

connect

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SeeQ®

Supan Shah, Data Scientist

Supan Shah is a Data Scientist at Intel Corporation, where he designs and supports automation solutions used across sites. He joined Intel in 2022 to work on the Long-Range Planning Central team and now supports Seeq Analytics initiatives tied to Intel's Industry 5.0 vision. Before Intel, Supan worked at Micron Technology and American Woodmark. He enjoys working in cross-functional teams and uses data-driven, analytical approaches to improve processes and drive more efficient, resilient operations. He holds a BS in Mechanical Engineering and an MS in Industrial Engineering and Operations Research.





SCALING SEEQ SELF-SERVICE ANALYTICS ACROSS INTEL'S GLOBAL FACILITIES OPERATIONS

Supan Shah

Data Scientist, Intel Corporation

WHO WE ARE

Intel Global Facilities Operations



2 facilities groups

Supporting front-end and back-end manufacturing



9 factories

4 front-end + 5 back-end



24x7 operations

Mission-critical facilities support



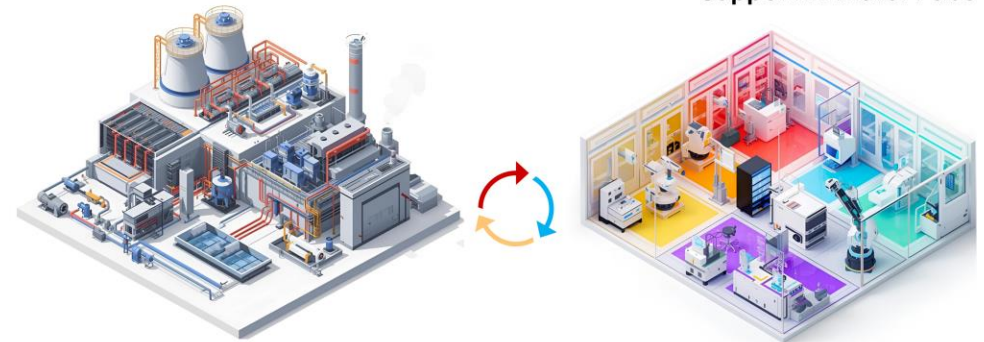
2000+ employees

Engineers, technicians, contractors

Intel Foundry Global Reach



Enabling Precision: The Critical Role of Facilities Support in Wafer Fabs



Exhaust Systems
N2 Plant
Ultra Pure Water Plant
Vacuum Systems

Waste Water Treatment
Power Systems
Oil-Free High-Pressure Air
Chemical & Gas Delivery

