







vInnovate Technologies

Proudly Presents

vEchoInsights

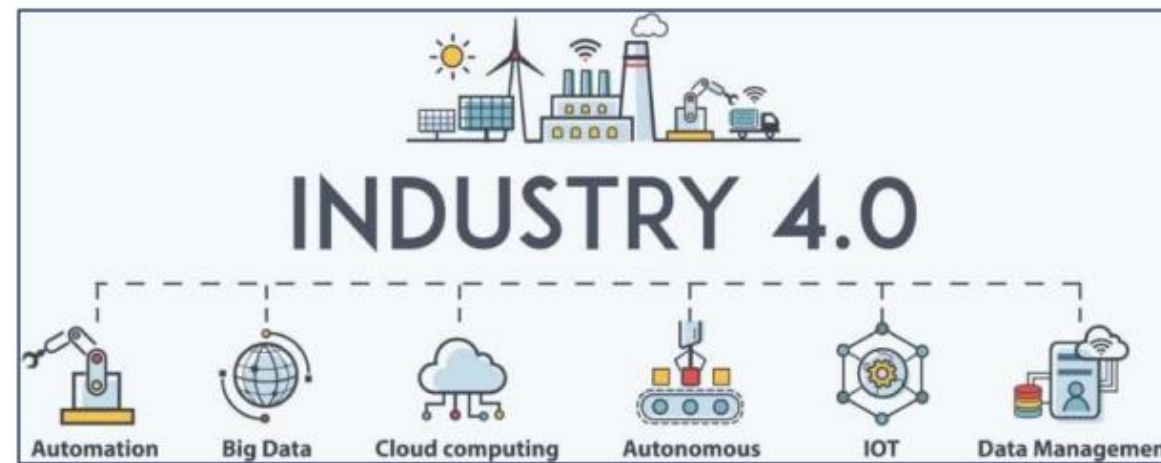
An IIoT-based Smart Platform which allows the development of monitoring systems in a variety of contexts where data can be retrieved from machines, flow-meters, stock systems, etc. It then performs calculations and displays data in real-time , which enables staff and management to monitor the efficiency of various processes and make adjustments to maximize their performance.

The Industrial Landscape is Changing Rapidly

END OF THE 18 TH CENTURY	START OF THE 20 TH CENTURY	START OF THE 1970S	PRESENT
			
INDUSTRY 1.0 Mechanization	INDUSTRY 2.0 Electrification	INDUSTRY 3.0 Automatization	INDUSTRY 4.0 Cyber-Physical Systems
Introduced mechanization of production by using water and steam to increase production capacity and productivity, versus manual craft work.	Introduced labor-based mass production (assembly lines) powered by electrical energy.	Introduced electronics and computers to replace manual work by stand-alone robotic systems.	The convergence of physical, digital, and virtual environments through Cyber-Physical Systems (CPS) and the Internet of Things (IoT).
1784 First mechanical loom	1870 First production line, Cincinnati slaughterhouses	1969 First programmable logic controller (PLC), Modicon 084	

Change and Progress is Inevitable, and its Pace is Increasing

We Are Already well into the Fourth 'Industrial Revolution'! Are You Ready?



How Does vEchoInsights Help Me?

vEchoInsights delivers technology to enable the digital transformation of the discrete, hybrid, and process industries by automating and digitizing their key “shop-floor processes for improved efficiency & productivity”.

Digital Transformation is playing an important role in helping organizations to stay ahead of their competition. For Manufacturing industries Smart Manufacturing, Connected Machines are some of the important focus areas under Industry 4.0 initiatives

But most companies find it challenging as the Machine manufacturing industry still lacks a connectivity standard accepted by all. vInnovate with its solution partners plays an important role in helping companies overcome this shop floor connectivity challenges and helps bring shop floor data to corporate boardrooms.



How Does vEchoInsights Help Me?

vEchoInsights(IOT) Manufacturing Dashboard

Machine	Plan	Production Actual	Downtime(min)	Production OEE(%)	MTD Production Actual	MTD Production OEE	A(%)	P(%)	Q(%)
Machine-01	250	200	18.23	20	340	350	43	46	35
Machine-02	250	200							

PRODUCTION REPORT

COMP NAME	M/C NAME	TOTAL OK QTY	TOTAL REJ QTY	OPERATOR NAME	DATE	PRINT DATE																	
0005	0005				05-01-2024	05-01-2024																	
TIME	PLAN	SCHEDULED	CUMM PLAN	ACTUAL PROD	CUMM ACTUAL	GAP	OK PARTS	TOTAL REJ	QTY	QDR	QAR	OTHER	AIR	AAR	AAR	OTHER	PDR	PDR	PDR	OTHER	DOWNTIME	RMS SPEC	REMARK
09:45-10:00	75	75	80	10	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00-10:15	75	75	85	15	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15-10:30	75	75	90	20	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30-10:45	75	75	95	25	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45-11:00	75	75	100	30	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00-11:15	75	75	105	35	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15-11:30	75	75	110	40	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30-11:45	75	75	115	45	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45-12:00	75	75	120	50	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL				OEE	A	P	Q	ACTUAL	TARGET														OWN TIME

