



# A Sustainable Future with Seeq

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# Agenda

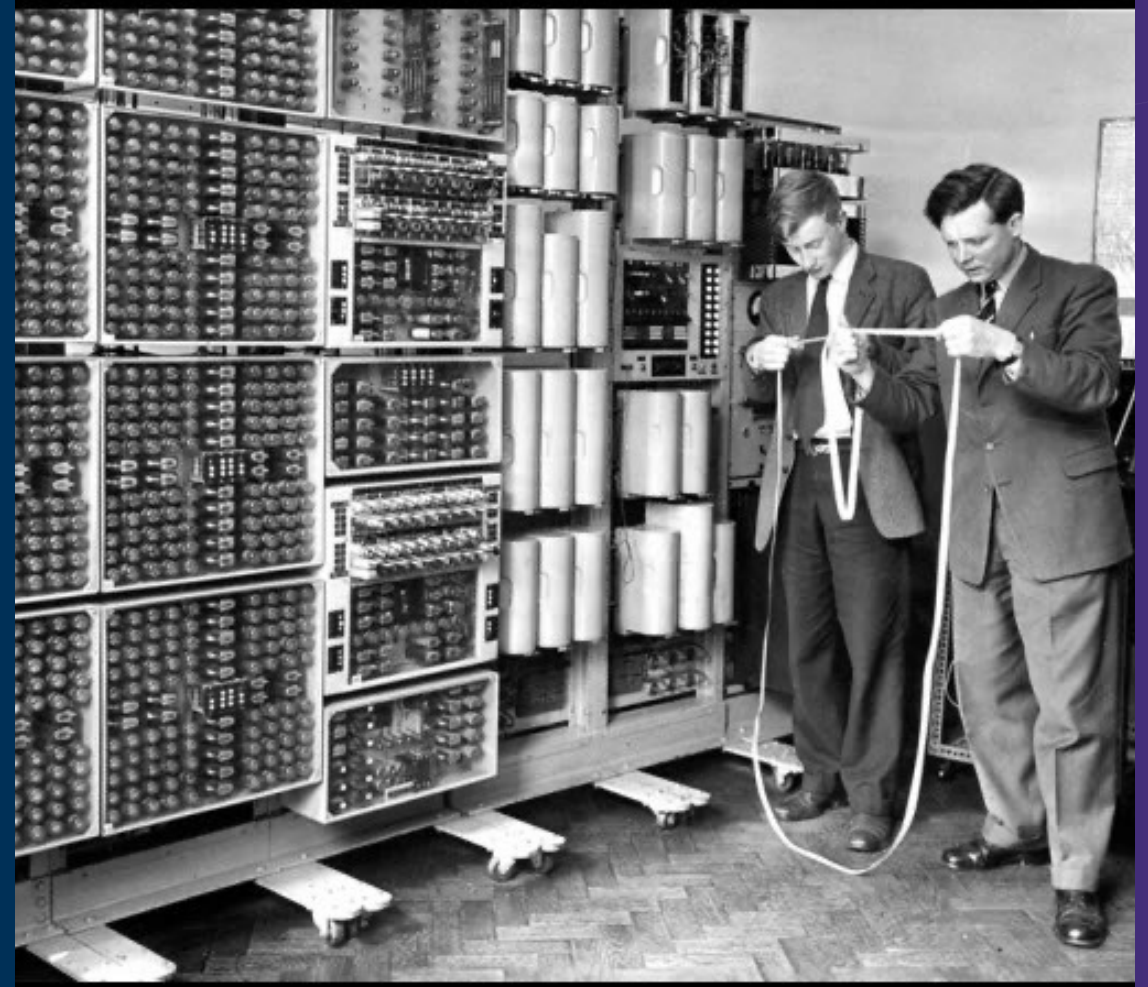
## Introductions

1. UOP background
2. Where we are working
3. Challenges we've encountered
  1. Mass connectivity
  2. Minimize overhead
  3. Drive value
4. Final thoughts



