

The first edition of the **Remotely Operated Vehicles Market Report To 2015**, published by Infield Systems, provides an in-depth analysis of demand and supply for ROVs on a global and regional level. This new report has been created in conjunction with industry professionals and one of the leading ROV manufacturers. The report is focussed on the key sectors of offshore oil and gas, offshore wind and communications and the market analysis is presented by a number of useful splits: ROV type (light or medium/heavy work class), market segments, regions, countries, water depth and oil and gas operator.

## Remotely Operated Vehicles (ROVs) Market

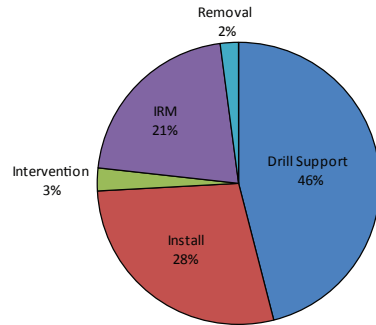
Infield Systems' new ROV market report focuses on the global supply and demand for work class underwater vehicles. The in-depth study looks at demand from the oil, gas, offshore wind farm and communication sectors for ROV services. The supply side analysis provides details of light, medium and heavy work class ROV numbers and overall capabilities.

Against a backdrop of high oil prices and optimistic spending plans Infield Systems predict an increase of 43% in overall demand over the next five years to 1.3m ROV days or equivalent to 847 work class ROVs per year.

ROVs are used for a wide spectrum of activities across all life-of-field phases in the offshore oil and gas industry, offshore wind farm and communication sectors. This includes the drilling and development of wells, installation and construction of production facilities, inspection, repair and maintenance (IRM) and decommissioning. The report analyses demand from a number of these market segments and analysis is presented by categories such as: ROV type, life-of-field stage, facility type, water depth, region, country and operator. A carefully researched estimate of the current work class ROV fleet is also provided, along with analysis of the combined supply and demand position.

waters. This has coincided with ROVs becoming an ever more useful technology with their ability to work in depths inaccessible for divers. The demand profile by depth anticipates large rises in demand for work class ROVs capable of operating in depths greater than 1,000 metres.

**Total Global Demand by Market Segment (%) 2006-2015**



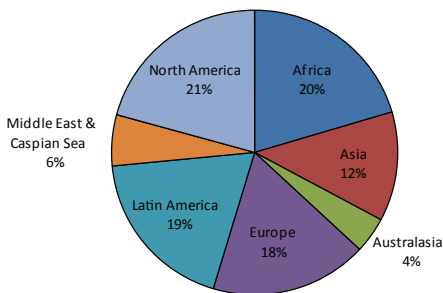
Source: Remotely Operated Vehicles Market Report to 2015

The last decade has seen a remarkable growth in the number of operational ROVs around the world. Infield Systems estimate that the worldwide fleet of light, medium and heavy work class ROVs servicing global energy requirements currently stands at 887 with around 210 of these falling into the light work class category, which are suitable for inspection duties. The remaining 667 medium and heavy work class vehicles tend to be electro-hydraulic and have a higher power rating than the smaller light work class units.

The growth in ROV market has been stymied somewhat by the lull in demand seen since the global financial crisis in 2008. This downturn in demand coincided with a high number of ROVs in the market, which led to a drop in utilisation rates among some of the large operators. Infield Systems predicts that any slack in regional markets will be squeezed by the increasingly robust demand that is expected 2011 to 2015.

Deep and ultra-deep water activity will be an important source of demand for ROVs in the coming years. We expect a large proportion of an expected growth in deep-water activity to be concentrated in Africa and Latin America, where rises in ROV demand of 126% and 157% are forecast respectively until 2015. Nigeria and Angola in West Africa and Brazil in Latin America will be largely responsible for such rises. Brazil, in particular, exemplifies the nature and profile of deep-water demand, and is likely to be a prolific source of demand for underwater vehicles in future.