Daily OOE Dashboard (2022-02-21 10:20:00)

Metric	Value
Throughput	10 / 5 Minutes
OEE	79%
Capacity Utilization	66%
First Pass Yield	85%
Scrap Rate	9%

Shopfloor Monitoring

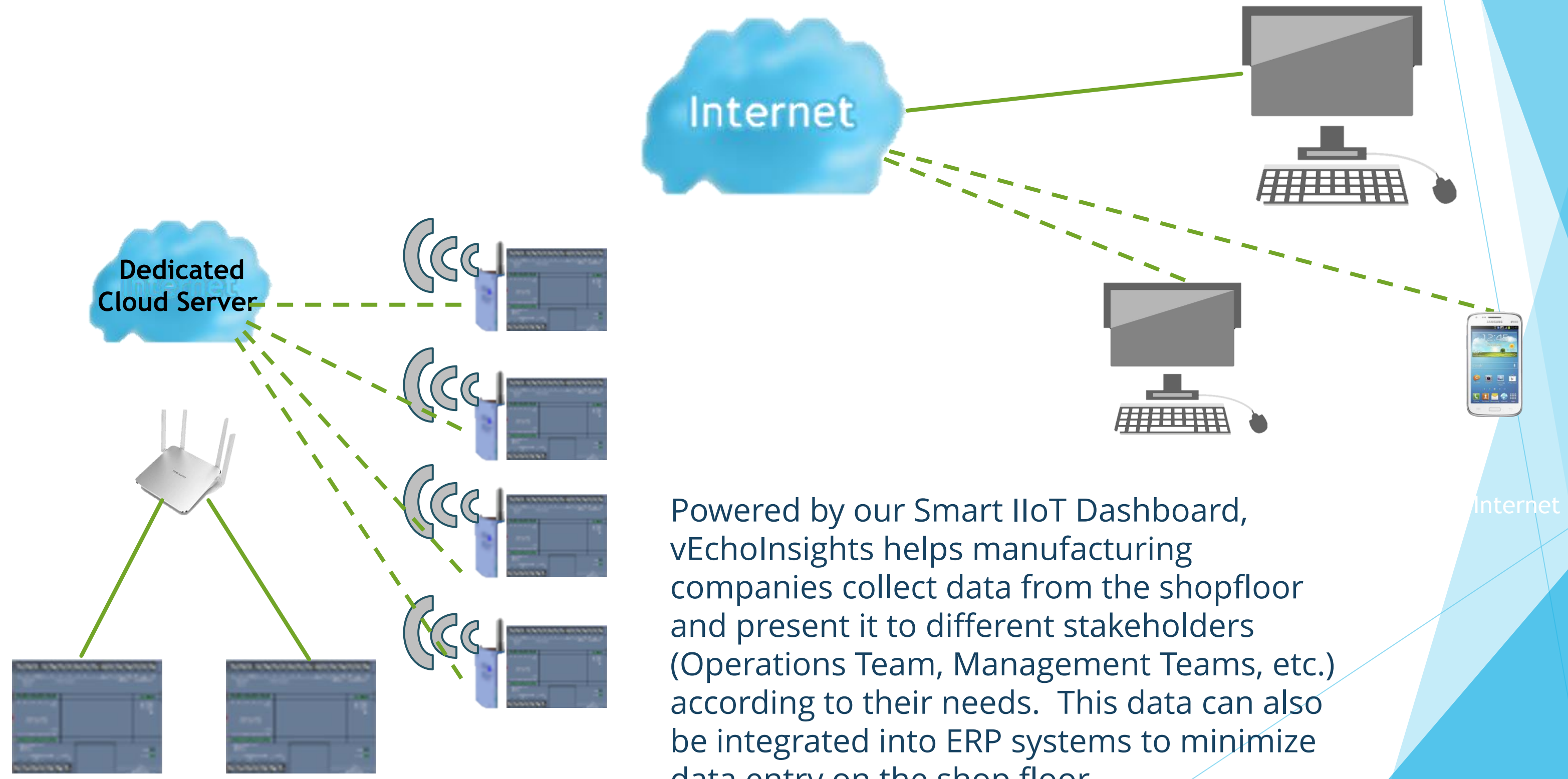
Meter	Value
Meter-01	37%
Meter-02	47%

Machine Status Summary

Machine	Status	Throughput	OEE	Capacity Utilization	First Pass Yield	Scrap Rate
Machine A	Running	10 / 5 Minutes	86%	67%	89%	6%
Machine C	Running	15 / 5 Minutes	83%	73%	86%	9%
Machine D	Not Running	7 / 5 Minutes	67%	59%	73%	10%

vEchoInsights delivers technology to enable the digital transformation of the discrete, hybrid, and process industries by automating and digitizing their key “shop-floor” processes for improved efficiency & productivity”.

