



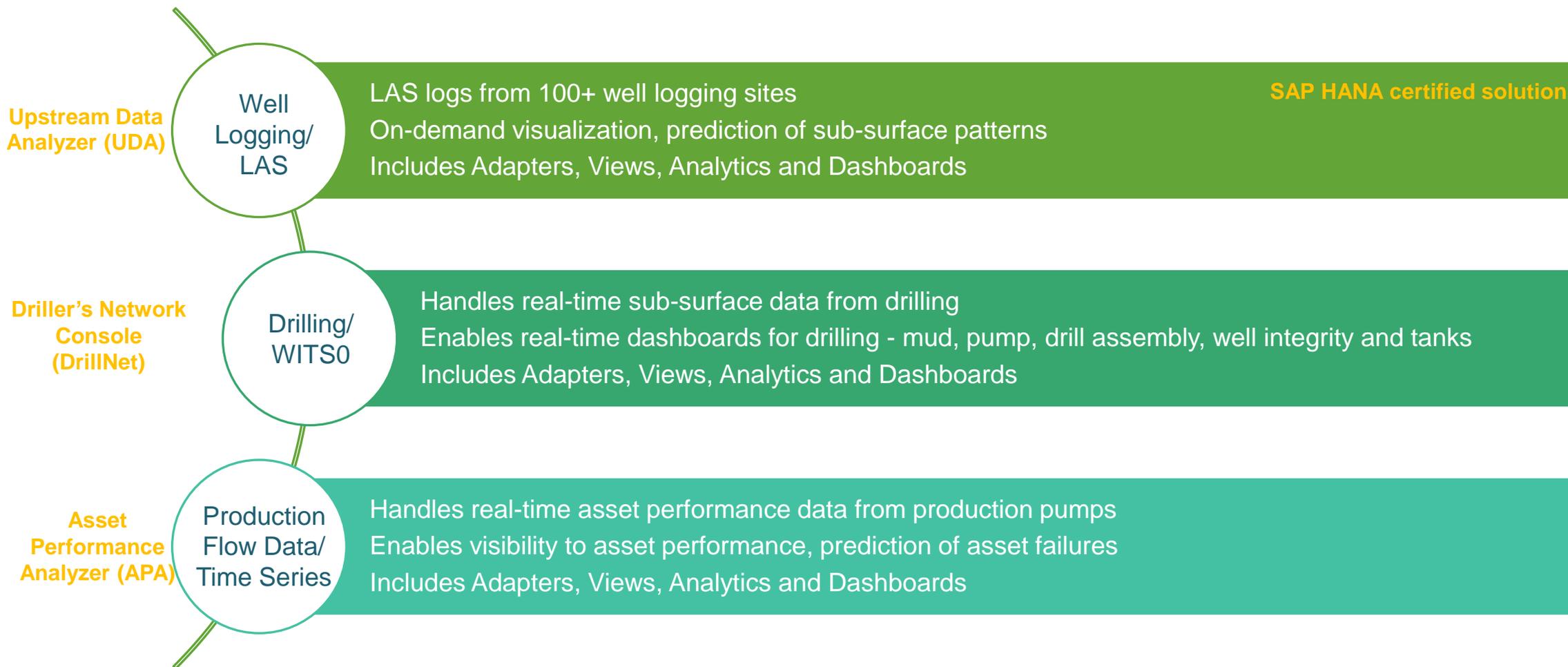
Real Time Analytics (RTA) Offshore Oil Field Operations



