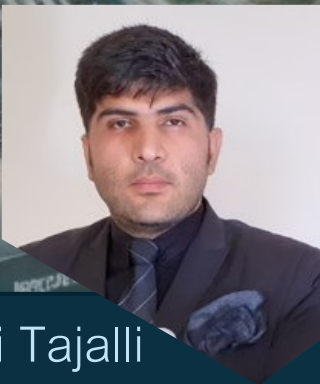
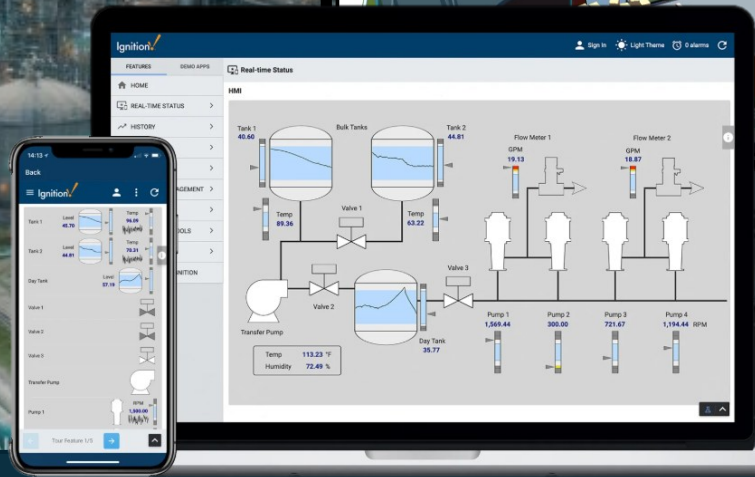
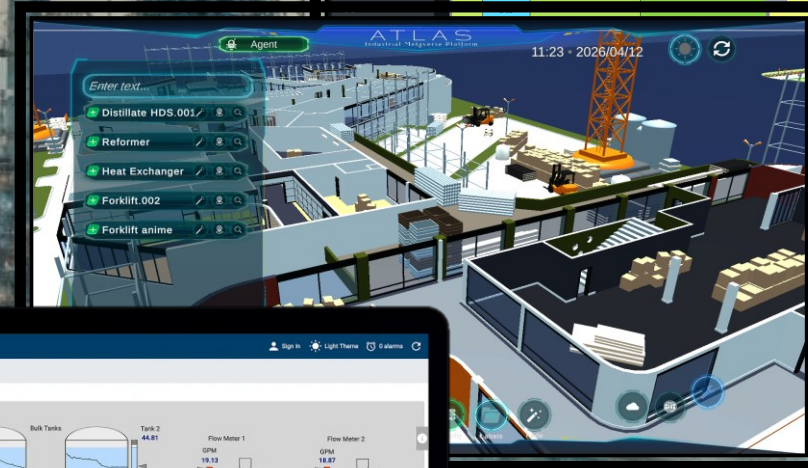


ATLAS

Industrial Metaverse Platform



Presented By : Dr. Ali Tajalli

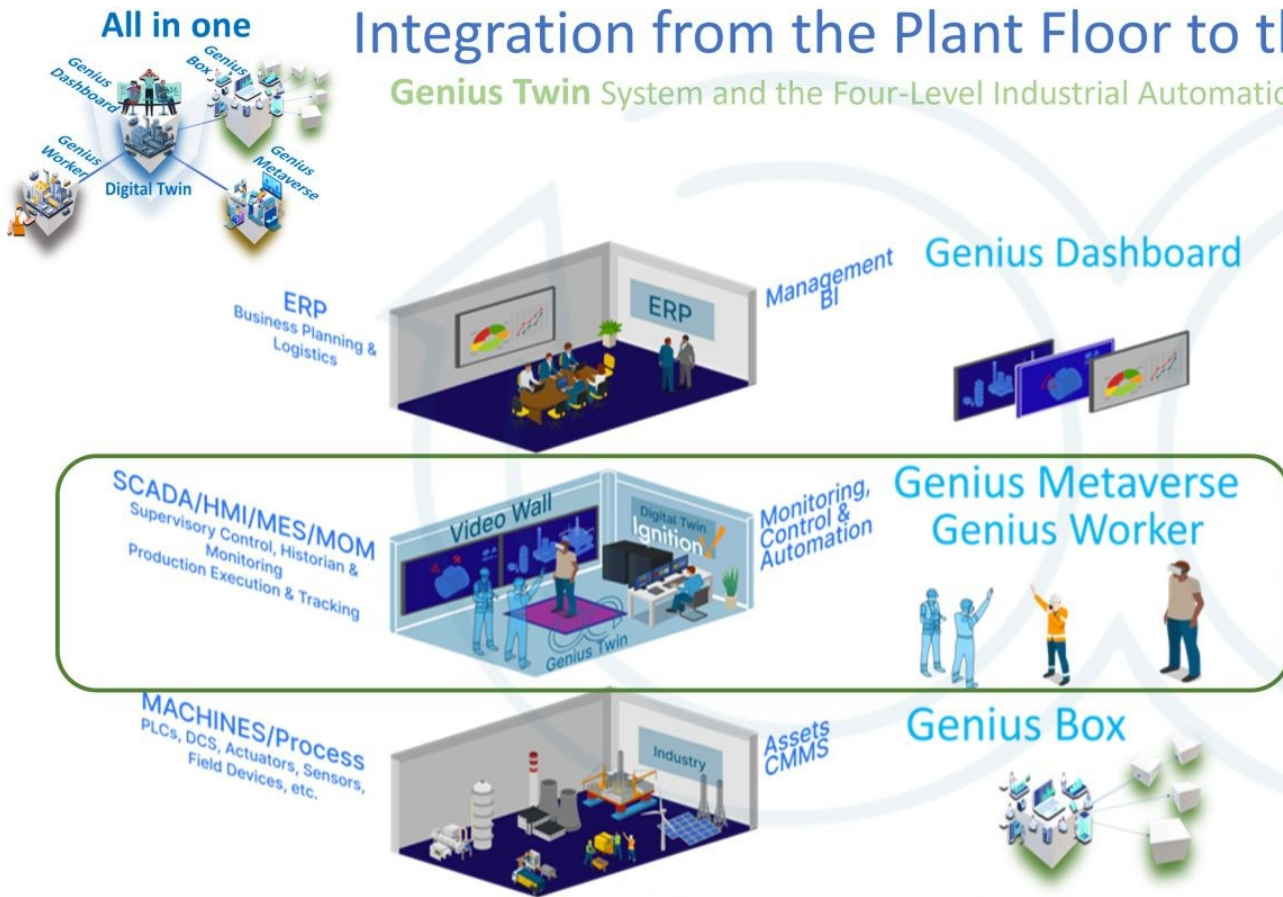
[Linkedin.com/in/ali-tajalli](https://www.linkedin.com/in/ali-tajalli)

+98 990 1377 600



Integration from the Plant Floor to the Enterprise Layer with Ignition!

Genius Twin System and the Four-Level Industrial Automation Architecture



Level IV – ERP: corporate level – finance, procurement, sales, logistics.

Level IV (ERP): Connects production to corporate-level finance, procurement, and market strategy.

Level III –MES: translates production into schedules, KPIs, and cost analysis.

Level III (MES): Translates process data into KPIs, scheduling, and cost analysis.

Level II – Process optimization: stabilizes production and maximizes efficiency.

Level II – This is the process optimization and supervisory control layer.

Real-time modeling
Optimization algorithms
Adaptive control
Energy minimization
Predictive control

Ignition!
by inductive automation

Level I – Basic control (PLCs/DCS): runs equipment safely.

Level I – This is the basic control layer, consisting of PLCs, DCS, and instrumentation. It handles direct equipment control (valves, motors, temperature controllers, etc.) and ensures safe, reliable operation.



By using **Ignition**, you can build a smart, integrated system that connects all layers, from raw industrial data to management dashboards, allowing you to make smarter decisions with a **complete and comprehensive view**.



Presented By : Ali Tajalli

Welcome to the ATLAS Platform.

Industrial Metaverse Platform. A dynamic, interactive environment where every monitor tells a story about your assets.

ATLAS

Industrial Metaverse Platform



Powered by advanced Digital Twin technology.

Lets Go ▶

Concept & Framework by Dr. Ali Tajalli

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ATLAS ROOM Integrated

ALL Views (Deployed across 6-12 screens)

Level 1 Strategic

Overview View (Bird's-Eye of all sites)
Command View (Critical alarms)
Analytics View (High-level KPI trends)

Level 3 Operational

Control View (Dynamic HMI & P&IDs)

Level 2 Tactical

Facilities View (Unit status & personnel)
Command View (Alarms & Tasks)
Security View
Logistics View (Inventory & Supply Chain)

Level 4 Analytical / Support

Analytics View (Historical trend analysis)
Training View (Simulation & AI Assistant)
Asset View (Maintenance history & docs)

Crisis Management
Team, Integrated
Operations Center,
Executive Briefing Center

Holistic Situational
Awareness & Crisis
Response
"What is the big picture?"

- **Refinery Emergency:** The Overview View shows smoke location, Command View shows evacuation status, Asset View shows isolation points, and Security View shows personnel locations.
- **Steel Complex:** Monitor raw material arrival (Logistics), production flow (Control), and finished goods shipping (Logistics) all in one room.



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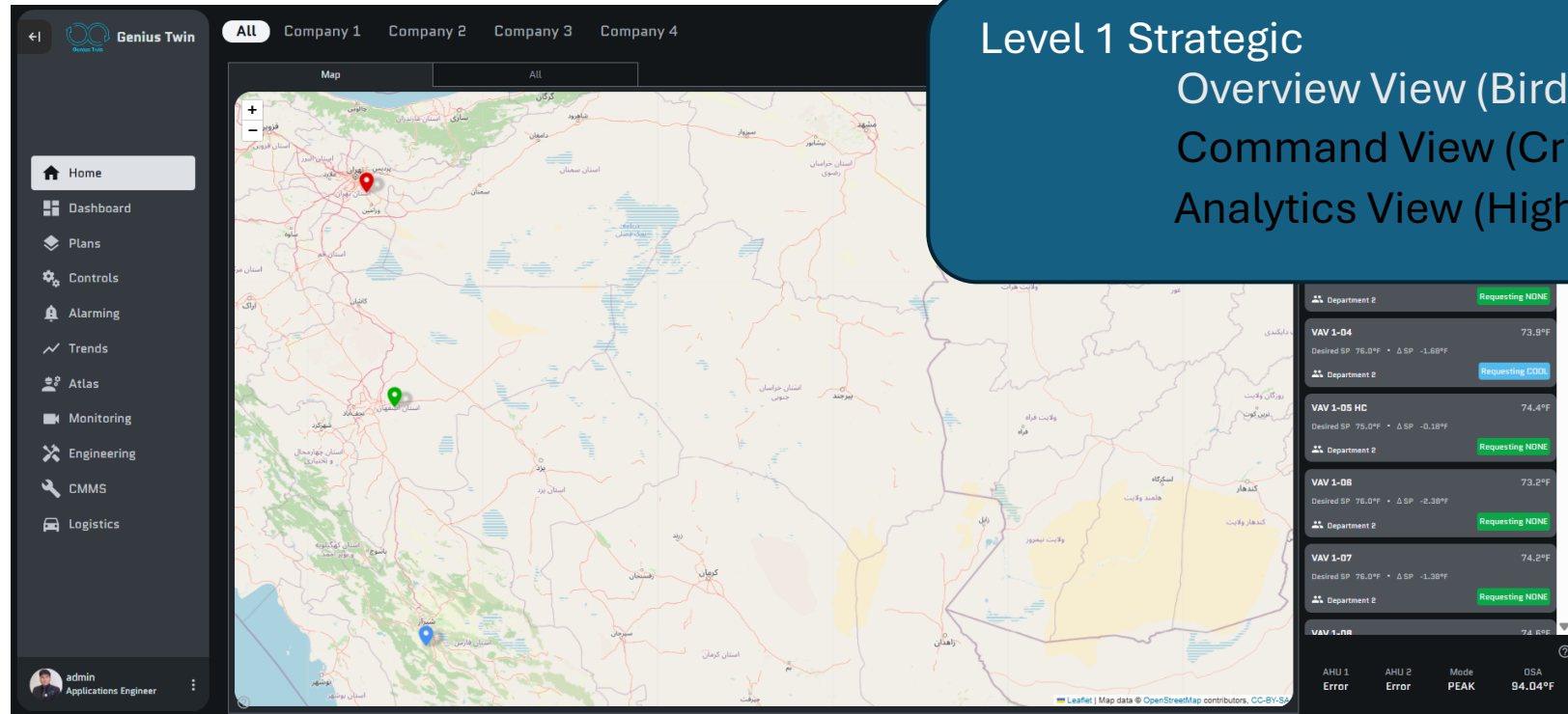
**Crisis Management
Team, Integrated
Operations Center,
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**Holistic Situational
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Level 1 Strategic



Level 1 Strategic

Overview View (Bird's-Eye of all sites)

Command View (Critical alarms)

Analytics View (High-level KPI trends)

Overview View (Bird's-Eye of all sites)

C-Level Executives (CEO, COO),
Holding Company Managers,
Plant Directors

Business Health &
Strategic KPIs
"Are we meeting our
targets?"

- Holding Company: Compare OEE, energy consumption, and production output across multiple plants (e.g., Mine A vs. Concentrator Plant B).
- Petrochemical: Monitor global feedstock prices vs. plant profitability.
- Steel/Mining: Track total concentrate produced vs. shipping targets.



Level 1 Strategic - Overview View (Bird's-Eye of all sites)

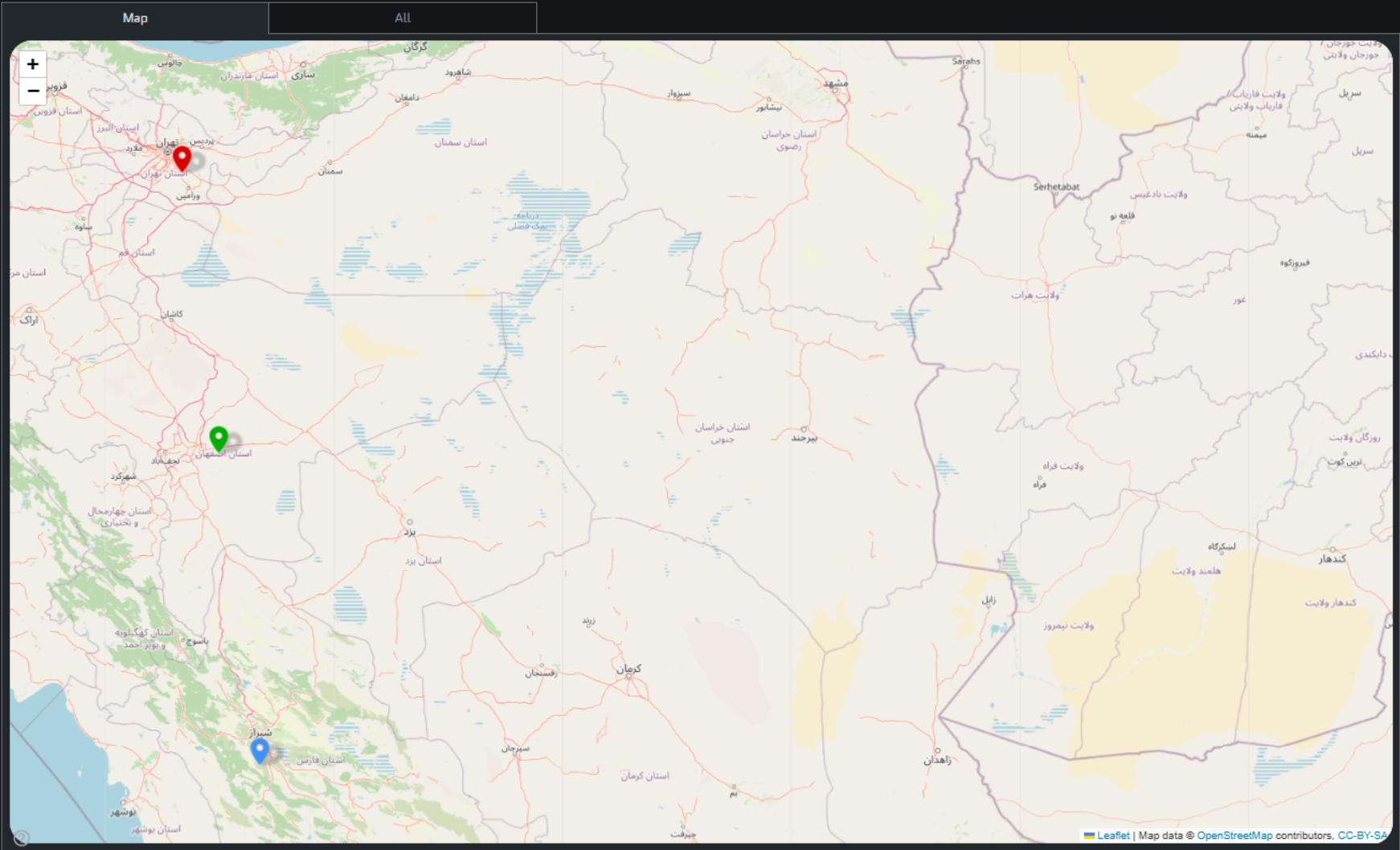
GIS

Genius Twin

All Company 1 Company 2 Company 3 Company 4

- Home
- Dashboard
- Plans
- Controls
- Alarming
- Trends
- Atlas
- Monitoring
- Engineering
- CMMS
- Logistics

admin Applications Engineer



ZONES		Sort: VAV Name	ASC
VAV 1-01 HC	72.2°F	Desired SP 74.0°F • Δ SP -1.38°F	Requesting COOL
VAV 1-02 HC	73.7°F	Desired SP 73.0°F • Δ SP 1.12°F	Requesting COOL
VAV 1-03 HC	73.4°F	Desired SP 76.0°F • Δ SP -2.18°F	Requesting NONE
VAV 1-04	73.8°F	Desired SP 76.0°F • Δ SP -1.68°F	Requesting COOL
VAV 1-05 HC	74.4°F	Desired SP 75.0°F • Δ SP -0.18°F	Requesting NONE
VAV 1-06	73.2°F	Desired SP 76.0°F • Δ SP -2.38°F	Requesting NONE
VAV 1-07	74.2°F	Desired SP 76.0°F • Δ SP -1.38°F	Requesting NONE
VAV 1-08			
AHU 1	Error	AHU	Err



Efficiency – Performance - Quality

Company 1

Category	Metric	Value
Equipment Efficiency	OEE	64
	Availability	10
	Performance Ratio	22
	Yield	26
	Startup Delay	10 hr
Production Performance	Production Slippage	55
	Schedule Adherence	13
	Batch Performance	43
	BOEPD	64
Quality & Loss Analysis	Production Loss Analysis	85
	Downtime Pareto	10 hr
	Scrap Analysis	15
	PPM Trend	75
Quality & Loss Analysis	Electricity Consumption & Cost	10 (MWh)/\$
	Downtime Pareto	55
	Carbon Emission (CO2)	32
	Energy Efficiency	94
Safety & Operations	Electricity Consumption & Cost	25
	Operational Availability	14
	Yield Improvement	36

Navigation: Dashboard, Plant, alarms

VAV Units:

Unit	Temp	Status
VAV 1-06	73.2°F	Requesting NDNE
VAV 1-07	74.2°F	Requesting NDNE
VAV 1-08	74.8°F	Requesting NDNE

AHU Status:

AHU	Mode	OSA
AHU 1	Error	94.04°F
AHU 2	Error	94.04°F



Level 1 Strategic

Com – Pre com

Genius Twin

Home
Dashboard
Plans
Controls
Alarming
Trends
Atlas
Monitoring
Engineering
CMMS
Logistics

admin
Applications Engineer

All Company 1 Company 2 Company 3 Company 4

Map All

Company 3

HANDOVERS

MC1	AHC	MCDAC	MCC	MPCC	PCDAC
0 / 1 of 10	20 / 20 of 100	0.8 / 1 of 32	60 / 72 of 130	0 / 1 of 8	0.2 / 1 of 54

TAG ITRS

Total	CN	PC
42.1 / 1439 of 3393	38 / 1081 of 2569	48 / 348 of 860

PUCH LIST ITEMS

Total	A	B	C	D
0 / 1 of 10	40 / 62 of 324	0.8 / 1 of 32	0 / 1 of 130	0 / 1 of 8

MOCS


Total	EQ	GF	SQ	TQ
20 / 5 of 150	0 / 1 of 100	0.8 / 1 of 32	0 / 1 of 130	0 / 1 of 8

MCC SKYLINE : OUTSTANDING & UPCOMING

MCC PLANNED VS ACTUAL PROGRESS

ZONES Sort: VAV Name ASC

VAV 1-01 HC	72.2°F	Desired SP 74.0°F • Δ SP -1.38°F	Area 1	Requesting COOL
VAV 1-02 HC	73.7°F	Desired SP 73.0°F • Δ SP 1.12°F	Department 1	Requesting COOL
VAV 1-03 HC	73.4°F	Desired SP 76.0°F • Δ SP -2.18°F	Department 2	Requesting NONE
VAV 1-04	73.9°F	Desired SP 76.0°F • Δ SP -1.68°F	Department 2	Requesting COOL
VAV 1-05 HC	74.4°F	Desired SP 75.0°F • Δ SP -0.18°F	Department 2	Requesting NONE
VAV 1-06	73.2°F	Desired SP 76.0°F • Δ SP -2.38°F	Department 2	Requesting NONE
VAV 1-07	74.2°F	Desired SP 76.0°F • Δ SP -1.38°F	Department 2	Requesting NONE
VAV 1-08				
AHU 1	Error			
AHU 2	Error			



Level 1 Strategic - Overview View (Bird's-Eye of all sites)

Proj-Manag.