Boiler & Chilled Water Plant
Process Cooling System
Cooling Towers
HVAC Systems

Automation Perspective



Global footprint and time zone coordination



Diverse disciplines and operational use cases



Need for standardization across sites and assets



24x7 mission-critical reliability requirements



Descriptive Analytics Diagnostic Analytics

Predictive Analytics Prescriptive Analytics



Data Integration
& POR Trends



Root Cause
Analysis & Forensics



WatchLight
Anomaly Detection



Digital Twin



Condition Based Maintenance



Machine Learning Forecasting

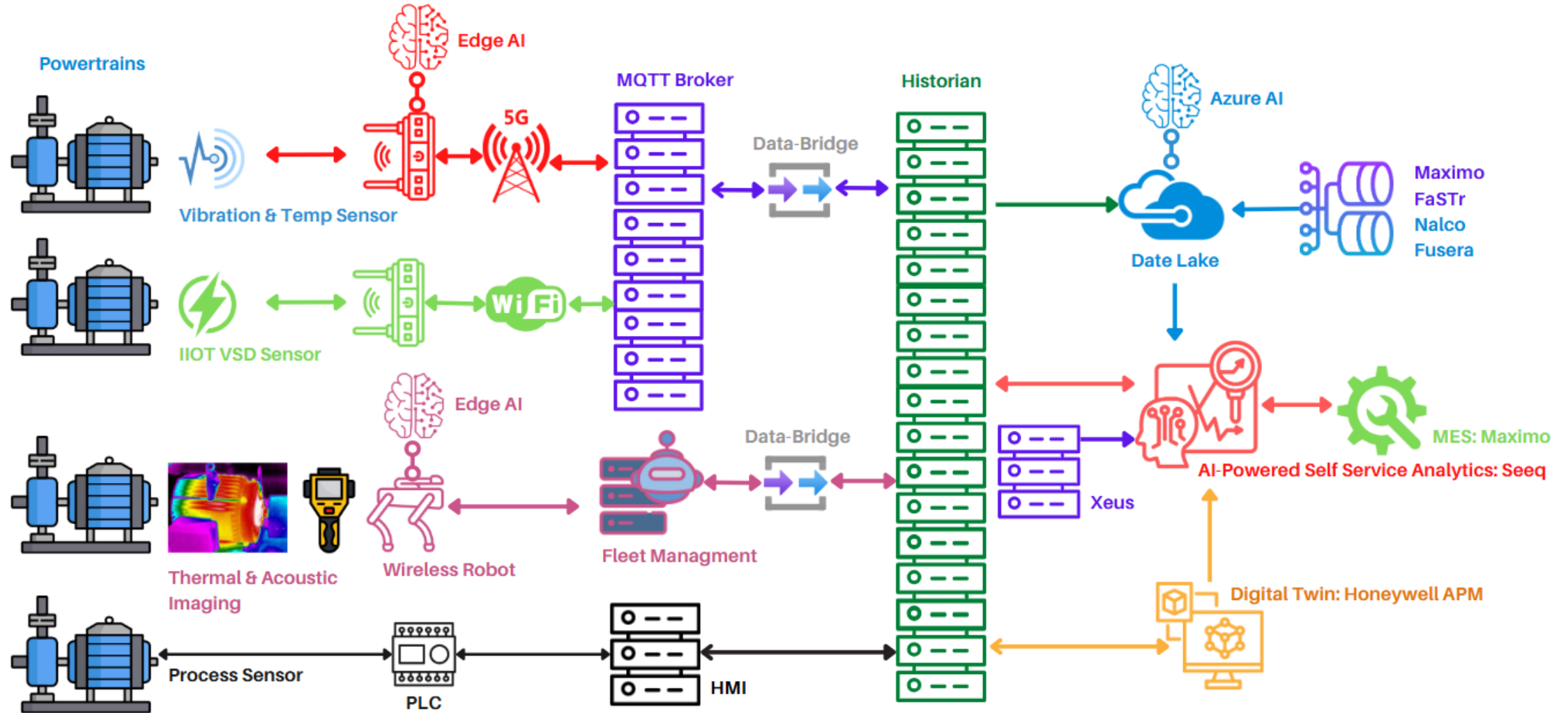


Industry Leading

DISCOVERY

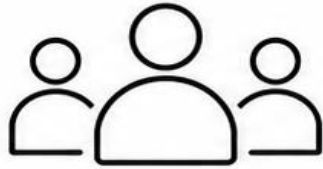
PROACTIVE BY DESIGN. POWERED BY AI.

CURRENT CONFIGURATION

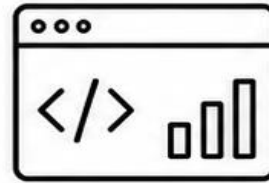


SCALING STRATEGIES

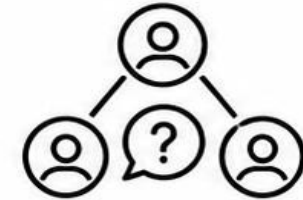
KEY INITIATIVES TO DRIVE ADOPTION AND IMPACT



**Centralized Mission Teams
to define analytics
requirements**



**Programmatic content creation
using self-service tool
Seeq Python**



**Communities of Practice and
Office Hours for global
facilities teams**



**Standardized data
access and governance**



**Curated Seeq training
courses and learning paths**



Help articles

MISSION TEAM ALIGNMENT + SCALED ANALYTICS DELIVERY

A standardized operating model for self-service analytics at scale

WHY



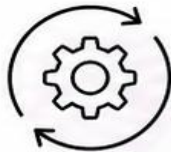
- ✓ Thousands of similar assets across sites
- ✓ Manual content creation did not scale
- ✓ Familiar legacy trends were needed to support lift-and-shift adoption

HOW



Mission Team Alignment

Cross-site facilities engineers
Automation partners align on
analytics needs



Automated Delivery

Define or capture configuration
Validate and deploy to Seeq
Review, publish, and optionally
create Organizer dashboards



Recreated familiar legacy trends to accelerate
adoption and reveal gaps.



