AVEVAWORLD PARIS



October 2024 Philippe MEGE







Axens in Brief



Offices in **15** countries



Over 3,000 industrial units under license



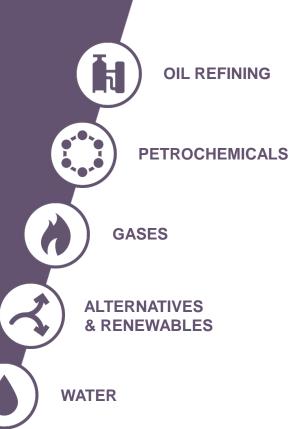
Over 500 modular units references



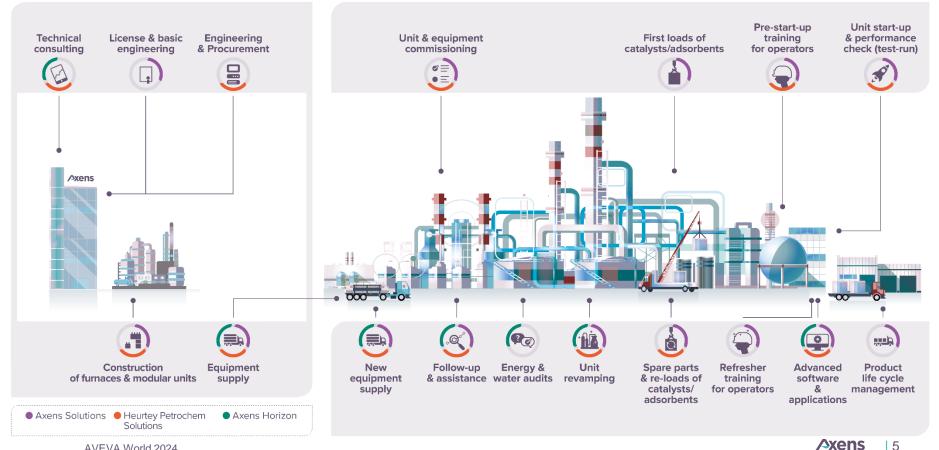
70,000
tons of catalysts
and adsorbents sold
complemented by
catalysts regeneration
services



Over 3,500 process furnaces sold



Axens Group Offer Covers the Entire Plant Life



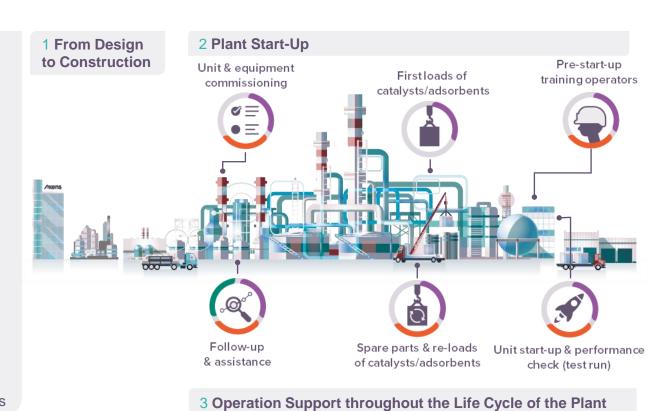
Technical Support

- Provide a Unit "Ready for Start-Up" on time
- Ensure the unit operates in safe conditions at maximum intake and profitability
- Optimize unit performances
- Continuous cloud-based performance monitoring



More details

Axens Solutions



Heurtey Petrochem Solutions

AVEVA World 2024

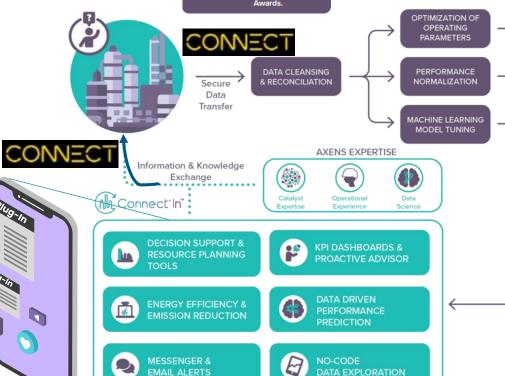
Axens

Axens Horizon

Connect'In® Introduction

Connect'In® is the winner of Best Digitalization Technology for the Hydrocarbon Processing® 2022 Awards.

