

PROCESS OPTIMISATION AND ANALYTICS

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- 1) Our Digital Vision
- 2) Our needs
 - I. Get From Data to Actions
 - II. Insights
 - III. Cloud Based Storage
- 3) Actions required
 - I. Preventing Problems
 - II. Reduce Time to Solve Problems

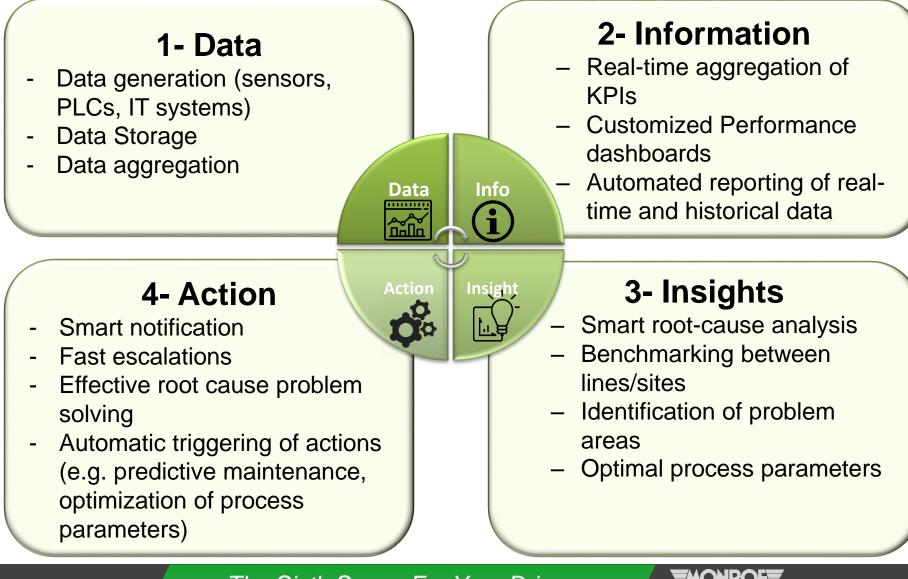
The Sixth Sense For Your Drive



1) OUR DIGITAL VISION



Intelligent Suspension



The Sixth Sense For Your Drive



forgotten

- Large amount of data available
- Different types of data
- Data is stored locally
- Some data is lost

- Only part of the data is monitored
- The information is visible
- Information is
 - stored locally
- Difficulty to get from data available to actions

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2) OUR NEEDS

INSIGHTS

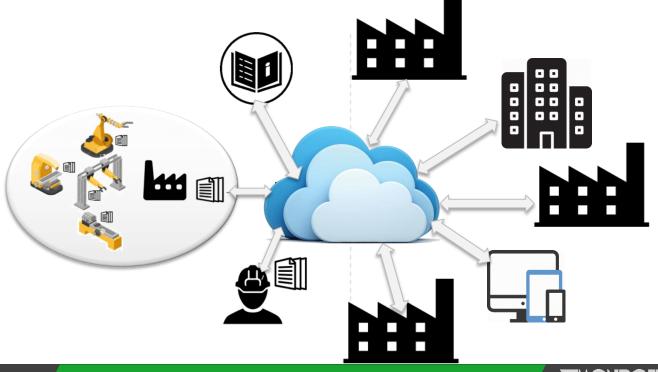


Intelligent Suspension

Smart root-cause analysis			
	 Identify and define problem Gather info 	 Identify solutions 	 Observe effects
Benchmarking between lines/sites			
	 Comparing performance 	 Comparing process lines/ sites Find best 	✓ Find reasons why
Identification of problem areas			
	ResearchReasons	CausesLocation	
Optimal process parameters			
	Analyze historical and current data Understand machine	relationships	Obtain best results
	The Sixth Sens	se For Your Drive	THONROET



- Gather data
- Make data available (analytics, traceability...) and understandable
- Access data from different locations



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TENNECO

Real Time data collection and monitoring

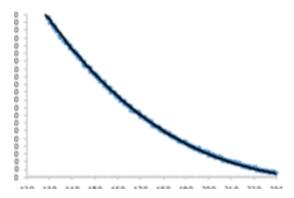
- Data Analysis to Understand Parameter Interactions
- Learn from machine behavior
- Optimize parameters to obtain best results – Machine ideal parameters

3) ACTIONS REQUIRED PREVENTING PROBLEMS





TENNECO







Reducing time example: Tool Finder

- Internal position of assets (tools, operators ...)
- Wrong tool
- Missing tool



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