



SiteCom[®]

Safer, Faster and Better Informed Drilling Decisions



Data Aggregation, Distribution, Sharing, Management
Real-Time Quality Control and Decision Support Tools
Improved Drilling Efficiency and reduced Non-Productive Time

Our Mission

Our Mission is to develop innovative and reliable technologies and solutions to handle the pressing challenge of global oil and gas resource development today and in the future. Our systems are designed to ensure resources to be discovered, developed and delivered using the safest, most cost-effective and environmentally sustainably procedures.

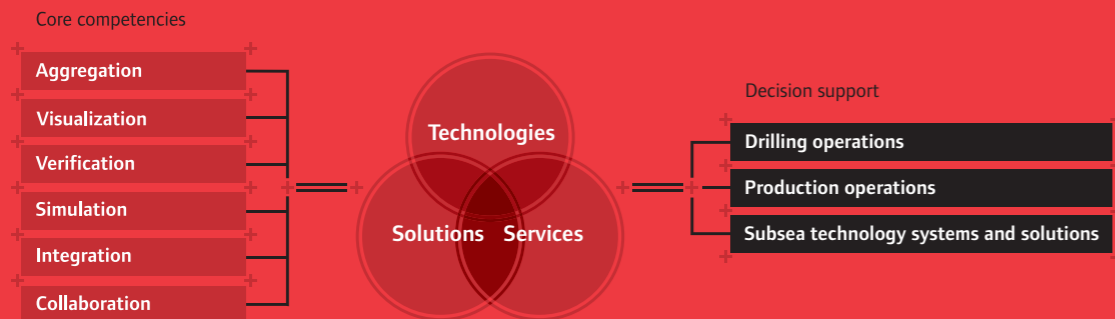
Our Philosophy

We pride ourselves on effective and close co-operation with our customers and partners. Our teams are specially trained to initiate and maintain a close and constant dialogue for the benefit of your business. Against a backdrop of rising and volatile energy prices, we strive to enable you to achieve more with less. The results will soon become evident on your bottom line.

Our Role

The growing challenge of oil and gas resource development demands the very best systems designed and constantly updated to raise efficiency within the world's environmentally demanding energy environment. We are here to help you manage this complex process, integrating the role of multiple vendors and service providers, to ensure the most effective and profitable energy resource development.

