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Industrial Operations / Information Processing Convergence

Control Chain Management Body Of Knowledge

MI - Manufacturing Intelligence Beyond the buzzword

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Introduction

- **« Manufacturing Intelligence » is a wide spread commercial buzzword**
 - Software vendors provide « intelligent » software solutions to exist on the market - What this means exactly?
- **Intelligence is a subjective and scalable topic.**
 - A simple computation linking the detection of an event to a subsequent relevant action can be considered a somewhat low QI behaviour
 - Consciousness, wisdom seem much higher level that are currently unattainable by the machines

Introduction

- **Information is the material of intelligence**
 - Software bears a critical and increasing role
 - « Interaction » is a key element
- **Organization makes intelligence actionable**
 - Coherent, converging efforts to drive the system
- **Solutions Manufacturing Intelligence?**
 - Software vendors and integrators, consultants are not responsible for enabling / developing intelligence
 - However, software being concerned by information is more and more critical
- **This study discusses general aspects of intelligence and its applicability**
 - in the context of the industrial enterprise and specifically its manufacturing operations

Main agenda

- **1 MI – Common Understanding and Solutions**
- **2 MI – Intelligence – Real meaning**
- **3 MI – Enable and Develop intelligence – Language**
- **4 MI – Make Intelligence Actionable - VSM**
- **5 MI – Case studies**
- **A1 MI – Enterprise language standards**
- **A2 MI – Enterprise metamodel and taxonomy**
- **A3 MI – Science for Enterprise systems**