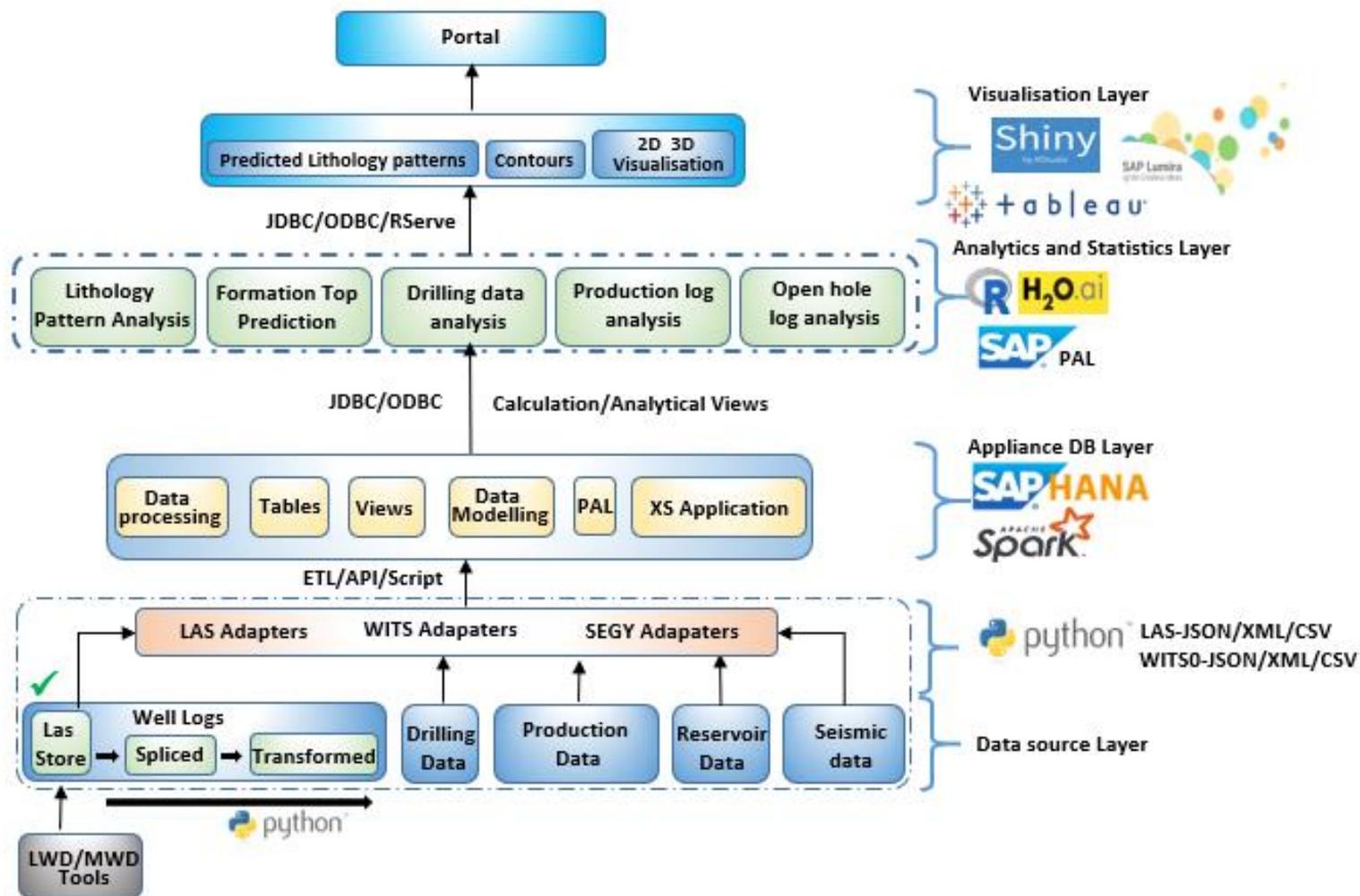
Key RTA Solutions in Oil and Gas



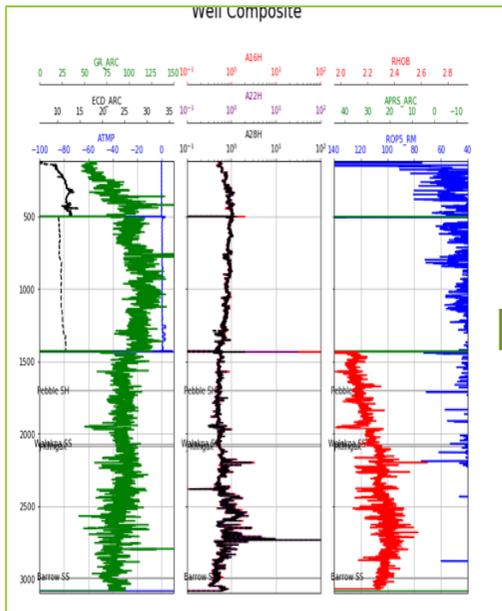
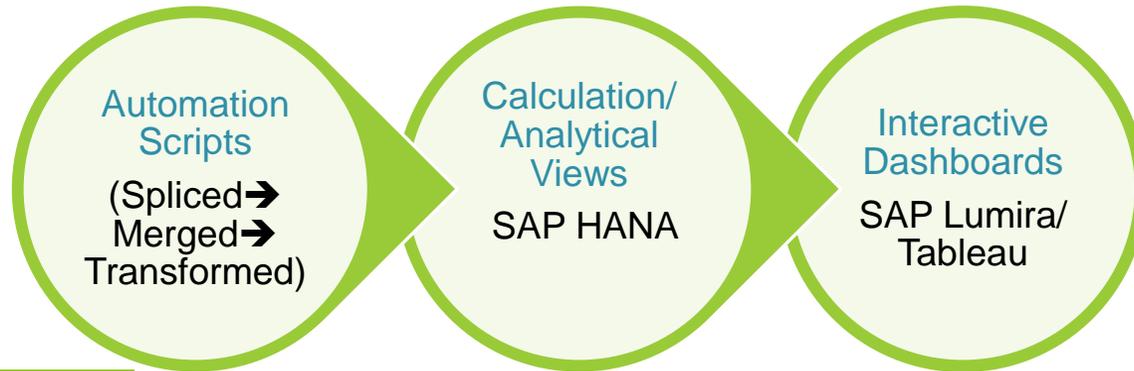
Key RTA Solutions in Oil and Gas



