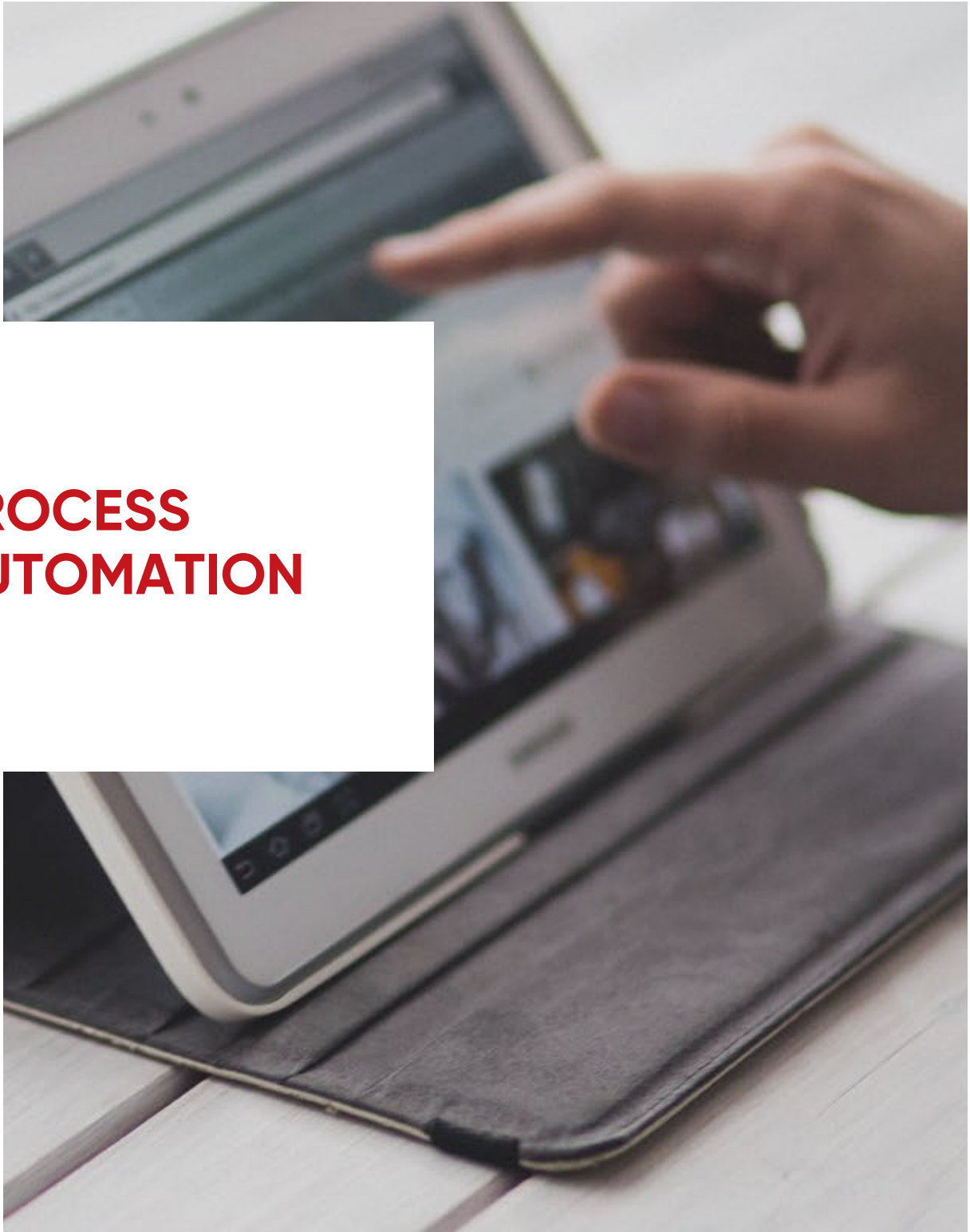


# PROCESS AUTOMATION



## BUSINESS TRENDS

As control systems become more complex, systems that support Reliability, Maintainability & Availability (RMA) will be in demand. Allied to this is the requirement for suitably designed Man-Machine Interfaces (MMI) to enable efficient & reliable information transfer & facilitate systems management.

