



**IADC/SPE
Conference and Exhibition**

4-6 March 2008

Orlando, Florida, USA • Caribe Royale Orlando



Technology – The Key To Finding and Producing Difficult Hydrocarbons

Plenary Session





Technology – The Key To Finding and Producing Difficult Hydrocarbons

- Finding and producing hydrocarbons today have become difficult both technically and economically
- Risk and cost are higher
- Drilling equipment is being tested to its fullest capabilities
- Completion technologies have become more complex
- Need for emerging technologies has never been greater





Technology – The Key To Finding and Producing Difficult Hydrocarbons



Moderator:

Charlie Williams

Chief Scientist, Well
Engineering, Production
Technology

Shell International E&P
Technology



Technology – The Key To Finding and Producing Difficult Hydrocarbons

Panelists:

Hesketh Streeter

VP, Energy Consulting for Latin America, Wood Mackenzie

Gregers Kudsk

VP, Engineering and Projects, Maersk Contractors

Mark Puckett

President, Chevron Energy Technology Company

Derek Mathieson

President and CEO, WellDynamics

Dean Malouta

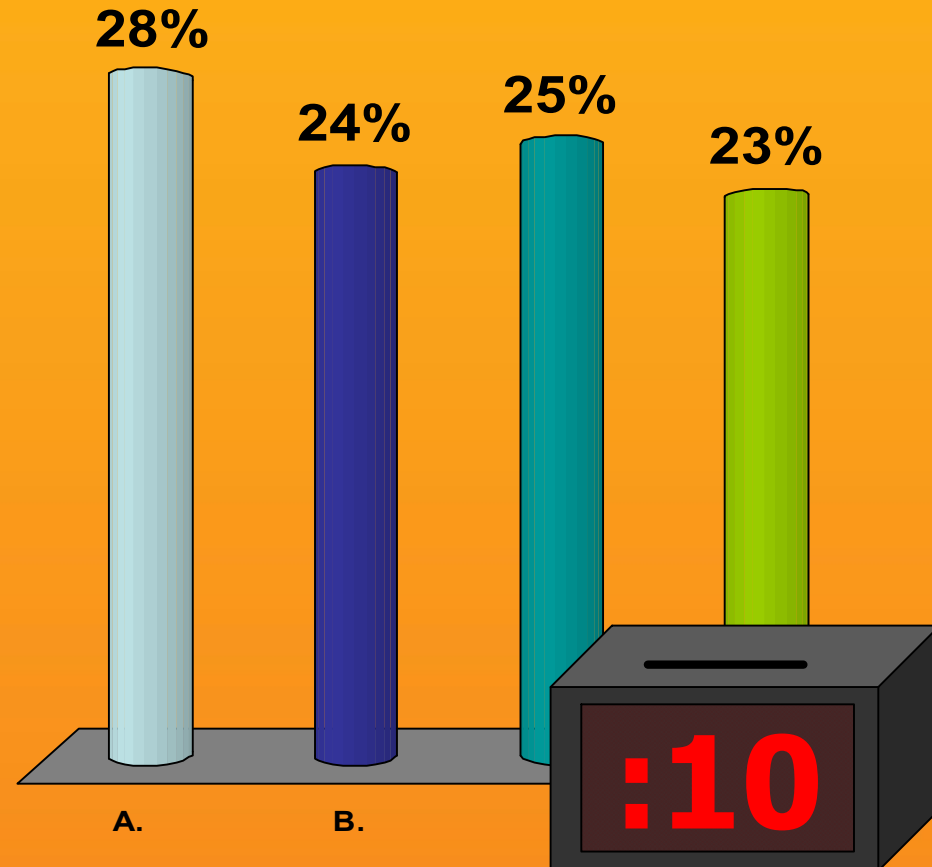
Technology Manager, Shell E&P Americas Region





DO YOU WORK FOR AN:

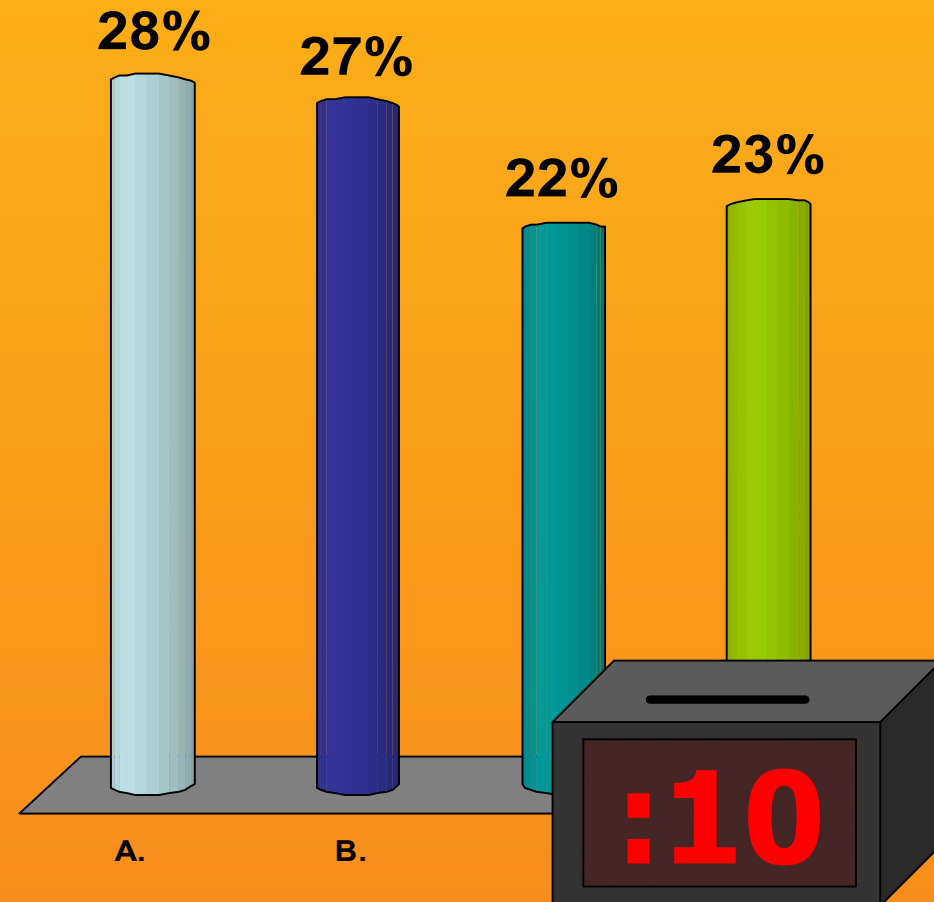
- A. Operator**
- B. Service Company**
- C. Drilling Contractor**
- D. Other**





HOW MANY YEARS IN THE INDUSTRY

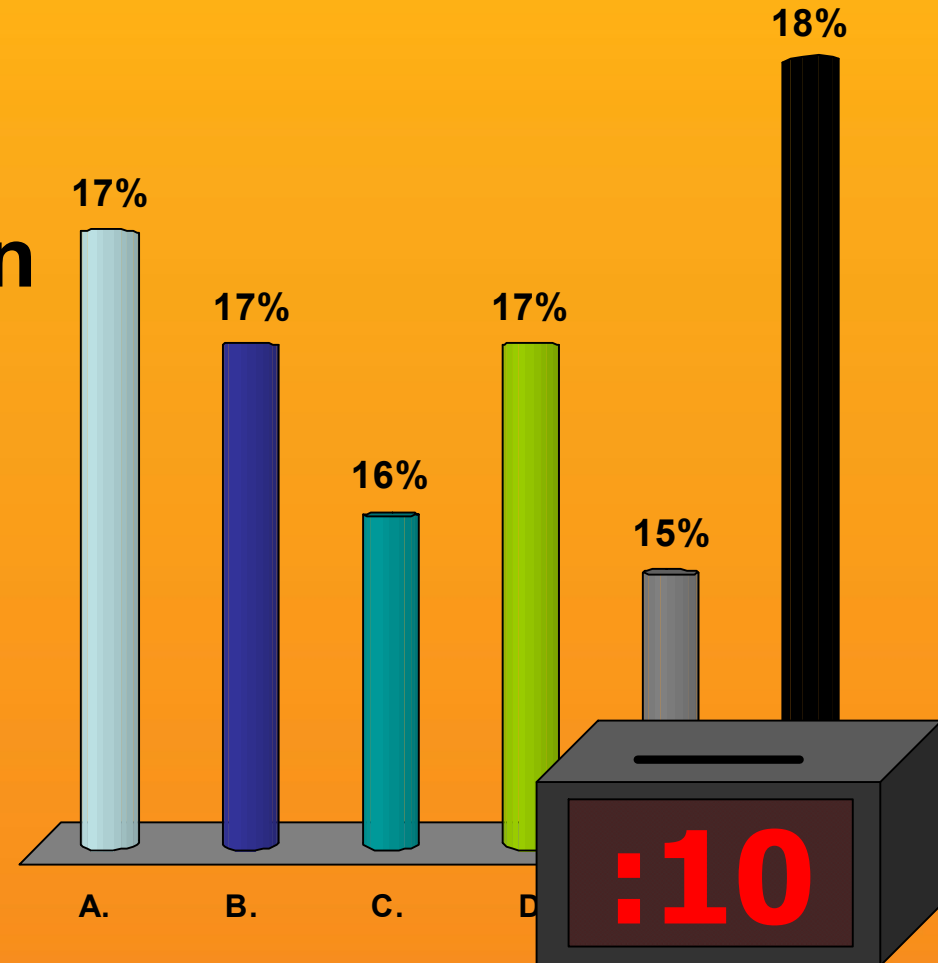
- A. Less than 5 years**
- B. 5 to 10 years**
- C. 11 to 20 years**
- D. More than 20 years**