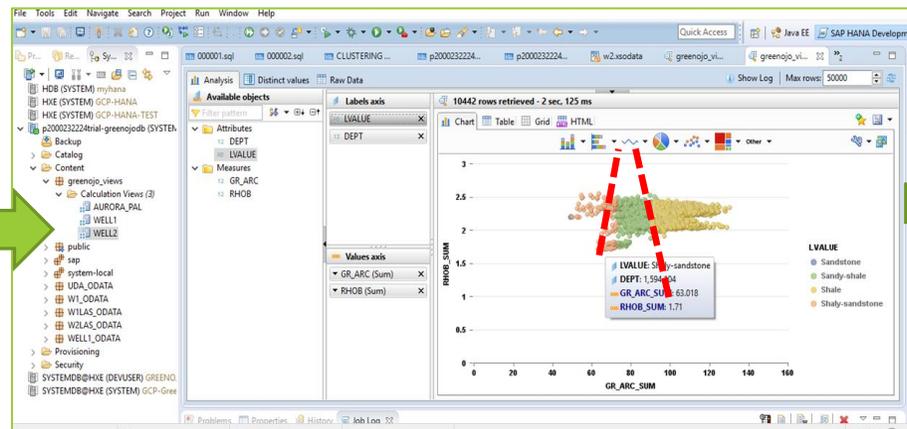
Solution 1 - RTA from Well Logging Operations



Solution 1 - RTA from Well Logging Operations



Automation Scripts