The dashboard features a sidebar with navigation options: Home, Dashboard, Plans, Controls, Alarming, Trends, Atlas, Monitoring, Engineering, CMMS, and Logistics. The main content area includes:

- MCC SKYLINE : OUTSTANDING & UPCOMING**: A grid of 16 progress bars for different MCC units, with a red 'ITEMS OVERDUE' badge showing 185 items. A date range selector is set to Jan 19, 2026 12:00 AM to Feb 23, 2026 12:00 AM.
- MCC PLANNED VS ACTUAL PROGRESS**: A line chart comparing planned vs. completed progress from 8/7 to 8/17. The 'Planned' series (light blue) and 'Completed' series (dark blue) both show an overall upward trend.
- Map**: A geographical map showing site locations with markers.
- Summary Cards**: TAG ITRS (Total 42 of 33), MOCS (Total 20 of 150), PCDAC (0.2 of 54), and D (0 of 8).
- Right Panel**: A list of VAV units with their current temperatures and status (e.g., 'Requesting COOL', 'Requesting NONE').



Level 1 Strategic - Overview View (Bird's-Eye of all sites)

3D Overview

Genius Twin

All **Company 1** Company 2 Company 3 Company 4

- Home
- Dashboard
- Plans
- Controls
- Alarming
- Trends
- Atlas
- Monitoring
- Engineering
- CMMS
- Logistics

admin
Applications Engineer



Level 1 Strategic - Overview View (Bird's-Eye of all sites)

3D View

Genius Twin

All **Company 1** Company 2 Company 3 Company 4



admin
Applications Engineer



Level 1 Strategic - Overview View (Bird's-Eye of all sites)

3D Model Selection

The screenshot displays the Genius Twin interface. At the top, navigation tabs include 'All', 'Company 1', 'Company 2', 'Company 3', and 'Company 4'. A left sidebar lists menu items: Home, Dashboard, Plans, Controls, Alarming, Trends, Atlas, Monitoring, Engineering, CMMS, and Logistics. The main area shows a 3D model of an industrial facility with several zones highlighted in green. A red box highlights a specific zone in the center. On the right, a 'ZONES' panel lists various zones with their status and temperature. A status indicator shows 'Disconnected - Using local mode'. At the bottom, a map shows the facility's location, and a user profile for 'admin Applications Engineer' is visible.

Temperature	Status
72.2°F	Disconnected - Using local mode
73.7°F	ting COOL
73.4°F	ting COOL
73.9°F	ting NONE
74.4°F	ting COOL
73.2°F	ting NONE
74.2°F	ting NONE

23 objects Clara_znaczenie dark green

admin Applications Engineer

AHU 1 Error AHU 2 Error



Level 1 Strategic - Overview View (Bird's-Eye of all sites)

3D Model Selection

The screenshot displays the ATLAS Industrial Metaverse Platform interface. At the top, navigation tabs include 'All', 'Company 1', 'Company 2' (selected), 'Company 3', and 'Company 4'. The main view is a 3D bird's-eye perspective of an industrial site, featuring various structures, piping, and equipment. A red-bordered inset window provides a magnified view of a specific component, a well head assembly, showing its complex internal structure and valves. Labels within the 3D model identify 'Well Head', 'Chok Stage 2', 'HIPPS', 'Stage 1', and 'Pig Luncher'. On the left side, a vertical toolbar contains icons for home, settings, notifications, and other functions. Below the toolbar, menu items for 'CMMS' and 'Logistics' are visible. At the bottom left, a user profile for 'admin Applications Engineer' is shown. A '3D' button is located in the top right corner of the interface. A small portrait of a man in a suit is visible in the bottom right corner of the screenshot area.

Level 1 Strategic - Overview View (Bird's-Eye of all sites)

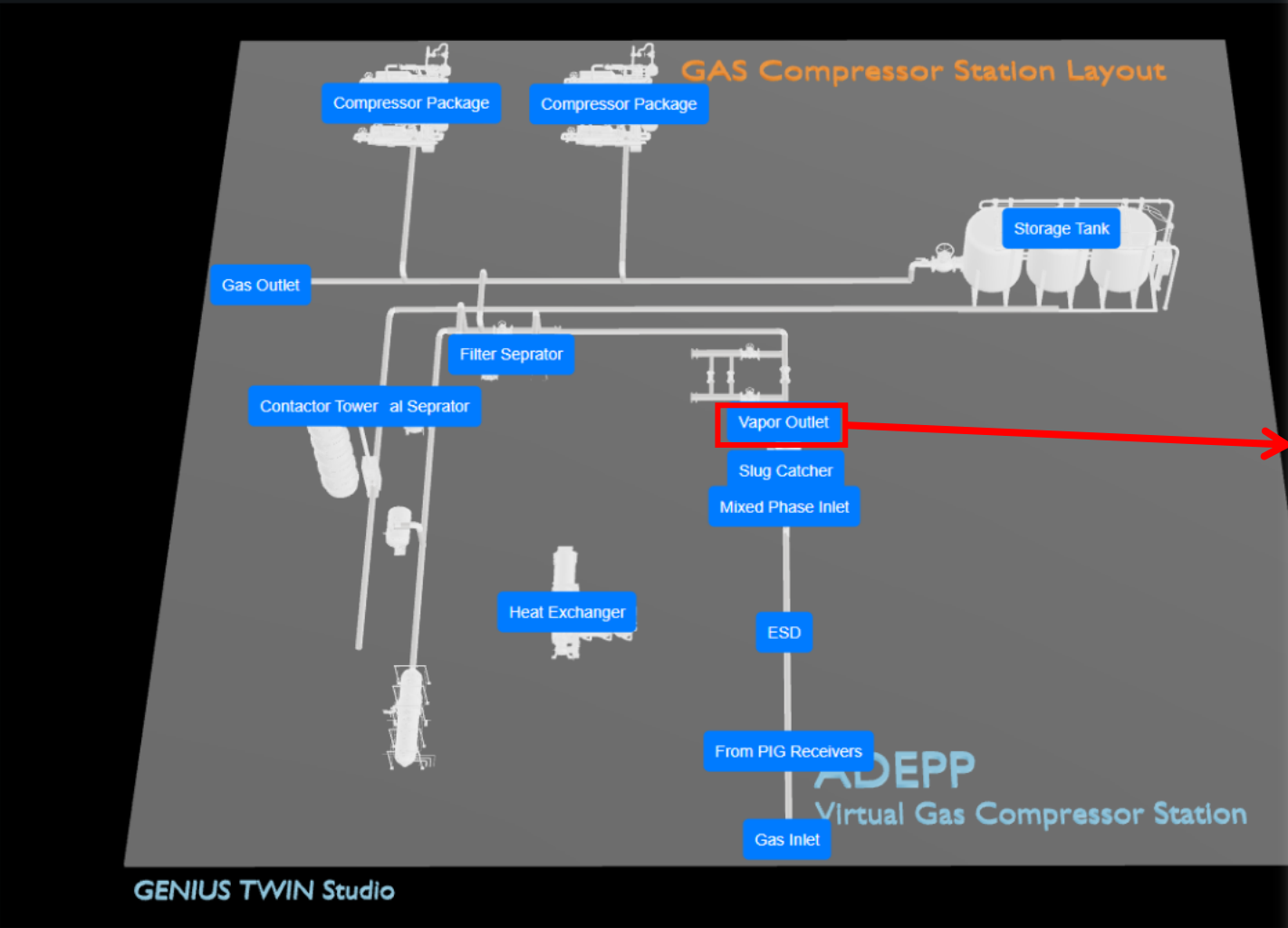
3D Selection + Data

Genius Twin

All Company 1 Company 2 **Company 3** Company 4

- Home
- Dashboard
- Plans
- Controls
- Alarming
- Trends
- Atlas
- Monitoring
- Engineering
- CMMS
- Logistics

admin Applications Engineer



162 cfm [165sp]

62.49°F 36 %

Zone	72.9°F	Desired SP	75
System Occupied	Yes	Environment Adjust	-0.4
Requesting	NONE	Thermostat Adjust	0.0
Area	Area 2	Effective SP	74.9°F

CFM

2-26-2026 1:15:18

flowDischarge: 0
zoneTemp: 0

Zone Temp

2-25-2026 9:47

Last 8

Max query range f

Level 1 Strategic - Command View (Critical alarms)

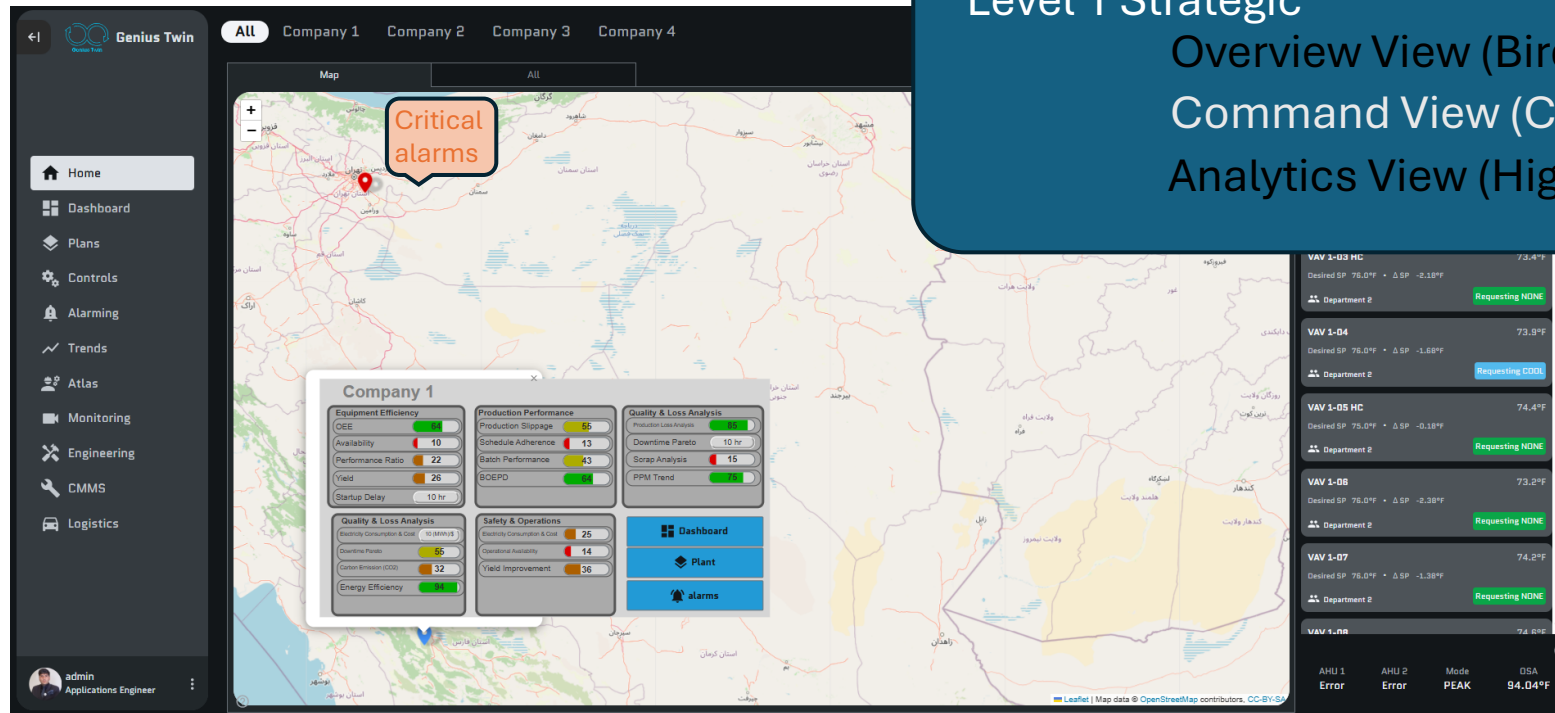
Critical Alarms +Notif

Level 1 Strategic

Overview View (Bird's-Eye of all sites)

Command View (Critical alarms)

Analytics View (High-level KPI trends)



Command View (Critical alarms)

C-Level Executives (CEO, COO),
Holding Company Managers,
Plant Directors

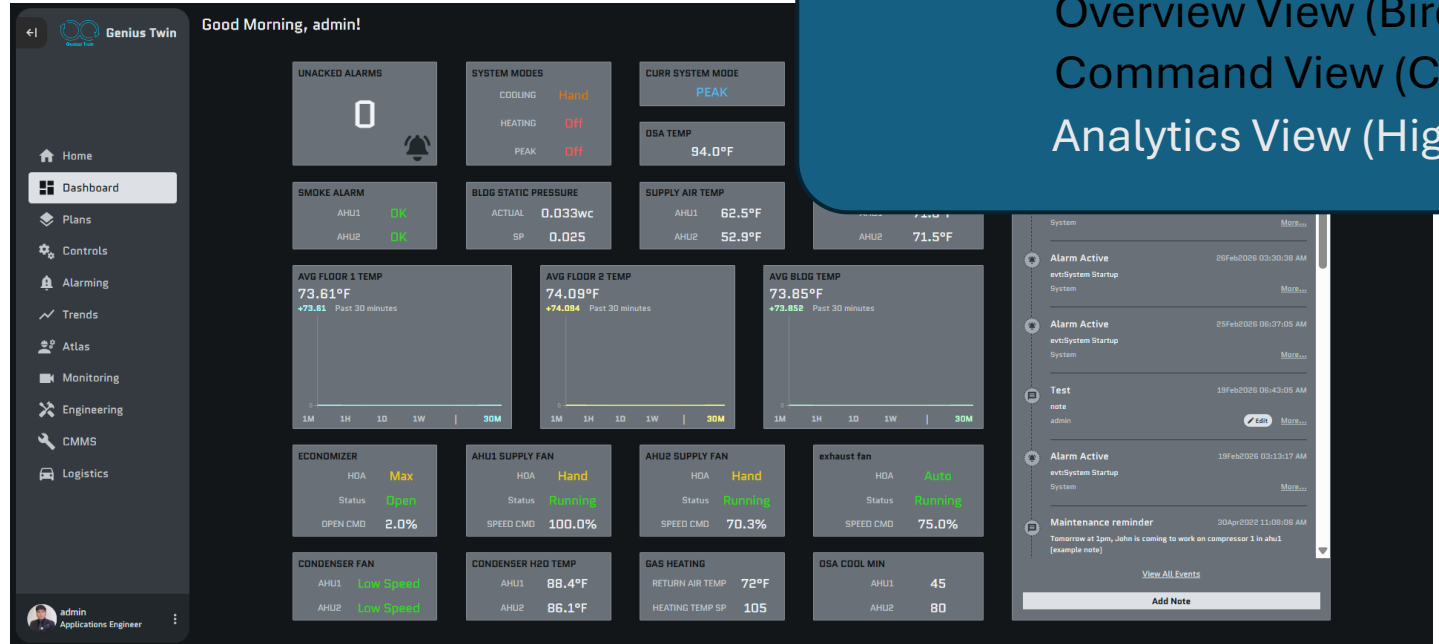
Business Health &
Strategic KPIs
"Are we meeting our
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- Petrochemical: Monitor global feedstock prices vs. plant profitability.
- Steel/Mining: Track total concentrate produced vs. shipping targets.



Level 1 Strategic - High-level KPI trends

- Home
- Dashboard
- Plans
- Controls
- Alarming
- Trends
- Atlas
- Monitoring
- Engineering
- CMMS
- Logistics



Level 1 Strategic
Overview View (Bird's-Eye of all sites)
Command View (Critical alarms)
Analytics View (High-level KPI trends)

Analytics View (High-level KPI trends)

C-Level Executives (CEO, COO),
Holding Company Managers,
Plant Directors

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Level 1 Strategic - High-level KPI trends

Dashboard

← Genius Twin

- Home
- Dashboard**
- Plans
- Controls
- Alarming
- Trends
- Atlas
- Monitoring
- Engineering
- CMMS
- Logistics

admin Applications Engineer

Good Morning, admin!

