

FROM HANDOFFS TO PROTOTYPES: SCALING INDUSTRIAL ANALYTICS WITH SEEQ AI AT HONEYWELL UOP

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UOP

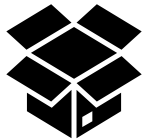
HONEYWELL UOP WHERE LEGACY MEETS INNOVATION



A century of leadership in energy innovation with technologies that extend beyond energy to enable a wide range of global industries.



Powering everyday life producing fuels for cars, trucks, jets and trains, and natural gas for home heating and power generation.



Enabling essential materials from biodegradable detergents to plastic resins, films and fibers used in packaging, consumer goods and fabrics.



Maximizing value and performance through advanced process technologies, equipment, lifecycle solutions and connected software that drive efficiency, profitability and peak plant performance.



UOP TECHNOLOGY POWERS THE WORLD'S CRITICAL ENERGY INFRASTRUCTURE

REFINING



60%

of the world's gasoline

31 of 36

Refining technologies in use today were developed by UOP

PETROCHEMICALS



90%

of the world's biodegradable detergents

70%

of the world's polyester

LOW CARBON ENERGY



50%

of the world's renewable fuels

73

Renewable Fuels Licenses

15M

Tons of captured CO₂ worldwide

+5,000

Process licenses

+1,800

Modular Construction
Implementations

+1,100

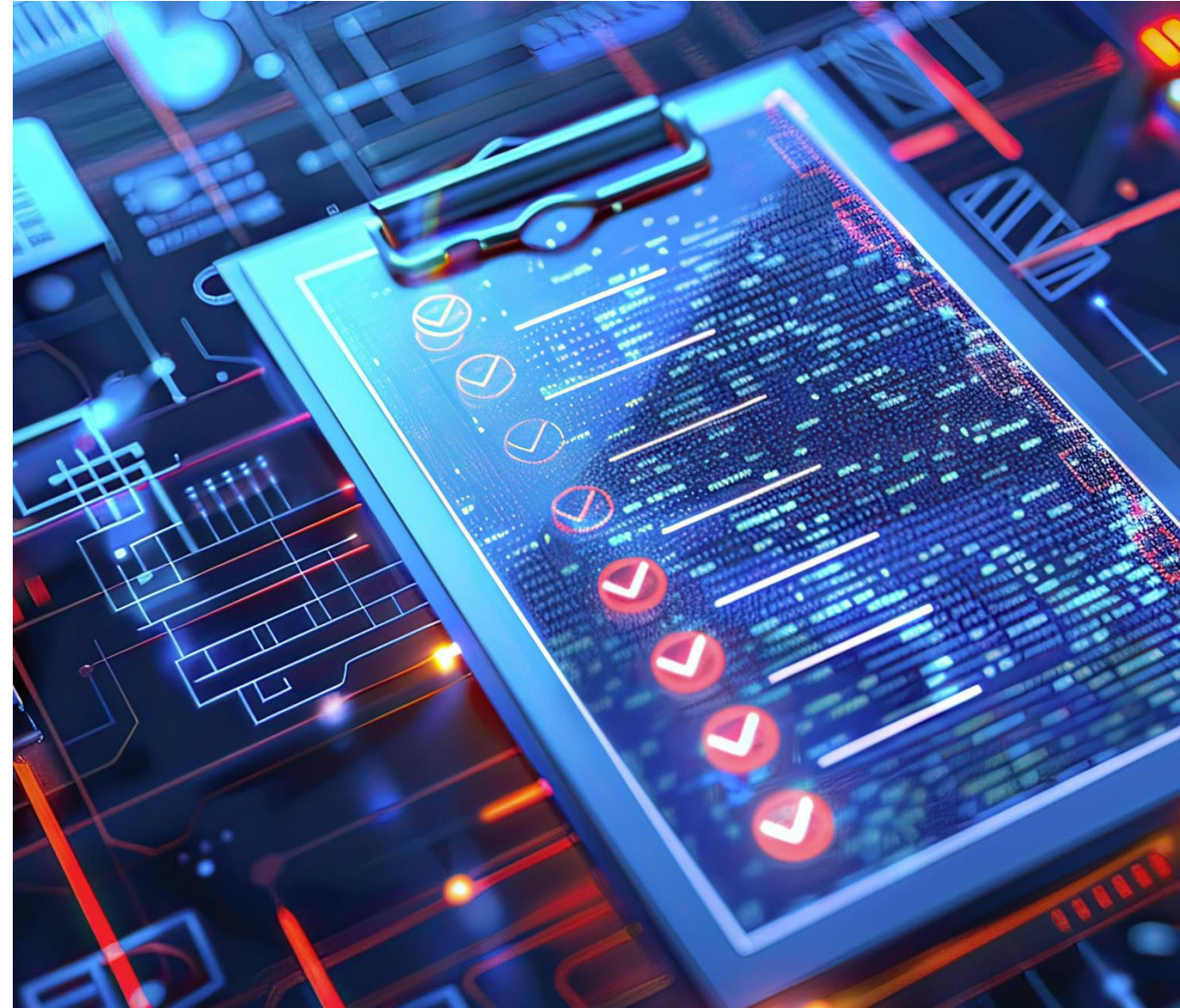
Hydrogen PSA Units
in the field

60%

of the world's
on-purpose propylene

THE CHALLENGE: EXPLORATORY ANALYTICS DON'T SCALE WITH DEMAND

- **Decouple demand from expert bandwidth** by leveraging AI assistants to enable rapid development and testing of new analytics
- **Amplify expert knowledge** by using AI assistants to capture, codify, and deploy SME ideas into new analytics
- **Reduce time spent defining analytics** leveraging AI assistants to let SMEs rapidly prototype and refine analytics independently, minimizing handoffs and the number of people required to create value
- **Enable faster execution at scale** by using AI assistants to shift effort from definition to rapid analytics development, improving time-to-value



THE ASK: EXPLORATORY ANALYTICS NEED TO SCALE WITH DEMAND

The Ask:

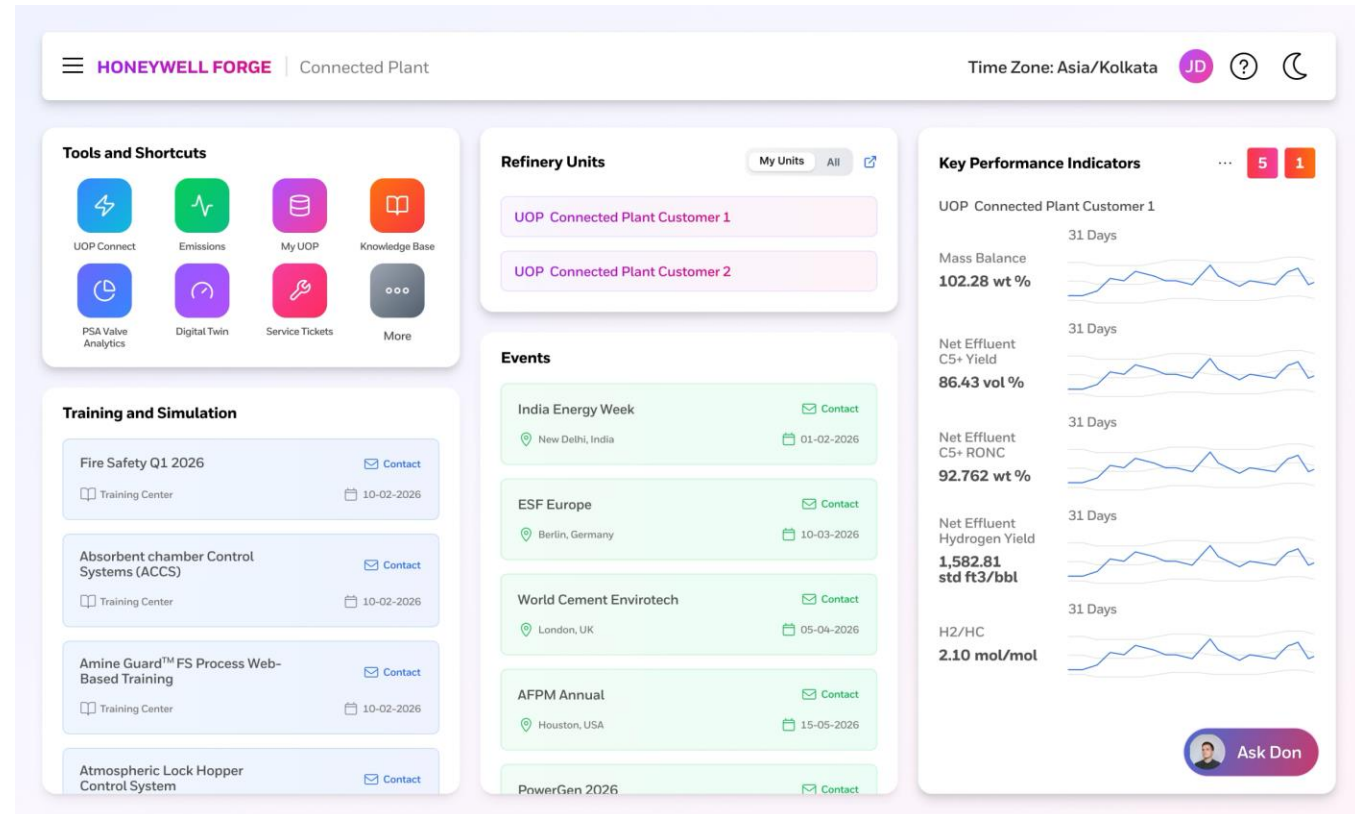
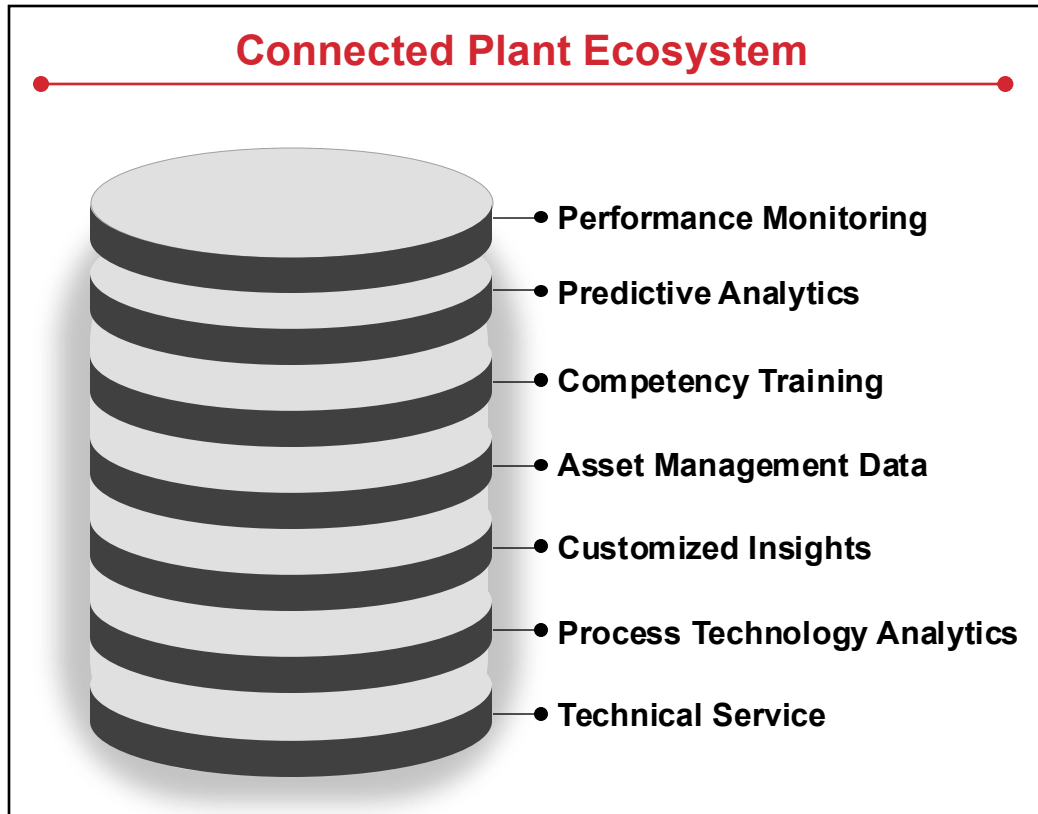
- Enable exploratory analytics to scale with demand by: Enabling Subject Matter Experts rapid access to data, ease of data preparation, and the tools to generate code directly

The Need:

- Extensible tools and guardrails in Seeq
 - Github access, user access to data, containerization, and auto documentation
- Reduced time-to-value through expert oversight while reducing complex iteration loops
- Empowering end users to generate prototypes while minimizing touch points
- Enable subject matter experts who are traditionally not coders to be able to prototype their knowledge before handing off to a Developer/DS to refine
- Ease of integration, standardized tools, the ability to identify good data, and correct bad data

