



# Real Time Analytics (RTA) Offshore Oil Field Operations





# Key RTA Solutions in Oil and Gas







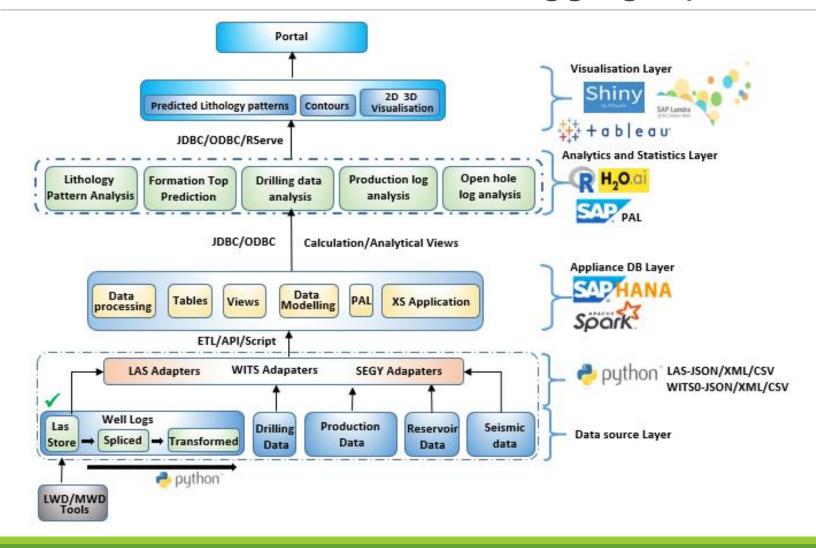
#### Key RTA Solutions in Oil and Gas

LAS logs from 100+ well logging sites **SAP HANA certified solution** Well **Upstream Data** On-demand visualization, prediction of sub-surface patterns Logging/ **Analyzer (UDA)** LAS Includes Adapters, Views, Analytics and Dashboards Handles real-time sub-surface data from drilling **Driller's Network** Drilling/ Console Enables real-time dashboards for drilling - mud, pump, drill assembly, well integrity and tanks WITS0 (DrillNet) Includes Adapters, Views, Analytics and Dashboards Handles real-time asset performance data from production pumps Production **Asset** Flow Data/ Enables visibility to asset performance, prediction of asset failures Performance **Analyzer (APA)** Time Series Includes Adapters, Views, Analytics and Dashboards





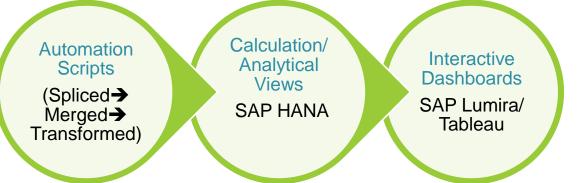
#### Solution 1 - RTA from Well Logging Operations

