

STUDY LAUNCH

Due to the success of the first analytics study and follow-on interest from participants, Darcy Partners will conduct its 2nd Data & Advanced Analytics study focused on applications of Big Data in Unconventional Oil and Gas assets.

In Q1 of 2016, Darcy Partners released its first comprehensive technology study focused on advanced analytics in the oil and gas industry.

At the request of several participating members, the next study, will uncover analytical solutions for unconventional assets focused on the critical areas of completions optimization

As companies continue to unlock value during this downturn by looking into business models and organizational structure, technological innovation will have the most lasting impact. These innovations are the focus of what is possible and as such, creating, for adopters, truly sustainable value and competitive strength.

Companies are looking to cut costs again in 2017, beyond the 25% they've already achieved over 2014 spend. Collectively, lowering upstream spend from \$583 billion in 2015 will require further rationalization, redundancies and project delays.

Individually however, these same companies are acting very differently towards technological innovation. For now, their laser focus on efficiency has opened the way for new ways of tackling operational processes and everyone is looking much more broadly at the hive of innovators and solutions emerging.

The challenge is knowing which ones to pursue.

Contact for more information:
Nick Livingstone
+1 713 992 6486
nick@darcypartners.com

Advanced Analytics 2.0

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PATHWAYS FOR INNOVATION

Study Scope:

The study will be focused on completions and will uncover solutions specifically applicable to:

Completion Optimization Models

- Advanced geomechanical models and simulations based on first principles and high performance computing
- Statistical models that combine well, completion, hydraulic fracturing, reservoir and production data (historical and public data) to optimize completions
- Hybrid models that combine physics based and statistical methods

Sensing and Characterization Technologies

- Surface and downhole tools that capture new data from the formation (such as rock strength and natural fractures)
- Algorithms that construct synthetic logs from existing data to indirectly infer geomechanical properties of the reservoir
- Evaluation technologies to measure the fracture profile, penetration of liquid and proppants or interference

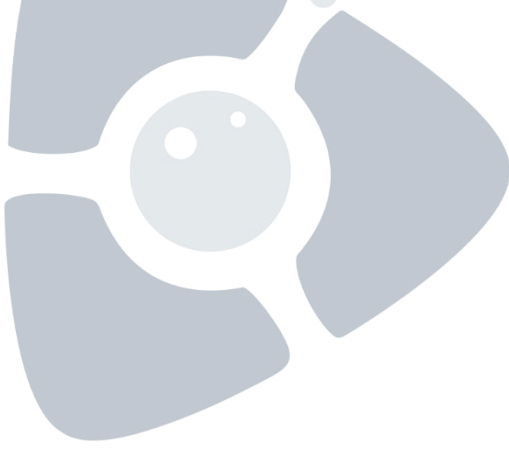
New Completion Tools

- More accurate targeting of hydraulic pressure
- Telemetry tools to report on downhole events such as valve openings or dropped balls
- Alternative fracturing methodologies

Deliverables:

1. White paper
2. Complete live database of every technology evaluated
3. Presentation of the 7-10 high-graded technologies by their developers at the Darcy *FORUM* on 30 November, 2016.
4. Peer insight into the theme's challenges & solutions

(November) (30) (Houston)



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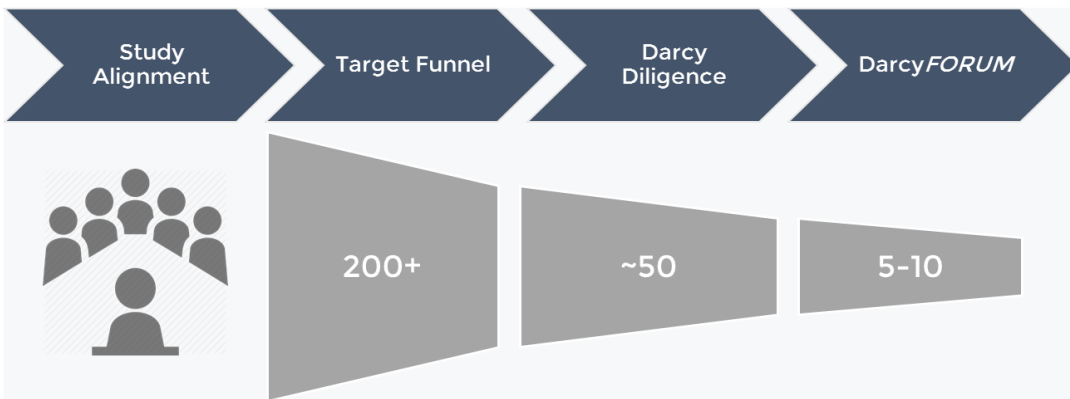
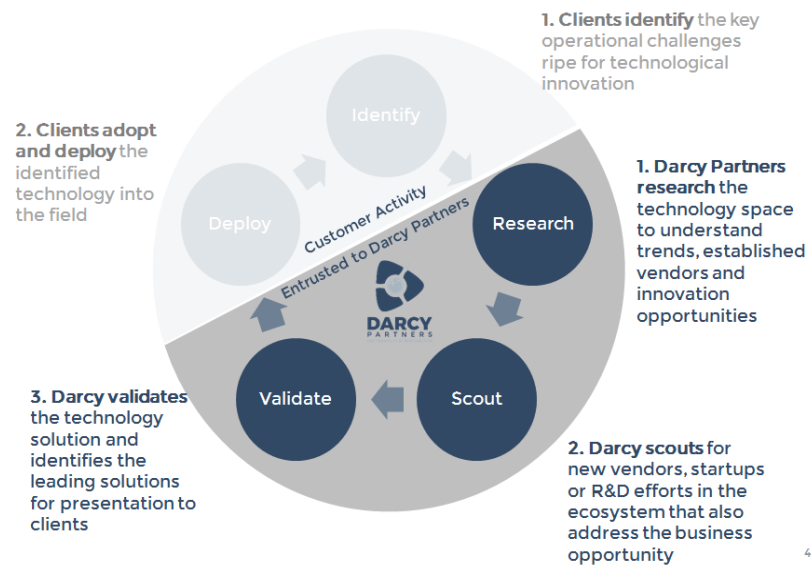
PATHWAYS FOR INNOVATION

Darcy Partners' mission is to accelerate the adoption of technologies in the oil and gas industry by solving the sourcing, evaluation and high-grading of nascent technologies on behalf of a single or a consortium of companies.

Darcy Partners' *Joint Industry Studies (JIS)* deliver implementable technology solutions to real world operational challenges. Delivering who you need to know now.

Deliverables:

1. White paper covering core elements and findings of the study theme
2. Complete live database of every technology (~200) evaluated by Darcy Partners
3. Presentation of the high-graded (5-10) technologies by the companies themselves at each study's unique *DarcyForum*
4. Peer-to-peer reviews of the technology



Trusted By



info@darcypartners.com
 +1 713 992 6486
www.darcypartners.com