

optimize

your upstream operations

maximizing profits and cutting TCO

There is no easy oil any more. Costs of exploration and production are rising and it is vital to squeeze as much value as possible from available every hydrocarbon molecule

Oil & Gas companies are increasingly operating in marginal locations, where costs and risks are higher than ever. They are under extreme pressure to maximize operational efficiency end to end, while also meeting much more stringent safety standards, both to safeguard the environment and people working in often very difficult conditions.

Making a step change in performance is not easy, and one factor holding back operational improvement is the existence of silos across the full lifecycle. Business information and operational data exist in different technology worlds, so giving decision-makers an up to date, integrated view of current status can be extremely difficult.

At the same time, the industry is losing corporate knowledge, owing to a shortage of skilled engineers, while a generation of experts is reaching retirement age. That reduces access to high quality insights and experience, which in turn makes it harder to reuse best practice.

External factors are also changing the entire industry, as National Oil Companies become more assertive and political sensitivities about energy availability continue to grow. There are few certainties and many sources of unpredictability in this market, but there is one factor you can bet your business on: TCO must be reduced and the only way to achieve this is through a more innovative and integrated approach to operational efficiency.

Real-time intelligence

To optimize everything from exploration to long-term production and beyond, corporate decision-makers need access to real-time data covering all systems and processes in a long and complex value chain. That means being able to see live data from every well and production site, showing all key indicators, integrated in a single view.

This approach offers two vital benefits to decision-makers. First, it leads to operational intelligence that can be used to optimize performance, both at specific points and across the board. Second, it leads to the aggregation of insights, experience and best practice knowledge, making it possible to create knowledge repositories that help drive continuous performance improvement.

Once you enter the world of real-time intelligence, everything changes for the better. Decisions are based on richer, deeper and more up to date information; operational and business-related indicators are combined so that decision outcomes can be fully assessed and evaluated; and improved predictive management cuts out downtime and further improves the efficiency of everything you do.

From rig to CEO dashboard

Atos Worldgrid delivers real-time systems for monitoring and performance optimization across the entire upstream and midstream value chain.

From one end of the value chain to the other, Atos Worldgrid Oil & Gas solutions helps to make real-time management a reality. Atos creates a comprehensive digital mirror of upstream operations, making it possible for all decision-makers to have a complete, up to the minute, end to end view of what is really happening in all core systems.

Delivered in the form of customizable dashboards, the Atos solution enables managers to see how every asset is performing, while giving early warning of potential issues and permitting simulation and modelling to test new strategies and enables best outcomes to be defined. Atos will:

- ▶ Give individual users and functions exactly the right data and analysis
- ▶ Capture all data, analyses and outcomes to ensure that no important information is lost
- ▶ Build a best practice repository, cutting duplication of effort and potential time-wasting.

Atos bridges the gap between Operational Technology (OT) and Information Technology (IT). From sensors at the wellhead to core ERP and beyond, the Atos approach destroys silos and provides a single, integrated approach to performance optimization. It's the key to delivering maximum efficiency gains, reducing TCO and driving real competitive advantage.

“You cannot get the best out of your physical resources unless you know how to get the best out of your digital resources - and that means busting the traditional silos of oilfield production.”

A global leader

With 1,600 dedicated experts around the world, and strong relationships with leading players such as BP, Shell and Total, Atos Worldgrid has 30 years' experience as a key partner in success.

Atos delivers advantage to its clients by giving them a single view of all operational parameters. That enables optimization across the value chain without having to build multiple management systems or “translate” between different technologies.

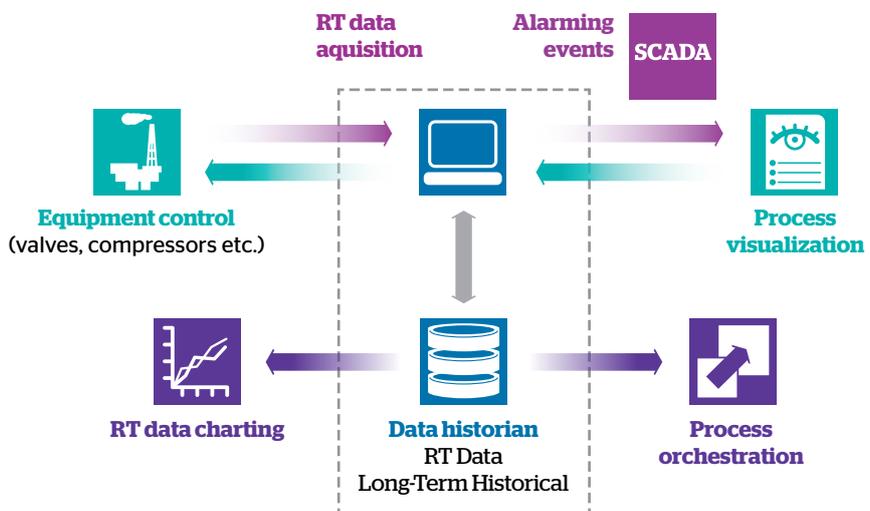
Atos Worldgrid is also a key partner for innovation:

- ▶ Working with Technip, Samsung Heavy Industries and SBM, Atos is providing the ground-breaking technology platform needed for the world's largest vessel and new Floating Liquefied Natural Gas (FLNG) system

- ▶ For Total, Atos has developed the intelligent Well Monitoring System, giving early warning of potential problems, simplifying diagnosis and enabling fast and effective intervention
- ▶ At the sharp end of the industry, for initial drilling, a breakthrough service from Atos has enabled one of the world's top Oil & Gas services companies to provide real-time data via standard systems and platforms to a growing number of end users.

An integrated view of all systems and processes in the value chain is the key to a step change in performance. Atos has the vision, track record and capability to bring clients into the real-time world, right here and now.

Oilfield monitoring and optimization



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