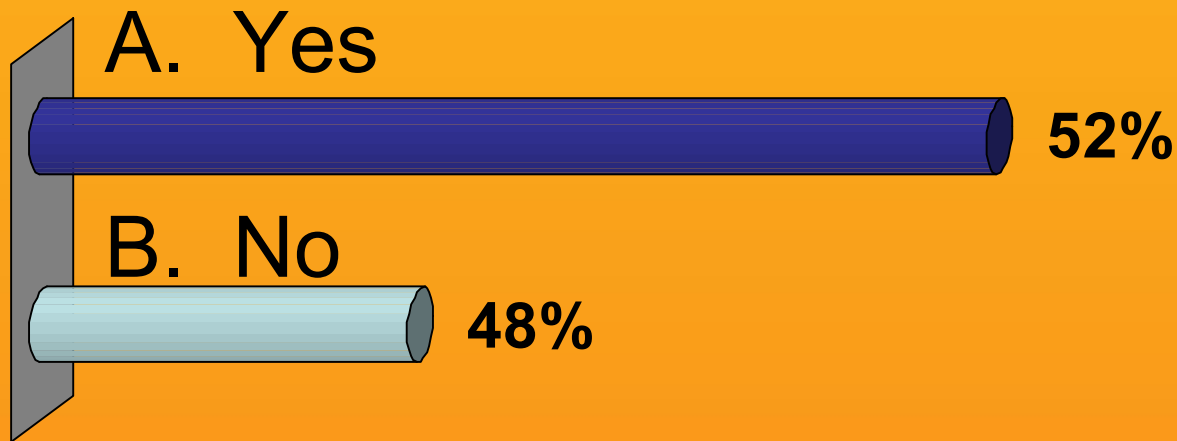
WHERE IS YOUR BASE?

- A. North America
- B. South America/Caribbean
- C. Europe
- D. Asia
- E. Middle East
- F. Africa



