

## **Global Digital Oilfield Market - Industry Trends and Forecast to 2029**

Market Report | 2022-10-01 | 241 pages | Data Bridge Market Research

### **AVAILABLE LICENSES:**

- Single User License \$4800.00
- Corporate Users License \$7000.00

### **Report description:**

Global digital oilfield market is projected to register a CAGR of 7.2% in the forecast period of 2022 to 2029. The new market report contains data for the historic year 2020, the base year of calculation is 2021, and the forecast period is 2022 to 2029

Market Segmentation:

Global Digital Oilfield Market, By Offering (Software, Hardware, and Services), Process (Production Optimization, Reservoir Optimization, Drilling Optimization, Safety Management, and Others), Technology (IoT & Mobile Devices, AI & Advance Analytics, Cloud Computing, Robotics, and Others), Application (On-Shore and Off-Shore), Country (U.S., Canada, Mexico, Germany, France, the U.K., Turkey, Russia, Italy, Spain, Switzerland, Belgium, the Netherlands, and the rest of Europe, China, India, Indonesia, Australia, Malaysia, Thailand, Japan, South Korea, Singapore, the Philippines, and the rest of Asia-Pacific, South Africa, Saudi Arabia, U.A.E., Israel, Egypt, and the rest of the Middle East and Africa) Industry Trends and Forecast to 2029

Some of the major factors contributing to the global digital oilfield market are:

- Rapid digitization of the oil & gas sector
- Advent of emerging technologies such as artificial intelligence (AI) & IoT

Market Players:

Some key market players in the global digital oilfield market are listed below:

- Baker Hughes Company
- IBM Corporation
- Microsoft
- Rockwell Automation, Inc.
- Halliburton Energy Services, Inc.
- CGG
- Schlumberger Limited
- Redline Communications
- Osperity
- Emerson Electric Co.

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- Siemens AG.
- ABB
- Honeywell International Inc.
- NOV Inc.
- Petrolink.
- Weatherford
- Katalyst Data Management
- Digi International Inc.
- Kongsberg Digital (a subsidiary of KONGSBERG)
- OleumTech

## **Table of Contents:**

TABLE OF CONTENTS	
1 INTRODUCTION	22
1.1 OBJECTIVES OF THE STUDY	22
1.2 MARKET DEFINITION	22
1.3 OVERVIEW OF THE GLOBAL DIGITAL OILFIELD MARKET	22
1.4 CURRENCY AND PRICING	24
1.5 LIMITATIONS	24
1.6 MARKETS COVERED	24
2 MARKET SEGMENTATION	27
2.1 MARKETS COVERED	27
2.2 YEARS CONSIDERED FOR THE STUDY	28
2.3 GEOGRAPHIC SCOPE	29
2.4 DBMR TRIPOD DATA VALIDATION MODEL	30
2.5 PRIMARY INTERVIEWS WITH KEY OPINION LEADERS	33
2.6 DBMR MARKET POSITION GRID	34
2.7 VENDOR SHARE ANALYSIS	36
2.8 MULTIVARIATE MODELLING	37
2.9 COMPONENT CURVE	37
2.10 MARKET APPLICATION COVERAGE GRID	38
2.11 SECONDARY SOURCES	39
2.12 ASSUMPTIONS	39
3 EXECUTIVE SUMMARY	40
4 PREMIUM INSIGHTS	42
4.1 PORTER'S FIVE FORCES	45
4.2 PESTEL ANALYSIS	46
4.3 TECHNOLOGICAL ADVANCEMENT BY MANUFACTURERS	48
4.4 PRODUCTION CONSUMPTION ANALYSIS	49
4.5 PRICE TREND ANALYSIS	50
4.6 LIST OF BUYERS	51
4.7 VENDOR SELECTION CRITERIA	52
4.8 REGULATIONS AND STANDARDS COVERAGE	53
4.9 SUPPLY CHAIN ANALYSIS	54
4.9.1 OVERVIEW	54

