



# Qlik Solution for Oil & Gas Asset Integrity Management

## Asset Integrity Management to improve reliability & component uptime

### Challenge

The efficient operation of a large Oil & Gas enterprise requires investment in specialist equipment (assets) which need their integrity to be managed carefully in order to realize the greatest benefit and return. These assets often need careful monitoring and ongoing maintenance to ensure peak performance and such maintenance usually involves specialist engineering skills to be trained across a team of field engineers. This challenge can be exacerbated where key assets, spare parts and engineers are all moved around the globe to suit varying business needs. Sometimes simply locating assets or parts can delay important work.

Various roles within an enterprise typically have a range of different requirements from the various reports that can be formulated to support business planning, operational decision making and service level reporting. These reports are often custom developments from individual systems for specific requirements and can be challenging, time consuming and expensive to change or develop further.

In summary, the challenges many organizations face are: increasingly complex assets, maintenance regimes and specialist skills; asset data is stored across multiple systems; coordinating the collation of data from these multiple systems to prepare different reports; having disparate needs from a variety of users.

### Solution

Many organizations simply operate separate systems with discrete reports for specific needs. However, it is unlikely that this will realize the many benefits of a more coordinated approach where delays and complexity can frustrate plans.

Our Qlik Data Discovery platform allows you to combine the data from disparate systems in a single application to suit the needs of many different users.

Our Asset Integrity Management App includes a wide variety of visualizations (including trends, bar-charts, radar-charts, pivot tables, pie-charts, funnels, block-charts, mekko-charts, heat maps, x-y plots, geographical maps, etc.) which will help to demonstrate the "art of the possible" for a holistic Asset Integrity Management facility which can then be tailored to suit the specific needs of any organization.

This can then form the foundation of a powerful enterprise wide Asset Integrity Management facility, which can bridge the needs of many different users.

### Benefits

- Gain a full 360 degree view of your assets: current operating condition, work order status; reliability - uptime, downtime and Mean Time To Failure (MTTF); the current location of assets, spare parts or skilled engineers.;
- Improved maintenance scheduling and uptime directly improving the wider operational goals of your enterprise.
- A single common App can be used to analyze a wide variety of Assets dispersed globally by any user creating a single version of the truth.
- The App can be updated automatically intra-day, releasing valuable departmental time for in depth analysis, rather than assembling reports.
- Typical return on initial investment can be achieved within 3 months.

### About Qlik

Qlik provides a leading Data Analytics platform, delivering true self-service analytics that empowers the business user by driving innovative decision-making. Contact your Qlik representative to schedule a discussion and live demonstration related to this solution area.

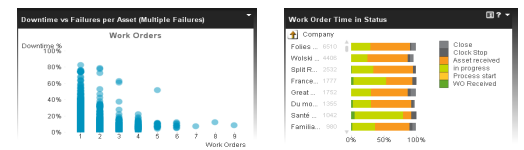
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### Example:

Our consultants will work with you to pull all of your asset data together across the full hierarchy of Assets (from whole Operating Units, Modules, Assemblies, Components and Parts); Asset Costs & Values; to Work Orders (scheduled, pending, completed); through to Engineers & their skills, to allow users to visualize the full inventory of Assets and their operating condition.



The resulting Qlik App would allow users to select from a range of dimensions which can be readily configured to suit your needs. Examples include business unit; site; operating company or contract, asset type etc. You can then build a powerful view of all assets deployed (their current operating condition, work orders pending, scheduled or awaiting action); asset reliability (uptime, downtime & MTTF); engineers and their skills; the availability of parts; plus the location of assets, parts or skilled engineers:



### Example:

The Qlik App would have a wide range of visualizations including trends, bar-charts, heat maps, geographical maps etc. selected from our best of breed visualization library, ready to be customized for each implementation, saving valuable development time.