Intelligent Improvement

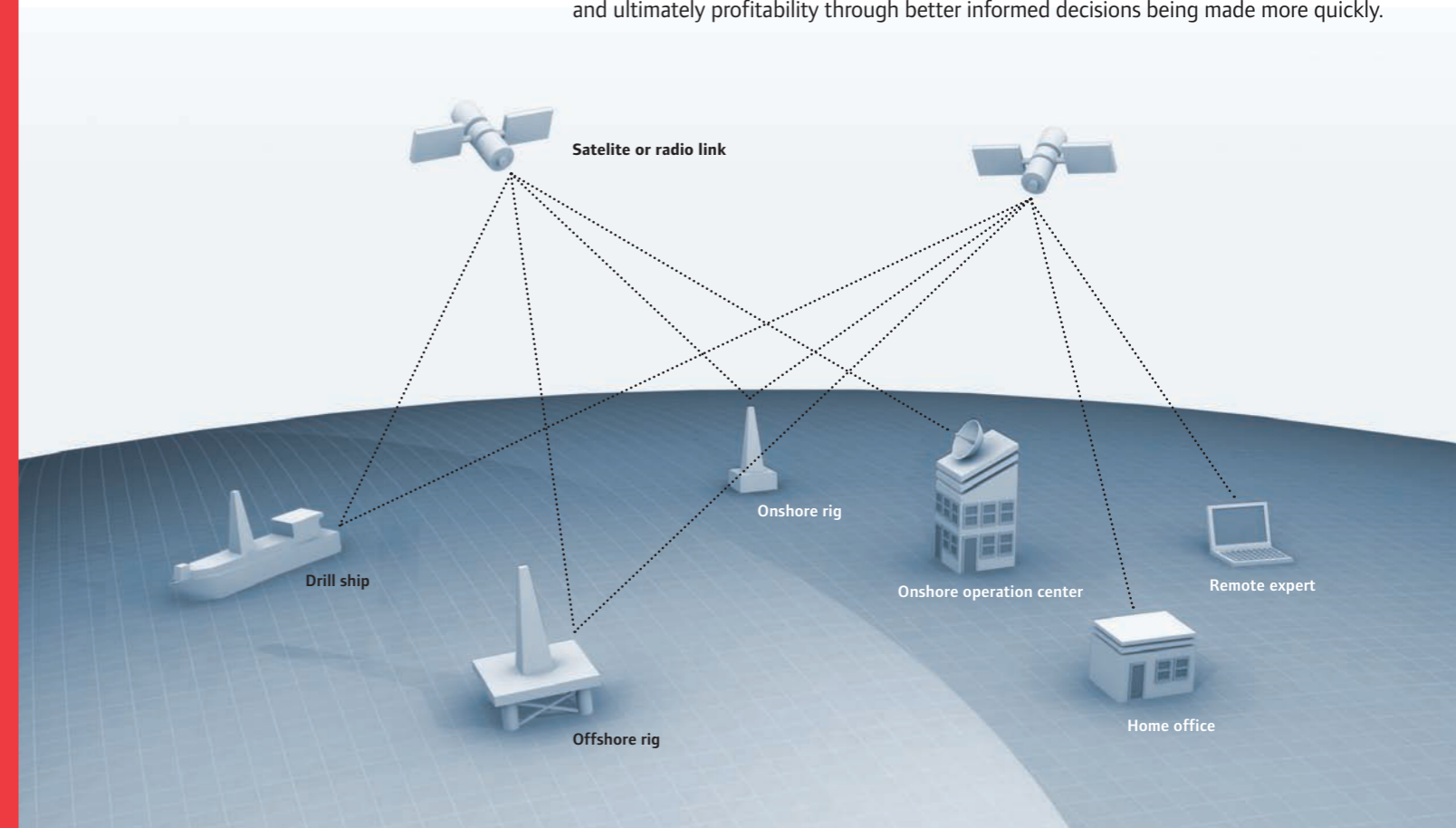


SiteCom®

Today's high performance drilling operations depend on real-time information being made available to a community of professionals with varied and complementary skills who may be located on the drilling rig, in the company office or in another remote location somewhere in the world. Critical decisions need to be made quickly and need to be based on the best and latest information.

SiteCom integrates real-time data, historical data, reports, and files from all sources on the rig and makes them available to this community through a single web-based interface. A globally distributed team then has simultaneous and reliable access to the same information during all operations on the rig.

With the integration of rigs, platforms, support offices, and third-party suppliers into a single collaboration community SiteCom provides enhancements in safety, efficiency and ultimately profitability through better informed decisions being made more quickly.



SiteCom was the first product on the market based on the WITSML standard – the oilfield standard for drilling data transfer. No one can beat SiteCom for speed, security, and flexibility to accommodate the growing number and variety of real-time data sources. SiteCom is more than a simple link between rig and office. It allows the creation of a single, integrated infrastructure for an organisation and ensures that all drilling knowledge is captured.

SiteCom – the platform that makes high-performance drilling operations possible.

An Integrated Global Environment

Whether upgrading your existing operation or launching a new one, SiteCom lets you establish a sophisticated, fully-distributed, integrated environment to support drilling and well construction decisions. From this comes a wealth of benefits that improve the safety and efficiency of your operations, your environmental impact, and your bottom line.

Assured Data Security

Security of your data is important. With SiteCom you can be assured that data transfer is secure. Most importantly, SiteCom can be configured so that your data never needs to go outside of your corporate firewall giving you full control of your assets at all times.

Improved Data Quality

Accurate data is the cornerstone of any drilling operation. Without it, your engineers on the rig and within the drilling support team cannot make fully informed decisions. SiteCom features technology for automatically verifying the accuracy and quality of data before it is distributed, ensuring that the decisions are based on a true picture of what is happening in the well and on the rig.

Advanced Visualization and Sharing

SiteCom enables any number of users to view all available petrophysical, geophysical, geologic and drilling data generated on the rig in a multitude of ways depending on their function. It allows engineers and decision makers to view everything they need, completely independent from service companies rotating on and off the rig, all within a single viewing tool, Discovery Web™.