UNACKED ALARMS

0

SYSTEM MODES

COOLING **Hand**

HEATING **Off**

PEAK **Off**

CURR SYSTEM MODE

PEAK

VAV DUCT FLOW CFM

COLD DUCT **Nonecfm**

HOT DUCT **10,336cfm**

SMOKE ALARM

AHU1 **OK**

AHU2 **OK**

BLDG STATIC PRESSURE

ACTUAL **0.033wc**

SP **0.025**

SUPPLY AIR TEMP

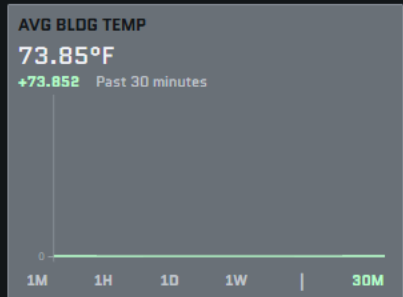
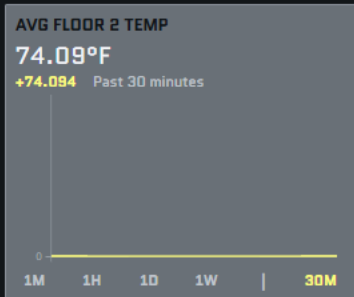
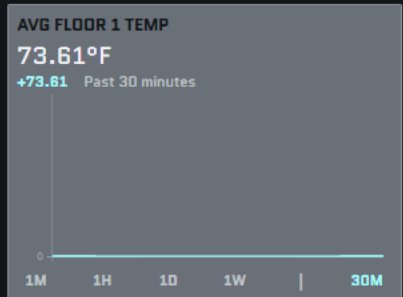
AHU1 **62.5°F**

AHU2 **52.9°F**

RETURN AIR TEMP

AHU1 **71.8°F**

AHU2 **71.5°F**



ECONOMIZER

HOA **Max**

Status **Open**

OPEN CMD **2.0%**

AHU1 SUPPLY FAN

HOA **Hand**

Status **Running**

SPEED CMD **100.0%**

AHU2 SUPPLY FAN

HOA **Hand**

Status **Running**

SPEED CMD **70.3%**

exhaust fan

HOA **Auto**

Status **Running**

SPEED CMD **75.0%**

CONDENSER FAN

AHU1 **Low Speed**

AHU2 **Low Speed**

CONDENSER H2O TEMP

AHU1 **88.4°F**

AHU2 **86.1°F**

GAS HEATING

RETURN AIR TEMP **72°F**

HEATING TEMP SP **105**

OSA COOL MIN

AHU1 **45**

AHU2 **80**

Activity Log

Updated: 26Feb2026 05:48:17 AM

All Alarm Events SP Requests Notes

- Alarm Active** 26Feb2026 04:17:03 AM
evt:System Startup
System [More...](#)
- Alarm Active** 26Feb2026 04:15:18 AM
evt:System Shutdown
System [More...](#)
- Alarm Active** 26Feb2026 03:30:38 AM
evt:System Startup
System [More...](#)
- Alarm Active** 25Feb2026 06:37:05 AM
evt:System Startup
System [More...](#)
- Test** 19Feb2026 06:43:05 AM
note
admin [Edit](#) [More...](#)
- Alarm Active** 19Feb2026 03:13:17 AM
evt:System Startup
System [More...](#)
- Maintenance reminder** 30Apr2022 11:08:06 AM
Tomorrow at 1pm, John is coming to work on compressor 1 in ahu1
[example note]
[View All Events](#)

[Add Note](#)



Level 1 Strategic - High-level KPI trends

Dashboard + Canvas

The screenshot displays a dashboard titled "Dashboard 19" with a sidebar on the left containing "Public Dashboards" (AHU1, Home, AHU2, AHU1 Sample Dash) and "Private Dashboards" (Dashboard 19). The main area features several widgets: "Alarm Count" (102), "ergwr", "AHU None - Fan Supply Fan Hand Speed SP" (85), and a large "5" with a circular gauge. An "Activity Log" window is open, listing events such as "Alarm Active" and "Test" with timestamps and "More..." links. A right-hand panel allows configuration of "Label", "AHU" (AHU1, AHU2, Other), "Unit" (Fan, Condenser, Compressor, Economizer, Other), "Tag" (Fan Delta Setpoint SP), "Low Threshold" (20), and "High Threshold" (50). At the bottom, there are "Delete Dashboard", "Cancel", and "Save Dashboard" buttons.



ATLAS ROOM Integrated

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Team, Integrated
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Executive Briefing
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**Holistic Situational
Awareness & Crisis
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Level 2 Tactical- Facilities View (Unit status & Personnel)



Level 2 Tactical
Facilities View (Unit status & personnel)
Command View (Alarms & Tasks)
Security View
Logistics View (Inventory & Supply Chain)

Facilities View (Unit status & personnel)

Shift Supervisors,
Production Managers,
Maintenance Managers,
Logistics Managers

Coordination & Resource
Allocation
"How do we fix today's
bottlenecks?"

- Refinery: Coordinate maintenance crew response to a pump failure across shifts.
- Warehouse: Reallocate staff based on real-time order backlog and inventory locations.
- Mining: Manage truck dispatch between the pit and the crusher to avoid downtime



Level 2 Tactical

Plans + Env.

Genius Twin

All Floor 1 Floor 2 P&ID

Levels

FLOOR 1

FLOOR 2

FLOOR 3

Home

Dashboard

Plans

Controls

Alarming

Trends

Atlas

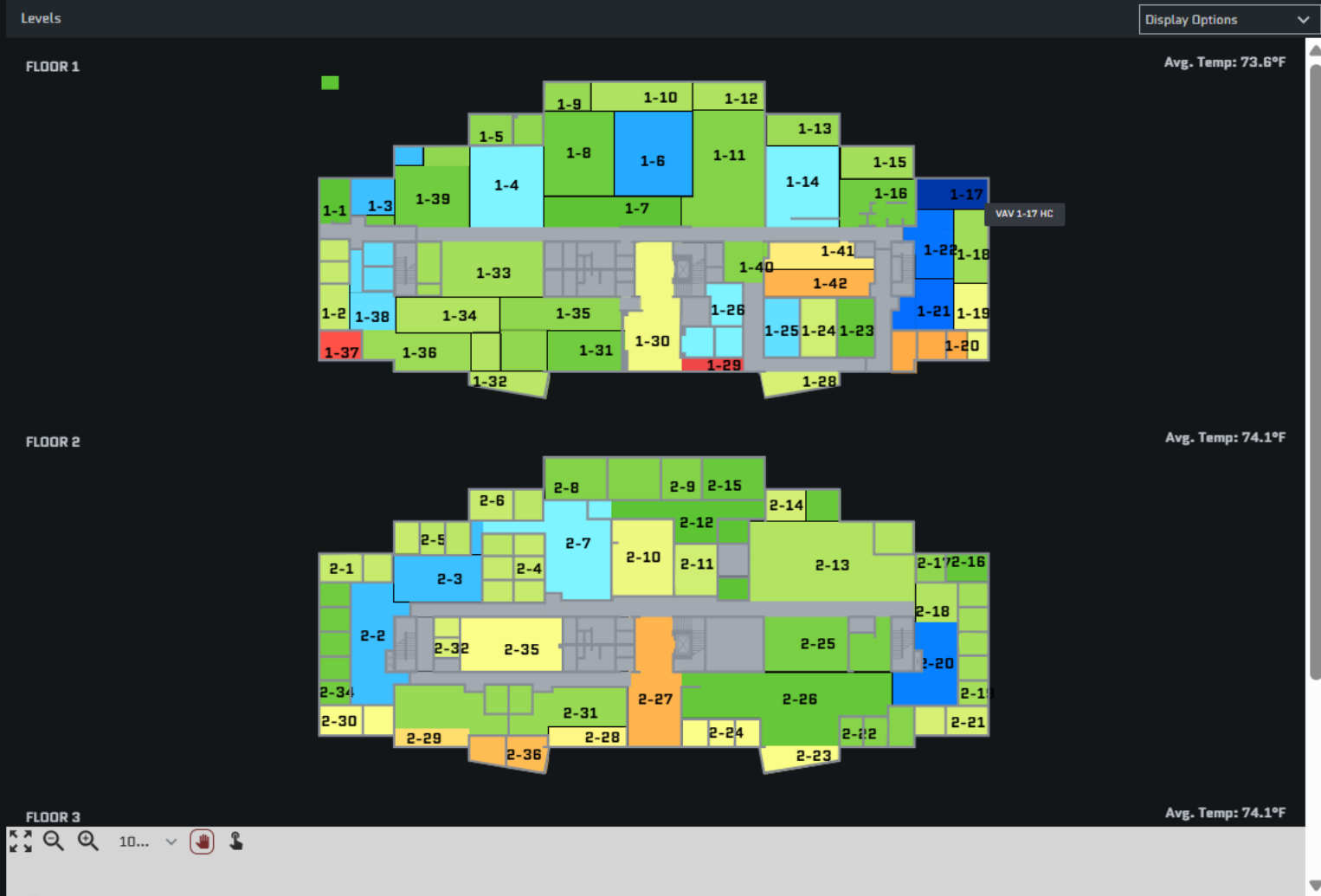
Monitoring

Engineering

CMMS

Logistics

admin Applications Engineer



ZONES

VAV 1-01 HC

Desired SP 74.0°F

Area 1

VAV 1-02 HC

Desired SP 73.0°F

Department 1

VAV 1-03 HC

Desired SP 76.0°F

Department 2

VAV 1-04

Desired SP 76.0°F

Department 2

VAV 1-05 HC

Desired SP 75.0°F

Department 2

VAV 1-06

Desired SP 76.0°F

Department 2

VAV 1-07

Desired SP 76.0°F

Department 2

VAV 1-08

AHU 1 Error

Last 8

Max query range f

0 cfm [0sp]

52.86°F 0%

62.49°F 49%

107 cfm 62.65°F

108 cfm [110sp]

Zone 69°F Desired SP 74

Requesting NONE Environment Adjust -0.4

System Occupied Yes Thermostat Adjust 0.0

Department Department 3 Effective SP 73.58°F

CFM Total

Zone Temp

2-25-2026 9:50



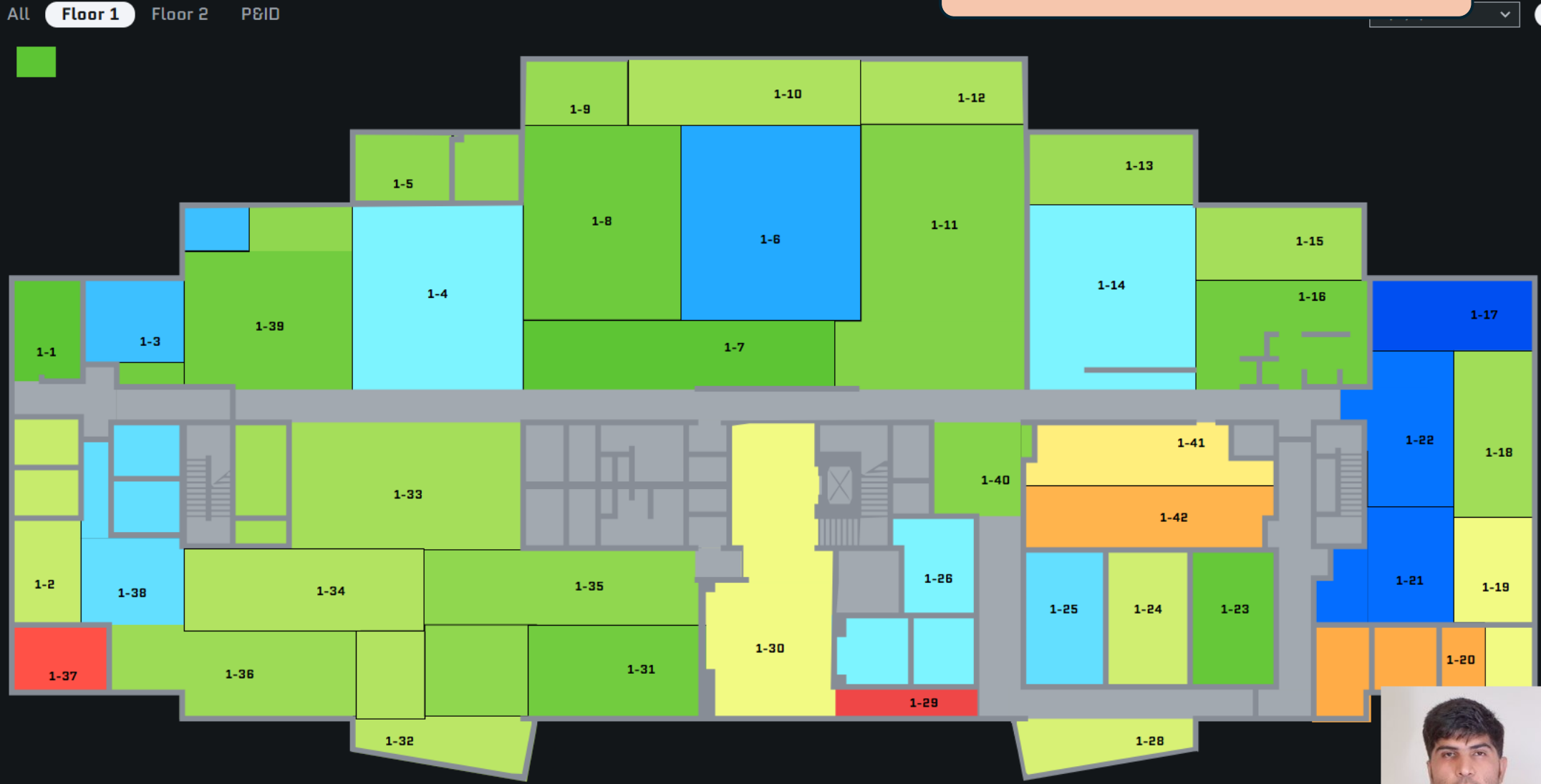
Level 2 Tactical

Plans + Env.

Genius Twin

- Home
- Dashboard
- Plans
- Controls
- Alarming
- Trends
- Atlas
- Monitoring
- Engineering
- CMMS
- Logistics

admin
Applications Engineer



Level 2 Tactical

Plans + Env.

Genius Twin

All **Floor 1** Floor 2 P&ID

- Home
- Dashboard
- Plans**
- Controls
- Alarming
- Trends
- Atlas
- Monitoring
- Engineering
- CMMS
- Logistics

admin
Applications Engineer



Level 2 Tactical

Level 2 Tactical

- Facilities View (Unit status & personnel)
- Command View (Alarms & Tasks)
- Security View
- Logistics View (Inventory & Supply Chain)

The screenshot shows the 'Alarm Status' interface in the Genius Twin system. It features a sidebar with navigation options like Home, Dashboard, Plans, Controls, Alarming, Trends, Atlas, Monitoring, Engineering, CMMS, and Logistics. The main area displays a table of active alarms with the following columns: Active Time, Display Path, Priority, State, Source, and Name. The table contains several rows of alarm data, including 'Level H6 Alarm', 'Day Tank', and 'Fryer'.

Active Time	Display Path	Priority	State	Source	Name
02/26/2026 03:30:32	Level H6 Alarm	Critical	Active, Unacknowledged	prov:default:/tag:Alarms/Level/almcH6	H6
02/26/2026 05:51:14	Day Tank	Critical	Active, Unacknowledged	prov:VisionProvider:/tag:HMI Optimization/Day Tank/almcH6	H6
02/26/2026 05:18:29	Day Tank	Critical	Cleared, Unacknowledged	prov:Sample_Tags/HMI/dayTank/almcH6	H6
02/26/2026 05:18:28	Day Tank	Critical	Cleared, Unacknowledged	prov:default:/tag:HMI/dayTank/almcH6	H6
02/26/2026 03:30:33	Alarm/Priority/High	High	Active, Unacknowledged	prov:VisionProvider:/tag:Alarm/Priority/almcHigh	High
02/26/2026 03:30:33	Alarm/Alarm/Alarm	High	Active, Unacknowledged	prov:VisionProvider:/tag:Alarm/Alarm/almcAlarm	Alarm
02/26/2026 04:48:42	Fryer	High	Cleared, Unacknowledged	prov:default:/tag:Exchange/Prepared Foods Line Demo/Equip...	Fryer Temp High
02/26/2026 05:50:53	Freezer	High	Cleared, Unacknowledged	prov:default:/tag:Exchange/Prepared Foods Line Demo/Equip...	Freezer Suction Temp Too High

Command View (Alarms & Tasks)

Shift Supervisors,
Production Managers,
Maintenance Managers,
Logistics Managers

Coordination & Resource
Allocation
"How do we fix today's
bottlenecks?"

- Refinery: Coordinate maintenance crew response to a pump failure across shifts.
- Warehouse: Reallocate staff based on real-time order backlog and inventory locations.
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Genius Twin

- Home
- Dashboard
- Plans
- Controls
- Alarming**
- Trends
- Atlas
- Monitoring
- Engineering
- CMMS
- Logistics

admin
Applications Engineer

Alarm Status Alarm History

0 Active? 0 SHELVED

Filters (7): Active, Unacknowledged Active, Acknowledged Cleared, Unacknowledged Priority: Low Priority: Medium Priority: High Priority: Critical Remove All

Active Time Display Path Priority State Source Name

There are no active alarms

25 rows

16 Active? 0 SHELVED

Filters (7): Active, Unacknowledged Active, Acknowledged Cleared, Unacknowledged Priority: Low Priority: Medium Priority: High Priority: Critical Remove All

Active Time	Display Path	Priority	State	Source	Name
02/26/2026 03:30:32	Level Hi Alarm	Critical	Active, Unacknowledged	prov:default/tag:Alarms/Level:/alm:Hi	Hi
02/26/2026 05:51:14	Day Tank	Critical	Active, Unacknowledged	prov:VisionProvider/tag:HMI Optimization/Day Tank:/alm:Hi	Hi
02/26/2026 05:18:29	Day Tank	Critical	Cleared, Unacknowledged	prov:Sample_Tags/tag:HMI/dayTank:/alm:Hi	Hi
02/26/2026 05:18:28	Day Tank	Critical	Cleared, Unacknowledged	prov:default/tag:HMI/dayTank:/alm:Hi	Hi
02/26/2026 03:30:33	Alarm/Priority/High	High	Active, Unacknowledged	prov:VisionProvider/tag:Alarm/Priority:/alm:High	High
02/26/2026 03:30:33	Alarm/Alarm/Alarm	High	Active, Unacknowledged	prov:VisionProvider/tag:Alarm/Alarm:/alm:Alarm	Alarm
02/26/2026 04:48:42	Fryer	High	Cleared, Unacknowledged	prov:default/tag:Exchange/Prepared Foods Line Demo/Equip...	Fryer
02/26/2026 05:50:53	Freezer	High	Cleared, Unacknowledged	prov:default/tag:Exchange/Prepared Foods Line Demo/Equip...	Freezer

25 rows



Genius Twin

- Home
- Dashboard
- Plans
- Controls
- Alarming
- Trends
- Atlas
- Monitoring
- Engineering
- CMMS**
- Logistics

admin
Applications Engineer

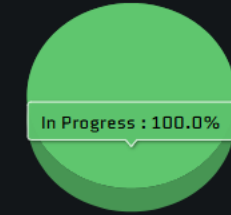
Home Facility Maintenance Inventory Manage

Overview

Low Inventory Locations

- Loc 1
- Location B
- Location C

Work Orders



Issued 0 In Progress 2 On Hold 0

Work Orders In Progress

- Work Ord 1 (admin)
- Work Ord 1 (ali)



Level 2 Tactical

CMMS + Tasks + Orders

The screenshot displays the Genius Twin CMMS interface. At the top, a navigation bar includes 'Home', 'Facility', 'Maintenance', 'Inventory', and 'Manage'. The main area is titled 'Facility' and features a world map with several location markers. A sidebar on the left, titled 'Sites & Equipment', lists 'Site A' through 'Site E' and includes an 'Add Site' option. Below the sidebar is a vertical menu with icons for Home, Dashboard, Plans, Controls, Alarming, Trends, Atlas, Monitoring, Engineering, CMMS (highlighted), and Logistics. The bottom left corner shows a user profile for 'admin Applications Engineer'. The top right corner has a settings gear icon.



Genius Twin

- Home
- Dashboard
- Plans
- Controls
- Alarming
- Trends
- Atlas
- Monitoring
- Engineering
- CMMS**
- Logistics

admin
Applications Engineer

Home Facility Maintenance Inventory Manage

Work Order

Tasks

Maintenance - Work Order Tasks

Issued In Progress On Hold Complete

Search...

Sort: Name

Work Ord 1 Equipment A	admin	●	⚙️	Work Ord 1 Equipment D	ali	●	⚙️
---------------------------	-------	---	----	---------------------------	-----	---	----

Showing 2/0 tasks



Genius Twin

- Home
- Dashboard
- Plans
- Controls
- Alarming
- Trends
- Atlas
- Monitoring
- Engineering
- CMMS**
- Logistics

admin
Applications Engineer

Home Facility Maintenance Inventory Manage

Location

Details Inventory Configure

Name	Component	Method	Min/Max	Total	In Inventory	In Use
Location B	Component B	LIFO	10/100	16	16	0

Inventory

Filter table...