Connect'In® brings monitoring, optimisation, and prediction tools to a single platform where Axens and its customers can collaborate to achieve energy efficiency goals.

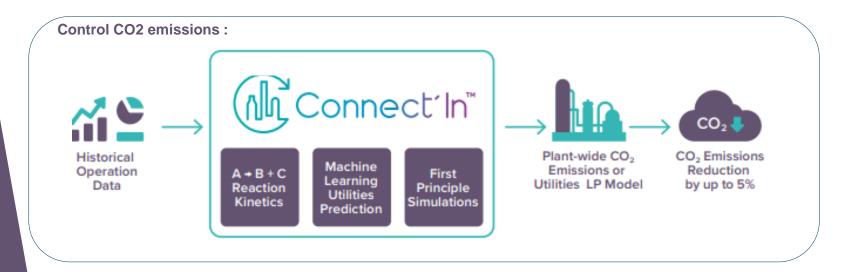




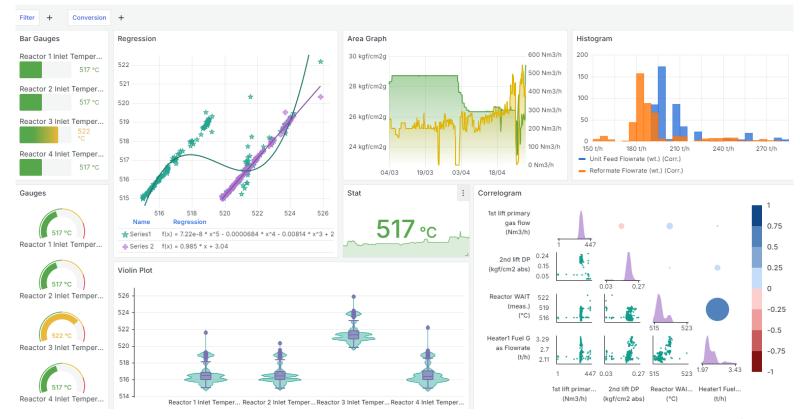
200 UNITS CONNECTED 400 UNITS DEPLOYED

Connect'In® Enhance Unit Performances with Advanced Dashboard

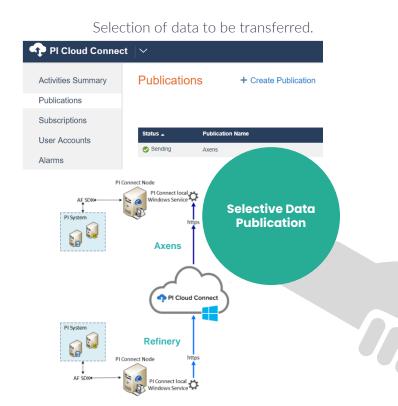
- Providing key operational recommendations at a glance, ensuring quickly and effectively unit performance optimization,
- > Actionable Insights at Your Fingertips: With user-friendly interface, all critical data is displayed in an intuitive, easy-to-navigate format. This allows to quickly identify areas for improvement and implement changes without delay.



Technical Services leveraged by Al as a powerful assistant, augmenting rather than replacing human abilities



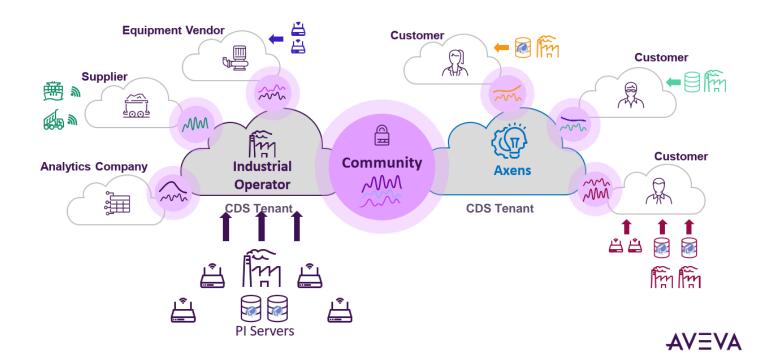
Real-Time Data Collection with OSIsoft® PICC since 2017