# Introduction

- Louis Lattanzio
  - 21 years at UOP
- Chad Bjorklund
  - 20 years at UOP



# UOP

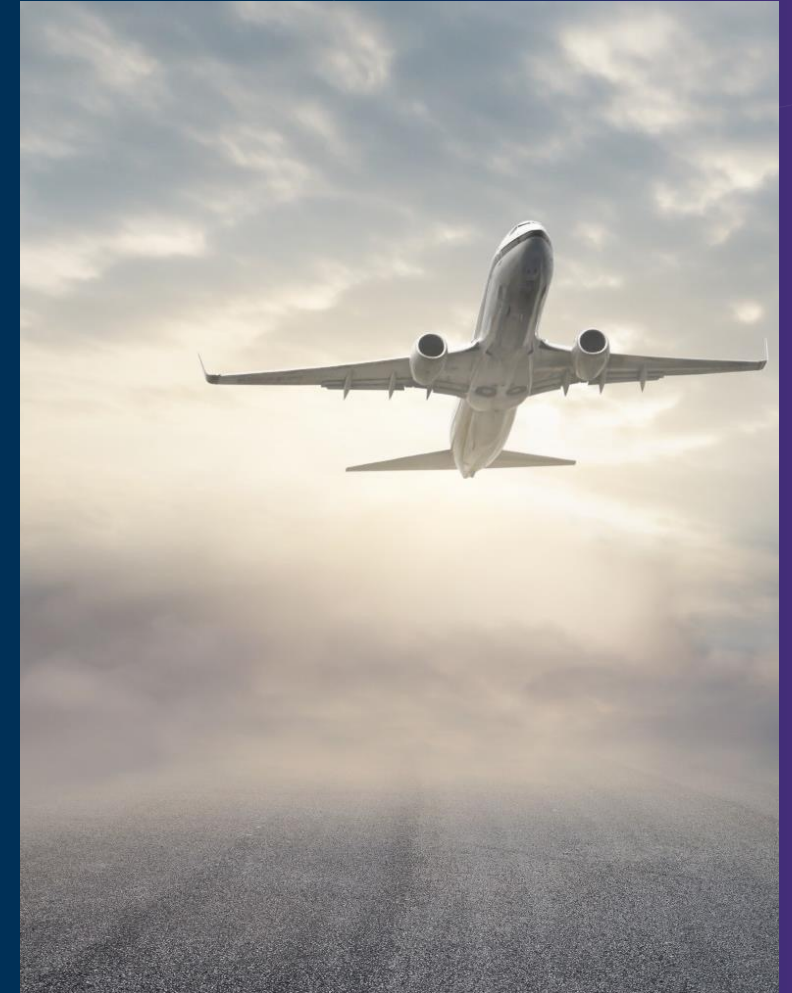
Honeywell  
uop





## Where we are working

- Sustainability, Reliability, Efficiency
- Integrating R&D, engineering, services, and manufacturing into a common platform
- Install-base of 3000 units and 6000 units of equipment and non-licensed technologies



# The Challenges in Meeting our Vision

- Deploying thousands of solutions ***quickly and correctly***
- Monitoring 3000+ customers ***with minimal overhead***
- Delivering value ***both internally and externally***
- Ensuring continued sustainability, reliability, and efficiency for our customers

# Deploy thousands of solutions *quickly and correctly*



## CHALLENGE

How to rapidly deploy our digital solutions to thousands of customers while ensuring our product quality standards are maintained.



## SOLUTION

Leveraging Seeq APIs to integrate custom deployment tools that “auto-deploy” templated solutions

Implementation team fills in unit-specific details to customize the solution for the end-user and then deploys logic in Seeq Workbench, Organizer, and Data Lab



## RESULTS

We have programmatically deployed **3000+** screens with a plan to deploy another **6000+** by the end of the year.

# Monitor 3000+ customers *with minimal overhead*



## CHALLENGE

How do we replicate the monitoring capabilities of a Process Engineer across thousands of units without hiring thousands of people.



## SOLUTION

L1-L4 Screen Overview



## RESULTS

Service was able to monitor more customers with the same head count while adding additional services and reducing their time to respond to our customers.





# How do we drive value *both internally and externally*?



## CHALLENGE

How to leverage our domain expertise to drive more valuable outcomes for our customer while reducing the nonvalue added work of our SMEs.



## SOLUTION

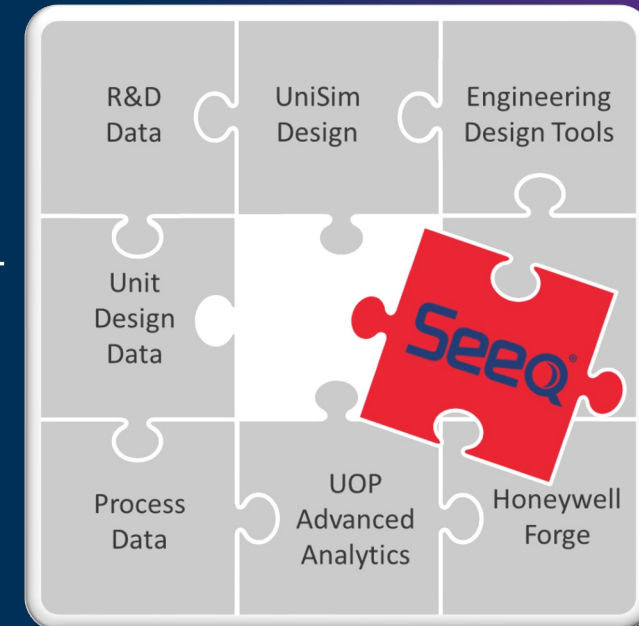
Case management + Evidence Manager – internal value EBA, L1-L4  
Advanced analytics tools like Reactor Performance Optimizer which uses a hybrid of data science and first principal models (simulation software) – internal and external value



## RESULTS

UOP Experts are spend more time on insights and less time on data collecting and preparation.

Customers have access to our advanced analytics providing real time guidance on how to operate their units



# How do we ensure continued sustainability, reliability, and efficiency for our customers?



## CHALLENGE

How do we enable our customer to identify that operational gaps exist and where those gaps are?