**Total Global Demand by Region (%) 2006-2015**



Source: Remotely Operated Vehicles Market Report to 2015

Drilling support, installation and IRM activities will be overwhelmingly responsible for driving the expected growth in ROV demand over the next five years. Going forward Infield Systems forecasts North America and Africa to have the largest demand for ROVs, closely followed by Latin America and Europe. It is Asia and Australasia, however, that are expected to experience the largest growth in demand between over the next five years.

As IOCs look to replace their depleting reserves, oil and gas development has been characterised by a move to ever deeper

## Report Contents

- **Executive Summary** provides a concise and comprehensive executive overview of the complete market sector by reviewing the full text and providing a succinct reference guide to the report
- **Macro Overview** reviews the drivers behind the offshore industry, including such issues as the effects of the credit market turmoil, the reactions of oil companies and oil services, an outlook on offshore frontiers and the potential impact of game changers including unconventional gas and frontier regions of exploration
- **Global Business Overview** provides a review of the oil, gas, wind farm and communications work class ROV market. Key sources of global ROV demand are highlighted and analysed. Demand is broken down by ROV type, market segment by life-of-field activity, market segment by facility type, water depth and region. A thorough review of the current work class ROV feet is provided by type and operator. Finally, an analysis of combined supply and demand is presented with discussion of key elements shaping the dynamic. Market demand has been determined using a model developed with input from a leading ROV manufacturer, utilising Infield Systems' Offshore Energy Database and OFFPEX Market Modelling System
- **Regional Demand** covers the requirement for ROVs going forward. This is split by ROV type, market segment by life-of-field activity, market segment by facility type, water depth and country
- **Key Operators** provides an overview of the key operators in the ROV market by active vehicles, along with details of ROV fleet numbers and recent underwater vehicle related contracts and acquisitions. Overview of recent contract activity and related information is provided
- **Key Manufacturers** presents an overview of the key manufacturers in the ROV market by volume. Topics such as recent sales, relationships with operators and current models are discussed. Overview of recent contract activity and related information is provided
- **Appendix & Notes** includes detailed information on the report's model methodology along with a comprehensive list of assumptions used within the model. Tables of light, medium and heavy ROV models active in the global fleet along with a list of ROV operating companies is included. Finally, the report is completed with a set of unique maps showing current and future developments across the seven key offshore regions from Infield Systems' Offshore EnergyGateway Mapping System

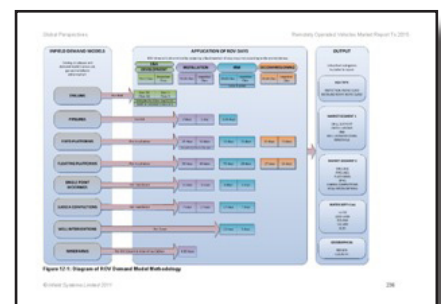
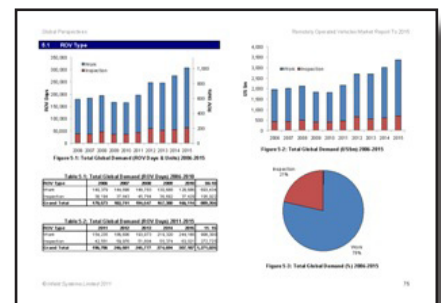
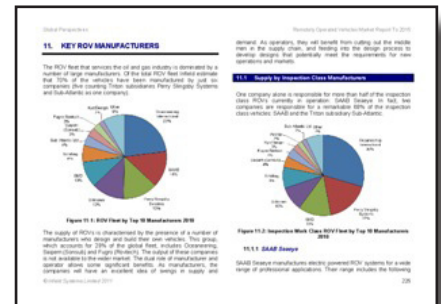
## Why You Should Buy This Report

- The Remotely Operated Vehicle (ROV) Demand model has been developed in collaboration with industry professionals, providing an accurate forecast based on function orientated metrics
- The up to date market supply estimate has been thoroughly researched with input from key manufacturers and operators
- It is an independent, up to the minute analysis of the ROV market
- The report provides forecasts and historical data region by region, country by country and sector by sector, providing key metrics for both industry professionals and market analysts