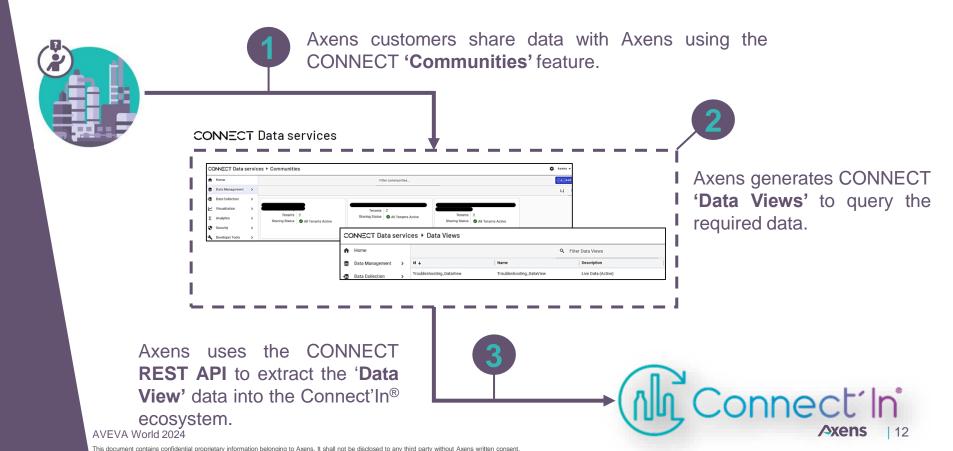
PI Cloud Connect is a Microsoft Azure hosted application that uses a **publish** and **subscribe** mechanism to manage the data flow between PI Systems.

Switch to CONNECT Data Services in 2024



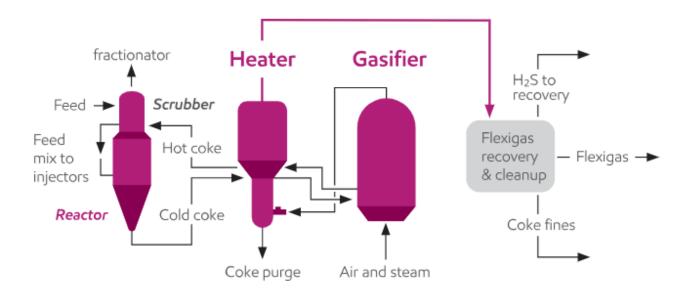


Axens Connect'In[®] & AVEVA CONNECT Partnership



Axens and Helleniq Petroleum cooperation leveraged by CONNECT+Connect'In®

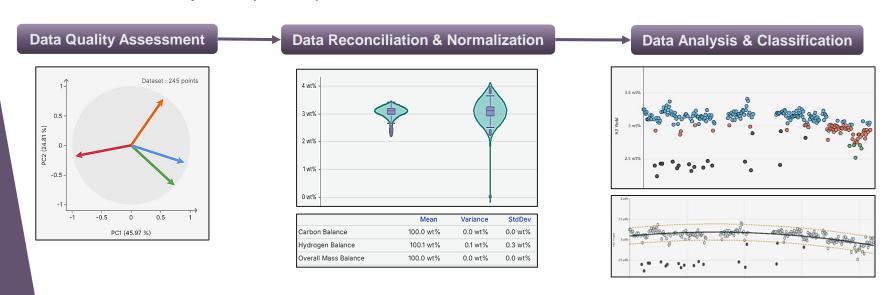
- Successfully connect the Elefsis Flexicoker to Connect'In by partnering with AVEVA and leveraging CONNECT Data service,
- > Allowing real-time data transfer and enables HelleniQ engineers to benefit from real-time insights and advice,
- Now exploring advanced data analysis techniques through Connect'In to enhance the value we provide to our partner





Applied AI in Catalyst Monitoring

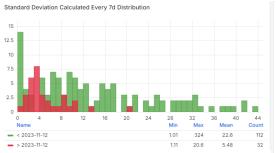
Axens Connect'In® leverages applied AI in our automatic data processes to enhance operational awareness, detect inefficiencies early, and optimize performance.



