



# BROCHURE

DAIRY PLANT MONITORING SOLUTION

### **OUR HISTORY**

We are a business and application consulting firm that enables enterprises to improve their performance through various data-driven solutions. With the advent of Industry 4.0 and Triniti's strong intent to help the customer integrate business data and operations data, we have ventured into value-adding Industrial Internet of Things (IIoT) solutions. Right from identifying the proper hardware to acquiring the operational data, data communication, data insights, analytics, and integration with the business systems, we provide end-to-end solutions and services.

We strongly believe in delivering value through IT-OT integration, and with our proven track record in the business data space, IT-OT integration can help quickly realize the importance of Industry 4.0 solutions to its customers.

## **DAIRY PLANT MONITORING SOLUTION**

Smart IoT-powered monitoring in the perishable goods industry creates a transformational opportunity driven by advanced analytics and data-driven practices. These solutions, such as centralized plant level monitoring, Critical Control Point (CCP) monitoring and equipment utilization monitoring, strengthen the operational aspects of the industry and improves decision-making. It thus enhances the overall plant productivity and enhances brand value. Below are the features and value proposition of Triniti's Dairy Plant Monitoring Solution –



# DAIRY PLANT MONITORING SOLUTION

#### **BENEFITS**

# VALUE PROPOSITION



Configurable online dashboards for entire plant processing chambers & silos (e.g., CCP parameters, door events, levels, etc.)



Energy utilization monitoring



Scalable solution for geographically distributed plants



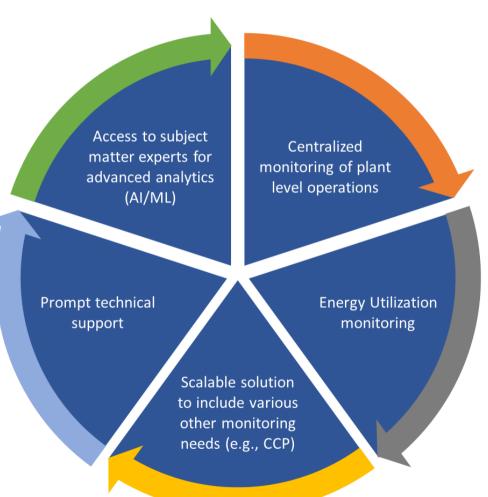
Configurable alerts, smart alerts management and audit logs



User & role management for additional security



Custom analytics

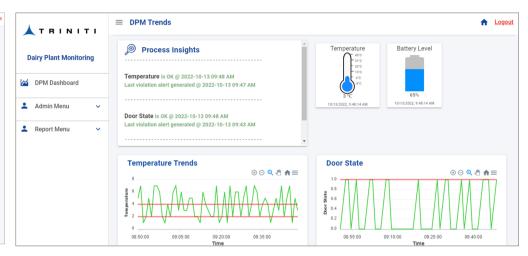




# DAIRY PLANT MONITORING SOLUTION

#### **DASHBOARD SNAPSHOTS**

TRINITI	DPM Dashboard									
	CHAMBER									
Dairy Plant Monitoring	Packing Chiller-1	RMRD Chiller	Milk Pasturiser -1 Holding	Curd Pasturiser Holding	Incubation Room-1					
DPM Dashboard	Temp ··· 7	Temp 4	Temp ··· 2	Temp 6	Temp					
	Door OPEN	Door CLOSED	Door CLOSED	Door CLOSED	Door CLOSED					
Admin Menu 🗸	9 Nov 2022 11:30-47	9 Nov 2022 11:30:47	9 Nov 2022 11:29:47	9 Nov 2022 11:29-89	9 Nov 2022 11:01:17					
Report Menu 🖌	Gurd Pouch PHE	Milk Packing Cold Room-1	Ge Starilizer-1	Starilizer-2	Butter Cold Room-1					
	Temp	Temp	Temp	Temp	Temp					
	Dear CLOSED	Door CLOSED	Door CLOSED	Door CLOSED	Door CLOSED					
	9 Nev 2022 11-31-17	9 Nev 2022 11:01:19	9 Nev 2022 11:31:21	9 Nev 2022 11:01:21	9 Nev 2022 11-31-22					
	Butter Container	í		-						
	Temp									
	Door CLOSED									
	Door CLOSED 9 Nov-2022 11:01:22									
			SILOS							
		Silos-1	SILOS							
	+Ne-302113122	Silos-1 Tenp - 2	SILOS							
	Here all that a	-	811.05							
	4%-382119/28 Silos-2 Temp- 7	Temp 2	silos							



The DPM dashboard provides an integrated view of all chambers & silos. It displays details about the critical events/ parameters like door open/ close, container level, temperature etc.

