



DYNA4CAST TECHNOLOGIES

PRIVATE LIMITED

CONNECT,
COMMUNICATE,
CALIBRATE,
CORRELATE.



ENABLING INDUSTRY 4.0

JOURNEY TOWARDS
A BETTER WORLD THROUGH
TECHNOLOGICAL SINGULARITY

MISSION

In our journey, we offer fireman's lift to our customers by fetching, storing, analyzing and acting upon their real-time data to create a business environment where employees enjoy a stress-free and joyful work environment where clients are highly satisfied through quality and on-time delivery and shareholders get a one-way ticket for profitability.

WHAT WE DO

IIoT & AIoT For Foundry Industry

Integration of Furnace, Casting unit to monitor productivity, Spectro integration for quality control field level weighing machine to track consumption of raw materials. Other consumable accountability & tracking, ERP Integration, Production Breakdown Alert, Andon monitoring.

IIoT For Shop Floor

Integration of Machines like CNC, VMC, HMC, SPM & fabrication machine to monitor the real time OEE, Target, Downtime, Maintenance, Andon Board Monitoring, ERP Integration.

IIoT For Process Industry & Power Plants

Integration of field level sensors (Cyber Physical System) like Vibration, Pressure, Wireless Temperature, Crack detection using pzt sensor, Oil & Gas level monitoring, Wireless data transfer, ERP Integration and data analytics.



***WE CREATE TECHNOLOGY
TO HELP THE WORLD PREPARE
FOR THE FUTURE***

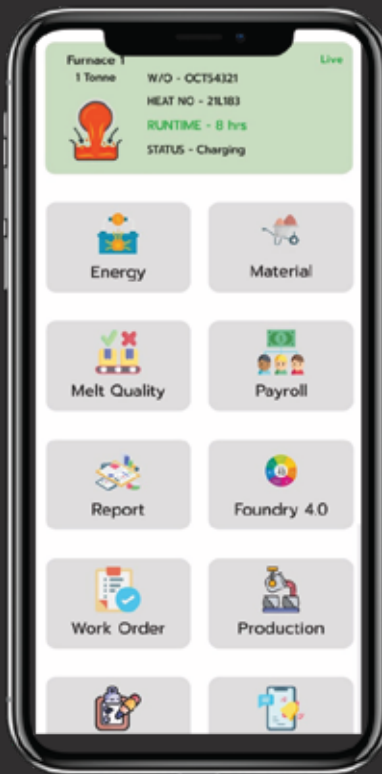


DYNA FOUNDRY MANAGEMENT DFM 4.0



- Real-time temperature monitoring.
- Raw material tracking with respect to heat.
- Spectro digital twin Integration to provide calculated addition material.
- Bon Moulding machine real time count from the field.
- Instant production planning.
- Integration with ERP for data mapping.
- Real time report & dashboard.