Id	In Use	Entered
57c55b2b-91b5-42d3-8d8d-9a757d16787c	<input type="checkbox"/>	02/25/2026 12:11:46
b915f93e-a82f-4284-bb04-1b4492616870	<input type="checkbox"/>	02/25/2026 12:11:46
e9560dd0-f34d-430a-a2db-e39e035ddb2a	<input type="checkbox"/>	02/25/2026 12:11:46
a65d2bcb-c850-4039-8a68-dd04e3e4ecb4	<input type="checkbox"/>	02/25/2026 12:11:46
59e2248c-65f8-4492-b6ba-3e4251a5d6b8	<input type="checkbox"/>	02/25/2026 12:11:46
ec3d87a6-8f22-4b8d-8463-7264a686f1dc	<input type="checkbox"/>	02/25/2026 12:11:46
d7c41be3-6b5f-43ea-b087-7d16003ccdc6	<input type="checkbox"/>	02/25/2026 12:11:46
513d738c-ac4a-472f-a529-4486fad85fbd	<input type="checkbox"/>	02/25/2026 12:11:46
7c04629e-f28d-4de1-9188-5f7766b6533c	<input type="checkbox"/>	02/25/2026 12:11:46
0eb2c9ec-5ea3-42e9-87f2-f8b5934a8f63	<input type="checkbox"/>	02/25/2026 12:11:46
4e98230e-aa59-40d0-855c-c28a33f44441	<input type="checkbox"/>	02/25/2026 12:11:46
c9c9bcb2-1db0-4af4-aa49-168da2d55b7a	<input type="checkbox"/>	02/25/2026 12:11:46

25 rows



Level 2 Tactical

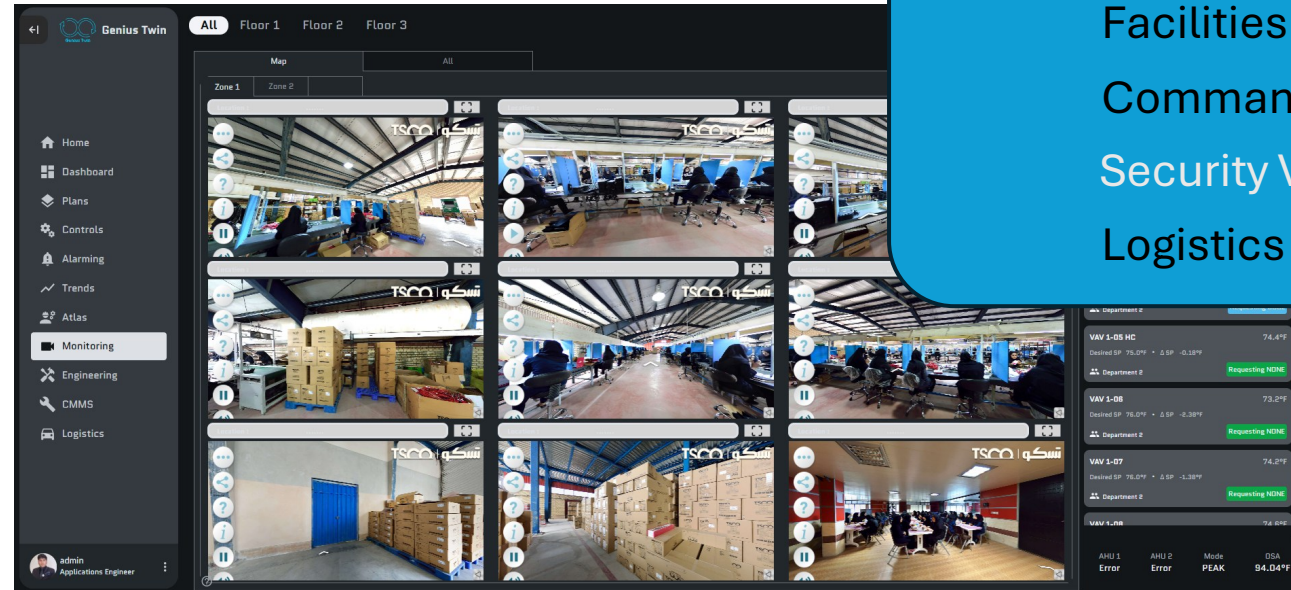
Level 2 Tactical

Facilities View (Unit status & personnel)

Command View (Alarms & Tasks)

Security View

Logistics View (Inventory & Supply Chain)



Security View

Shift Supervisors,
Production Managers,
Maintenance Managers,
Logistics Managers

Coordination &
Resource Allocation
"How do we fix today's
bottlenecks?"

- Refinery: Coordinate maintenance crew response to a pump failure across shifts.
- Warehouse: Reallocate staff based on real-time order backlog and inventory locations.
- Mining: Manage truck dispatch between the pit and the crusher to avoid downtime.



Level 2 Tactical

Security + CCTV + IMG Process

Genius Twin

All Floor 1 Floor 2 Floor 3

- Home
- Dashboard
- Plans
- Controls
- Alarming
- Trends
- Atlas
- Monitoring**
- Engineering
- CMMS
- Logistics

admin
Applications Engineer

Map All

Zone 1 Zone 2

ZONES Sort: VAV Name ASC

VAV 1-01 HC	72.2°F	Desired SP 74.0°F • Δ SP -1.38°F	Area 1	Requesting COOL
VAV 1-02 HC	73.7°F	Desired SP 73.0°F • Δ SP 1.12°F	Department 1	Requesting COOL
VAV 1-03 HC	73.4°F	Desired SP 76.0°F • Δ SP -2.18°F	Department 2	Requesting NONE
VAV 1-04	73.8°F	Desired SP 76.0°F • Δ SP -1.68°F	Department 2	Requesting COOL
VAV 1-05 HC	74.4°F	Desired SP 75.0°F • Δ SP -0.18°F	Department 2	Requesting NONE
VAV 1-06	73.2°F	Desired SP 76.0°F • Δ SP -2.38°F	Department 2	Requesting NONE
VAV 1-07	74.2°F	Desired SP 76.0°F • Δ SP -1.38°F	Department 2	Requesting NONE
VAV 1-08				
AHU 1	Error		AHU 2	Error

Level 2 Tactical

Security + CCTV + IMG Process

Genius Twin

All **Floor 1** Floor 2 Floor 3

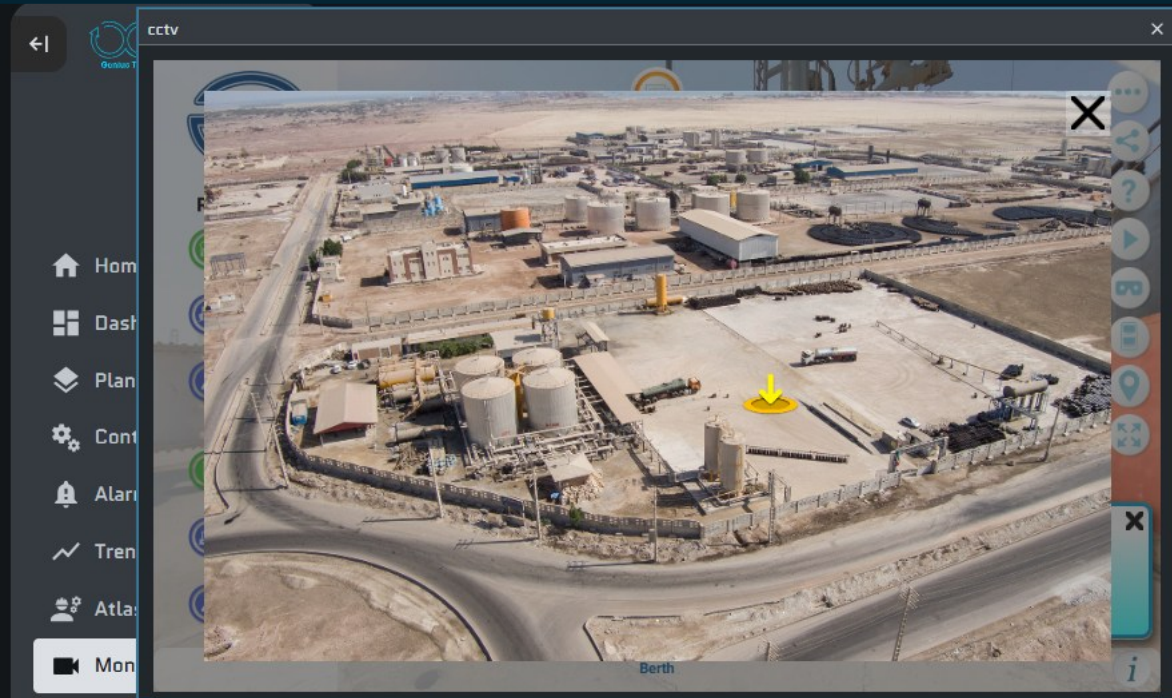
- Home
- Dashboard
- Plans
- Controls
- Alarming
- Trends
- Atlas
- Monitoring**
- Engineering
- CMMS
- Logistics

admin
Applications Engineer



Level 2 Tactical

360 ° Toure



Color Scheme

Traditional Blue/Red

Base On

Effective SP Real Temp

Components

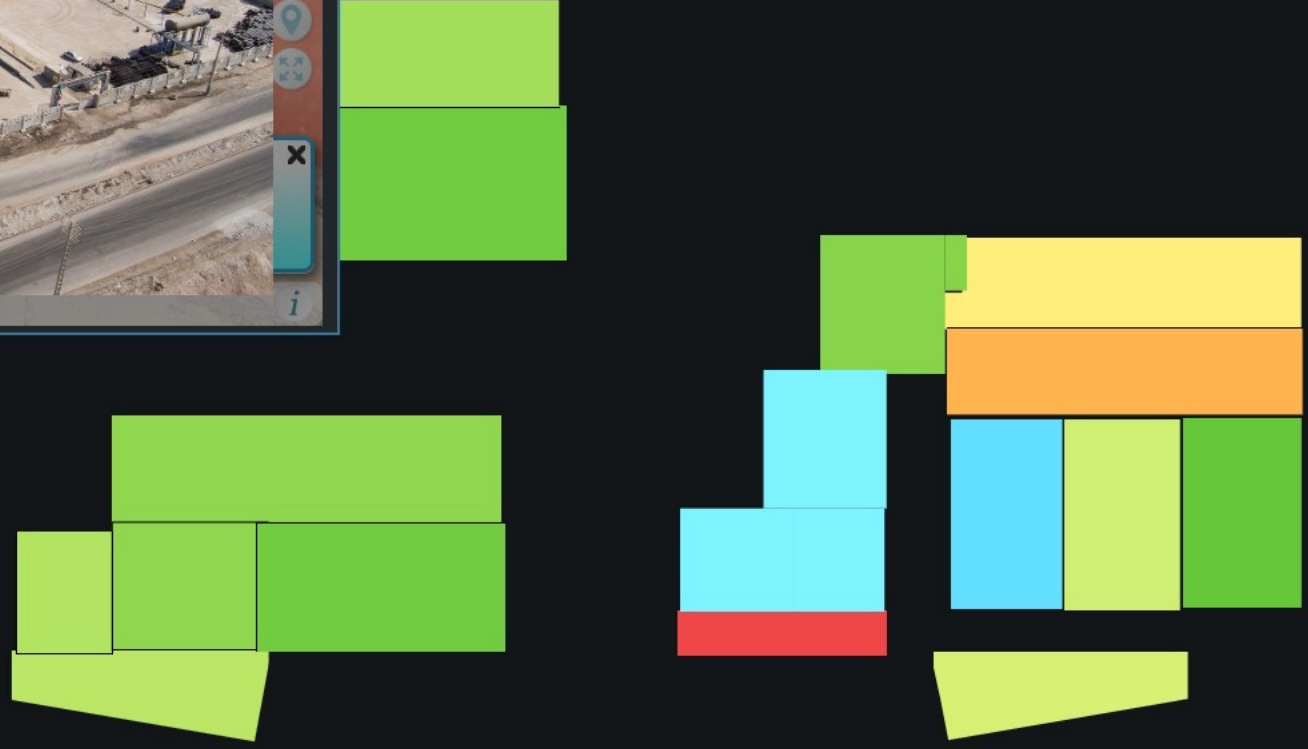
CO2 Thermostats

Engineering

CMMS

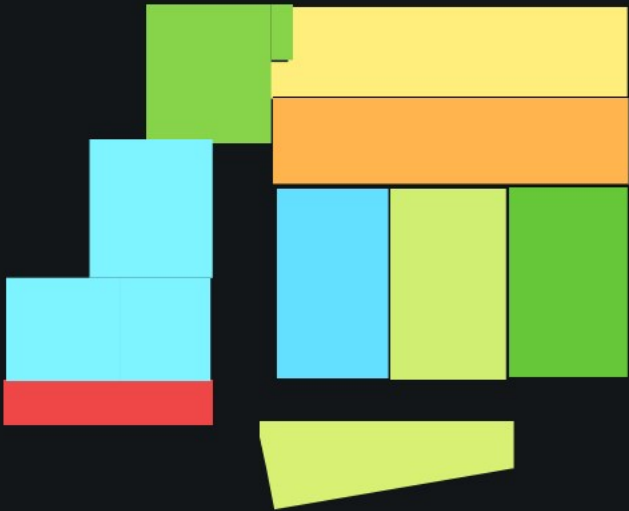
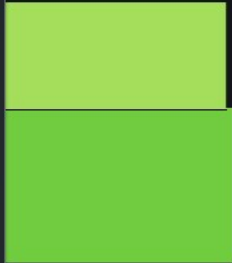
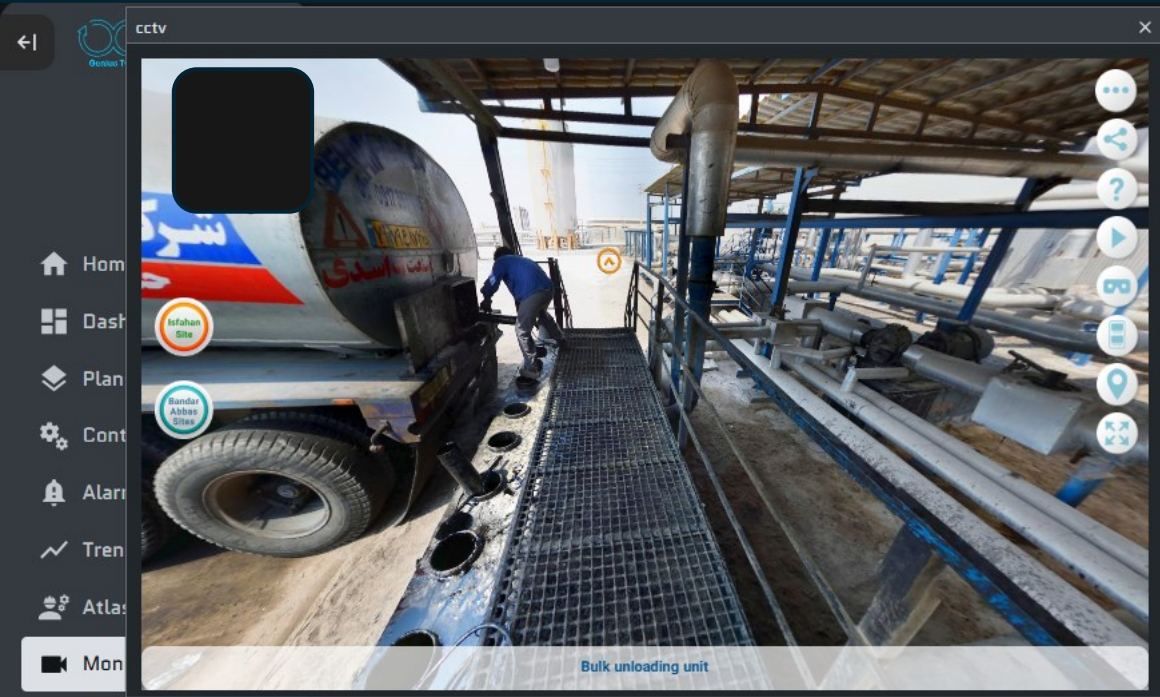
Logistics

admin Applications Engineer



Level 2 Tactical

360 ° Toure



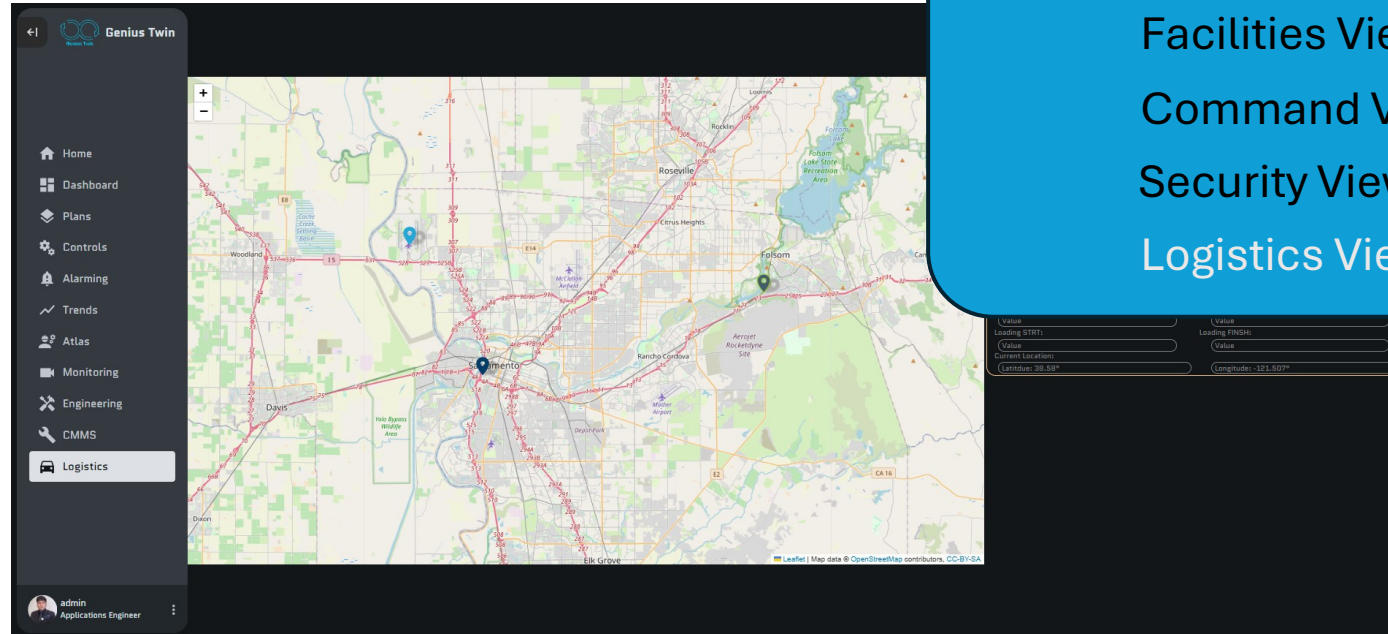
Level 2 Tactical

Facilities View (Unit status & personnel)

Command View (Alarms & Tasks)

Security View

Logistics View (Inventory & Supply Chain)



Logistics View (Inventory & Supply Chain)

**Shift Supervisors,
Production Managers,
Maintenance Managers,
Logistics Managers**

**Coordination &
Resource Allocation**
"How do we fix today's
bottlenecks?"

- **Refinery:** Coordinate maintenance crew response to a pump failure across shifts.
- **Warehouse:** Reallocate staff based on real-time order backlog and inventory locations.
- **Mining:** Manage truck dispatch between the pit and the crusher to avoid downtime.