Use Case - Manufacturing

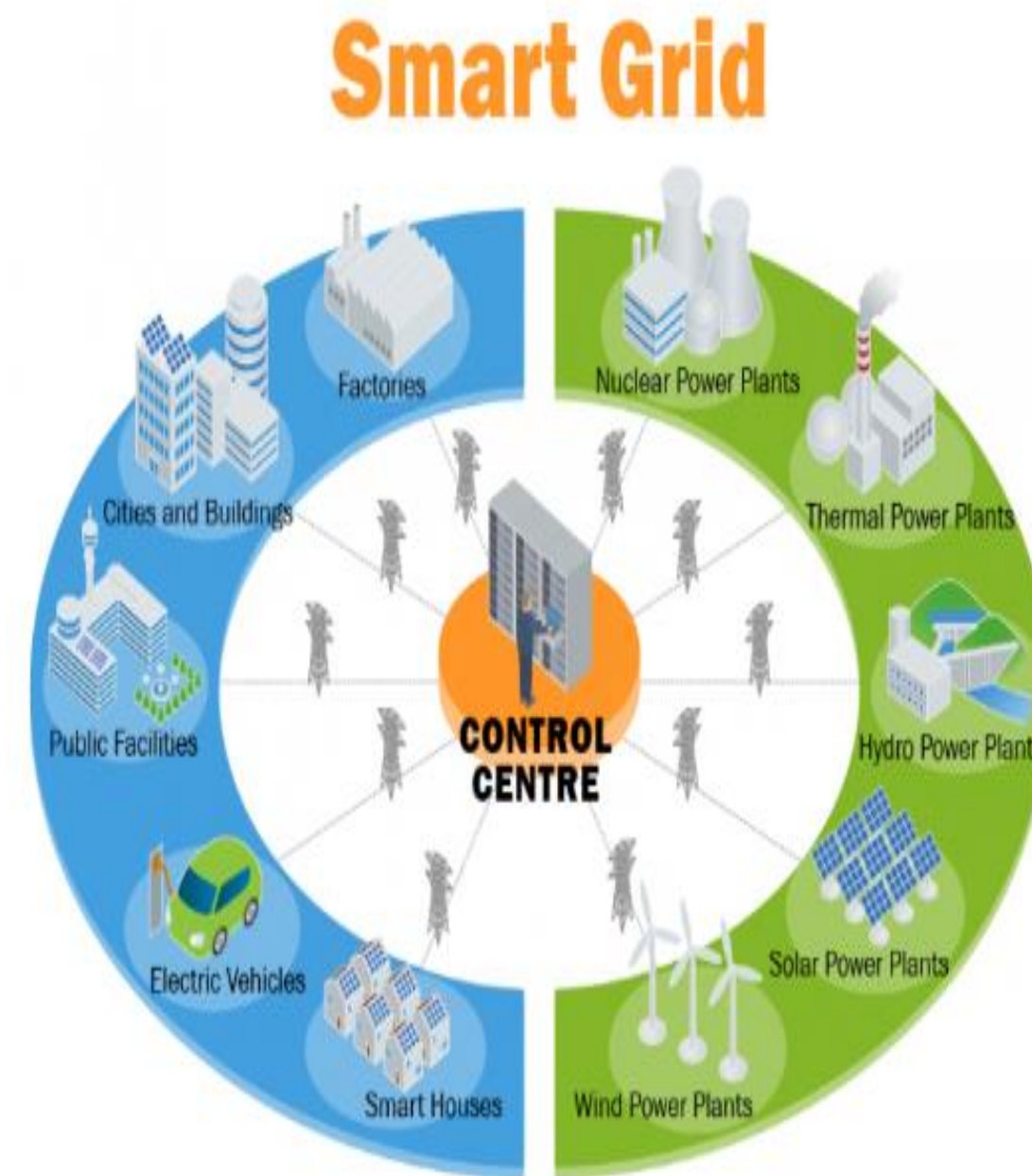


Powered by our Smart IIoT Dashboard, vEchoInsights helps manufacturing companies collect data from the shopfloor and present it to different stakeholders (Operations Team, Management Teams, etc.) according to their needs. This data can also be integrated into ERP systems to minimize data entry on the shop floor.

Use Case – Power & Utilities Management

Monitoring energy generation facilities can help optimize production, increasing revenue, reducing costs and minimizing the risk of service disruption. Sensors can monitor power distribution, such as utility poles, to detect damage and identify the need for preventative maintenance via the vEchoInsights Smart Dashboard.

Connected domestic meters enable utilities to automatically collect customer usage data for billing purposes, and activate and deactivate services. Connected meters also can serve as sensors, detecting power outages, water leaks, equipment failures and other problems which will be reflected in real-time on their vEchoInsights Smart Dashboard. More recently, several energy companies are increasingly leveraging IIoT solutions to analyze data from wind turbines, optimize turbine performance, minimise maintenance costs and increase energy output. In summary, vEchoInsights enables the Energy and Utilities sector to optimize energy production, distribution and consumption, by monitoring and reporting on parameters including; Temperature, Gas, Electricity, Water, Pressure, etc.



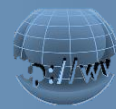


vInnovate Technologies

To find out more ...



contact@vinnovatetechnologies.com



<https://www.vinnovatetechnologies.com/>

