

Case study

Petrobras RTO Live

COMPANY OVERVIEW

Petrobras team focuses on investing and developing technologies to improve well safety and reduce well costs. The R&D team works with the offshore well construction group to continuously optimize the drilling process and better understand areas for cost savings and safety improvements.

THE CHALLENGE

Petrobras team had a good understanding of the type of analyses that would drive increased safety and reduced cost, but the data governance and analytical tools were not developed enough to allow the team to effectively perform these analyses. More specifically, the team faced the following challenges:

- ▶ Data taxonomy was inconsistent;
- ▶ Accessing data and sharing knowledge was challenging because data was stored across different stakeholders;
- ▶ Different analyses required different software programs;
- ▶ Developing custom analyses was time consuming;
- ▶ Data collection interruptions went unnoticed;

Intelie's solution

Intelie's RTO Live analytics platform solves both data governance and analytics challenges. Intelie's data governance platform allowed efficient consolidation of service providers' data enabling access from a single access point and automatically recodes the data to ensure a consistent taxonomy. The Intelie platform continuously monitors data streams from service providers and alerts users when data transmissions are offline.

Intelie's RTO Live analytics platform houses a library of analysis modules, eliminating the need of the traditional usage of multiple software resources for performing analyses. The flexible and extensible platform also allows for quick development of custom analyses.

THE RESULT

Petrobras' Real-time Operation Center assisted the development of Libra oil-field wells using Intelie software.

Intelie's data governance solution immediately saved 90% of costs versus the previous software, in order of magnitude it means millions on first year. These savings do not yet include the cost reduction from drilling operations. Intelie solution made it feasible to achieve current savings by allowing Petrobras to:

- ▶ Reduce data costs from field services companies;
- ▶ Reduce data request cycle times (from days to seconds);
- ▶ Perform both standard and more customized analyses in less time and with lower software licensing costs;
- ▶ Delivery guarantee of data from service providers and ensuring data standards compliance;