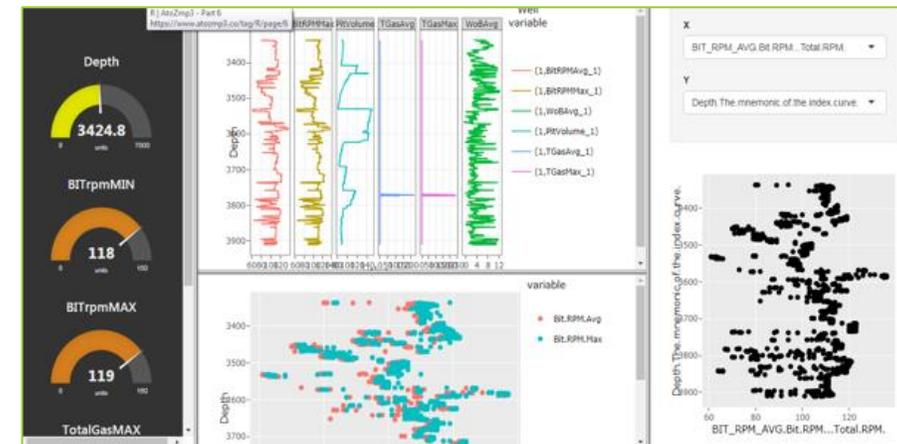
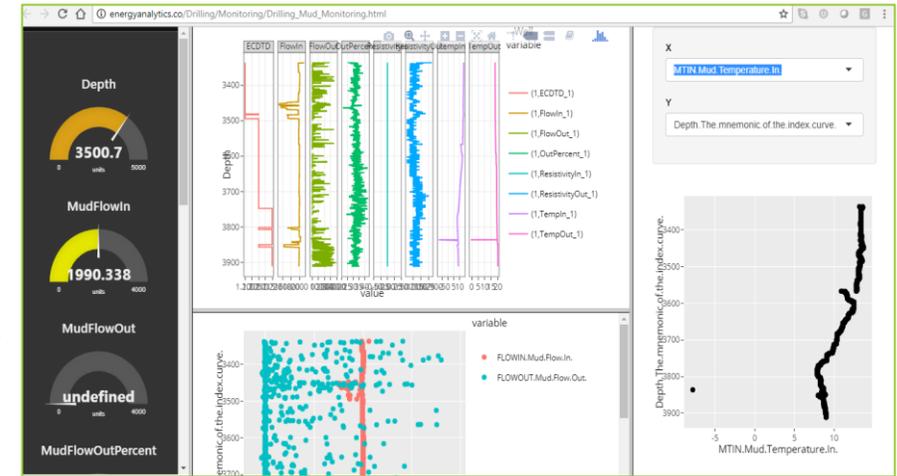
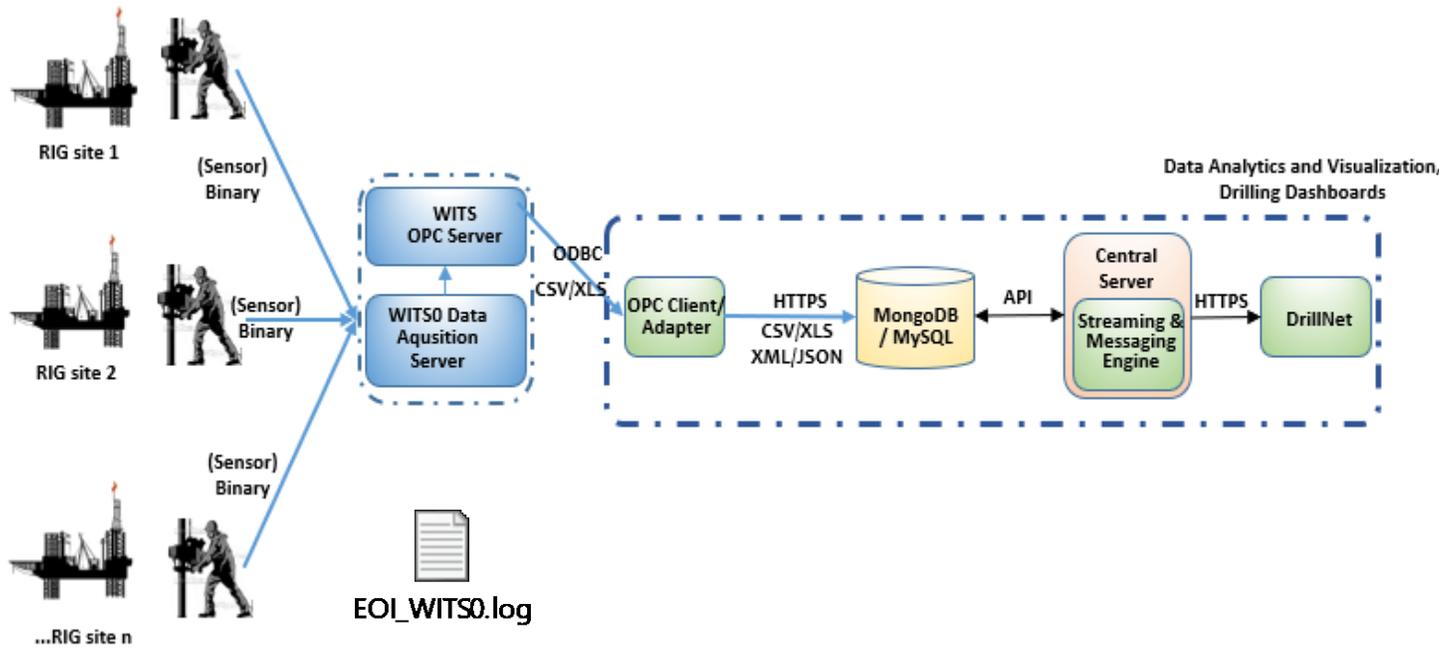
Calculation/Analytical Views