DYNA FOUNDRY MANAGEMENT APP SCREENS

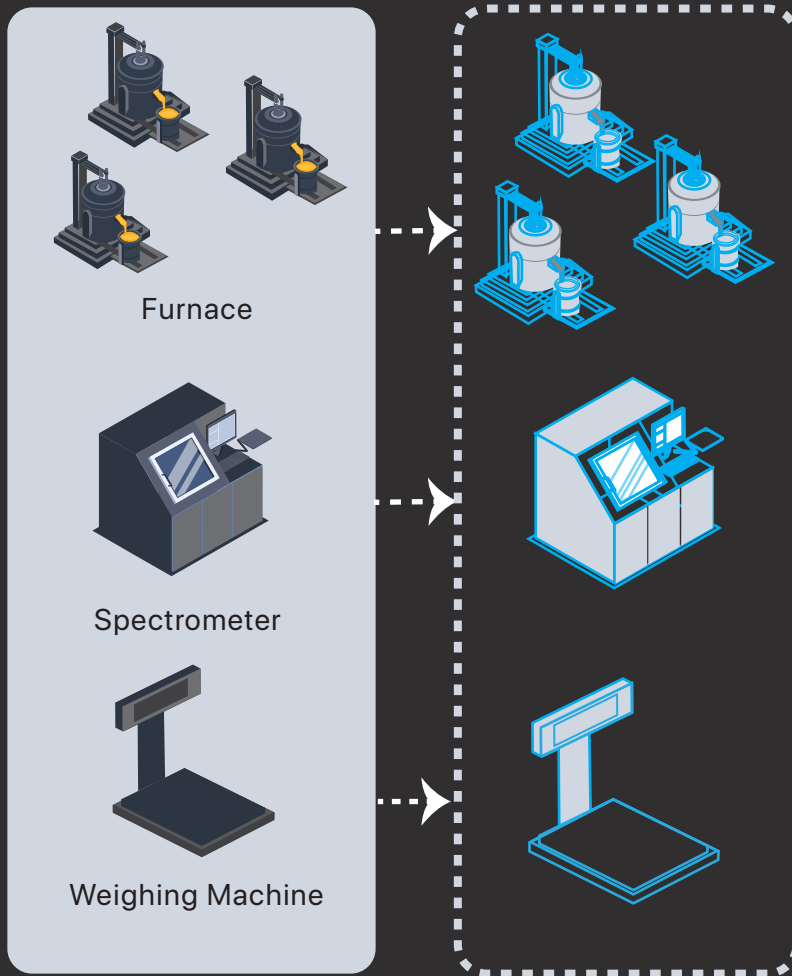


CBM 4.0



- Predictive maintenance algorithm with machine learning to monitor the real condition of equipments and machines.
- Vibration temperature, energy, load, noise, and strain parameters from different equipments like motors, sand plant, compressor, cooling tower, furnace, chiller and more.
- Real time alerts and notification to maintenance team.
- Report and Dashboard for track records.

DIGITAL TWIN

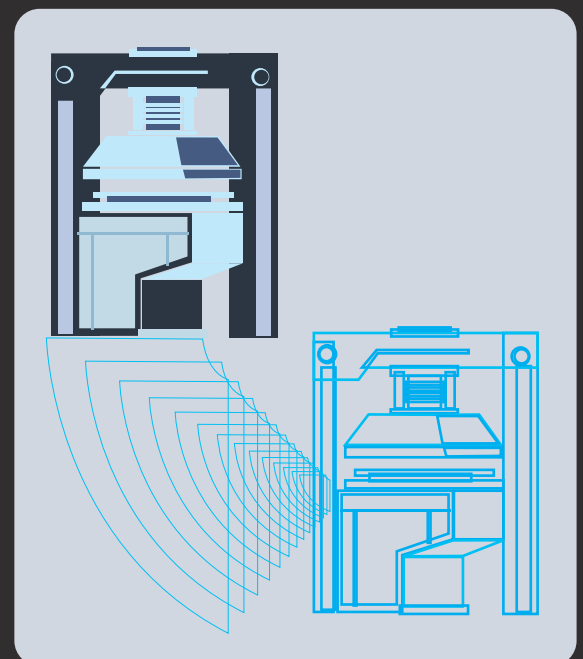


Process Twin

- Process Digital Twin for Foundry Melting Point
- Simulate the real-time scenario based on the core quality analysis from spectro.
- Provide various input conditions and processing limitations to account for machine learning.
- Acts as an assist system for production supervisors to react to an individual's heat cycle.
- It Analyze real time raw material input, furnace heat cycle, an spectro quality into account.

Product Twin

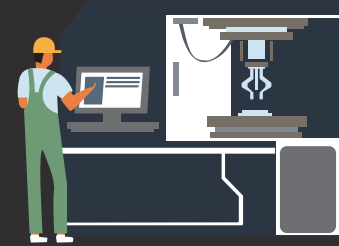
- Digitalize the hydraulic press working conditions and create the twin model with machine spec and limitations.
- Tracking and examining the entire asset by implementing CBM with various sensors and bringing a real-time production cycle
- By providing various inputs, pre-simulated system conditions can be established before going into real time production.