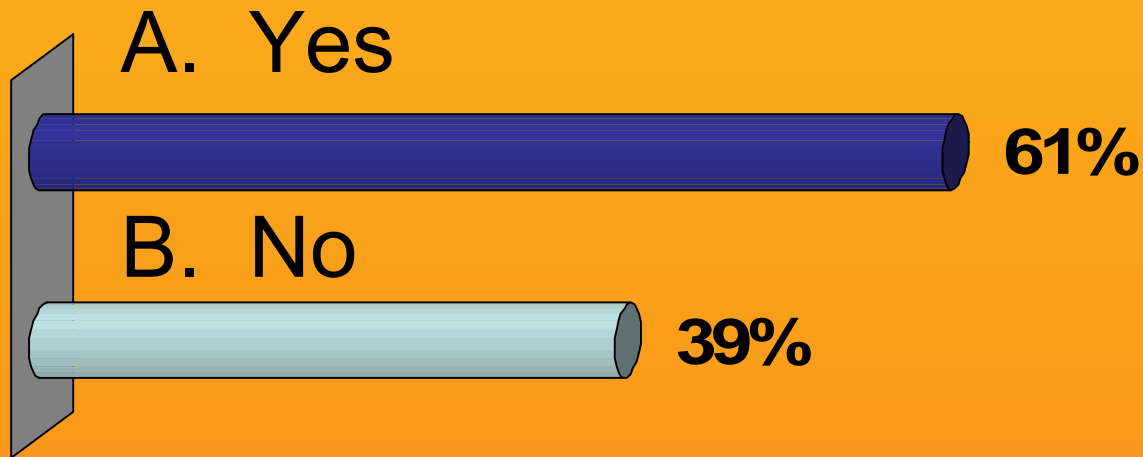


Did you attend last year's conference in Amsterdam?



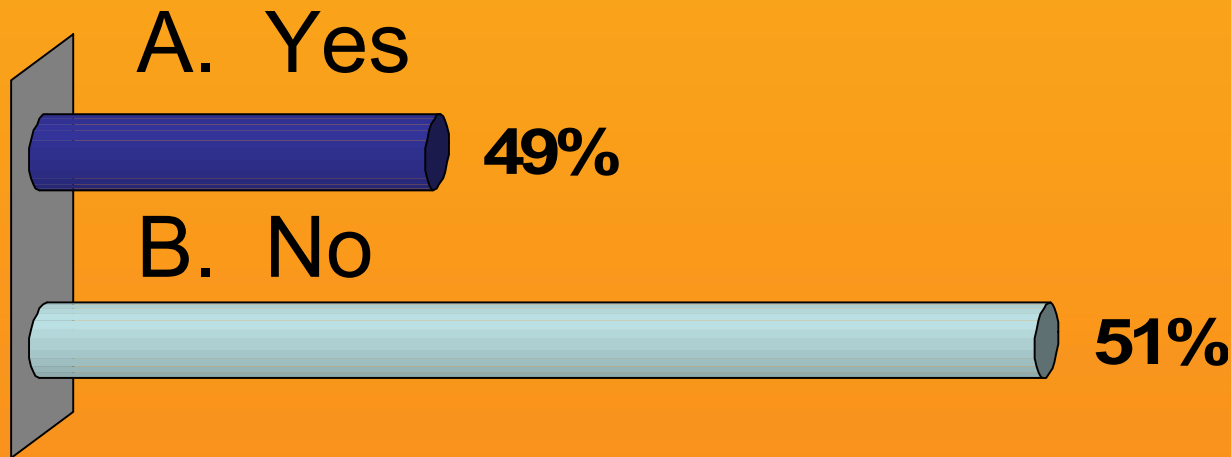


Can innovation and technology address non-technical risk?





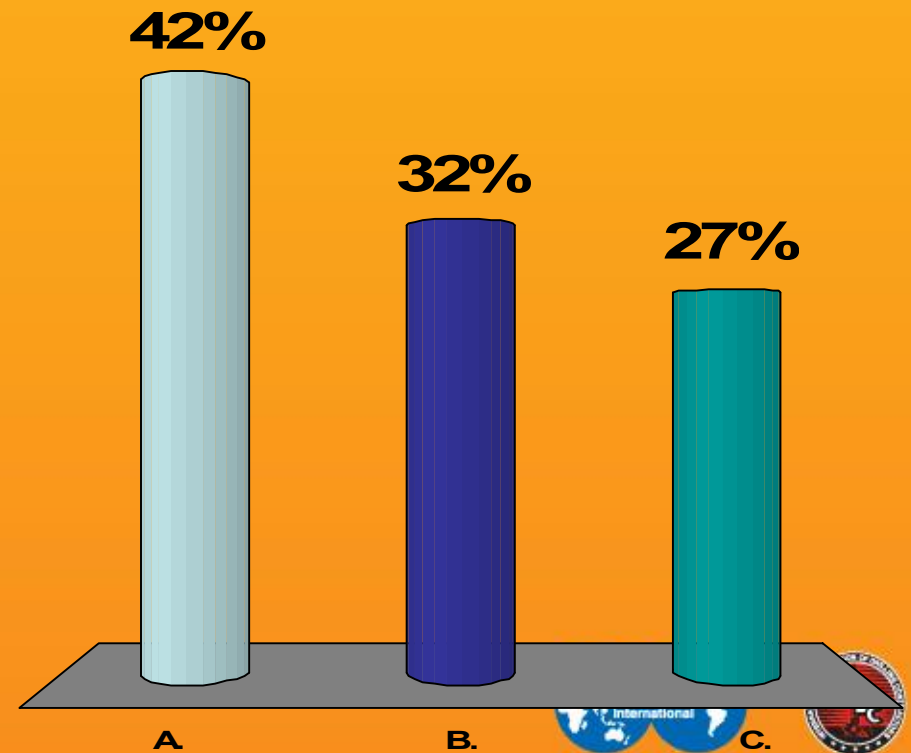
Does the industry have processes in place to manage non-technical risk?