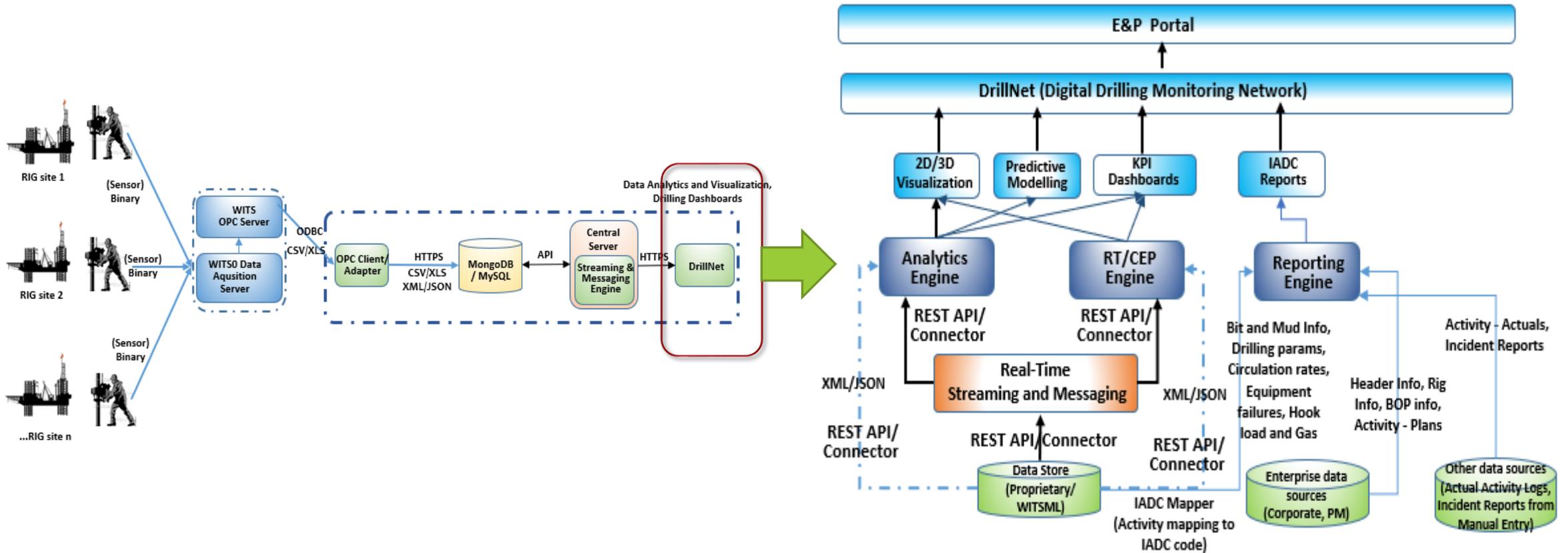
Tableau



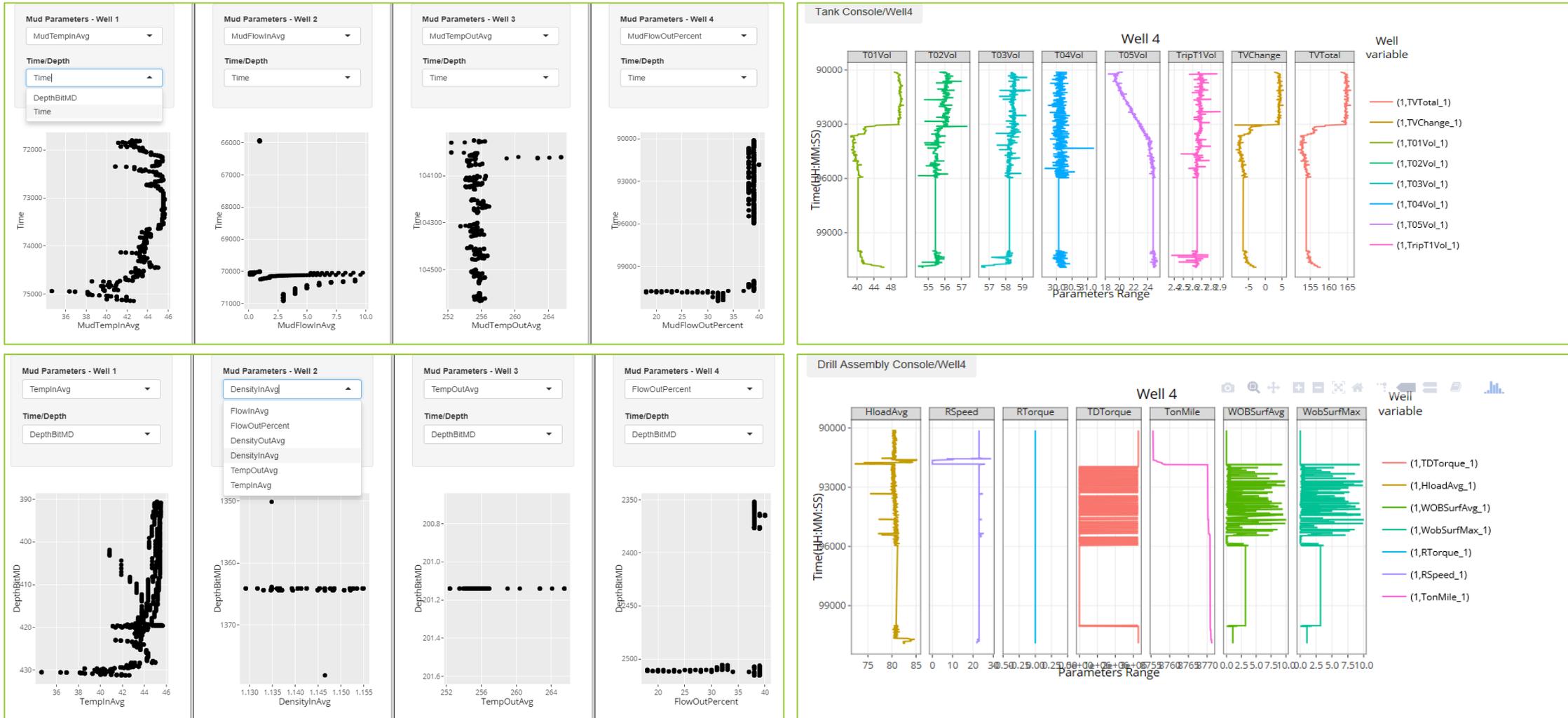
Solution 2 - RTA from Drilling Operations