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

4.9.2	LOGISTIC COST SCENARIO	54
4.9.3	IMPORTANCE OF LOGISTICS SERVICE PROVIDERS	54
4.10	CLIMATE CHANGE SCENARIO	55
4.10.1	ENVIRONMENTAL CONCERNS	55
4.10.2	INDUSTRY RESPONSE	55
4.10.3	GOVERNMENT'S ROLE	55
4.10.4	ANALYST RECOMMENDATIONS	55
5	MARKET OVERVIEW	57
5.1	DRIVERS	59
5.1.1	ADVENT OF DIGITIZATION IN THE OIL AND GAS SECTOR ACROSS THE REGION	59
5.1.2	RISING PENETRATION OF EMERGING TECHNOLOGIES SUCH AS ARTIFICIAL INTELLIGENCE (AI) AND IOT	60
5.1.3	GROWING ADOPTION OF MOBILE AND SATELLITE COMMUNICATION/ CONNECTIVITY	61
5.1.4	GROWING INITIATIVES BY COMPANIES TO MINIMIZE CARBON FOOTPRINT	61
5.2	RESTRAINT	62
5.2.1	INCREASE IN CYBER SECURITY THREATS DUE TO DIGITAL INITIATIVES	62
5.3	OPPORTUNITIES	62
5.3.1	RISE IN DEMAND FOR WELL INTERVENTION SERVICES AND OPERATIONAL DIGITAL OILFIELD SOLUTIONS	62
5.3.2	INCREASE IN EXPLORATION OPERATIONS IN UNCHARTED OFFSHORE/ULTRA-DEEP-WATERS	63
5.3.3	RISE OF IMMERSIVE TECHNOLOGY AND CLOUD-BASED DIGITAL OILFIELDS SOLUTION	64
5.4	CHALLENGES	65
5.4.1	INTEROPERABILITY OF MULTIPLE SYSTEM COMPONENTS FROM DIFFERENT SOLUTION PROVIDERS	65
5.4.2	TRADE BARRIERS, LOW PRODUCTION, AND RESTRICTIONS IN LOGISTICS	65
6	GLOBAL DIGITAL OILFIELD MARKET, BY OFFERING	67
6.1	OVERVIEW	68
6.2	SOFTWARE	69
6.2.1	HOSTED	69
6.2.2	ON-PREMISE	69
6.3	SERVICES	69
6.4	HARDWARE	70
6.4.1	DISTRIBUTED CONTROL SYSTEMS	71
6.4.2	SUPERVISORY CONTROL AND DATA ACQUISITION	71
6.4.3	COMPUTER EQUIPMENT AND APPLICATION HARDWARE	71
6.4.4	SMART-WELLS	71
6.4.5	WIRELESS SENSORS	71
6.4.6	PROCESS AUTOMATION	71
6.4.7	SAFETY SYSTEMS	72
6.4.8	OTHERS	72
7	GLOBAL DIGITAL OILFIELD MARKET, BY PROCESS	73
7.1	OVERVIEW	74
7.2	PRODUCTION OPTIMIZATION	75
7.3	RESERVOIR OPTIMIZATION	75
7.4	DRILLING OPTIMIZATION	76
7.5	SAFETY MANAGEMENT	76
7.6	OTHERS	77
8	GLOBAL DIGITAL OILFIELD MARKET, BY TECHNOLOGY	78
8.1	OVERVIEW	79
8.2	IOT & MOBILE DEVICES	80