Turning Data into Information

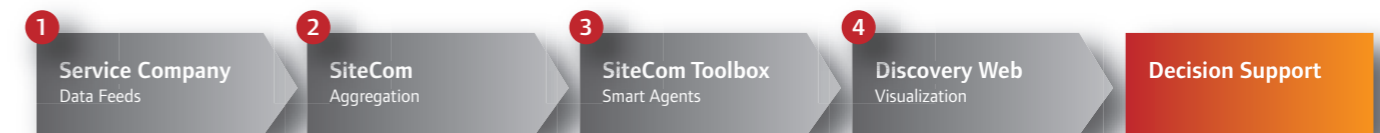
SmartAgents are layered on top of your SiteCom installation to perform calculations required for better interpretation of events – automatically and in real-time. They deliver information that specialists require to make fast and efficient decisions. SmartAgents can identify invisible lost time, help to determine fluid and rock parameters, or assist with decisions related to hydraulics, drilling parameters, pore pressure, or other events. SiteCom also allows you to initiate exception-based alarms, to develop company specific workflows, to distribute and manipulate data and to track company KPIs to ensure that the information generated is put to best use.

Faster Decisions

In side-to-side trials with leading competitors, SiteCom delivered real-time drilling data to distributed users faster and more robustly than any other system and Discovery Web updates images in your browser faster than any other drilling visualization tool available on the market. Users spend more time making decisions based on the data rather than waiting for the data.



Decision Support



The SiteCom Components

SiteCom

Automatically aggregates, distributes and manages real-time data, files, reports, and other communications from the electronic drilling recorder, LWD contractor, mud loggers, fluid engineers, and all other vendors and service companies – and distributes this information to any location within your organization.

Discovery Web

The most advanced visualization tool on the market for making drilling decisions. All curves, survey data, mud log data, rig activity, image logs and key performance indicators are made available in a user-friendly, web-based browser. Whatever your location you can use this single customizable interface to view all of your data from all of the vendors and service companies working on your rigs anywhere in the world.

SiteCom Toolbox

Easy-to-connect modules designed to perform real-time calculations to ensure that drilling efficiency is maximised, to mitigate against kicks in the well and to ensure non-productive time is minimised.

SiteCom is cost effective because it replaces a number of individual systems you may currently have in place for moving data from the rig into operations rooms onshore. Replacing any incumbent solutions for data transfer will not disrupt any of your current service company activities. In fact, once you switch to SiteCom, you can switch service companies at any time without disrupting access or flow of any real-time data stream.

SiteCom also allows you to create standard workflows by delivering data from the rig in real-time directly into existing geology & geophysics platforms in use within your organisation.

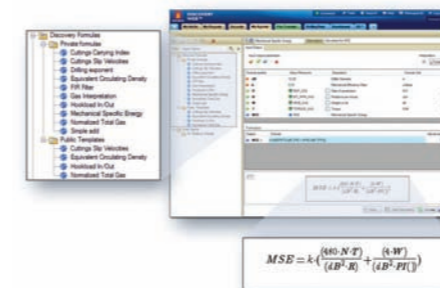
Installation and support of the SiteCom infrastructure can be done using your own IT staff, by KONGSBERG engineers, or by certified 3rd party resellers. KONGSBERG can also supply real-time data management as a completely turnkey hosted service to allow your drilling team to focus solely on making fast, intelligent decisions.