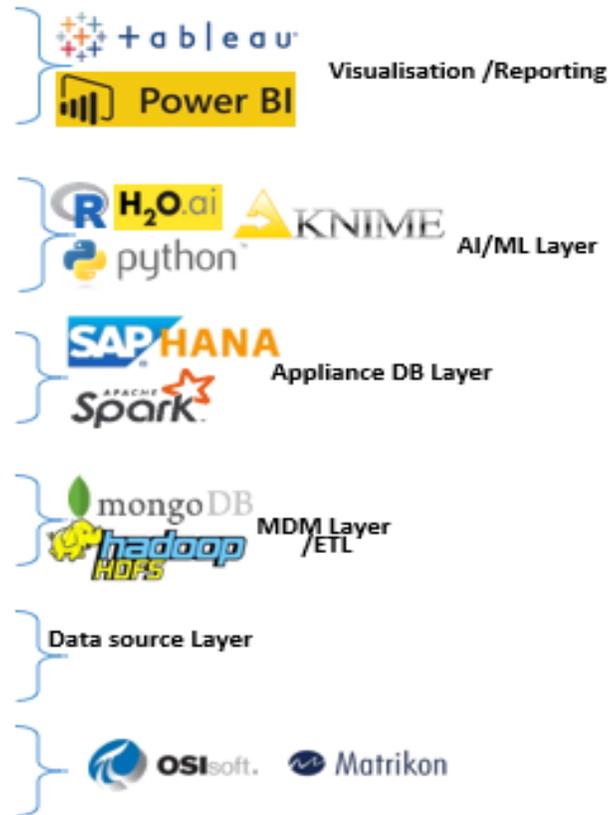
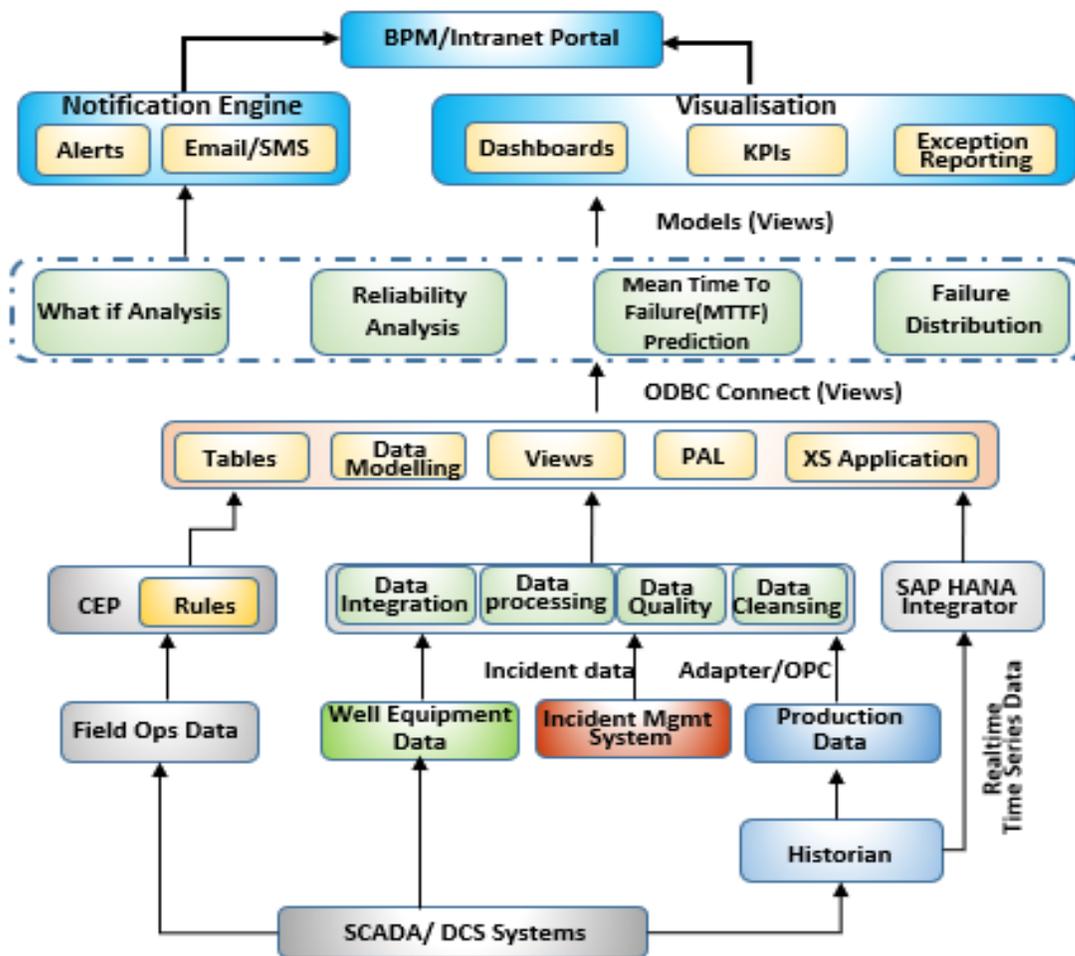
Solution 2 - RTA from Drilling Operations