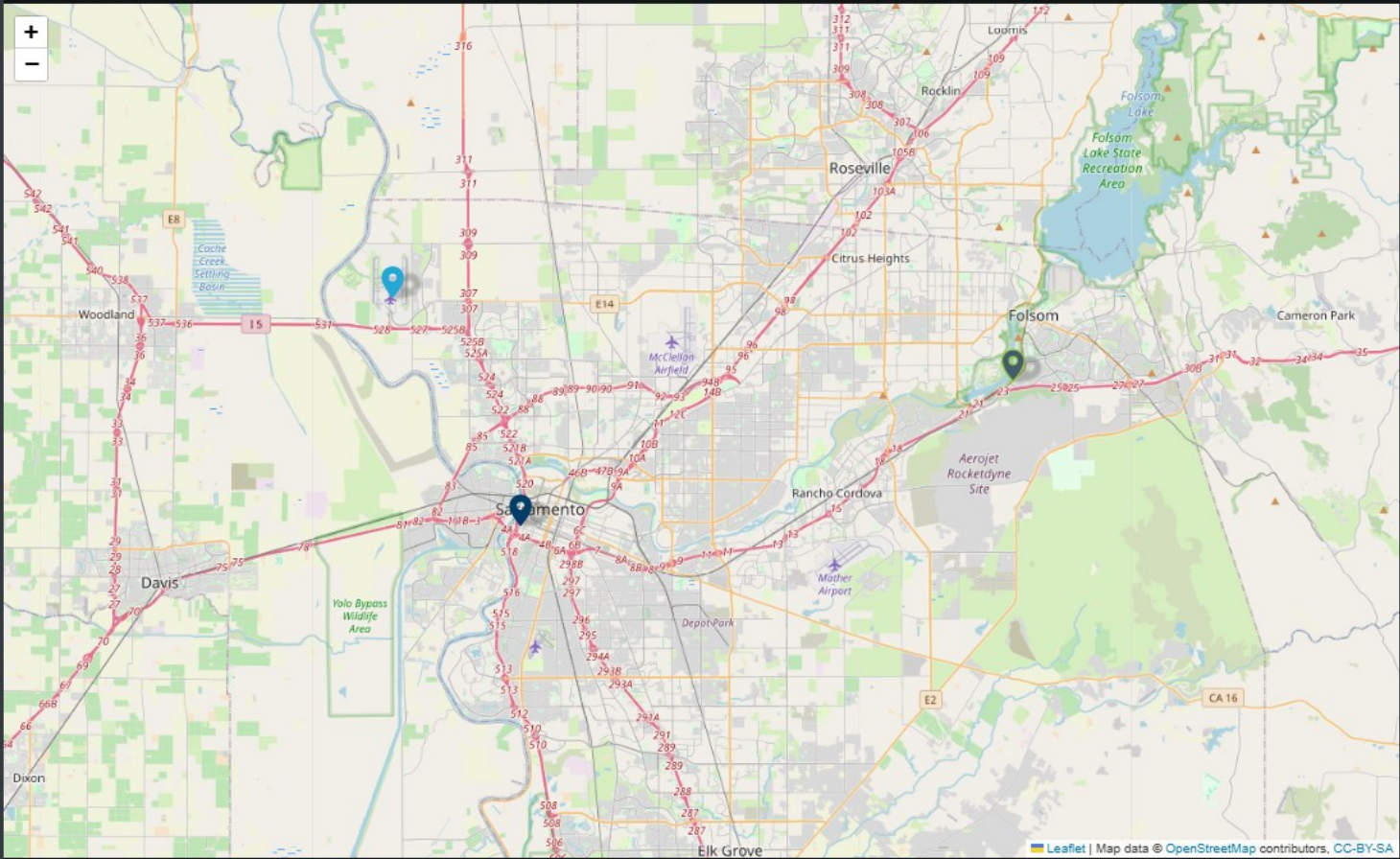


Level 2 Tactical

← Genius Twin

- Home
- Dashboard
- Plans
- Controls
- Alarming
- Trends
- Atlas
- Monitoring
- Engineering
- CMMS
- Logistics**

admin
Applications Engineer



Driver:	IA Headquarters	Status:	Idle
Delivery:	2026-2-24 0:00:00	Arrival:	2026-2-24 0:00:00
Loading START:	2026-2-24 0:00:00	Loading FINSH:	2026-2-24 0:00:00
Current Location:	Latitude: 38.653°	Longitude:	-121.19°

Driver:	Sacramento Airport	Status:	Value
Delivery:	Value	Arrival:	Value
Loading START:	Value	Loading FINSH:	Value
Current Location:	Latitude: 38.695°	Longitude:	-121.589°

Driver:	Embassy Suites	Status:	Value
Delivery:	Value	Arrival:	Value
Loading START:	Value	Loading FINSH:	Value
Current Location:	Latitude: 38.58°	Longitude:	-121.507°



ATLAS ROOM Integrated

ALL Views (Deployed across 6-12 screens)

Level 1 Strategic

Overview View (Bird's-Eye of all sites)
Command View (Critical alarms)
Analytics View (High-level KPI trends)

Level 3 Operational

Control View (Dynamic HMI & P&IDs)
Command View (Alarms & Tasks)

Level 2 Tactical

Facilities View (Unit status & personnel)
Command View (Alarms & Tasks)
Security View
Logistics View (Inventory & Supply Chain)

Level 4 Analytical / Support

Analytics View (Historical trend analysis)
Training View (Simulation & AI Assistant)
Asset View (Maintenance history & docs)

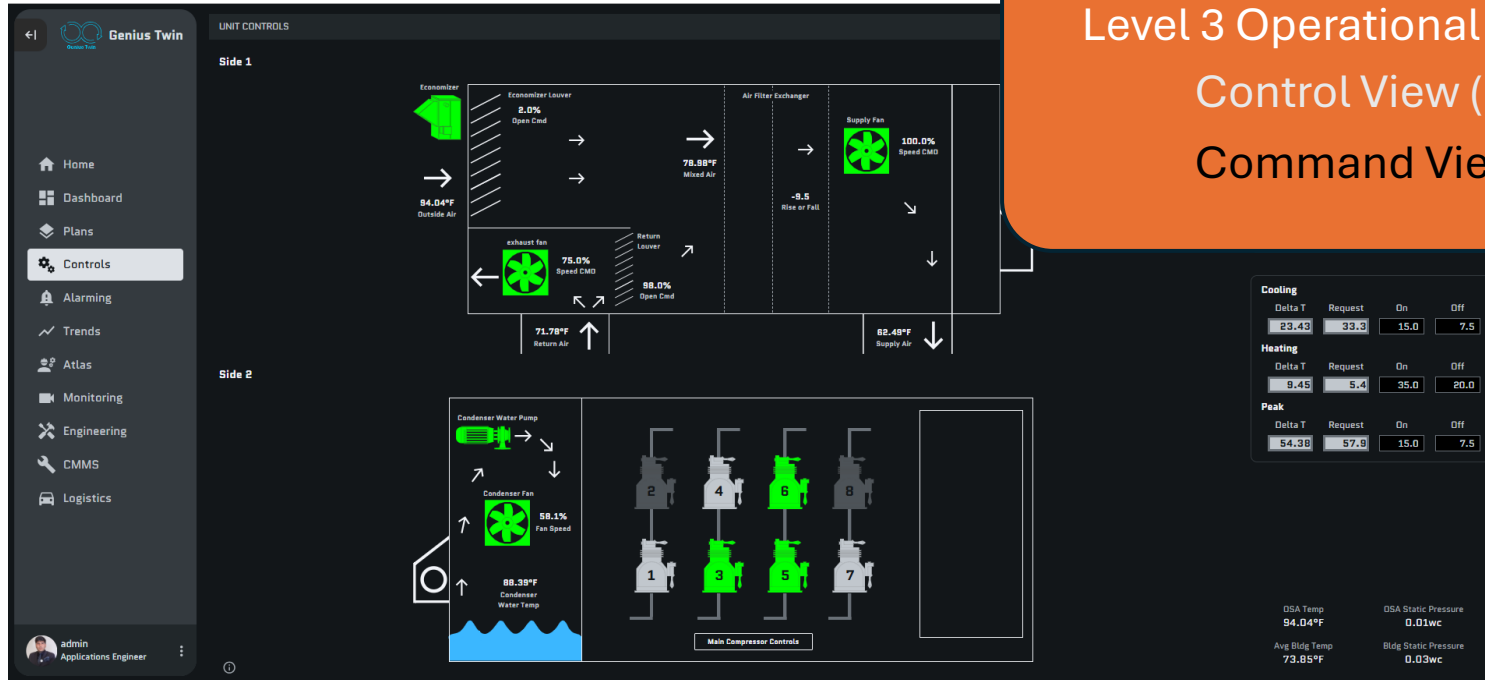
**Crisis Management
Team, Integrated
Operations Center,
Executive Briefing
Center**

**Holistic Situational
Awareness & Crisis
Response**
"What is the big picture?"

- **Refinery Emergency:** The Overview View shows smoke location, Command View shows evacuation status, Asset View shows isolation points, and Security View shows personnel locations.
- **Steel Complex:** Monitor raw material arrival (Logistics), production flow (Control), and finished goods shipping (Logistics) all in one room.



Level 3 Operational



Level 3 Operational
Control View (Dynamic HMI & P&IDs)
Command View (Alarms & Tasks)

Control View (Dynamic HMI & P&IDs)

Panel Operators,
Control Room Operators,
Line Operators

Real-Time Process Control & Stability
"Is the process running within limits?"

- **Petrochemical:** Monitor reactor temperature and pressure, make immediate set-point adjustments via dynamic P&ID.
- **Power Plant:** Balance turbine load and monitor boiler efficiency.
- **Cement Plant:** Control kiln burner and cooler parameters.



Level 3 Operational

Control Room + HMI

Genius Twin

- Home
- Dashboard
- Plans
- Controls**
- Alarming
- Trends
- Atlas
- Monitoring
- Engineering
- CMMS
- Logistics

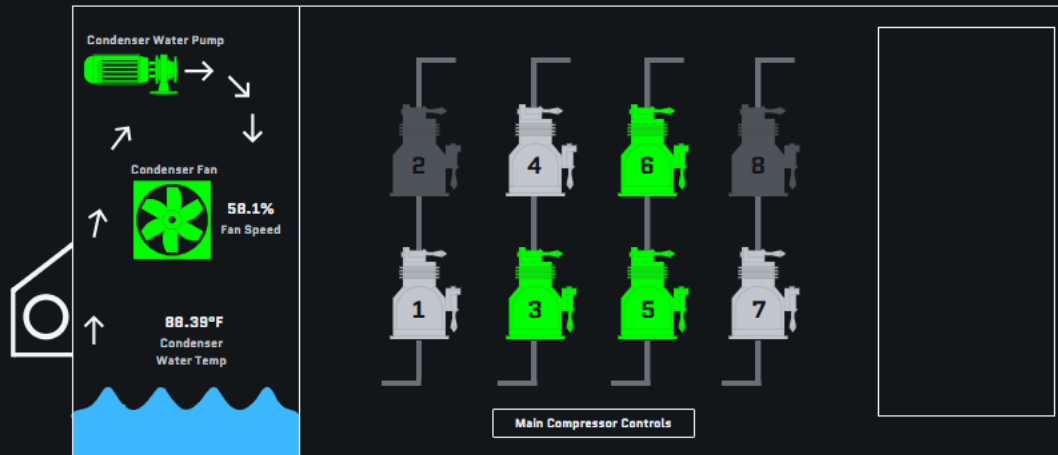
admin
Applications Engineer

UNIT CONTROLS

Side 1



Side 2



AHU Enable

AHU 1	Enable	Disabled
AHU 2	Enable	Disabled

System Mode

Current Mode: PEAK

Cooling	Hand	Off	Auto
Heating	Hand	Off	Auto
Peak	Hand	Off	Auto

Cooling

Delta T	Request	On	Off
23.43	33.3	15.0	7.5

Heating

Delta T	Request	On	Off
9.45	5.4	35.0	20.0

Peak

Delta T	Request	On	Off
54.38	57.9	15.0	7.5

OSA Temp
94.04°F

Avg Bldg Temp
73.85°F



Level 3 Operational

Control Room + HMI

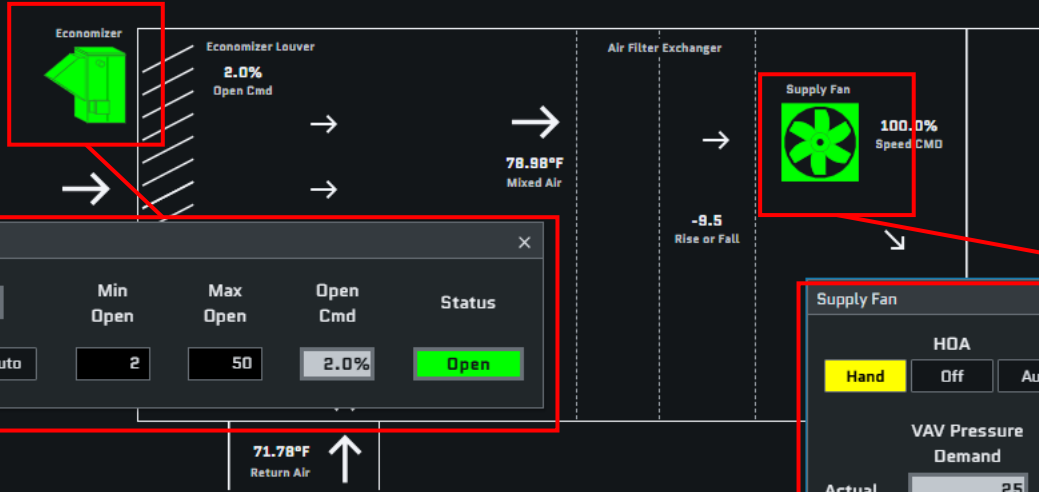
Genius Twin

- Home
- Dashboard
- Plans
- Controls**
- Alarming
- Trends
- Atlas
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- CMMS
- Logistics

admin
Applications Engineer

UNIT CONTROLS

Side 1



Economizer

Folsom AQI PM2.5: 0

Min	Max	Close	Auto	Min Open	Max Open	Open Cmd	Status
Min	Max	Close	Auto	2	50	2.0%	Open

Supply Fan

HOA	Hand Speed	Speed Cmd	Status
Hand	85	100.0%	Running

VAV Pressure Demand: 25

Min SP	Max SP	Duct Pressure SP	Duct Pressure Act
10	29	3.00	2.20

Manual Reset

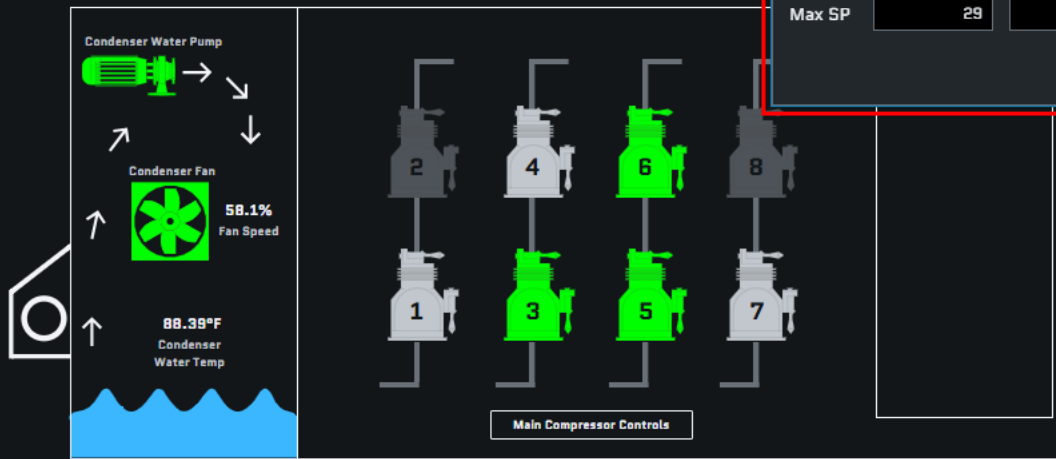
AHU Enable

AHU	Enable	Disabled
AHU 1	Enable	Disabled
AHU 2	Enable	Disabled

System Mode Current Mode: PEAK

Mode	Hand	Off	Auto
Cooling	Hand	Off	Auto
Heating	Hand	Off	Auto

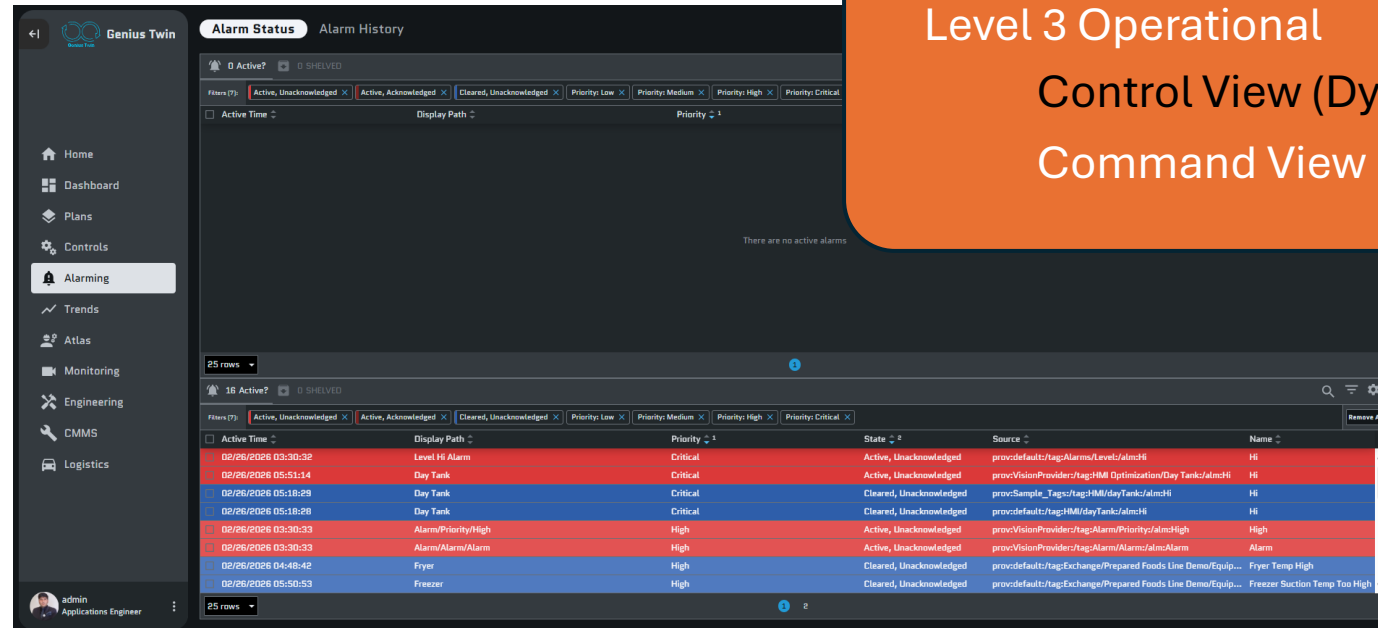
Side 2



OSA Temp: 94.04°F
Avg Bldg Temp: 73.85°F



Level 3 Operational



Level 3 Operational

Control View (Dynamic HMI & P&IDs)

Command View (Alarms & Tasks)

Command View (Alarms & Tasks)

Shift Supervisors,
Production Managers,
Maintenance Managers,
Logistics Managers

Coordination & Resource
Allocation
"How do we fix today's
bottlenecks?"