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

8.3 AI & ADVANCE ANALYTICS	81
8.4 CLOUD COMPUTING	81
8.5 ROBOTICS	82
8.6 OTHERS	82
9 GLOBAL DIGITAL OILFIELD MARKET, BY APPLICATION	83
9.1 OVERVIEW	84
9.2 ON-SHORE	85
9.3 OFF-SHORE	85
10 GLOBAL DIGITAL OILFIELD MARKET, BY REGION	86
10.1 OVERVIEW	87
10.2 NORTH AMERICA	94
10.2.1 U.S.	100
10.2.2 CANADA	102
10.2.3 MEXICO	104
10.3 EUROPE	106
10.3.1 GERMANY	112
10.3.2 FRANCE	114
10.3.3 U.K.	116
10.3.4 TURKEY	118
10.3.5 RUSSIA	120
10.3.6 ITALY	122
10.3.7 SPAIN	124
10.3.8 SWITZERLAND	126
10.3.9 BELGIUM	128
10.3.10 NETHERLANDS	130
10.3.11 REST OF EUROPE	132
10.4 ASIA-PACIFIC	133
10.4.1 CHINA	139
10.4.2 INDIA	141
10.4.3 INDONESIA	143
10.4.4 AUSTRALIA	145
10.4.5 MALAYSIA	147
10.4.6 THAILAND	149
10.4.7 JAPAN	151
10.4.8 SOUTH KOREA	153
10.4.9 SINGAPORE	155
10.4.10 PHILIPPINES	157
10.4.11 REST OF ASIA-PACIFIC	159
10.5 MIDDLE EAST AND AFRICA	160
10.5.1 SAUDI ARABIA	166
10.5.2 U.A.E.	168
10.5.3 EGYPT	170
10.5.4 SOUTH AFRICA	172
10.5.5 ISRAEL	174
10.5.6 REST OF MIDDLE EAST AND AFRICA	176
10.6 SOUTH AMERICA	177
10.6.1 BRAZIL	183

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

10.6.2 ARGENTINA	185
10.6.3 REST OF SOUTH AMERICA	187
11 GLOBAL DIGITAL OILFIELD MARKET, COMPANY LANDSCAPE	188
11.1 COMPANY SHARE ANALYSIS: GLOBAL	188
11.2 COMPANY SHARE ANALYSIS: NORTH AMERICA	189
11.3 COMPANY SHARE ANALYSIS: EUROPE	190
11.4 COMPANY SHARE ANALYSIS: ASIA-PACIFIC	191
12 SWOT ANALYSIS	192
13 COMPANY PROFILE	193
13.1 BAKER HUGHES COMPANY	193
13.1.1 COMPANY SNAPSHOT	193
13.1.2 REVENUE ANALYSIS	194
13.1.3 COMPANY SHARE ANALYSIS	194
13.1.4 SOLUTION PORTFOLIO	194
13.1.5 RECENT DEVELOPMENTS	195
13.2 IBM CORPORATION	196
13.2.1 COMPANY SNAPSHOT	196
13.2.2 REVENUE ANALYSIS	196
13.2.3 COMPANY SHARE ANALYSIS	197
13.2.4 SOLUTION PORTFOLIO	197
13.2.5 RECENT DEVELOPMENTS	197
13.3 MICROSOFT	199
13.3.1 COMPANY SNAPSHOT	199
13.3.2 REVENUE ANALYSIS	199
13.3.3 COMPANY SHARE ANALYSIS	200
13.3.4 PRODUCT PORTFOLIO	200
13.3.5 RECENT DEVELOPMENTS	200
13.4 CGG	201
13.4.1 COMPANY SNAPSHOT	201
13.4.2 REVENUE ANALYSIS	201
13.4.3 COMPANY SHARE ANALYSIS	202
13.4.4 PRODUCT PORTFOLIO	202
13.4.5 RECENT DEVELOPMENTS	203
13.5 HALLIBURTON ENERGY SERVICES, INC.	205
13.5.1 COMPANY SNAPSHOT	205
13.5.2 REVENUE ANALYSIS	205
13.5.3 COMPANY SHARE ANALYSIS	206
13.5.4 PRODUCTS PORTFOLIO	206
13.5.5 RECENT DEVELOPMENTS	206
13.6 ABB	208
13.6.1 COMPANY SNAPSHOT	208
13.6.2 REVENUE ANALYSIS	208
13.6.3 SOLUTIONS PORTFOLIO	209
13.6.4 RECENT DEVELOPMENTS	209
13.7 DIGI INTERNATIONAL INC.	210
13.7.1 COMPANY SNAPSHOT	210
13.7.2 REVENUE ANALYSIS	210