When receiving new designs of drilling system from the vendors, should we feel more or less confident that equipment reliability is in focus

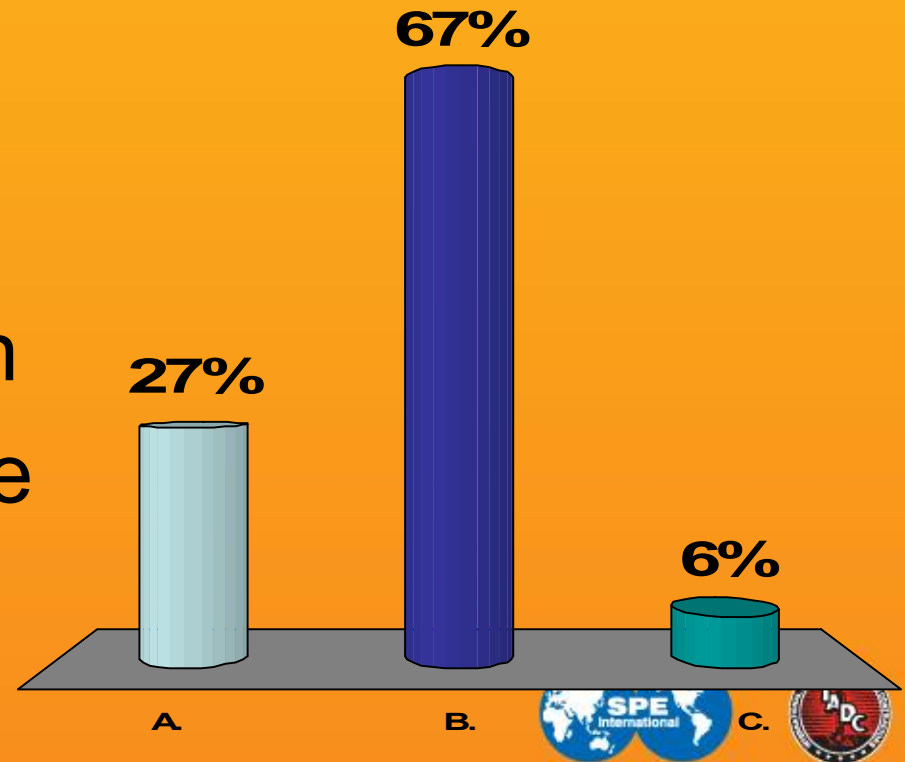
- A. More confident
- B. The same
- C. Less confident





Do you believe the oil companies are prepared to pay a premium for rigs with more efficient yet more costly equipment and solutions?