- Refinery: Coordinate maintenance crew response to a pump failure across shifts.
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ATLAS ROOM Integrated

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Level 3 Operational

Control View (Dynamic HMI & P&IDs)

Level 2 Tactical

Facilities View (Unit status & personnel)
Command View (Alarms & Tasks)
Security View
Logistics View (Inventory & Supply Chain)

Level 4 Analytical / Support

Analytics View (Historical trend analysis)
Training View (Simulation & AI Assistant)
Asset View (Maintenance history & docs)

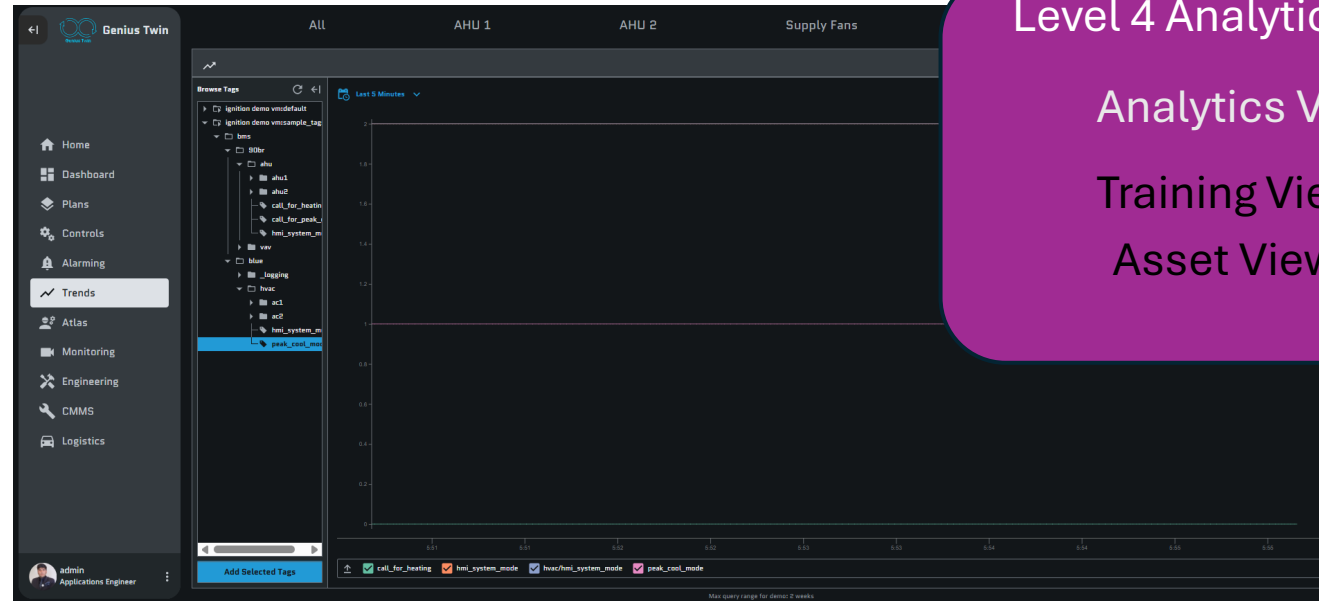
**Crisis Management
Team, Integrated
Operations Center,
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Level 4 Analytical / Support



Level 4 Analytical / Support

Analytics View (Historical trend analysis)

Training View (Simulation & AI Assistant)

Asset View (Maintenance history & docs)

Analytics View (Historical trend analysis)

Process Engineers,
Reliability Engineers,
HSE Specialists,
Trainers

Deep Dive Analysis &
Optimization
"Why did this failure
happen?" / "How can we
optimize?"

- Analytics View (Historical trend analysis)
- Asset View (Maintenance history & docs)
- Training View (Simulation & AI)

- Reliability Engineer: Click on a failed pump in the Asset View to review 5 years of vibration data and work orders.
- Process Engineer: Run "what-if" scenarios in the Training View to optimize a new procedure.
- HSE Specialist: Review safety incident history geolocated on the Facilities View.



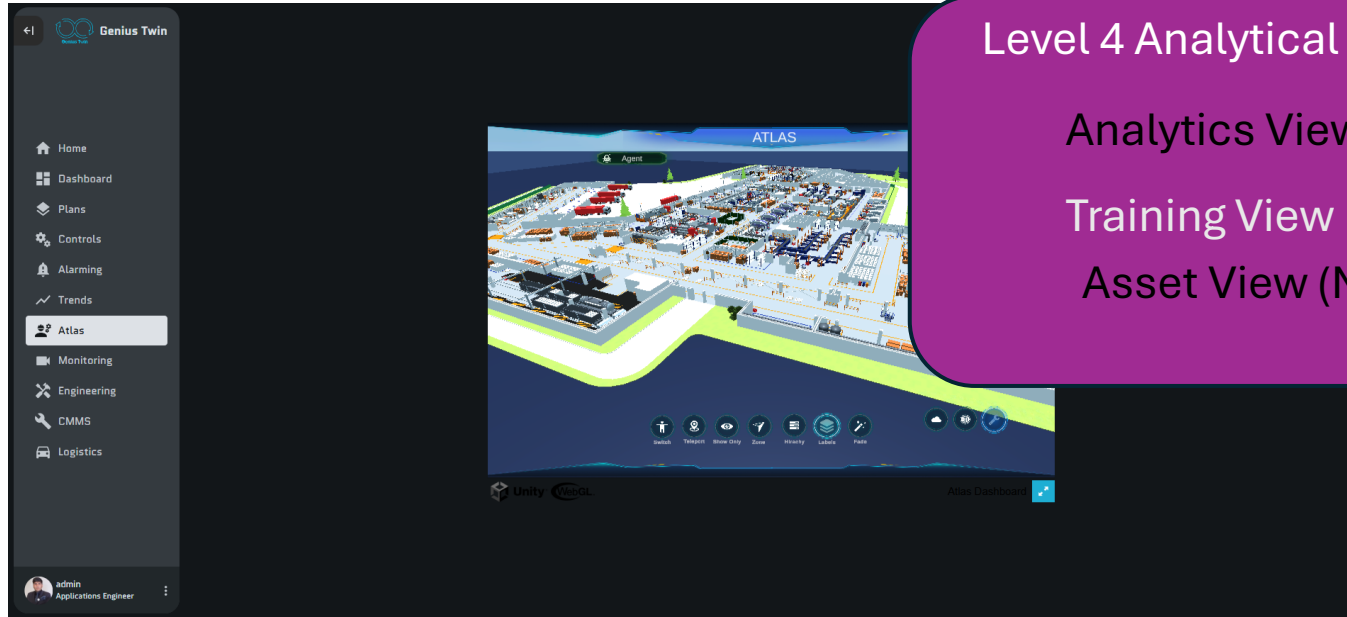
Level 4 Analytical / Support

Power Chart +Trends View

The screenshot displays the Genius Twin interface. On the left is a navigation sidebar with options: Home, Dashboard, Plans, Controls, Alarming, Trends (highlighted), Atlas, Monitoring, Engineering, CMMS, and Logistics. The user is identified as 'admin Applications Engineer'. The main area shows a 'Browse Tags' tree with a selected tag 'peak_cool_mode'. The central chart area is titled 'Last 5 Minutes' and shows a flat line at 1.0 on a scale from 0 to 2.0. Below the chart, a legend shows checked boxes for 'call_for_heating', 'hmi_system_mode', 'hvac/hmi_system_mode', and 'peak_cool_mode'. The bottom of the interface indicates a 'Max query range for demo: 2 weeks'.



Level 4 Analytical / Support



Level 4 Analytical / Support

- Analytics View (Historical trend analysis)
- Training View (Simulation & AI Assistant)
- Asset View (Maintenance history & docs)

Training View (Simulation & AI Assistant)

Process Engineers,
Reliability Engineers,
HSE Specialists,
Trainers

Deep Dive Analysis &
Optimization
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Level 4 Analytical / Support

Training + VR

← Genius Twin

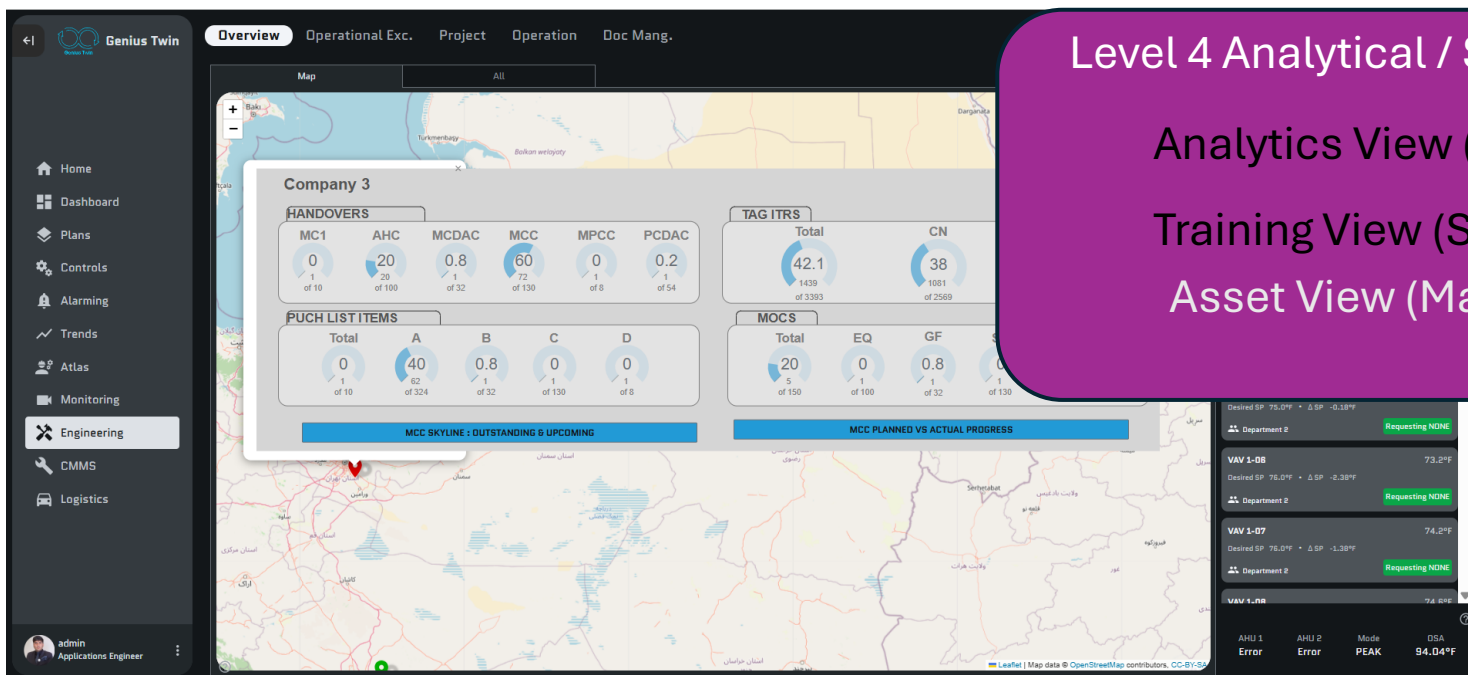
- Home
- Dashboard
- Plans
- Controls
- Alarming
- Trends
- Atlas**
- Monitoring
- Engineering
- CMMS
- Logistics

admin
Applications Engineer





Level 4 Analytical / Support



Level 4 Analytical / Support

- Analytics View (Historical trend analysis)
- Training View (Simulation & AI Assistant)
- Asset View (Maintenance history & docs)

Asset View (Maintenance history & docs)

Process Engineers,
Reliability Engineers,
HSE Specialists,
Trainers

Deep Dive Analysis &
Optimization
"Why did this failure
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Level 4 Analytical / Support

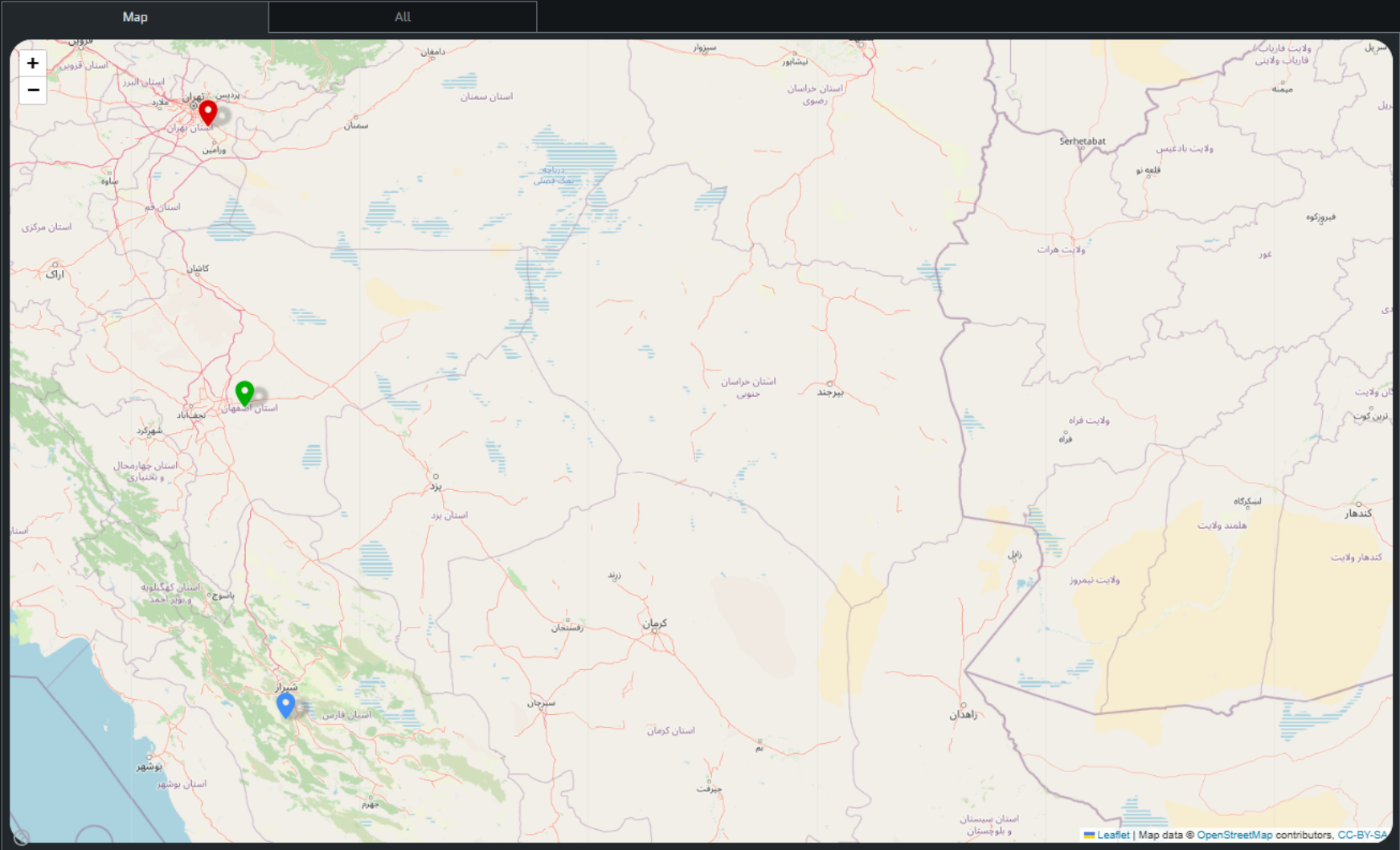
Final Book

← Genius Twin

Overview Operational Exc. Project Operation Doc Mang.


- Home
- Dashboard
- Plans
- Controls
- Alarming
- Trends
- Atlas
- Monitoring
- Engineering
- CMMS
- Logistics

admin Applications Engineer



ZONES Sort: VAV Name ASC

VAV 1-01 HC	72.2°F	Desired SP 74.0°F • Δ SP -1.38°F	Requesting COOL
VAV 1-02 HC	73.7°F	Desired SP 73.0°F • Δ SP 1.12°F	Requesting COOL
VAV 1-03 HC	73.4°F	Desired SP 76.0°F • Δ SP -2.18°F	Requesting NONE
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VAV 1-07	74.2°F	Desired SP 76.0°F • Δ SP -1.38°F	Requesting NONE
VAV 1-08			
AHU 1	Error	AHU 2	Error



Level 4 Analytical / Support

Final Book

Genius Twin

Overview Operational Exc. Project Operation Doc Mang.

- Home
- Dashboard
- Plans
- Controls
- Alarming
- Trends
- Atlas
- Monitoring
- Engineering
- CMMS
- Logistics

admin Applications Engineer

Map All

Company 3

HANDOVERS

MC1	AHC	MCDAC	MCC	MPCC	PCDAC
0 / 1 of 10	20 / 20 of 100	0.8 / 1 of 32	60 / 72 of 130	0 / 1 of 8	0.2 / 1 of 54

TAG ITRS

Total	CN	PC
42.1 / 1439 of 3393	38 / 1081 of 2569	48 / 348 of 860

PUCH LIST ITEMS

Total	A	B	C	D
0 / 1 of 10	40 / 62 of 324	0.8 / 1 of 32	0 / 1 of 130	0 / 1 of 8

MCCS

Total	EQ	GF	SQ	TQ
20 / 5 of 150	0 / 1 of 100	0.8 / 1 of 32	0 / 1 of 130	0 / 1 of 8


MCC SKYLINE : OUTSTANDING & UPCOMING

MCC PLANNED VS ACTUAL PROGRESS

ZONES Sort: VAV Name ASC

- VAV 1-01 HC 72.2°F
Desired SP 74.0°F • Δ SP -1.38°F
Area 1 **Requesting COOL**
- VAV 1-02 HC 73.7°F
Desired SP 73.0°F • Δ SP 1.12°F
Department 1 **Requesting COOL**
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Desired SP 76.0°F • Δ SP -2.18°F
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Desired SP 76.0°F • Δ SP -1.68°F
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- VAV 1-06 73.2°F
Desired SP 76.0°F • Δ SP -2.38°F
Department 2 **Requesting NONE**
- VAV 1-07 74.2°F
Desired SP 76.0°F • Δ SP -1.38°F
Department 2 **Requesting NONE**
- VAV 1-08

AHU 1 Error AHU 2 Error



Level 4 Analytical / Support

Final Book

Genius Twin

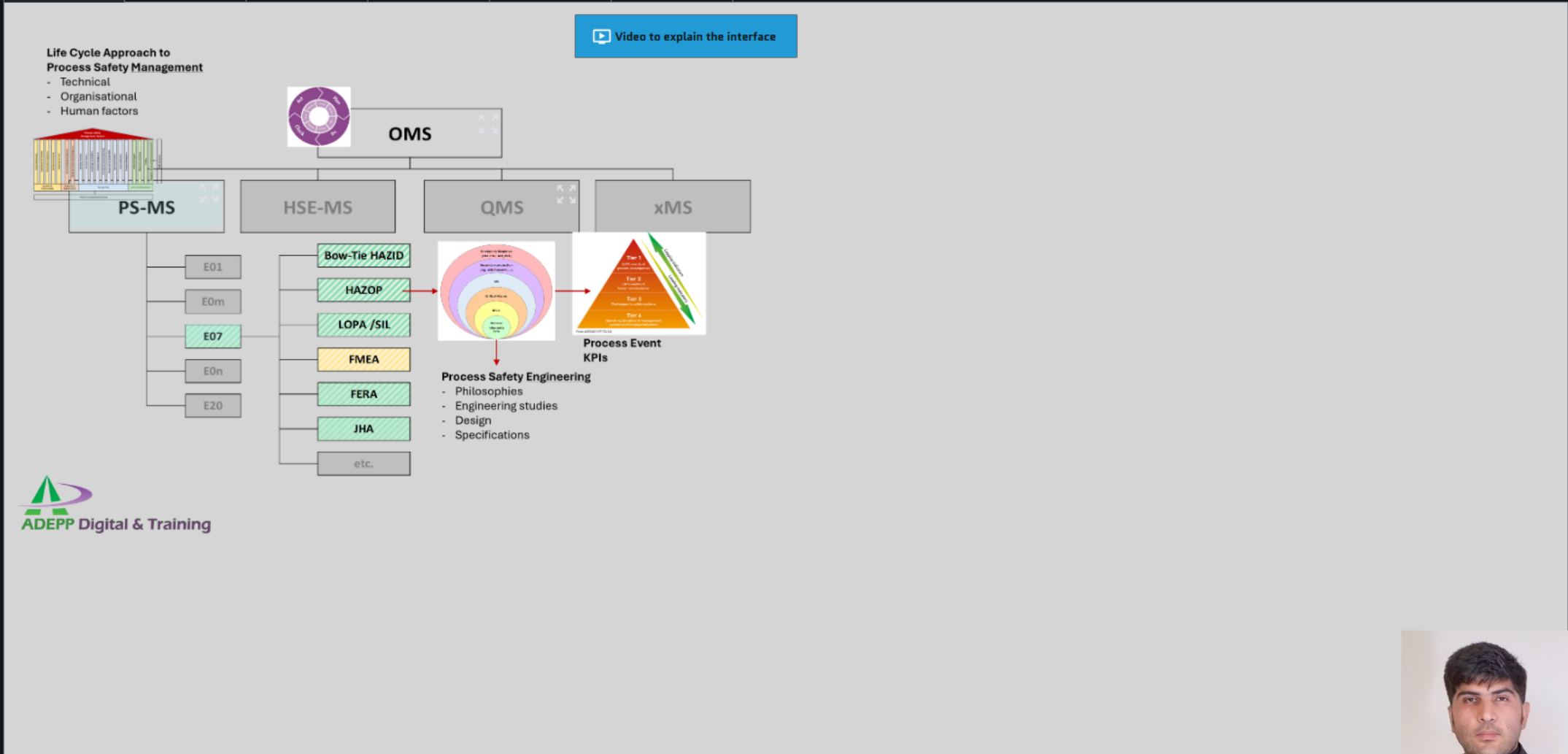
- Home
- Dashboard
- Plans
- Controls
- Alarming
- Trends
- Atlas
- Monitoring
- Engineering**
- CMMS
- Logistics

admin
Applications Engineer

Overview **Operational Exc.** Project Operation Doc Mang.