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

13.7.3	PRODUCT PORTFOLIO	211
13.7.4	RECENT DEVELOPMENT	211
13.8	EMERSON ELECTRIC CO.	212
13.8.1	COMPANY SNAPSHOT	212
13.8.2	REVENUE ANALYSIS	212
13.8.3	SOLUTION PORTFOLIO	213
13.8.4	RECENT DEVELOPMENT	213
13.9	HONEYWELL INTERNATIONAL INC.	214
13.9.1	COMPANY SNAPSHOT	214
13.9.2	REVENUE ANALYSIS	214
13.9.3	PRODUCTS PORTFOLIO	215
13.9.4	RECENT DEVELOPMENTS	215
13.10	KATALYST DATA MANAGEMENT	217
13.10.1	COMPANY SNAPSHOT	217
13.10.2	PRODUCT PORTFOLIO	217
13.10.3	RECENT DEVELOPMENTS	217
13.11	KONGSBERG DIGITAL (A SUBSIDIARY OF KONGSBERG)	218
13.11.1	COMPANY SNAPSHOT	218
13.11.2	REVENUE ANALYSIS	218
13.11.3	PRODUCTS PORTFOLIO	219
13.11.4	RECENT DEVELOPMENTS	219
13.12	NOV INC.	220
13.12.1	COMPANY SNAPSHOT	220
13.12.2	REVENUE ANALYSIS	220
13.12.3	PRODUCTS PORTFOLIO	221
13.12.4	RECENT DEVELOPMENTS	221
13.13	OLEUMTECH	223
13.13.1	COMPANY SNAPSHOT	223
13.13.2	SOLUTION PORTFOLIO	223
13.13.3	RECENT DEVELOPMENT	223
13.14	OSPERITY	224
13.14.1	COMPANY SNAPSHOT	224
13.14.2	SOLUTION PORTFOLIO	224
13.14.3	RECENT DEVELOPMENT	224
13.15	PETROLINK.	225
13.15.1	COMPANY SNAPSHOT	225
13.15.2	TECHNOLOGY PORTFOLIO	225
13.15.3	RECENT DEVELOPMENT	225
13.16	REDLINE COMMUNICATIONS	226
13.16.1	COMPANY SNAPSHOT	226
13.16.2	REVENUE ANALYSIS	226
13.16.3	SERVICE PORTFOLIO	227
13.16.4	RECENT DEVELOPMENTS	227
13.17	ROCKWELL AUTOMATION, INC.	228
13.17.1	COMPANY SNAPSHOT	228
13.17.2	REVENUE ANALYSIS	228
13.17.3	SOLUTION PORTFOLIO	229

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

13.17.4 RECENT DEVELOPMENTS	230
13.18 SCHLUMBERGER LIMITED	231
13.18.1 COMPANY SNAPSHOT	231
13.18.2 REVENUE ANALYSIS	231
13.18.3 PRODUCTS PORTFOLIO	232
13.18.4 RECENT DEVELOPMENTS	232
13.19 SIEMENS AG.	233
13.19.1 COMPANY SNAPSHOT	233
13.19.2 REVENUE ANALYSIS	233
13.19.3 SOLUTION PORTFOLIO	234
13.19.4 RECENT DEVELOPMENTS	234
13.20 WEATHERFORD	235
13.20.1 COMPANY SNAPSHOT	235
13.20.2 REVENUE ANALYSIS	236
13.20.3 PRODUCT PORTFOLIO	236
13.20.4 RECENT DEVELOPMENTS	236
14 QUESTIONNAIRE	238
15 RELATED REPORTS	241

## Global Digital Oilfield Market - Industry Trends and Forecast to 2029

Market Report | 2022-10-01 | 241 pages | Data Bridge Market Research

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

### ORDER FORM:

Select license	License	Price
	Single User License	\$4800.00
	Corporate Users License	\$7000.00
		VAT
		Total

\*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

\*\* VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2025-05-09"/>
		Signature	<input type="text"/>

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com