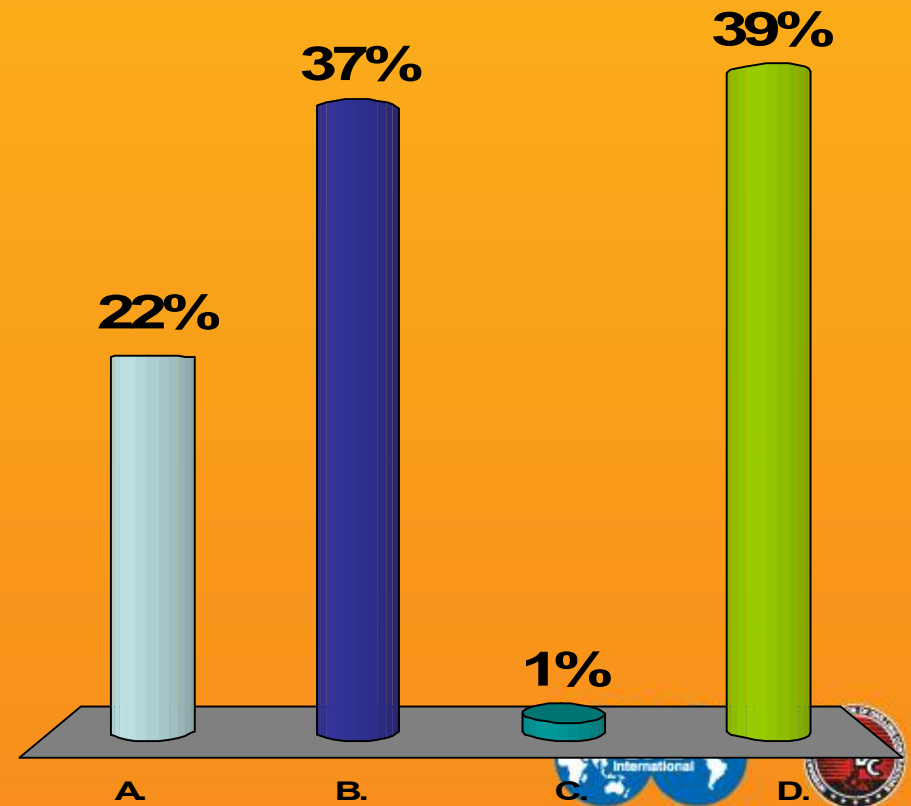
- A. They will pay more
- B. Only when it is proven
- C. They will not pay more





Who will lead in the innovation Challenge?

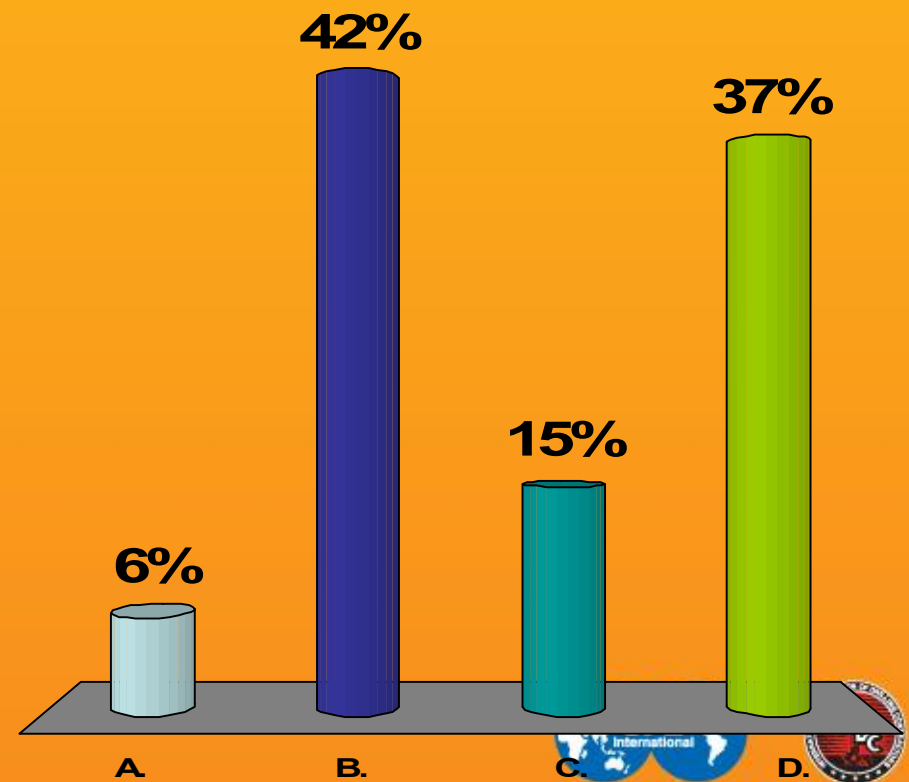
- A. Operators
- B. Service Providers
- C. Universities or Government laboratories
- D. Joint industry projects/programs