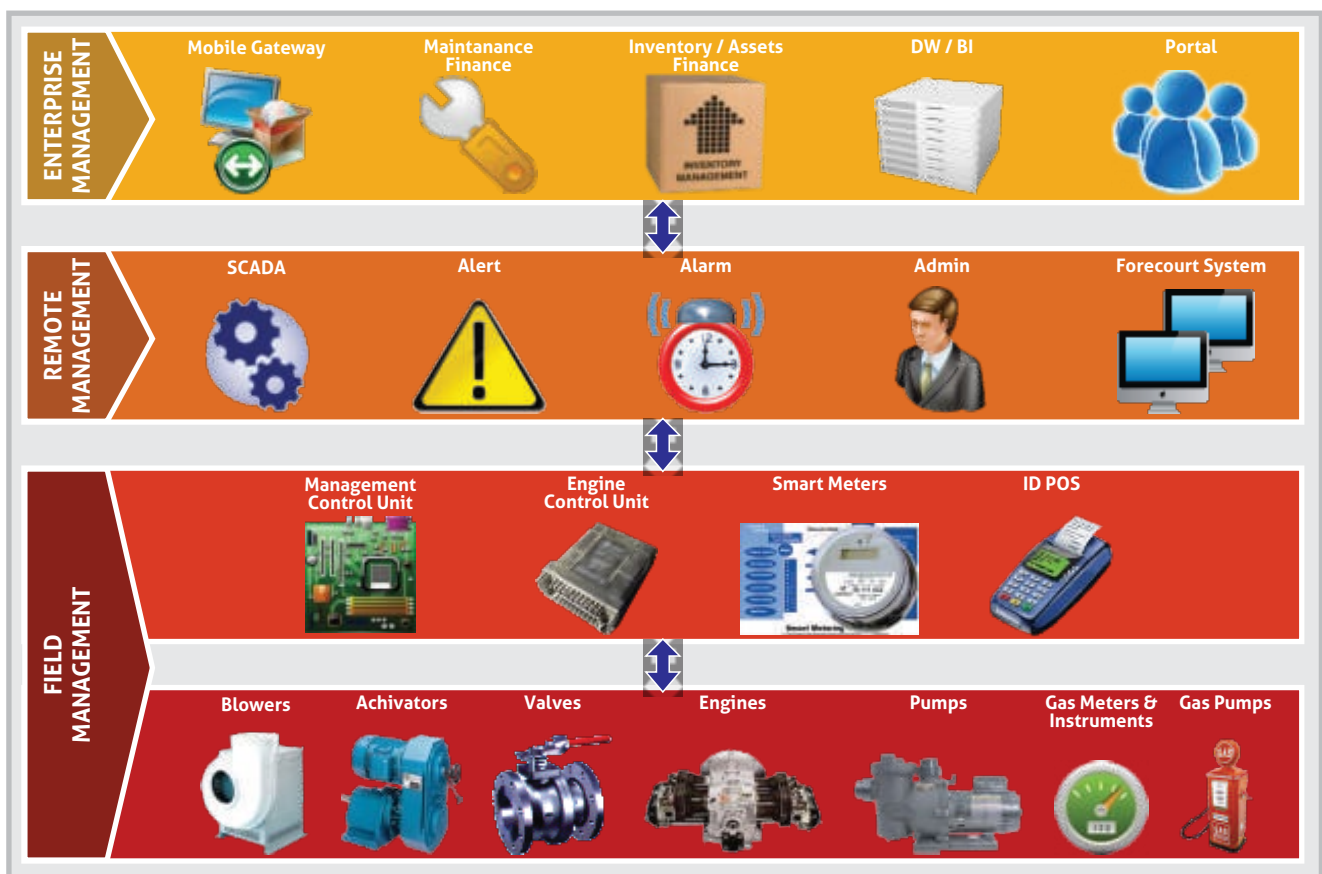
The process industries have an enormous base of unsophisticated or primitive control schemes. There is a potential for upgrading the hardware as well as bring in new advanced control systems like adaptive controllers, non linear systems / numerical methods, process modeling & simulation etc.

Information is the key in the new management of systems & processes. Techniques that will translate raw data into useful information using BI tools, improved measurement methods including inferential estimation, multi-variable non-linear predictive control & formal techniques like predictive analytics are the new directions for process industry.

## DATAMATICS' NEXT-GENERATION SOLUTION

- A fault tolerant auto recovery common architecture that supports RMA
- A domain specific software architecture that has web based intuitive MMI to configure parameters under control, allow interoperability & open access through exposed interfaces or web services
- Alert & alarm management systems
- Leveraging communication technology for better connectivity & control of field systems including data telemetry systems