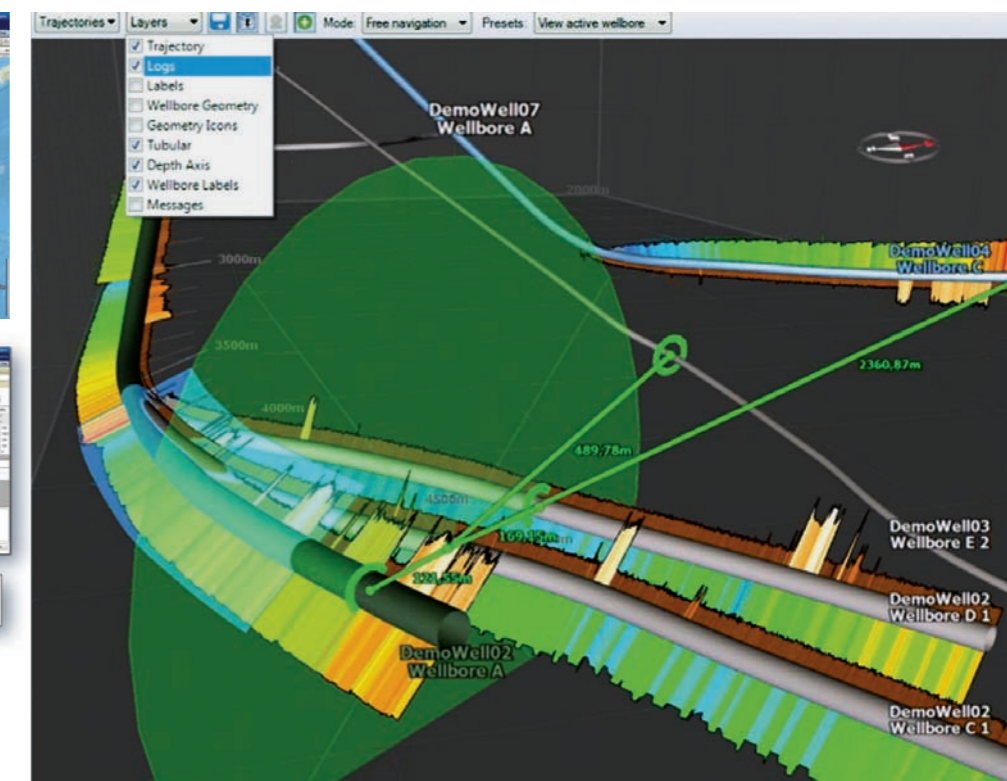
Share Information and Discover the Full Picture

Discovery Web provides the most advanced browser-based visualization tool on the market for making drilling decisions. Everything needed to make better informed drilling decisions is available through a single simple-to-use interface.

Discovery Web allows drilling engineers, geologists, geophysicists, asset managers, and other support personnel to visualize and analyze all data in real-time using a standard internet browser from any location. The chat function is also enabled through the Discovery Web interface to allow complete data sharing and true social networking for the whole user community. Additional tools have been introduced to Discovery Web to enhance its overall capability.



$$MSE = k \left(\frac{46 \cdot N \cdot T}{(IB^2 \cdot B)} + \frac{4 \cdot W}{(B^2 \cdot PI)} \right)$$



Discovery 3D

To ensure that you have a clear understanding of the complexities of your wellbore and to help visualise the geological information in context, Discovery 3D adds a new dimension to the capabilities of Discovery Web.

Discovery Maps

Creates a map view of all your operations around the globe giving you an instant update on all live wellbores including active alarms. With Discovery Maps you are also able to import generic ESRI layers to build up a complete picture of you operations

Discovery Formulas

Our new generic calculator allows any user defined formulas to be coded to calculate key variables from the real-time data stream and to display them alongside the real-time data. Quick calculations can be performed to test your theories or to apply corporate proprietary knowledge to highlight potential challenges, risks to the well or areas from improved efficiency. You could even perform instant petrophysical analyses.



Manage Your Corporate Knowledge

SiteCom allows you total control of access to your data at any level so that different departments and disciplines can access the data that they require. The authentication mechanisms are flexible enough to allow sharing of key data with joint venture partners, government agencies and other contractors as well.

The SiteCom set up creates an environment whereby your entire support network is able to view and digest the same data that your rig team has at hand so you can be confident that informed drilling decisions are made more quickly and more safely. More informed decisions will reduce the risk of your operations, resulting in improved performance. This setup can also be used for post well analyses to train new engineers or to investigate how improvements can be made in the future.

Transform Data to Information

Your SiteCom installation can include SmartAgents to help with real-time decision making. SmartAgents perform a number of useful functions.

