

DeepStar®

Global Offshore Technology Development Consortium

27 Years of Industry Excellence

DeepStar Recruiting Members for DeepStar 2018

DeepStar is the industry's longest running and most successful offshore technology development consortium and it has generated significant value by providing technology transfer to its members and the industry. There is an increased need in the industry for an operator-driven, collaborative technology development program.

DeepStar® CORE + Satellite Model

CORE R&D Program

DeepStar CORE Program focuses on all members' common collaborative technology needs; discusses industry technology issues and develops ideas for larger, elective satellite projects.

Satellite Projects

Focuses on elective Satellite Projects in which the technology advancement is aided by collaborative among interested parties.

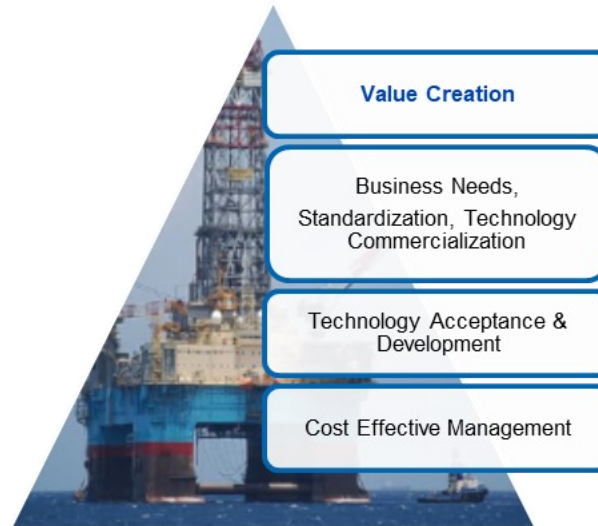
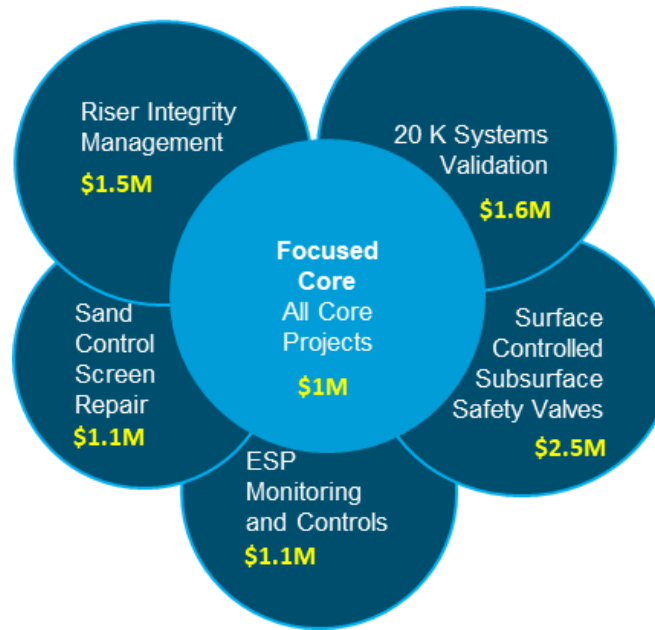
CORE Members



Satellite Participants

Apache
Aramco
BP
HESS
INPEX
Kosmos Energy
LLOG
PEMEX
PETRONAS
Repsol

DeepStar 2018 Model



DeepStar® Technical Subcommittees:

- **Drilling, Completion and Intervention**
 - Drilling Operations
 - Downhole Early Kick Detection
- **Flow Assurance**
 - Concurrent Wax and Hydrates Deposition
 - Plugged Flowline Diagnostic Technologies
 - Quantifying the Effect of Insulation on Hydrate Deposition in Gas-Filled Deadlegs
- **Subsea Systems Engineering**
 - Thermoplastic Composite Pipe in Deepwater
 - Subsea Asset Integrity – Docking Station Standardization
 - Subsea Composite Flowlines
 - Subsea Electrical Fail-Safe Valves
 - Subsea Leak Detection with AUV
 - Integrated Flowline cost reduction program
 - HPHT Systems Review & Validation
- **Floating Systems & Met-Ocean**
 - Integrity Management
 - Riser Continued Service
 - Accurate and Reliable Surface Measurement
 - Data Standardization for Digital Lifecycle

Potential Technical Subcommittees

- Geoscience
- Reservoir
- Operations

DeepStar Membership Fee

- Core Member (\$100,000 - annual)
- Associate Member (\$15,000 - annual)

DeepStar Management Committee

Anadarko — Flora Yiu

Chevron — Shak Shamshy (Chairman)

CNOOC — Zhang Ning

Equinor — Anish Simon

ExxonMobil — William Van Geertruyden &
Ginny Garriques

JX Nippon—Umezu Kaoru

Petrobras — Cesar Lima

Shell — Dahai Chang

Total — Khalid Mateen

Woodside — Julie Morgan

DeepStar Staff

■ Shak Shamshy — Director
713-372-1258
shakir@chevron.com

■ Joseph Gomes — Project Manager
713-969-1280
Joe@theooc.us

■ Jon Nunn—Project Support Specialist
504-904-7966
jon@theooc.us

■ Rebecca Wolfgang—Business Support Specialist
281-299-5036
rebecca@offshoreoperators.com

DeepStar Office

2400 Veterans Memorial Blvd Suite #206

Kenner, LA 70062

www.theDeepStar.com

DeepStar®

A Global Offshore Technology
Development Consortium



DeepStar®

Mission

Initiate an industry-led cooperative effort to develop economically viable, fit-for-purpose offshore production technology with global applicability and to support the qualification and acceptance of this technology.

Value

Leverage financial & technical resources to:

- Accelerate technology development
- Build deepwater technical competency
- Remove Barrier to technology introduction

Strategy

- Gain acceptance of deepwater technologies by industry
- Align technology development with offshore business needs
- Transfer and apply technology to offshore assets