Display Options

Overview EPC MS Operating MS Quality MS HSE MS Process MS

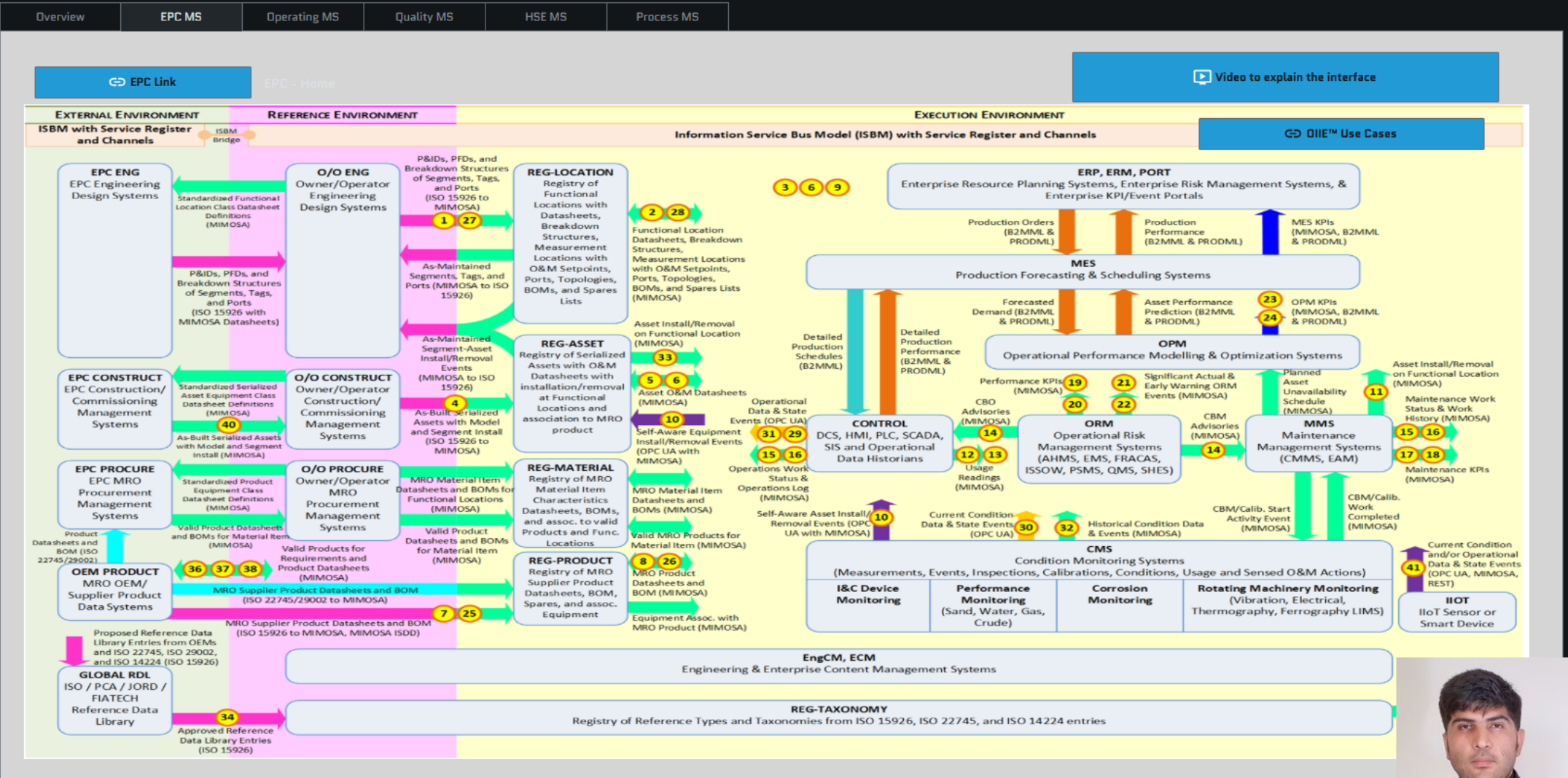


Level 4 Analytical / Support

Final Book

- Home
- Dashboard
- Plans
- Controls
- Alarming
- Trends
- Atlas
- Monitoring
- Engineering**
- CMMS
- Logistics

admin Applications Engineer



Genius Twin

- Home
- Dashboard
- Plans
- Controls
- Alarming
- Trends
- Atlas
- Monitoring
- Engineering**
- CMMS
- Logistics

admin
Applications Engineer

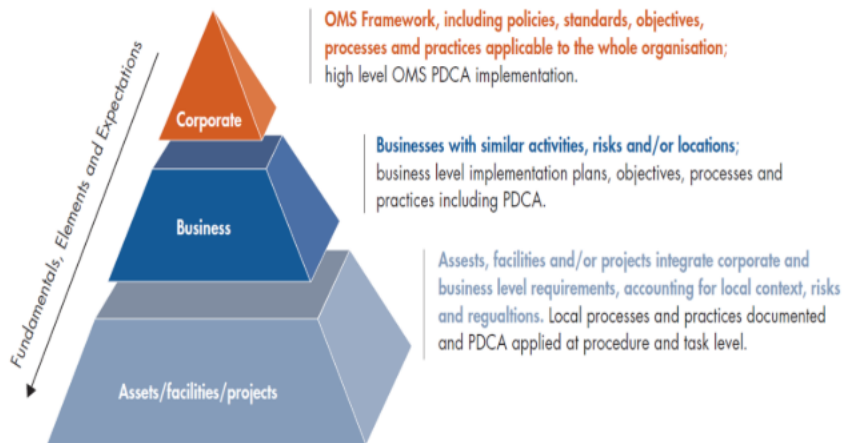
Overview **Operational Exc.** Project Operation Doc Mang.

Overview EPC MS **Operating MS** Quality MS HSE MS Process MS

[OMS Link](#)

ADEPP OMS monitor - ADEPP OMS Monitor modules

[Video to explain the interface](#)



Genius Twin

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- Atlas
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- Engineering**
- CMMS
- Logistics

admin
Applications Engineer

QMS Link

QMS - Home

Video to explain the interface

- Review the findings of your quality management system
- Re-evaluate both the processes and the product
- Begin the quality management process again

- Control, measure and monitor your outputs to ensure they meet expected criteria
- Identify areas where there is opportunity for improvement



- Identify your goals and baseline
- Assemble internal resources
- Determine quality standards and the requirements to meet those standards
- Determine what procedures will be used to ensure criteria is being met
- Organize supporting documentation (ISO documentation, policies, procedures, training materials, work instructions, etc.) in a document management system
- Train employees on new process(es)
- Deploy the quality management system



Level 4 Analytical / Support

Final Book

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Overview **Operational Exc.** Project Operation Doc Mang.

Overview EPC MS Operating MS Quality MS HSE MS Process MS

HSE Link HSE

Video to explain the interface



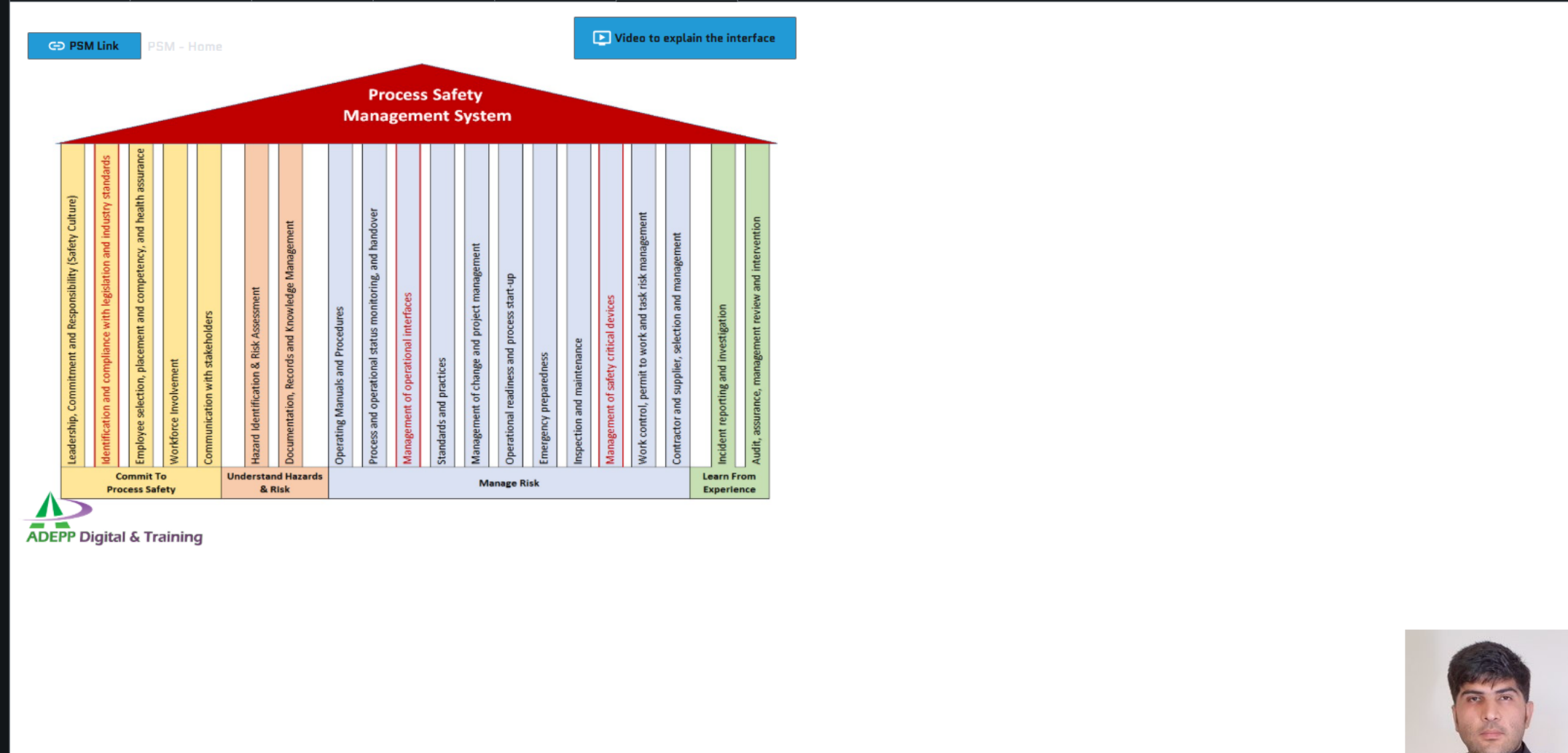
Genius Twin

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Level 4 Analytical / Support

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Overview Operational Exc. **Project** Operation Doc Mang.

Overview Feasibility Conceptual Engineering Procurement Construction Comm. Startup Life Ex. Decomm.

Overview Map Process Area Utility Area Buildings alarms

Building Automation Demo/Page/Engineering/Engineering/Project/Overview/Plant/Plant

Global

HANDOVERS

MC1	AHC	MCDAC	MCC	MPCC	PCDAC
0 / 1 of 10	20 / 20 of 100	0.8 / 1 of 32	60 / 72 of 130	0 / 1 of 8	0.2 / 1 of 54

TAG ITRS

Total	CN	PC
42.1 / 1439 of 3393	38 / 1081 of 2569	48 / 348 of 860

PUCH LIST ITEMS

Total	A	B	C	D
0 / 1 of 10	40 / 62 of 324	0.8 / 1 of 32	0 / 1 of 130	0 / 1 of 8

MCCS

Total	EQ	GF	SQ	TQ
20 / 5 of 150	0 / 1 of 100	0.8 / 1 of 32	0 / 1 of 130	0 / 1 of 8

MCC SKYLINE : OUTSTANDING & UPCOMING MCC PLANNED VS ACTUAL PROGRESS

Plant 1

Equipment Efficiency OEE: 74 Availability: 10 Performance Rat: 22 Yield: 26 Startup Delay: 0	Production Performance Stoppage: 55 Batterence: 13 Performance: 43 SUEPD: 84	Quality & Loss Analysis Production Loss Analysis: 85 Downtime Pareto: 0 Scrap Analysis: 15 PPM Trend: 75
Quality & Loss Analysis Electricity Consumption % Cost: 55 Downtime Pareto: 55 Carbon Emission (CO2): 32 Efficiency: 84	Safety & Operations Electricity Consumption % Cost: 25 Operational Availability Yield: 14 Improvement: 86	Dashboard Plant alarms


Plant 2

Equipment Efficiency OEE: 74 Availability: 10 Performance Rat: 22 Yield: 26 Startup Delay: 0	Production Performance Stoppage: 55 Batterence: 13 Performance: 43 SUEPD: 84	Quality & Loss Analysis Production Loss Analysis: 85 Downtime Pareto: 0 Scrap Analysis: 15 PPM Trend: 75
Quality & Loss Analysis Electricity Consumption % Cost: 55 Downtime Pareto: 55 Carbon Emission (CO2): 32 Efficiency: 84	Safety & Operations Electricity Consumption % Cost: 25 Operational Availability Yield: 14 Improvement: 86	Dashboard Plant alarms

ZONES Sort: VAV Name ASC

- VAV 1-01 HC 72.2°F
Desired SP 74.0°F • Δ SP -1.38°F
Area 1 Requesting COOL
- VAV 1-02 HC 73.7°F
Desired SP 73.0°F • Δ SP 1.12°F
Department 1 Requesting COOL
- VAV 1-03 HC 73.4°F
Desired SP 76.0°F • Δ SP -2.18°F
Department 2 Requesting NONE
- VAV 1-04 73.9°F
Desired SP 76.0°F • Δ SP -1.68°F
Department 2 Requesting COOL
- VAV 1-05 HC 74.4°F
Desired SP 75.0°F • Δ SP -0.18°F
Department 2 Requesting NONE
- VAV 1-06 73.2°F
Desired SP 76.0°F • Δ SP -2.38°F
Department 2 Requesting NONE
- VAV 1-07 74.2°F
Desired SP 76.0°F • Δ SP -1.38°F
Department 2 Requesting NONE

AHU 1 Error AHU 2 Error



Level 4 Analytical / Support

Final Book

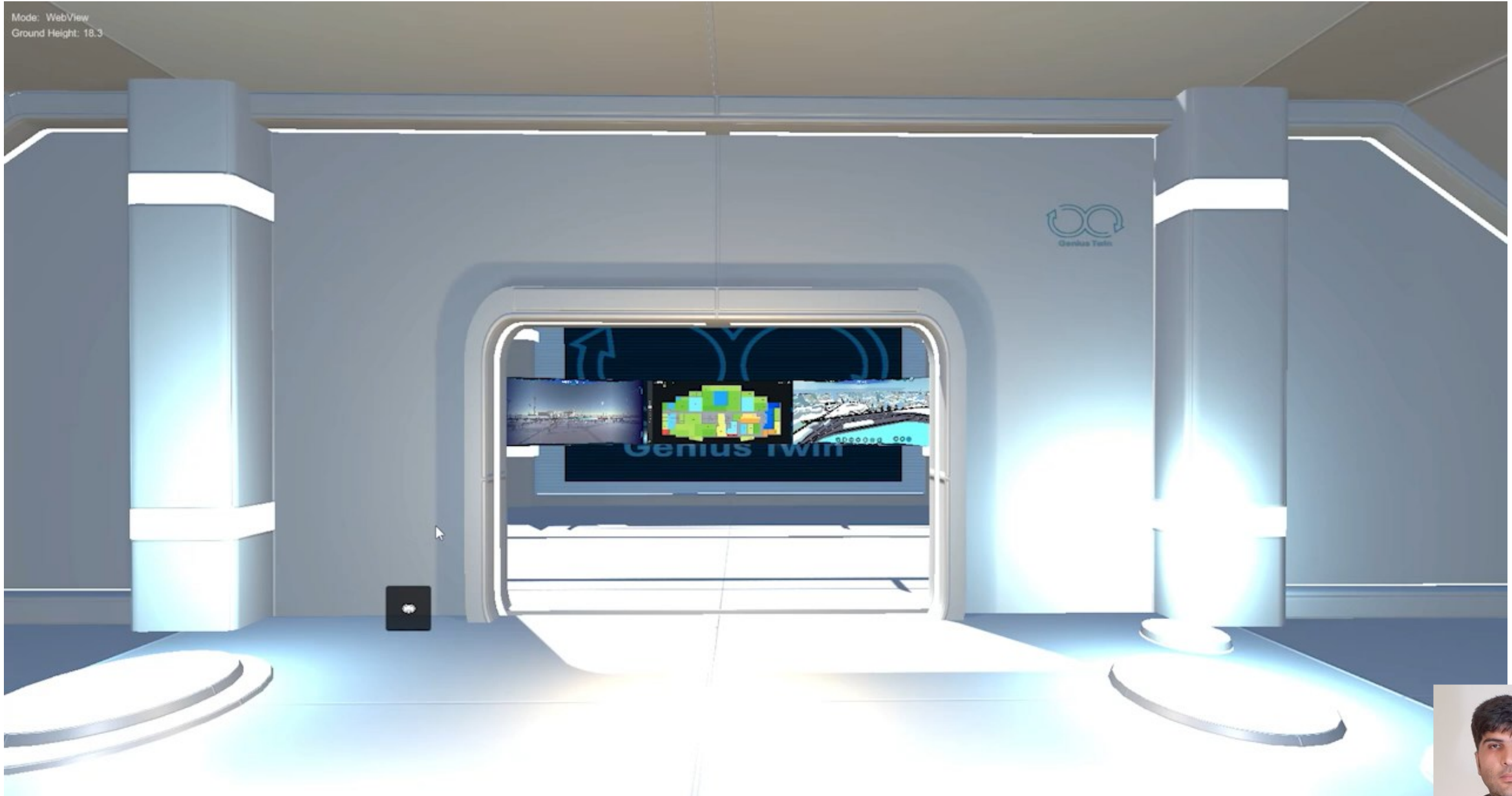
The screenshot displays the 'Doc Mang.' (Document Management) interface within the Genius Twin system. The main view shows a 'Root' directory containing three sub-folders labeled '1', '2', and '3'. The interface includes a sidebar with navigation options such as Home, Dashboard, Plans, Controls, Alarming, Trends, Atlas, Monitoring, Engineering, CMMS, and Logistics. The user is identified as 'admin Applications Engineer'. The interface also shows a search bar, tags, users, and modified dates. The file details panel on the right shows the filename '1594129139265 - Copy.jpg', its size (34.44 KB), and the last modified date (2/23/26 3:43 PM by anonymous).