CNC MACHINES



CNC



CNC



VMC



VMC



CNC ROUTER

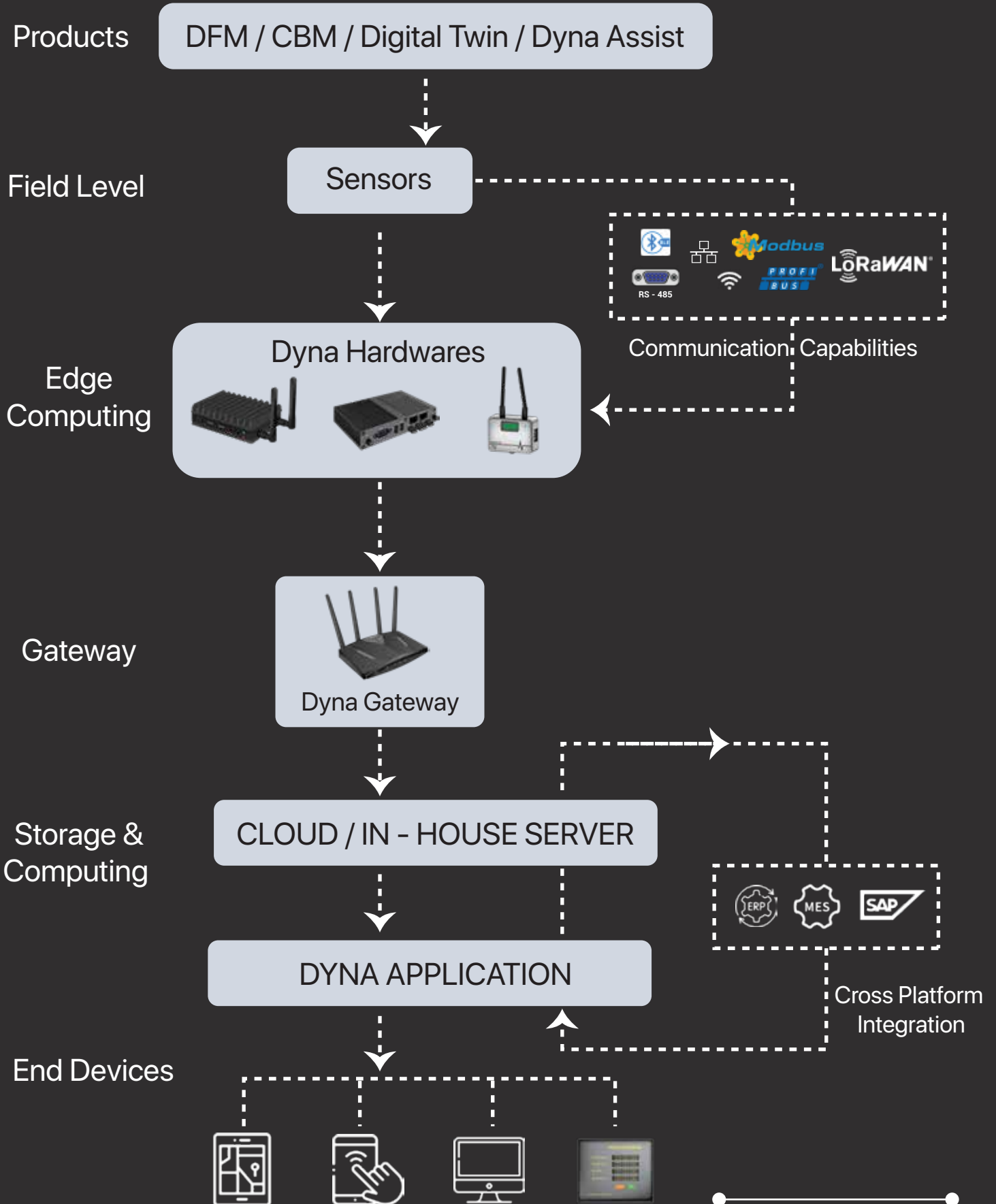


CNC ROUTER

Breakdown Prediction of machines and equipment,

- Tool life and wear prediction.
- Monitoring & auto alerts on Coolant levels.
- Production and employee performance tracking.
- Real-time shopfloor monitoring.
- Performance calculation of OEE.

