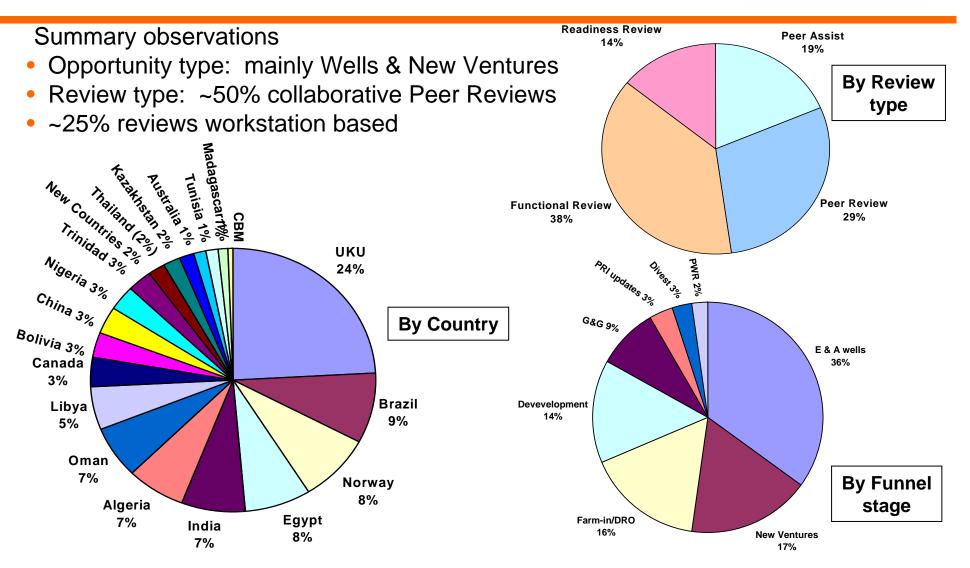
# **Primary Areas for Improvement**



- Planning and scheduling of assurance process
- Move away from reactive, "just-in-time" Functional Reviews
- More <u>technical focus</u>
- Emphasis on "Front-End Loading" (Peer Reviews/Assists)
- Consistent functional reviewers
- Emphasis on multi-functional integration and participation

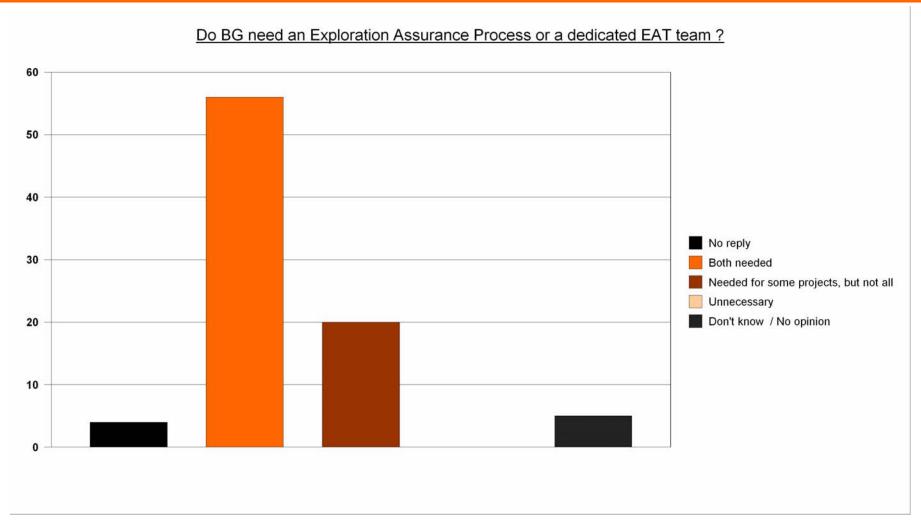
# **EAT Perspective**





# What are we doing right / wrong?





EAT Questionnaire, 11/07

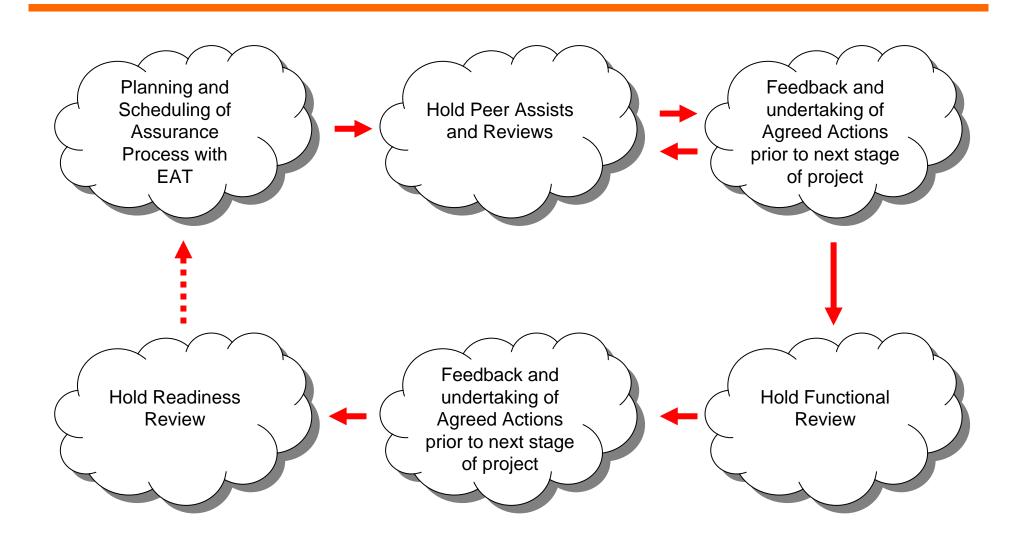
# What are we doing right / wrong?