HONEYWELL CONNECTED PLANT

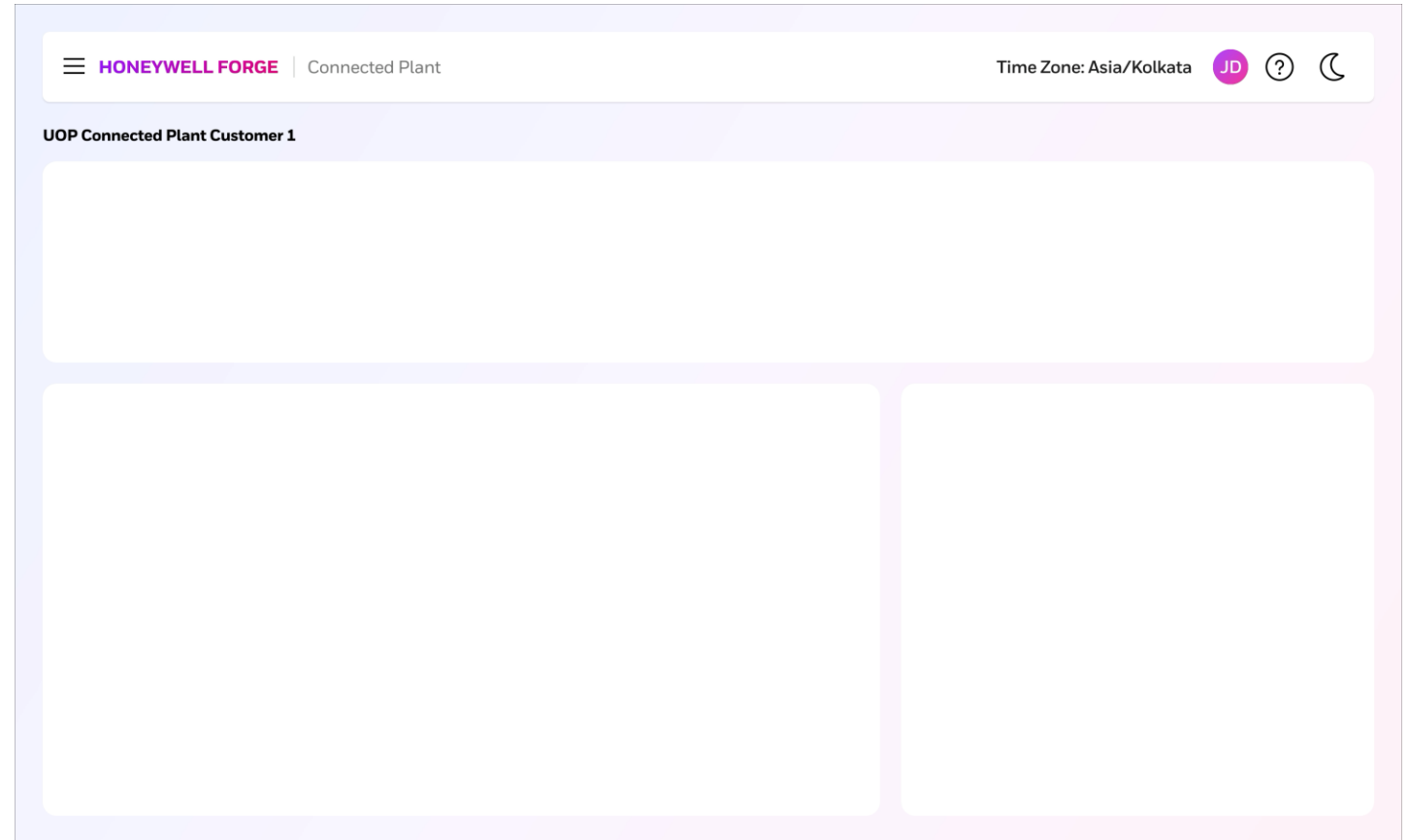
Honeywell Connected Plant delivers real-time monitoring, insights, and recommendations that help operators and engineers improve reliability and operational efficiency across industrial assets. By combining Honeywell's deep process expertise with connected technologies, it enables smarter decisions and higher returns from complex operations.



Integrating ASKdon AI with SEEQ AI to enable enhanced insights.

USE CASES: CATALYST IMAGING, PROCESS TECHNOLOGY ANALYTICS, CONNECTED SERVICES DELIVERY

- Catalyst Imaging PTA - enable exploratory analysis to accelerate development and improve insights
- Connected Services Delivery- reusable patterns and guardrails help experts deliver faster time-to-value
- Integrated with tools:
 - Unisim
 - Json builder
- Easier Data Management:
 - Data preparation
 - Structure
 - Visualization



ADDITIONAL USE CASES

Data Reviews

- Reduced time to create workbooks
- Easy of formatting organizer

Troubleshooting

- Lift engager
- Fines troubleshoot

Tool creation

- Generation of Heatmaps with Data Lab
- Conversion of existing excel tools



THE SHIFT: AI-ASSISTED DEVELOPMENT AS A FORCE MULTIPLIER

We're shifting from hand-built analytics to AI-assisted build loops that enables exploratory analytics for domain experts and faster delivery with expert oversight.

SEEQ + AI-assisted development accelerates question → prototype → iterate

- **Code agents draft, refine, and test in real time reducing manual coding**
- **Experts stay central which means more time on interpretation and decision making with less time spent on defining and translating asks**





**THANK
YOU**

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