## Global & Regional Perspectives Market Reports

Infield Systems publishes a range of market reports covering various aspects and regions of the oil, gas, renewable energy and associated marine industries. Utilising comprehensive in-house project databases, industry models and research capacity these reports are widely used by industry analysts and professionals:

- Deep & Ultra-deepwater
- Subsea
- Pipelines & Control Lines
- Fixed Platforms
- Floating Production
- Specialist Vessels
- FPSO
- Accommodation
- Subsea Well Intervention
- Heavy Lift
- Heavy Marine Transport
- Remotely Operated Vehicles
- Offshore LNG
- Arctic
- Asia
- Australasia
- Latin America
- Middle East & Caspian



## EXECUTIVE SUMMARY

- Introduction
- Demand
- Supply
- Combined Supply and Demand

## MACRO OVERVIEW

- Executive Summary
- Leading Economic Indicators
  - A Robust Improvement in Overall Operating Conditions
  - Rising Hopes for Higher Consumer Spending Over 2011
- Global Oil Demand Outlook
  - Agencies Forecast Continued Rebound in Oil Demand
  - OECD Vs non-OECD
- Global Oil Supply Outlook
  - OPEC Stays the Course
- Oil Price And Volatility
  - Sustained Prices in the \$90/bbl Range- but downside Risks Remain

## INTRODUCTION

- Scope Of Report
- Methodology & Assumptions

## GLOBAL BUSINESS OVERVIEW

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  - ROVs vs Divers
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  - Applications of ROVs
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  - Installation
  - Inspection, Repair and Maintenance (IRM)
- Supply
  - Manufacturing Capacity
- Combined Supply Vs Demand
  - Total Combined Supply and Demand
  - Inspection Work Class Combined Supply and Demand
  - Work Class Combined Supply and Demand

## GLOBAL DEMAND

- Rov Type
- Demand By Water Depth
  - Total

- Medium / Heavy Work Class
- Inspection Work Class
- Demand By Region
  - Total
  - Medium / Heavy Work Class
  - Inspection Work Class

- Demand By Operator
- Demand By Market Segment (1)
  - Total
  - Medium / Heavy Work Class
  - Inspection Work Class
- Demand By Market Segment (2)
  - Total
  - Medium / Heavy Work Class
  - Inspection Work Class

## KEY ROV OPERATORS

- Oceaneering
- Subsea 7/Aceryg
- Fugro-Rovtech
- Saipem
- Helix Energy Solutions (Canyon Offshore)
- Hallin
- Dof Subsea

## KEY ROV MANUFACTURERS

- Inspection Work Class Manufacturers
  - SAAB Seaeye
  - Sub-Atlantic
- Medium/ Heavy Work Class Manufacturers
  - Oceaneering
  - Triton Group (inc. Perry Slingsby / Sub-Atlantic)
- Perry Slingsby Systems (PSS)
- SMD
- Schilling Robotics

## REGIONAL DEMAND

- Africa
- Asia
- Australasia
- Europe
- Latin America
- Middle East & Caspian
- North America

## REGIONAL SUPPLY OVERVIEW

- Africa
- Asia & Australia
- Europe

- Latin America
- Middle East & Caspian
- North America

## KEY ROV OPERATORS

- Oceaneering
- Subsea 7 / Aceryg
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- Saipem
- Helix Energy Solutions (Canyon Offshore)
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## KEY ROV MANUFACTURERS

- Supply By Inspection Class Manufacturers
  - SAAB Seaeye
  - Sub-Atlantic
- Supply By Work Class Manufacturers
  - Oceaneering
  - Triton Group (inc. Perry Slingsby / Sub-Atlantic)
  - Perry Slingsby Systems (PSS)
  - SMD
  - Schilling Robotics

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- Defined Regions/Countries List
- Glossary, Acronyms & Abbreviations
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- Regional Maps Of Existing And Future Oil And Gas Infrastructure

## About This Report

Number of Pages:	256
Number of Figures:	256
Number of Tables:	210

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