- 75% believe Exploration Assurance Process is Better
- 78% believe Assurance Adds Value to Project
- 79% believe FEL Adds Significant Value
- 88% believe Peer Reviews/Assists are Effective
- 94% believe Functional Reviews are Effective
- 98% believe Key Risks & Uncertainties were Identified
- 89% believe there is Right Balance Between Support & Challenge
- 73% believe Combination of PowerPoint & Workstation as Best Medium
- 67% believe Feedback is Fair & Consistent
- 98% believe Written Feedback is Essential & Useful
- 88% believe Asset Visits are Helpful
- 36% have Presented an Opportunity They Did Not Believe had Technical Merit

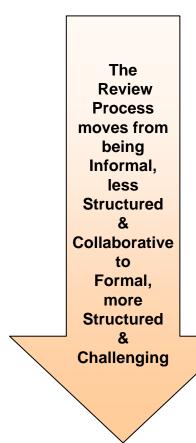
### **EAT Assurance Process**





### **Assurance Process**



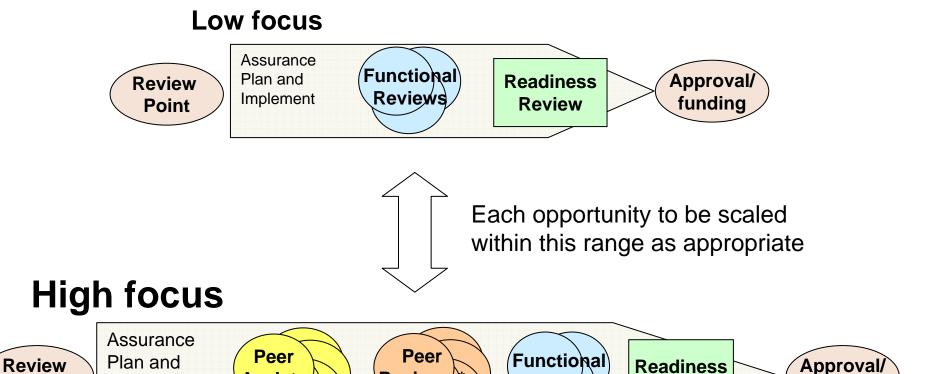


- Peer Assists
  - generates ideas, gives guidance, and shares knowledge
- Peer Reviews
  - confirms work is robust
  - identifies gaps prior to subsequent reviews
- Functional Reviews
  - provides independent assurance
  - summarise recommendations and outlines critical issues
- Readiness Reviews
  - verifies that assurance activities and deliverables are completed
  - considers whether project is ready to proceed to decision point
  - provides project recommendation

# **Configuring the Assurance Process**

Assists,





Reviews \*

Review

\* Or Single Discipline Functional Reviews

**Implement** 

**Point** 

\*\* Recommended to be multi-disciplinary i.e. surface disciplines, subsurface, commercial / legal / tax ...)

Reviews

funding

# **Some Key Measurable Wins**



- Consistent volumetrics estimation
- Consistent Chance of Success / Risking estimation
- Clearly capture the critical risks and uncertainties of project
- Challenge technical team's assumptions
- Emphasis on "Front-End Loading"
- Promote open, honest and quality-driven technical evaluations
- Facilitating Knowledge and Lessons-Learned Transfer
- Providing advice and recommendations to decision-makers

## **Post-Well Reviews**



Best Practice Standard	A formal Post-Well Analysis review shall be held for all BG E&A wells
Objective	<ul> <li>To capture all well results and subsurface Lessons-Learned for BG wells</li> <li>Compile metrics and themes to improve forecasting and portfolio management</li> </ul>
Value	<ul> <li>Formalises a process for technical feedback with BG</li> <li>Captures and disseminate lessons-learned</li> <li>Facilitates knowledge sharing</li> <li>Collates data for Portfolio Analysis and assesses prediction accuracy</li> <li>Contributes to improved prospect evaluation, volumetrics, and CoS estimations</li> </ul>
Deliverables	<ul> <li>Completed Post-Well audit data sheet</li> <li>Documented PowerPoint presentation</li> <li>Summary write-up</li> <li>Collation of Lessons Learned</li> <li>Action tracking of pre- vs. post-well results</li> </ul>

# **Improving the Process - Prospect Evaluation**



- Incorporation of regional work into evaluations
- Remove confusion between confidence (data quality / quantity), risk, and uncertainty
- Capture full range in volumetric estimations uncertainty
- Employ PERA guidelines for CoS estimation *risk*
- Closer integration between key disciplines and subsurface specialists

# **EAT Key Messages to Assets**



- Be exploration driven and technically focused do not compromise technical standards
- Challenge assumptions, be they technical or commercial
- (To managers) listen to your technical staff first
- Ensure adequate resources people and TIME are employed in evaluation appropriate balance
- Filter opportunities, and do not look to EAT to "kill" projects
- Focus efforts on key uncertainties and critical risks, and challenge project proposals accordingly
- QC work within your team prior to reviews with EAT
- Share best practices and Lessons Learned with EAT and wider G&G community