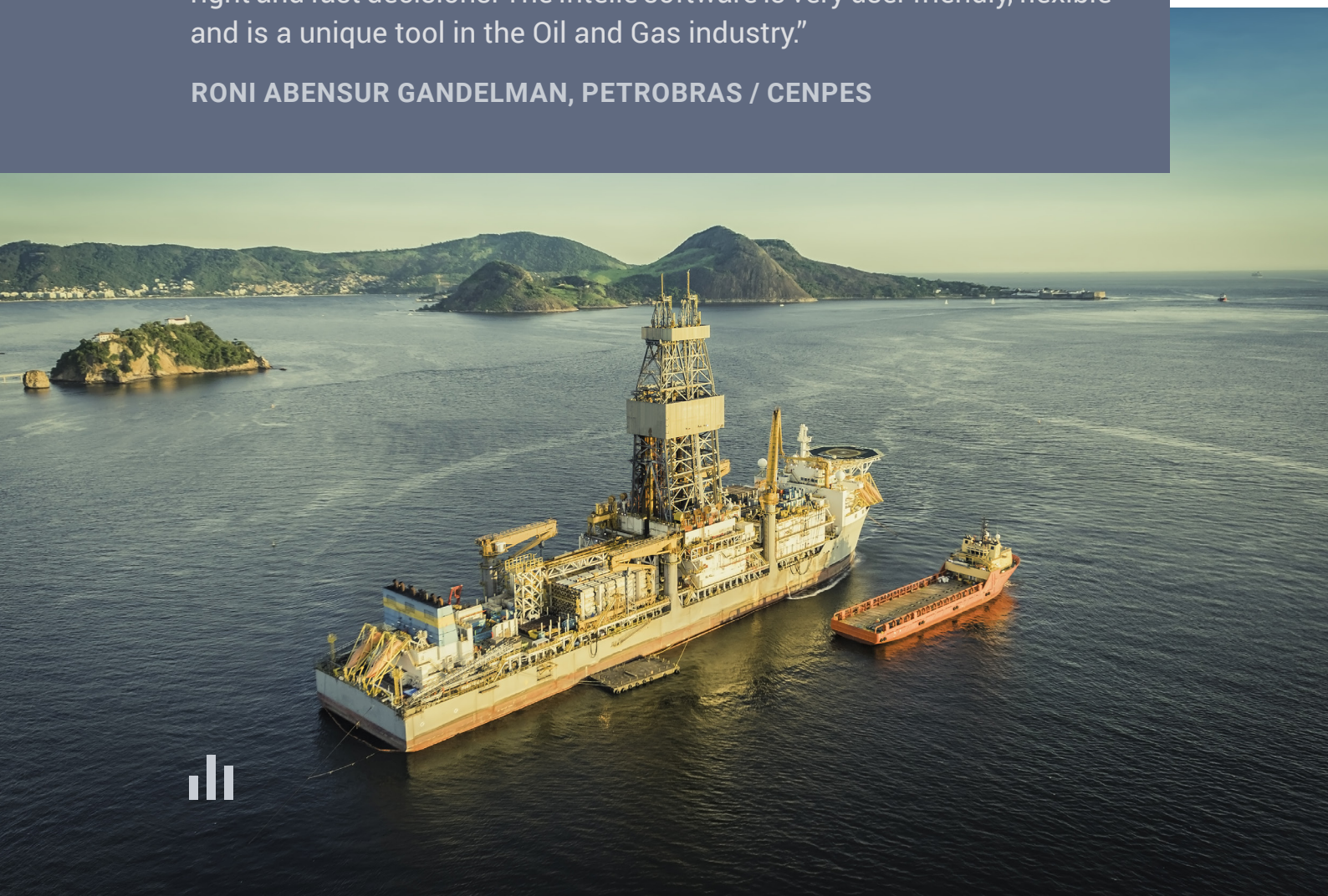


The Intelie solution allowed Petrobras to identify and address potential well issues in a more accurately and quickly pace, while reducing the overall data and analytics costs.

TESTIMONIAL

"Our motivation to use RTO-Live is cost reduction. The new tool will allow us to save about R\$ 10 million in 2016. This estimate still does not include the potential drilling optimization (drilling time reduction and drilling cost reduction). The tool also helps the company to identify real time data transmission problems, such as wrong units conversions. Besides, the software allows the integration of different specialist systems, such as Pronova and PWDa (Petrobras' real time drilling operational problem diagnostic software). The system is being successfully implemented in Petrobras and helps the Decision Support Centers personnel to make right and fast decisions. The Intelie software is very user friendly, flexible and is a unique tool in the Oil and Gas industry."

RONI ABENSUR GANDELMAN, PETROBRAS / CENPES





Discover Intelie Live Solution for Oil & Gas Companies

INTELIE LIVE IS A STREAM ANALYTICS PLATFORM THAT HELPS YOUR COMPANY TO TRANSFORM DATA INTO RESULTS. CLOUD OR ON-PREMISES.



COLLECT
DATA



CONTINUOUS
PROCESSING



ACTIONABLE
INFORMATION

How it works

Intelie Live can collect data from any source, from geology to BOP, process these data in real-time (filter, aggregate, correlate, enrich) and transform it into actionable information. The platform combines the power and flexibility of Intelie Pipes, one of the world's most advanced stream processing and query language, with an easy to use interface for the final user.

The real-time data visualization gives you the insights you need to improve your operational intelligence. And its continuous monitoring scenarios and predictive analytics capabilities deliver alerts with the information you need to prevent problems and to foresee opportunities.

Our oil & gas solution can help you

- ▶ Save time and money by easily accessing data and knowledge through a single source;
- ▶ Minimize interruption of data collection and ensure data quality;
- ▶ Reduce non-productive time through early identification of potential drilling issues;
- ▶ Reduce time and costs of acquiring complete and usable data by ensuring field service companies stay data compliant.

Intelie Live oil & gas solution can provide your operation with:

- > Automated data mapping tool and data inconsistency alerts.
- > Library of analyses modules within single, integrated platform.
- > Flexible and extensible coding language and visualization tools.
- > Ability to analyze data in real-time to immediately identify potential drilling problems.
- > Standard set of off-the-shelf solutions to meet the majority of analysis and KPI metric needs.
- > Rule based algorithm that checks for data completeness and metric consistency; automated report that provides evidence of data completeness.



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