Connect'In® V4 will support complete *unsupervised* hybrid data analysis by integrating process expert systems, statistical confidence models, and machine learning techniques.

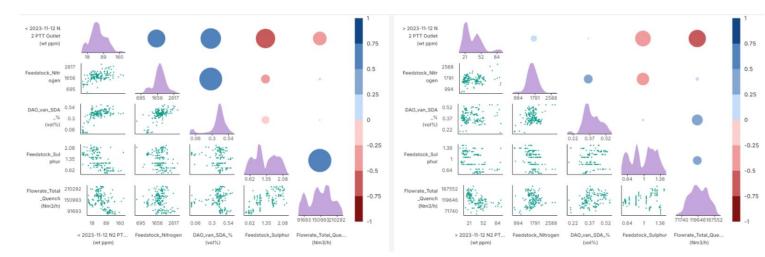
Dashboard to Investigate Drop in N2 PPT Outlet







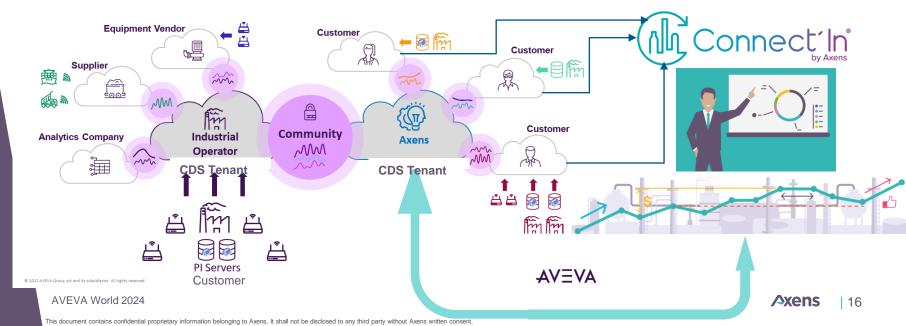
~50% reduction in standard deviation of N2 PPT outlet N2 in period 2 compared to period 1.



CONNECT Data Services

- Multi-tenant architecture designed natively for the cloud, with secure sharing of select data in a bi-directional way across tenants
- Usage of CONNECT within a company led to a considerable reduction in effort for employees who request data across the sites.

Connected community: Powering your industrial ecosystem



Connect'In® to CONNECT: from SaaS to PaaS

Connect'In is a SaaS allowing our clients to access our software via the internet, without local installation

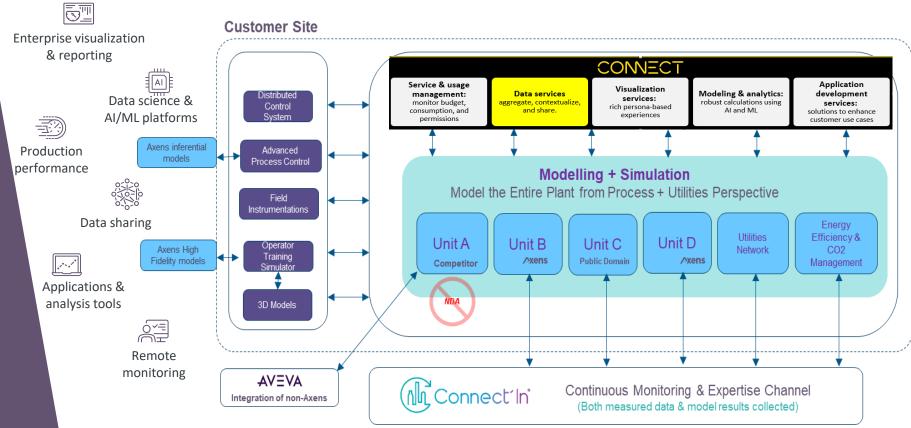
CONNECT is a Cloud platform covering all industrial activities, from engineering and design to operations and production optimization

- Easy access and updates for users,
- No infrastructure costs for our clients
- Axens is proposing Tool + Contents + Technical Services



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Axens Connect'In® embedded into CONNECT



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Questions?

Please wait for the microphone. State your name and company.



Please remember to...

Navigate to this session in the mobile app to complete the survey.



Thank you!