Solution 2 - RTA from Drilling Operations



Solution 3 - RTA from Production



 **kafka Spark**
PI Integrator for Business Analytics

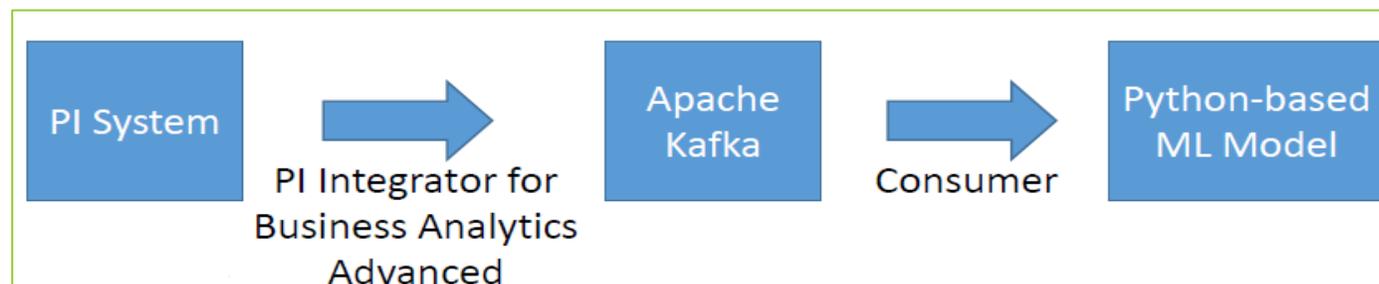
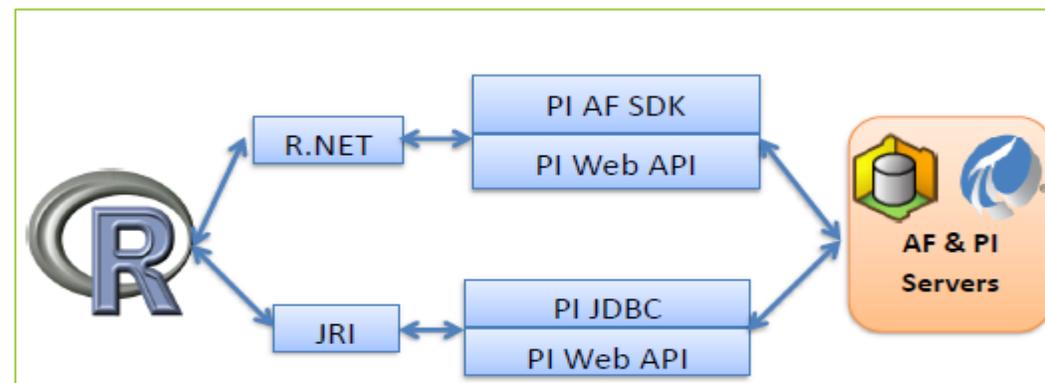
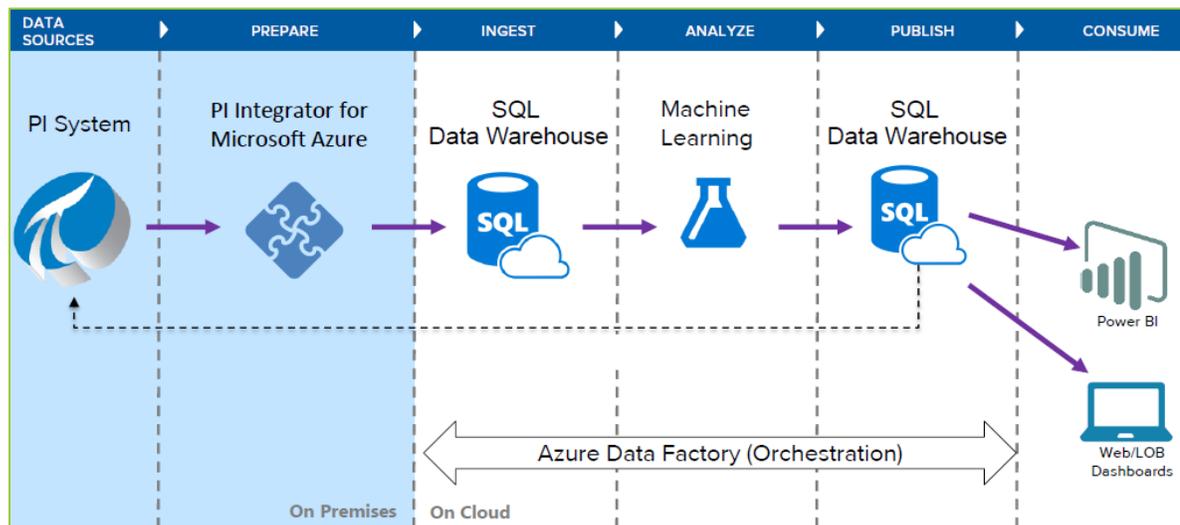
 **SAP**
PI Integrator for SAP HANA