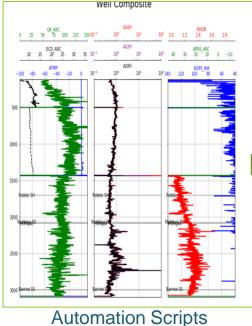


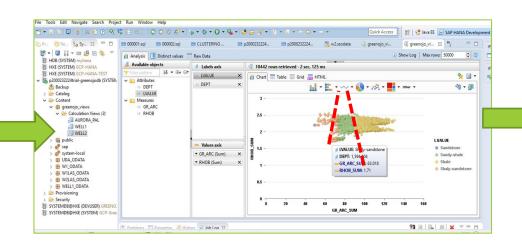




# Solution 1 - RTA from Well Logging Operations







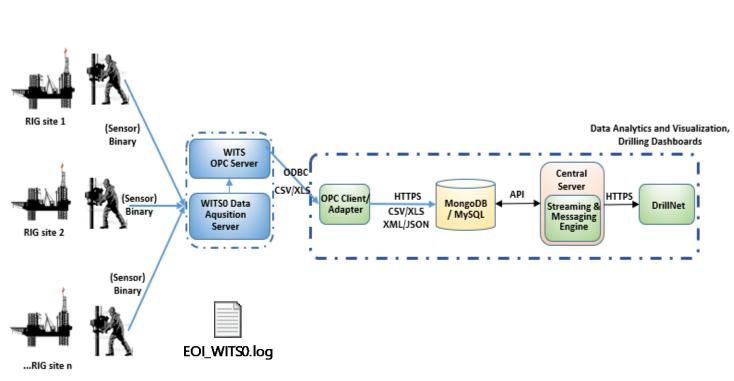


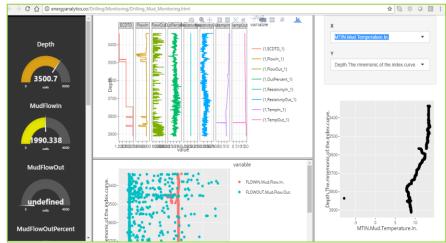
Calculation/Analytical Views

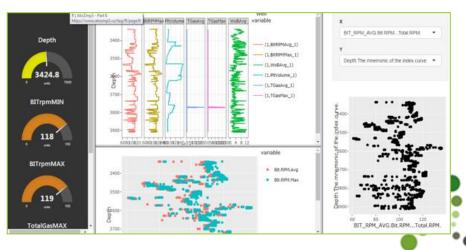
Tableau



## Solution 2 - RTA from Drilling Operations

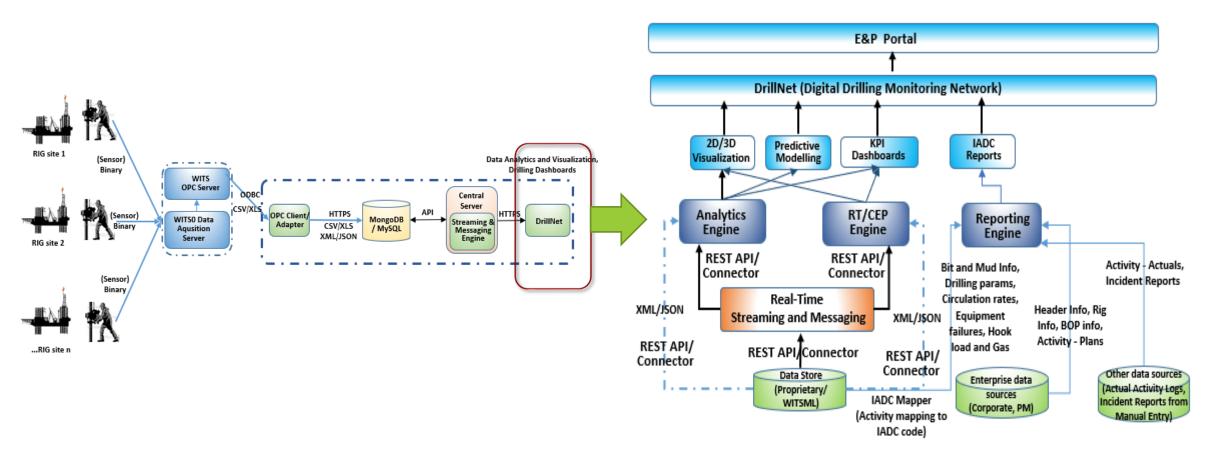








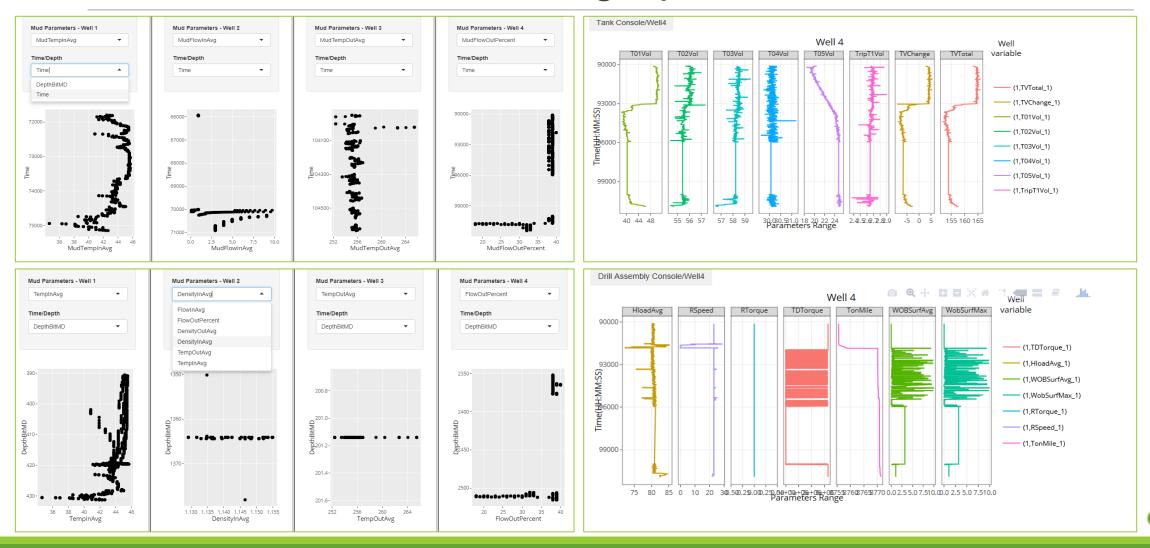
## Solution 2 - RTA from Drilling Operations