Executable tool — no coding required

IMPACT



Reduced manual effort



Consistent analytics patterns



Faster replication across sites



Self-service at scale



Built confidence in Seeq
and surfaced gaps



Mission Teams defined the standard. Automation scaled delivery and accelerated confidence in Seeq.

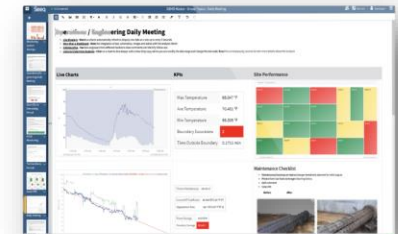


Excel Template

Visual Number	Folder No	Subscriber Name	Worksheet Name	Worksheet Name	Project	Signal Name	Phase_Alias_Description	Units	Calcs	Calculation Name	Calculation Parameters	Data Type	Time_Freq	Unit	Color
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Executable Tool UI

AUTOMATED TREND DELIVERY
AUTOMATED TREND DELIVERY (V3.4)
Choose Excel/CSV file with your configurations:
Sheet Name:
Password:
Access Key:
DSN:
Campus:
Environment:
Run validations only
Auto-complete configurations
Manage signals
Run validations and push configurations to Seeq
Build Organizer
Push configurations to Seeq without validations
Scrape configurations from existing workbook
Cancel
Run



Configuration driven



No coding required



Scalable and repeatable

COMMUNITIES OF PRACTICE + OFFICE HOURS

A global learning and support model for scaling Seeq across Intel Facilities



Communities of Practice

Every 2 weeks



Intel-specific training content



Structured learning path:
Foundations → Seeq Python → internal tools



Use case presentation
by a facilities engineer



Office Hours



Dedicated site representative



Q&A and troubleshooting support



Help applying analytics
to operational use cases



Regional delivery
for better attendance



Americas



Ireland + Israel

Separate sessions to address
time zone differences



Tailored
training



Cross-site
sharing



Local
support



Higher
attendance

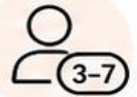
STANDARDIZED DATA ACCESS + GOVERNANCE

From fragmented site-based access to a simpler role-based model

BEFORE



Access structured by site + discipline + building



Engineers often needed 3-7 separate roles



Supporting another site required additional access



Expiring entitlements created recurring reapplication burden



Result: high friction for users and inconsistent access experience

Simplify + standardize

AFTER



3 core roles per discipline + Data Scientist



Seeq Viewer

- View trends across sites and disciplines through Facilities Free The Data roles
- Required learning: Seeq Operator Learning Path



Seeq <Discipline> Engineer

- Explore data and save workbooks in the non-POR Corporate folder
- Required training: Seeq Bootcamp



Seeq <Discipline> Champion

- Develop discipline workbooks and dashboards; publish to standardized POR folders
- Required training: Seeq Engineering Learning Path



Champions maintain standards compliance across sites.



Seeq Data Scientist

- Broad access to the platform and enabled data sources for automation engineers



Data source documentation

- Published source details, sample queries, preprocessing notes, and usage examples



Simplified role-based access



Improved data governance transparency

TRAINING, LEARNING PATHS & HELP ARTICLES

Building user capability, adoption, and self-service support

Training & Learning

- 1**  **On-site training sessions**
Instructor-led sessions with Seeq trainers
- 2**  **Access tied to training**
Required learning before platform access
- 3**  **Learning paths by role**
Motivated users to complete the right training
- 4**  **KPI dashboard**
Track training completion and adoption metrics

Help Articles & Support

- A**  **Direct Seeq support**
Highlighted options to interact and chat directly with Seeq
- B**  **SharePoint knowledge base**
Articles documenting data sources, access models, and common features
- C**  **Help articles**
Guidance for how to use common features in Seeq
- D**  **Seeq 101**
Quick reference for common tasks compared with a legacy in-house trend tool
- E**  **AI-powered chatbot**
Encouraged users to create analytics with AI and accelerate self-service at scale



Enable adoption



Improve self-service confidence



Support scalable analytics



Accelerate AI-assisted self-service

RESULTS

Scaling Seeq self-service analytics across Intel Global Facilities Operations



79

Data sources connected in Seeq

Including 33 Historians and
28 Snowflake+



1047

Users trained in Seeq globally



>5000

POR trends created in Seeq



CoP

Established and operational

US / Europe



>25,000

AI prompts in Seeq

QUESTIONS?



connect

connect

connect

connect

connect

connect

connect

connect

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