DPM trends provide a detailed view of selected chambers/ silos and critical parameters that are monitored. It also provides historical trends for the duration selected

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▲ Logout		≡ User Au	dit Report				ft Lo
		Home / Re	eport Menu / User Audit Report				
tions		10/8/202	22, 9:53:45 AM> 10/13/2022,	9:53:45 AM			
)							-
,		Search	Q				
9		User	Login Time	Login Unix Time	Logout Time	Logout Unix Time	Session Time (Seconds)
,		dpm_admin	Tue, 11 Oct 2022 18:06:33 GMT	1665491793	Tue, 11 Oct 2022 18:07:46 GMT	1665491866	73
,		dpm_admin	Tue, 11 Oct 2022 18:08:54 GMT	1665491934	Tue, 11 Oct 2022 18:09:06 GMT	1665491946	12
,		dpm_admin	Tue, 11 Oct 2022 18:09:53 GMT	1665491993	Tue, 11 Oct 2022 18:34:16 GMT	1665493456	1463
		dpm_admin	Tue, 11 Oct 2022 18:34:30 GMT	1665493470	Tue, 11 Oct 2022 18:38:06 GMT	1665493686	216
		dpm_admin	Tue, 11 Oct 2022 18:38:21 GMT	1665493701	Tue, 11 Oct 2022 22:04:24 GMT	1665506064	12363
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User Audit report provides detailed log of user login

≡ Configuration For Alerts / Notifications	÷

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Machine	Operational Parameter	Low Alert	High Alert	Low Caution	High Caution	eMail Details	Phone Number	Status	Send SMS	Send Email	Actions	
Incubation Room-1	Temp	36	44			gmiiothelpdesk@triniti.com					0	
Curd Pouch PHE	Temp	39	45			gmiiothelpdesk@triniti.com					0	
Curd Pasturiser Holding	Temp	82	95			gmiiothelpdesk@triniti.com		-		-	0	
Milk Pasturiser -1 Holding	Temp	72	85			gmiiothelpdesk@triniti.com		-		-	0	
Milk Packing Cold Room-1	Temp	1	4			gmiiothelpdesk@triniti.com		-		-	0	
RMRD Chiller	Door		1			gmiiothelpdesk@triniti.com		-		-	0	
RMRD Chiller	Temp	2	4			gmiiothelpdesk@triniti.com		-		-	0	
Packing Chiller-1	Temp	2	5			gmiiothelpdesk@triniti.com		-		-	0	
Starilizer-1	Temp	108	132			gmiiothelpdesk@triniti.com		-		-	0	

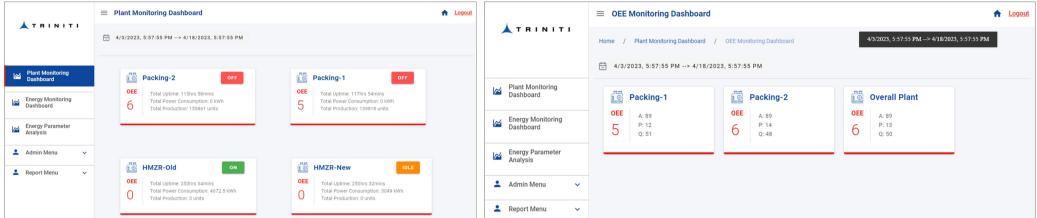
Configuration for alerts/ notifications page is used for thresholds setup, notifications management for each critical parameter

#### Get in touch today for a free consultation



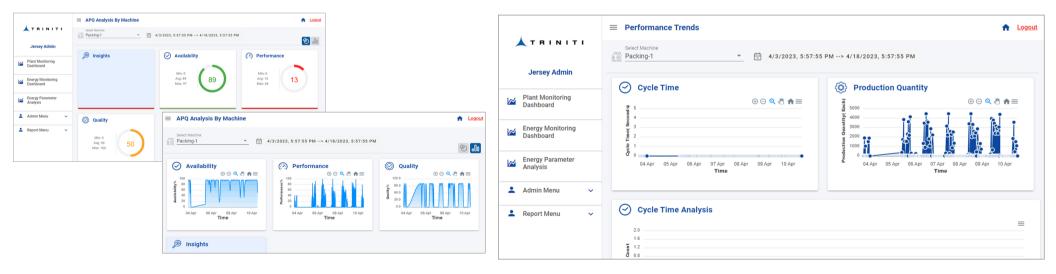
# DAIRY PLANT MONITORING SOLUTION

## **DASHBOARD SNAPSHOTS**



The plant monitoring dashboard provides a consolidated view of all machines at the plant level. It also provides insights into the overall OEE, total power consumption, uptime, current machine state etc.

OEE monitoring dashboard provides detailed view of Overall OEE, Availability, Performance and Quality of machines and also about the plant



APQ analysis by machine provides details about the calculated Availability, Performance & Quality of machines, generated for OEE for a given period of time The performance trends page displays trends pertaining to total production quantity and cycle time for each equipment, for a selected duration. It will help engineers analyze the machine behavior based on historical trends