 **Microsoft**
PI Integrator for Microsoft Azure

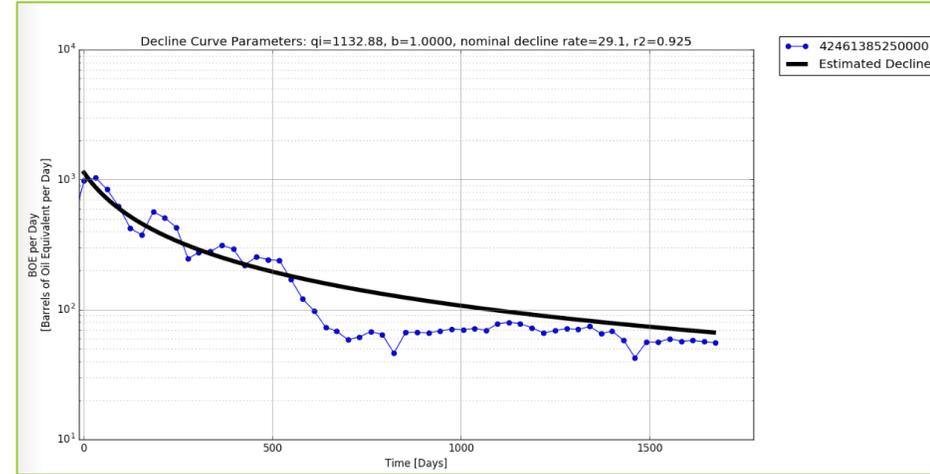
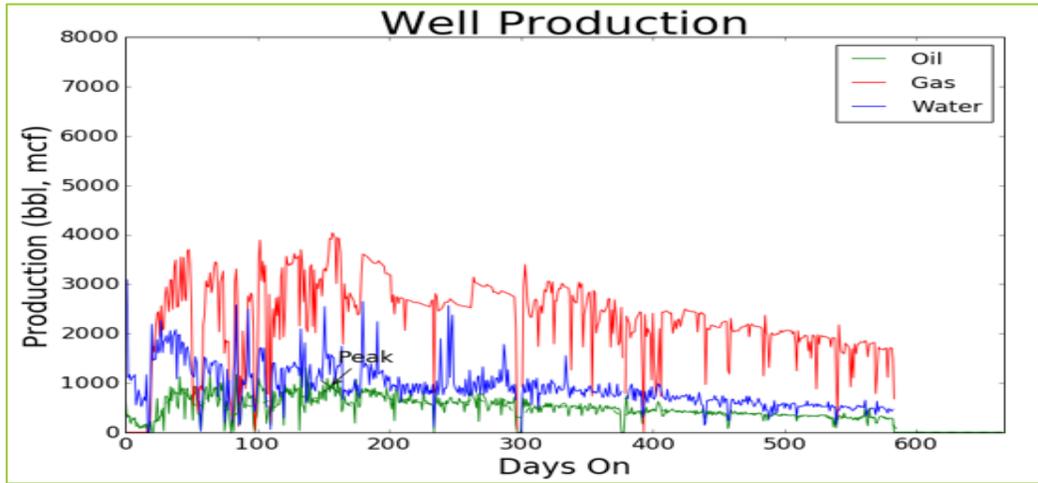


Solution 3 - RTA from Production

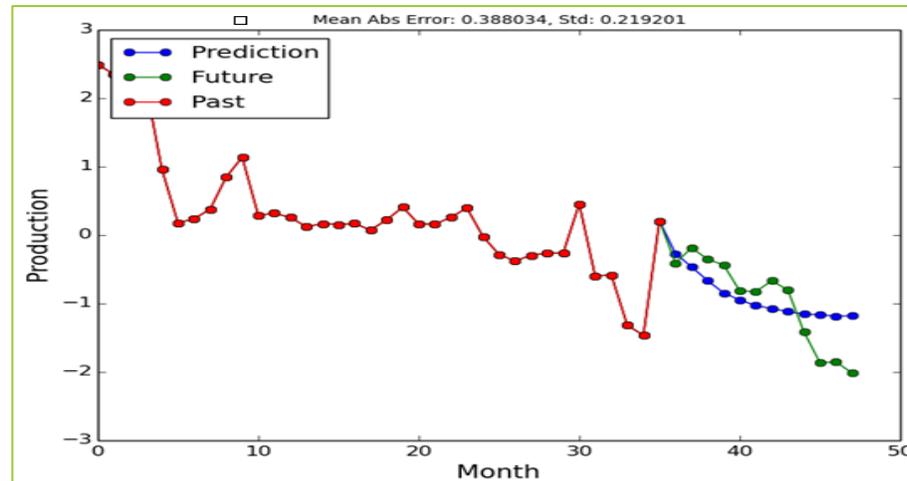
Other alternatives for RTA on top of OSI PI Historian



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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