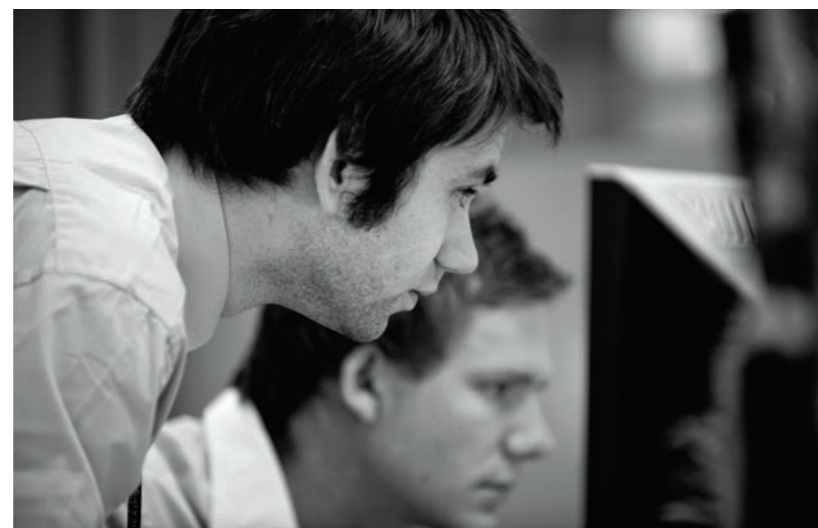
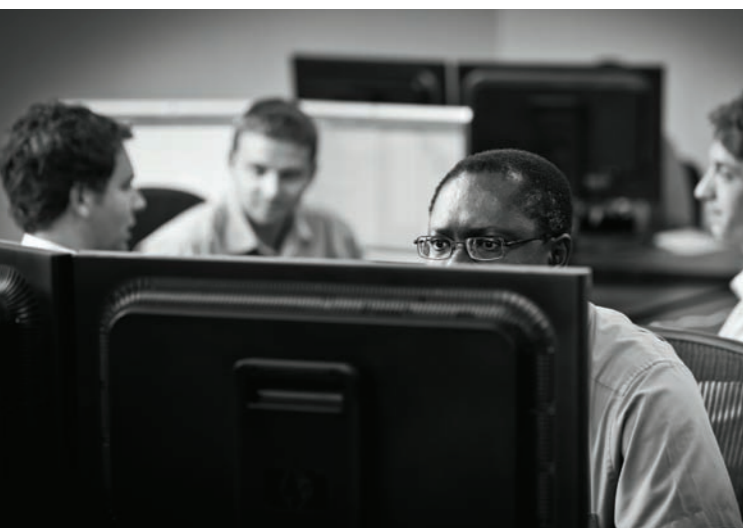
SmartAgents can check data quality and help you to manage the performance of the vendors and service companies working on your rig. They provide tools to determine what information is delivered by each company and if the data is within acceptable ranges. SmartAgents allow you to compare the performance of crews, rigs, or individual service companies.

SiteCom can include SmartAgents that perform calculations required for better interpretation automatically and in real-time. They deliver information that specialists require to make fast and efficient decisions.

SmartAgents can also perform tasks such as the identification of invisible lost time, to help determine fluid and rock parameters, or to assist with decisions related to hydraulics, drilling parameters, petrophysics, or rock properties. SmartAgents can also be custom built using your own in-house developed proprietary algorithms.

Support24

As you would expect with real-time solution providers, SiteCom comes with comprehensive 24/7 support through our dedicated centres in Europe and the US. The centres share the load to ensure that the same level of support is available whatever time of day and whichever region you are working in. Additional operational support can also be provided as an add-on service for when your drilling operation is in the most critical stages.



Real-Time Operations Centres

After building over 300 environments focused on supporting real-time operations and collaboration over the past 7 years, KONGSBERG is able to deliver collaboration rooms and real-time operation centers that are customized to take advantage of the SiteCom® platform. We also provide support in designing real-time work processes and change management related to integrated operations within your Intelligent Oilfield.

We are There, Whenever You Need Us

The Kongsberg Oil & Gas Technologies customer services organization is committed to providing easy access to service and support, and to responding promptly to your needs. Activities are supervised from our headquarters in Norway, with centers at strategic locations around the globe – where you are and the action is. As part of our commitment to total customer satisfaction, we offer a wide variety of services to meet our customers' specific operational needs. We can adapt to the level of support required by offering service agreements and fast on-site response arrangements.



Global and local support
Service and support work is carried out under the supervision of your personal account manager, who will ensure that you receive high-quality service and support where and when you need it. Your account manager will ensure continuity and work closely with your staff to improve and optimize system availability and performance. Under the direction of your account manager, our well-qualified field service engineers will be able to help you quickly and effectively, wherever you are and regardless of the levels of support required.

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