What are the barriers to simplifying through innovation

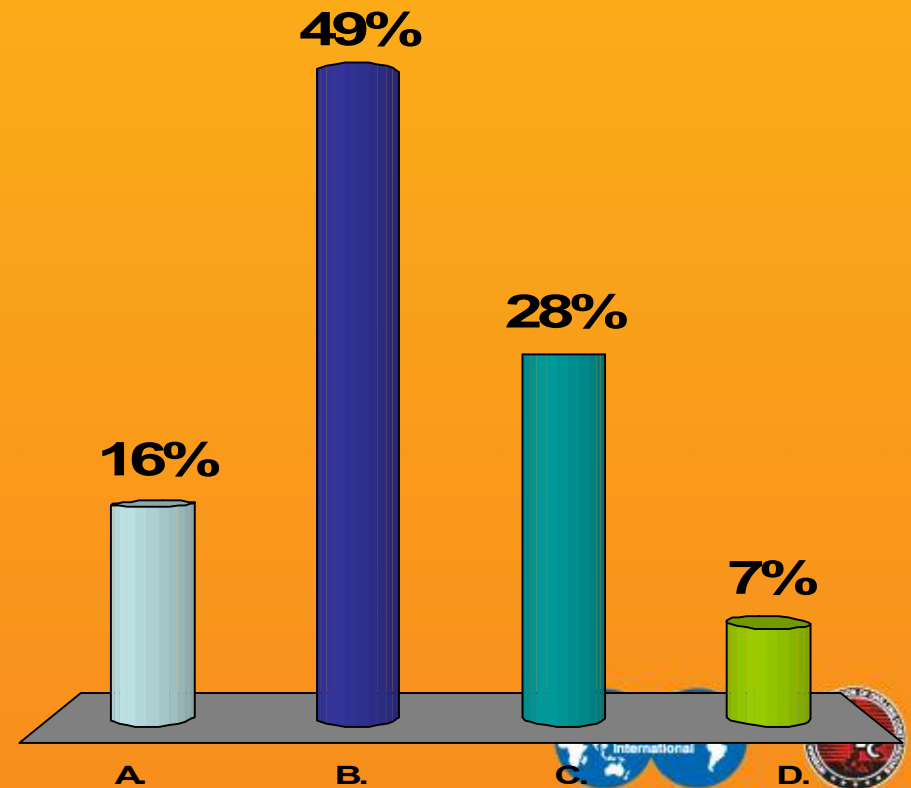
- A. Not invented here
- B. Risk tolerance
- C. Market Assurance
- D. Unclear value proposition





What is a realistic useful life expectation for today's complex completions?

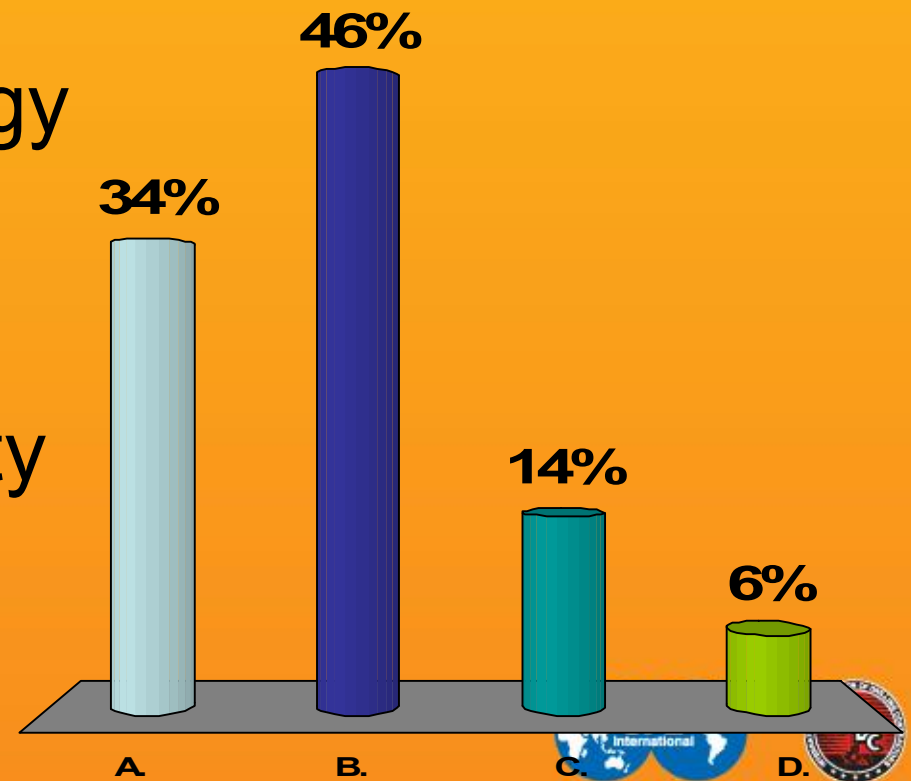
- A. Up to 5 yrs
- B. 5-10 yrs
- C. 10-20 yrs
- D. > 20 yrs