## DATAMATICS' MOBILE WIRELESS SOLUTIONS OVERVIEW



## DATAMATICS' OFFERINGS

|                             |                                                                                                                                                                                                |                                                                                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Consulting Solutions</b> | <ul style="list-style-type: none"><li>▪ Bid management</li></ul>                                                                                                                               | <ul style="list-style-type: none"><li>▪ Core R&amp;D &amp; new product development</li></ul>                                                                   |
| <b>Next-Gen Solutions</b>   | <ul style="list-style-type: none"><li>▪ Re-engineering &amp; platform modernization</li><li>▪ Support &amp; maintenance of legacy systems</li><li>▪ Systems / Enterprise Integration</li></ul> | <ul style="list-style-type: none"><li>▪ Code field device engineering</li><li>▪ Data Telemetry &amp; communication protocol stacks</li></ul>                   |
| <b>Technology Solutions</b> | <ul style="list-style-type: none"><li>▪ Controllers &amp; control systems</li><li>▪ Alarm / Alert management</li><li>▪ SCADA</li></ul>                                                         | <ul style="list-style-type: none"><li>▪ Smart Metering solution</li><li>▪ Emission control systems</li><li>▪ Safety &amp; Emergency Shutdown Systems</li></ul> |

## DATAMATICS ADVANTAGE

|                                                                                                                                                                                                                           |                                                                                                                                                                          |                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PROVEN TRACK RECORD</b> <ul style="list-style-type: none"><li>- Decades of experience in the area of Process Automation</li><li>- Pool of experienced &amp; skilled staff in the new generation technologies</li></ul> | <b>TECHNOLOGY LEADERSHIP</b> <ul style="list-style-type: none"><li>- Many first to our credit</li><li>- Innovative mind set</li><li>- Expertise in Open Source</li></ul> | <b>FLEXIBLE ENGAGEMENT MODEL</b> <ul style="list-style-type: none"><li>- Open to partnership mode - full ownership</li><li>- Offering a choice of flexible &amp; transparent engagement models tailored to meet client needs</li></ul> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SUCCESS STORY

The client is a leader in the field of Onboard Diagnostics (OBD) & Emission Measurement Equipments in Europe & Asia. The organization required porting of existing handheld OBD Equipment from Nucleus OS to Linux, QT based Open platform - keeping the existing functionality, improved MMI & interfaces unchanged along with minimal modifications to the source code base. The major challenges with the process were hardware-software integration, performance tuning, interoperability, non standard implementation of standards & limited resource constraint device with advanced features.

Datamatics carried out the migration of the old OBD source code from Nucleus OS platform to Linux, QT platform in three phases. In phase-I, all the infrastructure related OS dependent functionalities were ported to Linux. In the second phase drivers & applications dependent modules were ported to Linux QT with the improved MMI. In the third phase advanced features were introduced.

The client benefitted through the advanced diagnostics system with sophisticated H/W & S/W interfaces & capabilities. There was high reliability & easy maintainability, which reduced TCO. The client also received better user experience through intuitive MMI which was also interoperable with other systems along with enterprise connectivity for analytics.

## ASSOCIATED SERVICES

|                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>▪ Application development &amp; maintenance services</li><li>▪ Managed application services</li><li>▪ Application integration services</li><li>▪ Open source based solutions &amp; services</li><li>▪ Independent verification &amp; validation services</li></ul> | <ul style="list-style-type: none"><li>▪ SEO Content Services</li><li>▪ Online Platforms - WCM &amp; ecommerce platforms</li><li>▪ Content transformation &amp; conversion solutions</li><li>▪ Workflow solutions</li><li>▪ DAM / DRM solutions</li></ul> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# KEY AWARDS & RECOGNITIONS

## 2019



2019 IBM Asia Pacific  
Excellence Award for Top  
Transformation Business  
Partner



Rail Analysis India Awards  
2019 for Automated Fare  
Collection technology



CIO Choice 2019  
Recognition for Robotic  
Process Automation

## 2018



Best Cognitive Technology  
Provider by Computer  
Society of India



7<sup>th</sup> Global Economic  
Summit 2018 – Services  
Category



NASSCOM Analytics  
Challenge 2018 – Fraud  
Detection Solution

## ABOUT DATAMATICS

Datamatics is a technology company that builds intelligent solutions for data-driven enterprises to improve their productivity and customer experience.

The company portfolio spans across Information Technology Services, Business Process Management, Engineering Services and Big Data & Analytics, which are powered by Artificial Intelligence.

Datamatics also has established products in Robotics

Process Automation, Advanced Analytics, Business Intelligence and Automated Fare Collection. Datamatics services over 450 clients across diverse verticals including Banking & Financial Services, Insurance, Manufacturing, Transport, Travel & Hospitality, Media & Publishing, Retail, and e-Commerce. Headquartered in Mumbai, the company has strong presence in the USA, Australia, Asia, Europe, and the Middle East with global employee strength of 10,000+.

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