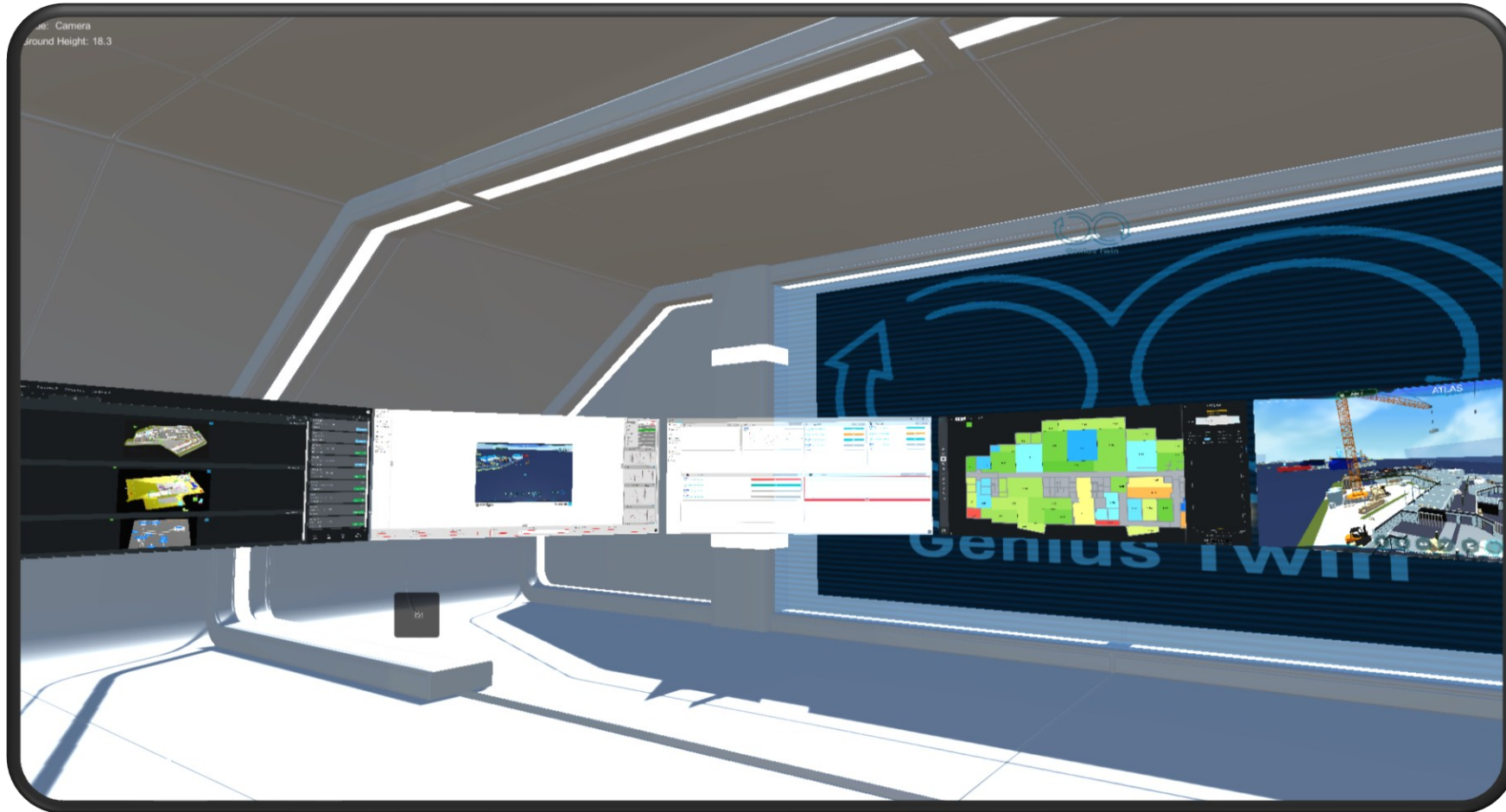
Collaboration in the indigenous WRFM project in Pasargad Energy Group as SCADA Department Manager

Mode: WebView
Ground Height: 18.3



ATLAS ROOM Integrated

ALL Views (Deployed across 6-12 screens)



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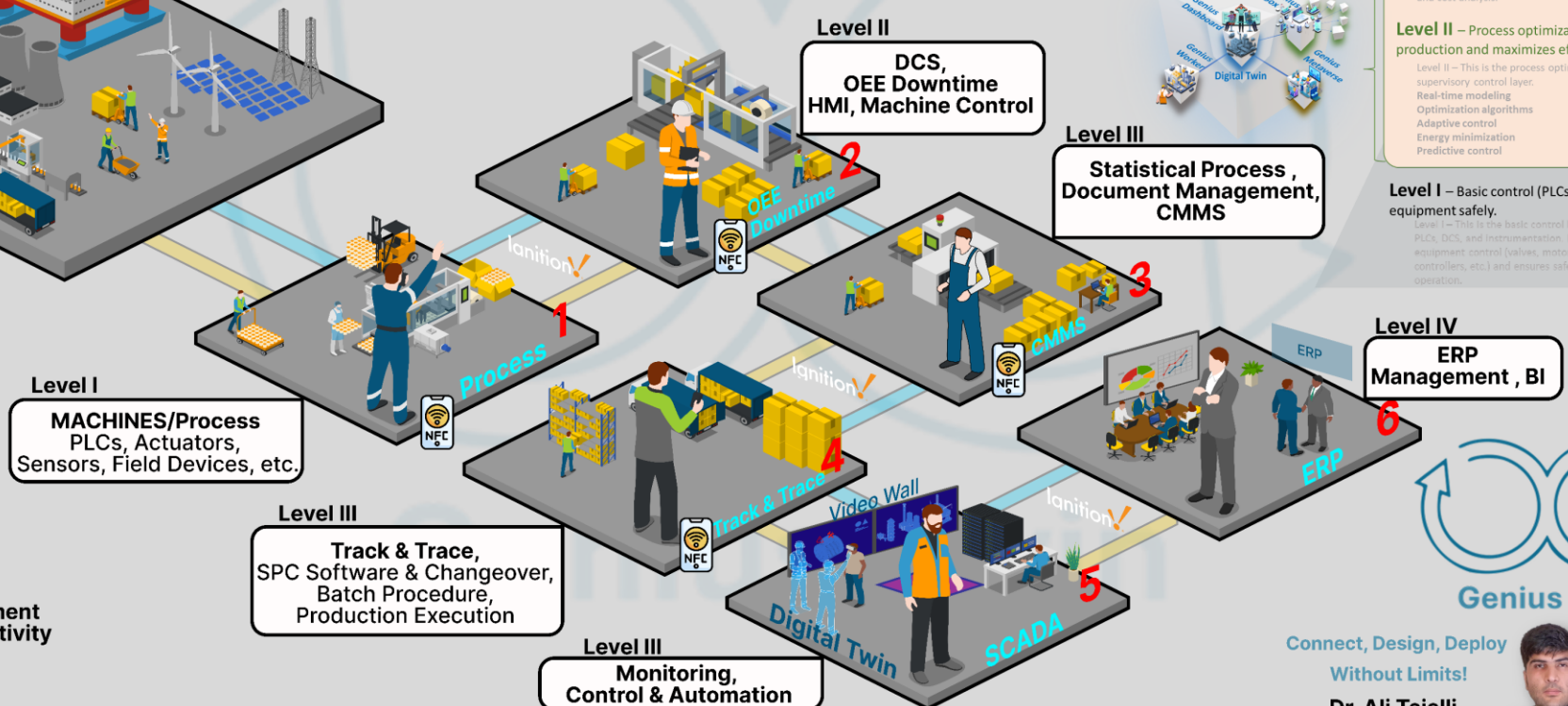
OIL & GAS
FOOD & BEVERAGE
MANUFACTORY
WATER & WASTE
TRANSPARATION

Create your first **DIGITAL TWIN** with US!

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 - Maximize your Production Efficiency
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 - Lower OT/IT Costs
 - Increase Asset Utilization
- Save Time**
 - Enterprise-Wide Production Data Sync
 - Global Enterprise Connectivity
 - Easy Project Customization
 - Track Production Data Trends Digitally
 - Manage Your Inventory in Real-Time
- Increase Flexibility**
 - Customize to Your Production Environment
 - Plant Floor to Business System Connectivity
 - Real Time Data Acquisition
 - Real Time Sampling, & Monitoring
 - Accessible Onsite or Remotely



DCS, MES & HMI/SCADA Layers



Level IV – ERP: corporate level – finance, procurement, sales, logistics.

Level III –MES: translates production into schedules, KPIs, and cost analysis.
Level III (MES): Translates process data into KPIs, scheduling, and cost analysis.

Level II – Process optimization: stabilizes production and maximizes efficiency.
Level II – This is the process optimization and supervisory control layer.
Real-time modeling
Optimization algorithms
Adaptive control
Energy minimization
Predictive control

Level I – Basic control (PLCs/DCS): runs equipment safely.
Level I – This is the basic control layer, consisting of PLCs, DCS, and instrumentation. It handles direct equipment control (valves, motors, temperature controllers, etc.) and ensures safe, reliable operation.

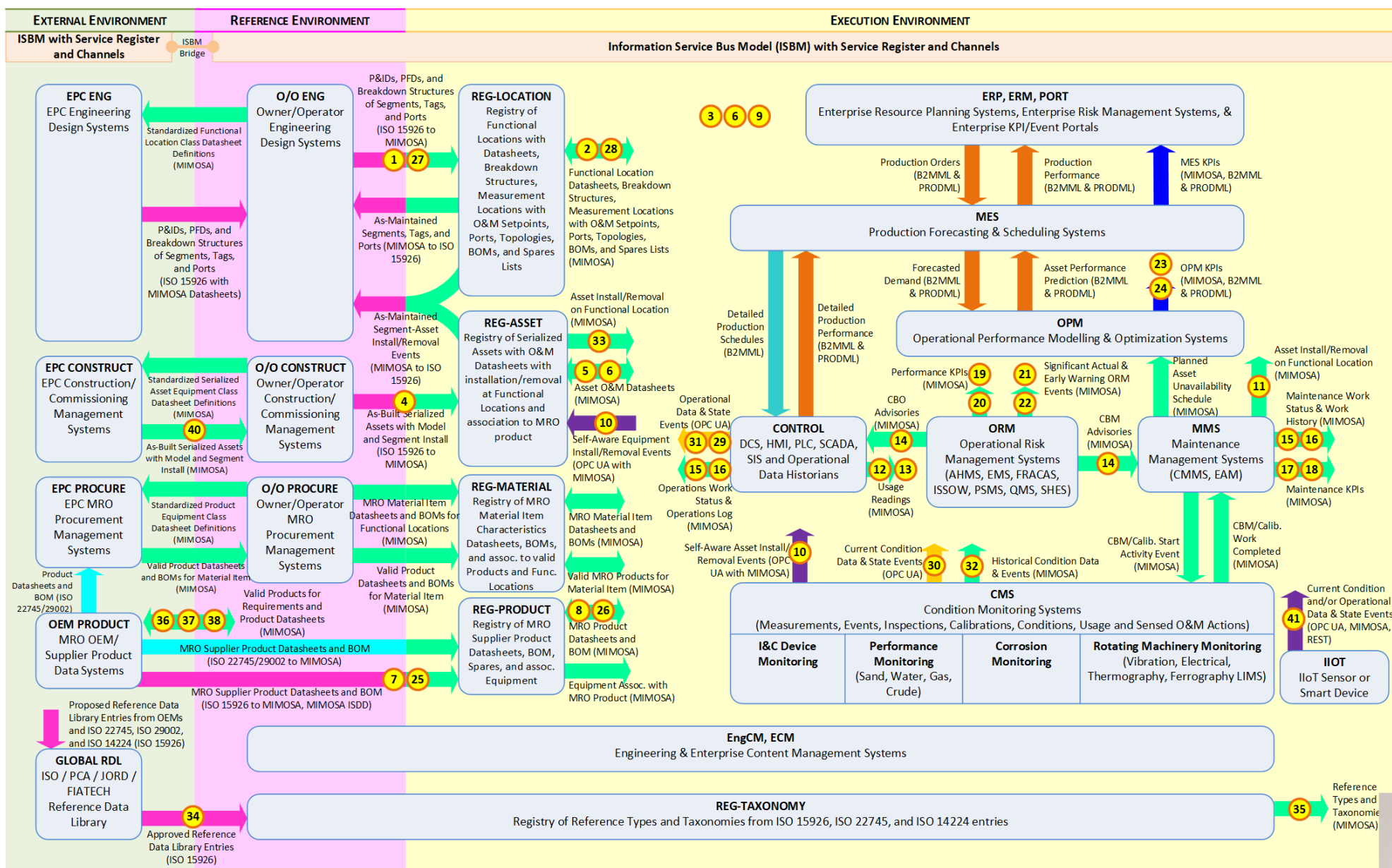
Ignition!
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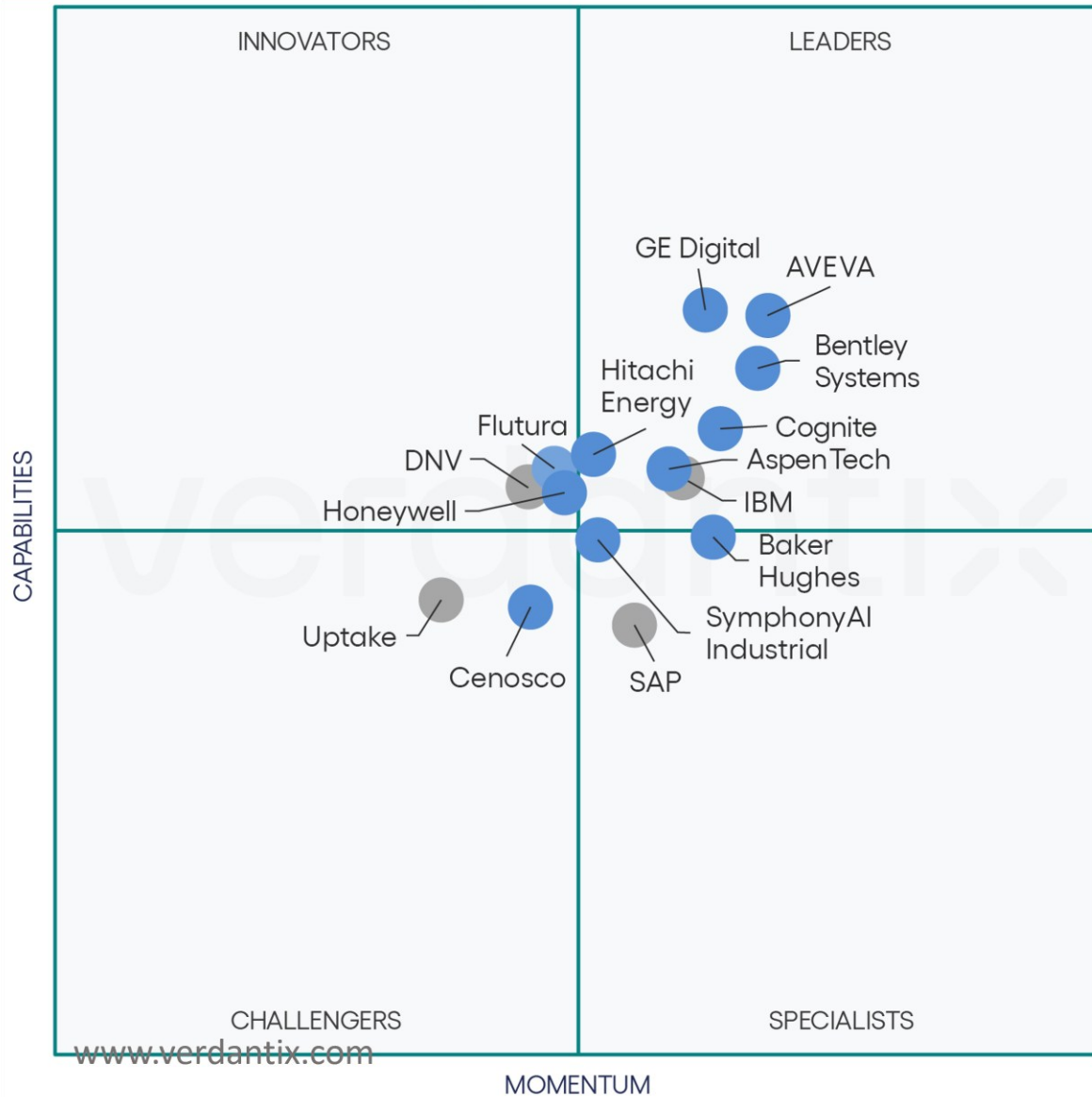
Connect, Design, Deploy
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Dr. Ali Tajalli



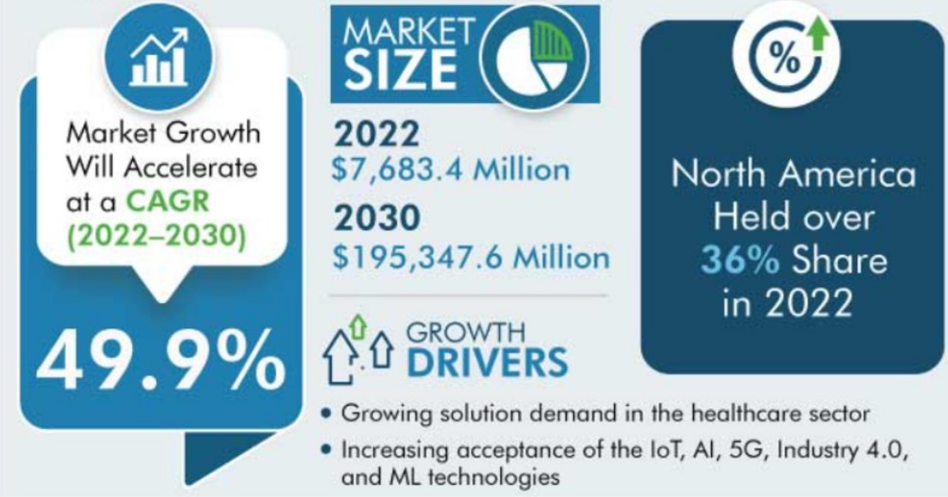
Solution



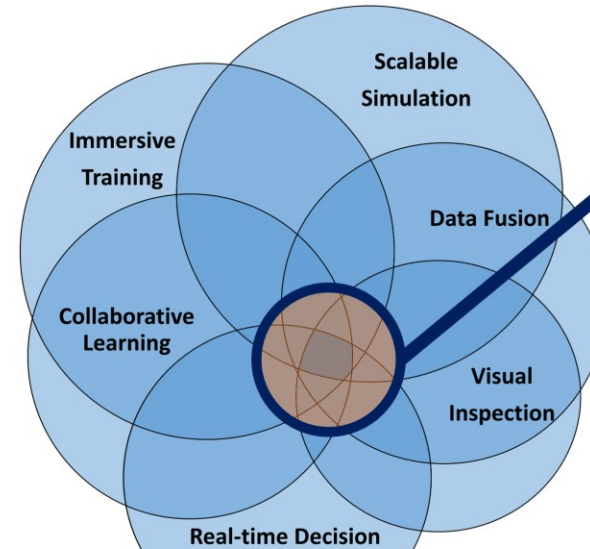
Market- Competitor



Digital Twin Market



www.psmarketresearch.com



Genius Twin platform niche market with comparison competitor analysis



Level 5 - Field Technician