## SOLUTION

Identify performance gaps with capsules and email alerts  
Operational guidance and recommendations  
Competency management

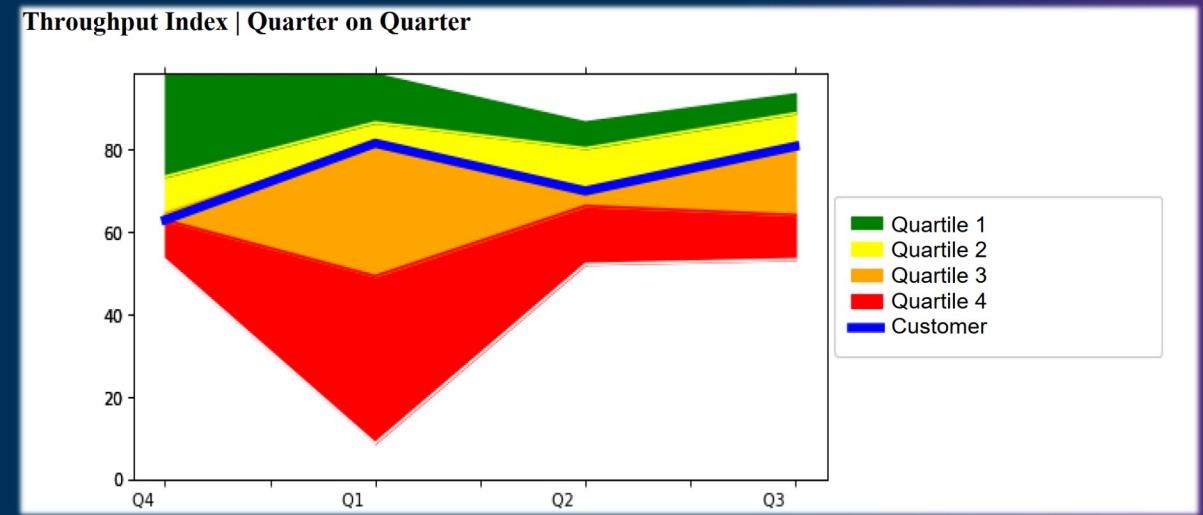
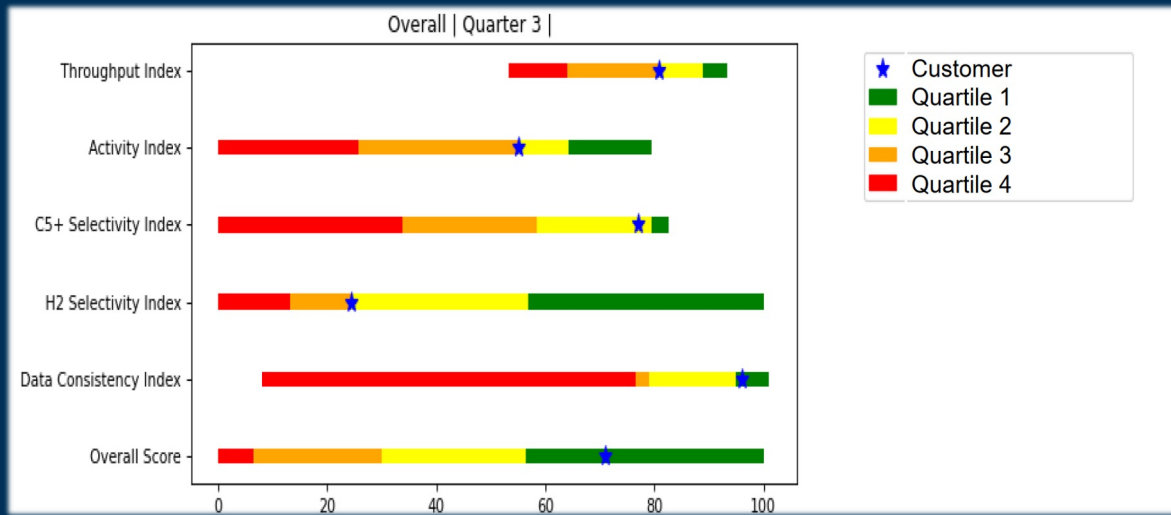


## RESULTS

Deployed performance monitoring analytics on CCR and Aromatics units covering about 100 units.

# Operational Best Practices Examples

- High level overview of KPI's
- Detailed view of how the KPI and quartiles have changed over the previous year.





# Seeq + UOP – Final thoughts

- Services and IT partnership
- Analytics solutions and more
  - ***Steady State Detection, Data Recognition, Gross Error Detection, data mining tools, LIMS integration, custom GUIs, custom calcs engine, data.....and so much more!***
- Integration with Honeywell Forge platform
  - ***Seeq is our analytics solution to complement the infrastructure laid by Honeywell Forge***

# Special thanks

*Special thanks to our friends at Seeq: Jeff, Teddy, Kevin and Chris from Seeq for helping make this all possible*

*For additional information about UOP's Connected solutions please email us at:*

***UOPConnectedSolutions@honeywell.com***



# Thank you