Will ultimate value delivered to the customer for completions be most impacted by...

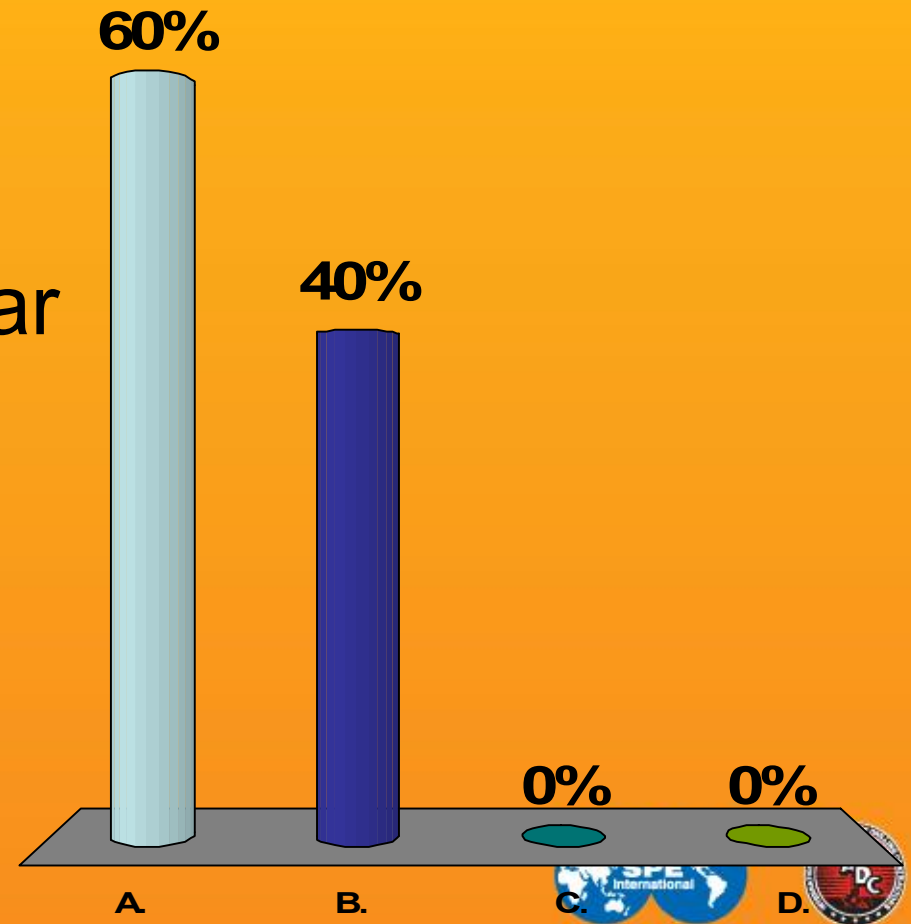
- A. Improving technology & functionality
- B. Improving reliability
- C. Reducing complexity and/or functionality
- D. Reducing cost





What do you consider the most important for the near future?

- A. Dual activity rig
- B. BOP casing & tubular offline
- C. Tubular offline only
- D. Limited two offline





What are the savings from dual activity & offline activity rigs?

- A. 5%
- B. 10%
- C. 15%
- D. 20% or more