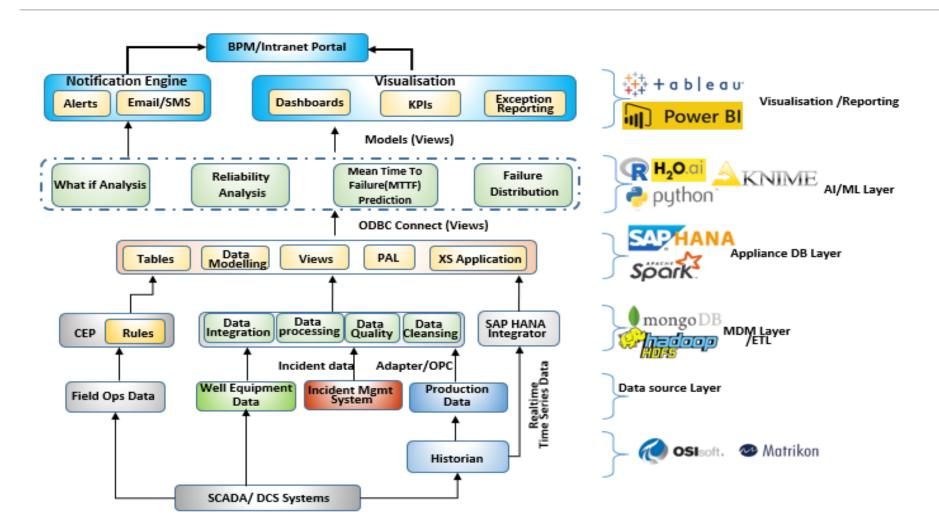
## Solution 2 - RTA from Drilling Operations







#### Solution 3 - RTA from Production







PI Integrator for SAP HANA



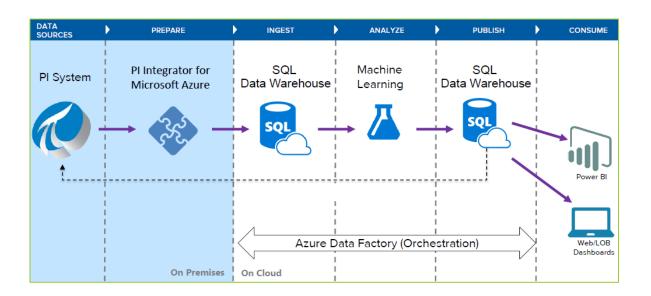
PI Integrator for Microsoft Azure

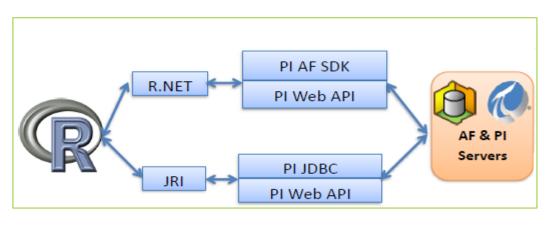


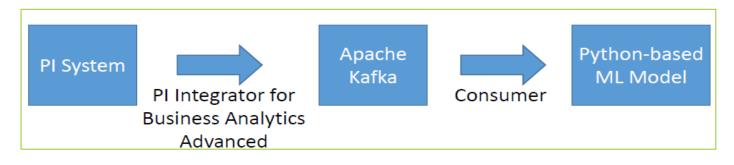


#### Solution 3 - RTA from Production

Other alternatives for RTA on top of OSI PI Historian



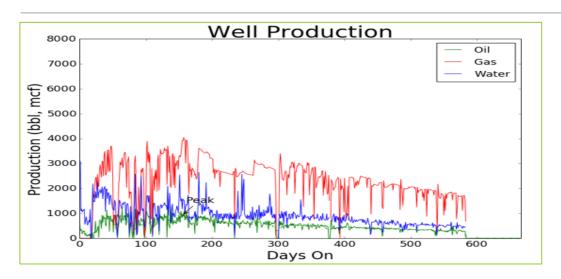






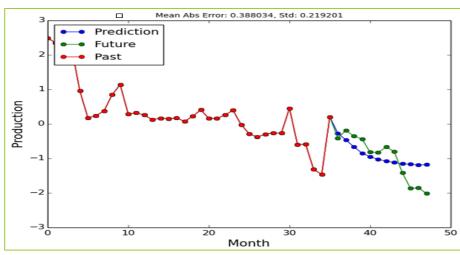


#### Solution 3 - RTA from Production





- Convolutional Neural Network (CNN)
- Multilayer Perceptron (MLP)
- Recurrent Neural Network (RNN)
- Restricted Boltzmann Machine (RBM)







#### **Industry Recognition**



https://www.energistics.org/wp-content/uploads/2018/07/Community-Headlines-July-2018.pdf

#### SAP.startup.focus.

https://news.sap.com/2017/05/sap-startup-focus-drives-enterprise-innovation-exceeds-5500-startup-members/



https://blogs.saphana.com/2017/10/18/combining-oltp-olap-real-time-data-streaming-realize-promise-iot/



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## **Thank You**

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