DYNA ARCHITECTURE



D4C GALLERY

Seminar @ IIF

Implementation of smart foundry 4.0 to bring an increase in productivity, energy efficiency, and real-time monitoring, presented by our founder and directors organized by the Institute of Indian foundrymen at IIF office, Coimbatore.



Expo 2023

We were possessed at the event of the Foundry Expo organized by the Regional Conclave on Accelerating Energy Efficiency in the Foundry Sector. We had a chance to implement our motive for IoT solutions in Coimbatore.

Seminar @ PSG

Discover the cutting-edge of technology. Embrace AI, blockchain, quantum computing, and more. Stay ahead of the curve and unlock a world of possibilities.

#TechTrends #Innovation #seminar #students #psg #diploma

2023 Goals



OUR EXECUTIVE TEAM



PRANESH MURUGANANDHAM

DIRECTOR & CEO

MASTERS IN INNOVATION MANAGEMENT, GERMANY
EXPERTISE AREA: BUSINESS MODEL,
CROSS COUNTRY STRATEGY,
TECHNOLOGICAL MANAGEMENT,
IIoT APPLICATION.



**PUVIYARASAN
MADURAIPANDIYAN**

DIRECTOR & CTO

MASTERS IN MECHATRONICS & CONTROL SYSTEM,
CORPORATE LAW, GERMANY
EXPERTISE AREA: CYBER PHYSICAL SYSTEMS,
ADVANCE CONTROL SYSTEMS,
IIoT ARCHITECTURE.



MANI SHASTHA SELVARAJ

DIRECTOR, CMO & CBDO

MASTERS IN BUSINESS ADMINISTRATION, INDIA
EXPERTISE AREA: PRODUCTION METHODOLOGY,
CASTING, NEW PRODUCT DEVELOPMENT &
TECHNICAL MARKETING, LEGAL ADMINISTRATION



HARIHARAN GUNASEKAR

DIRECTOR & COO

MASTERS IN SPACE ENGINEERING, GERMANY
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SATELLITE BUILDING,
ADVANCE HARDWARE ARCHITECTURE BUILDING,
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**NAVEEN BABU
KARUPPANNASWAMY**

STRATEGIC ADVISOR

MASTERS IN INDUSTRIAL ENGINEERING, USA
EXPERTISE AREA: AUTOMATION & CONTROL,
MANUFACTURING TECHNOLOGY,
FOUNDRY TECH, STRATEGIC DEVELOPMENT



AMRISH KULASEKARAN

TECHNICAL LEAD

MASTERS IN FUTURE NETWORKED SYSTEMS,
IRELAND
EXPERTISE AREA: FULL STACK, DEVOPS BUILDING,
SOFTWARE ARCHITECTURE, AI & DATA ANALYTICS

DYNA INTEGRATION



CONTROL SYSTEM INTEGRATION



OUR RESPECTED CLIENTS



OUR RESPECTED TESTIMONAL

Mr. Ram Prasanth

PRODUCTION MANAGER, TECHNIX AUTOMATION [NIRMAL PUMPS PVT.LTD]

" We are using Dynatral Solution for almost a year to monitor the CNC Machine, So far it has been an effective assist system for the production supervisor even in his absence to track the productivity, reason and other factors. More than that, through analysis the solution helps to find the right person for the job, which helps to increase the productivity "

Mr. Srinivasan

ASSISTANT GENERAL MANAGER, SAKTHI AUTO COMPONENTS LIMITED

" Dyna4cast helps us to make keep our customer promise in terms of Quality Assurance. It brings more value to our inhouse operation. Also, the team Dynatral is available and support the cause in level of urgency "

Mr. Naveen Babu

MANAGING DIRECTOR, BARANI HYDRAULICS PVT.LTD

" Considering Dyna4cast Solution is one of our strategic moves to adopt the next industrial wave, It tends to analyse the variation in KPI'S. Apart from that, the live monitoring helps to bring the continuous improvement on the work force "



DYNA4CAST TECHNOLOGIES

PRIVATE LIMITED



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