

Luccarelli

Information Technology

From sensors to strategies

Luc.SiMeC

Luc.Simec

System for
Stop Machine Analysis and
other TPM function (5S,
Loss Analysis,
PILS, OPL, Tags,
Security, BBS,....)

Solution implemented:

Stop Machine Analysis

The System analyzes the stop / slowdown the production and packaging lines in order to:

- Identify the real causes of the stops / slowdowns
- Make interventions that address the causes of the slowdowns/stops
- Optimize performance by reducing / optimizing downtime

Solution implemented:

Stop Machine Analysis

Analysis and monitoring system that allows:

- Automatically detection the status of machines
- Automatically detection the machine that generate the stop event
- The operator summerizes “direct stop” events
- Analysis type, timing, causes stop

Solution implemented:

Other TPM Function

- Management operational practices and all document
- Management periodic activities of PLS(cleaning, inspection,lubrication) and autonomous maintenance
- Management time of Change Format and Shutdown
- Management activities/action of maintenance / improvement by events analysis
- Management of all Tag information (creation, programming,execution)

Solution implemented:

Other TPM Function

- Management of all safety information and related events
 - risk analysis (5 Whys Analysis)
 - action for risk reduction
- Analysis of all critical problems in production with 5Whys Analysis
 - Corrective and preventive actions
- Management of all maintenance activity independently and of all planned activity (Actions Plan)
- Management of
 - verification and validation of internal documents (Check List, operational pratics, safety documents,...)
 - distribution to all staff
 - control and test of knowledge
- Reminder for all user
- And more....



Platform

Platform

Data Analysis

Manage Activity

Manage Production events

Summarizing Events Stop

Processing speed/machine state

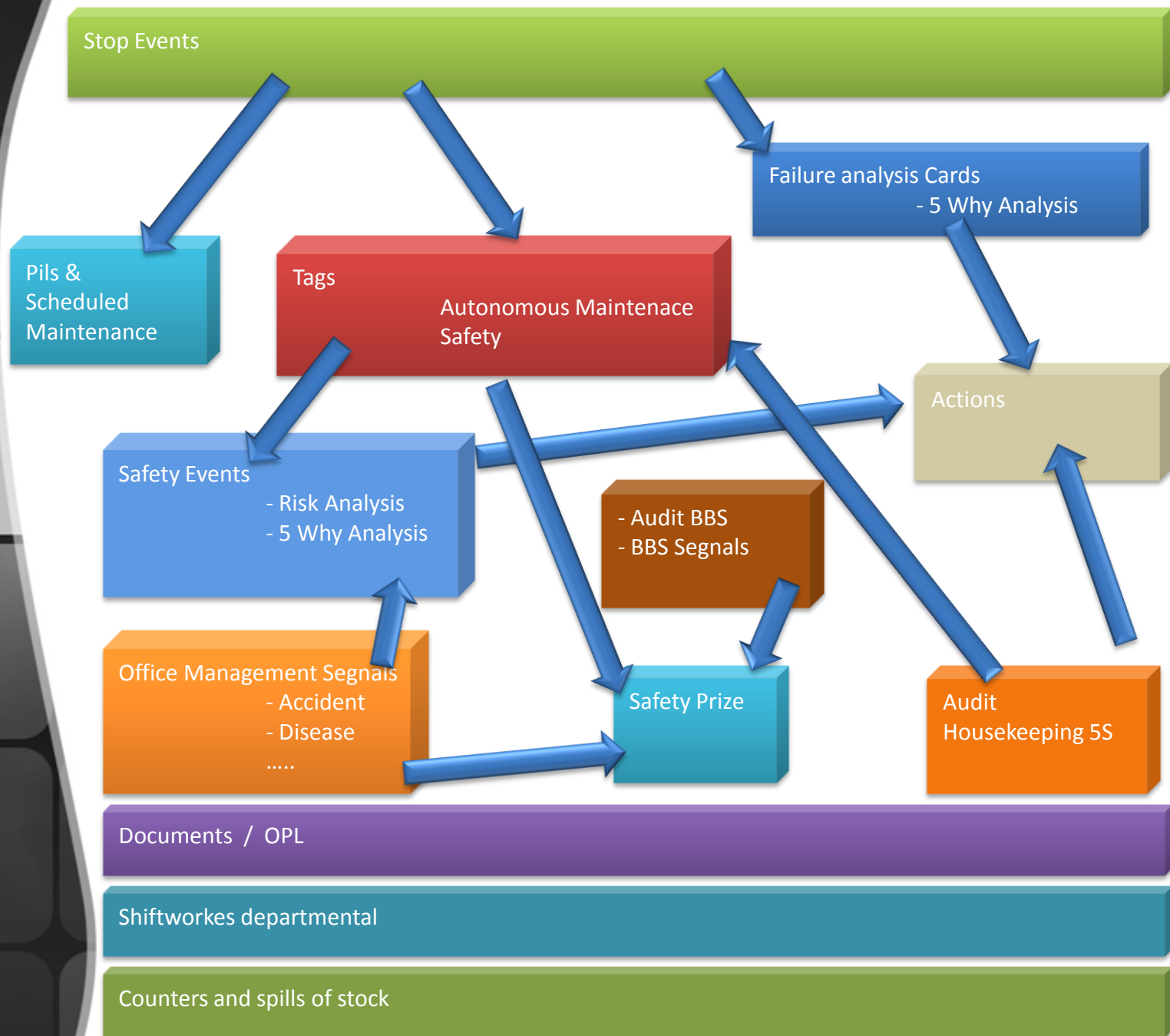


Acquire Data from PLC-Machine



Luc.SiMeC

All component Platform





Technology

RunTime Platform	Windows (32 and 64 bit)
Database	Microsoft SqlServer
Application type	WinForm (Web for statistics)
Developer Platform	Microsoft .Net, Silverlight
Other Technology	Simens SimaticNet, Telerik



Basics

All users have a personal password to access the system

When the user does the login, the system show the reminder

The voices shown in the remainder are different for users, this depend on user profile. All main voices are:

For All Users

 DOCUMENTS (2)

 TAGS (73)

 ACTIONS (95)

 MESSAGES

 NOTIFY(7)

Only for particular users

 Audit BBS(2)

 Audit HouseKeeping(2)

 Cards of losses analysis (1)

 PILS

 SAFETY EVENTS (10)

 BBS Reporting

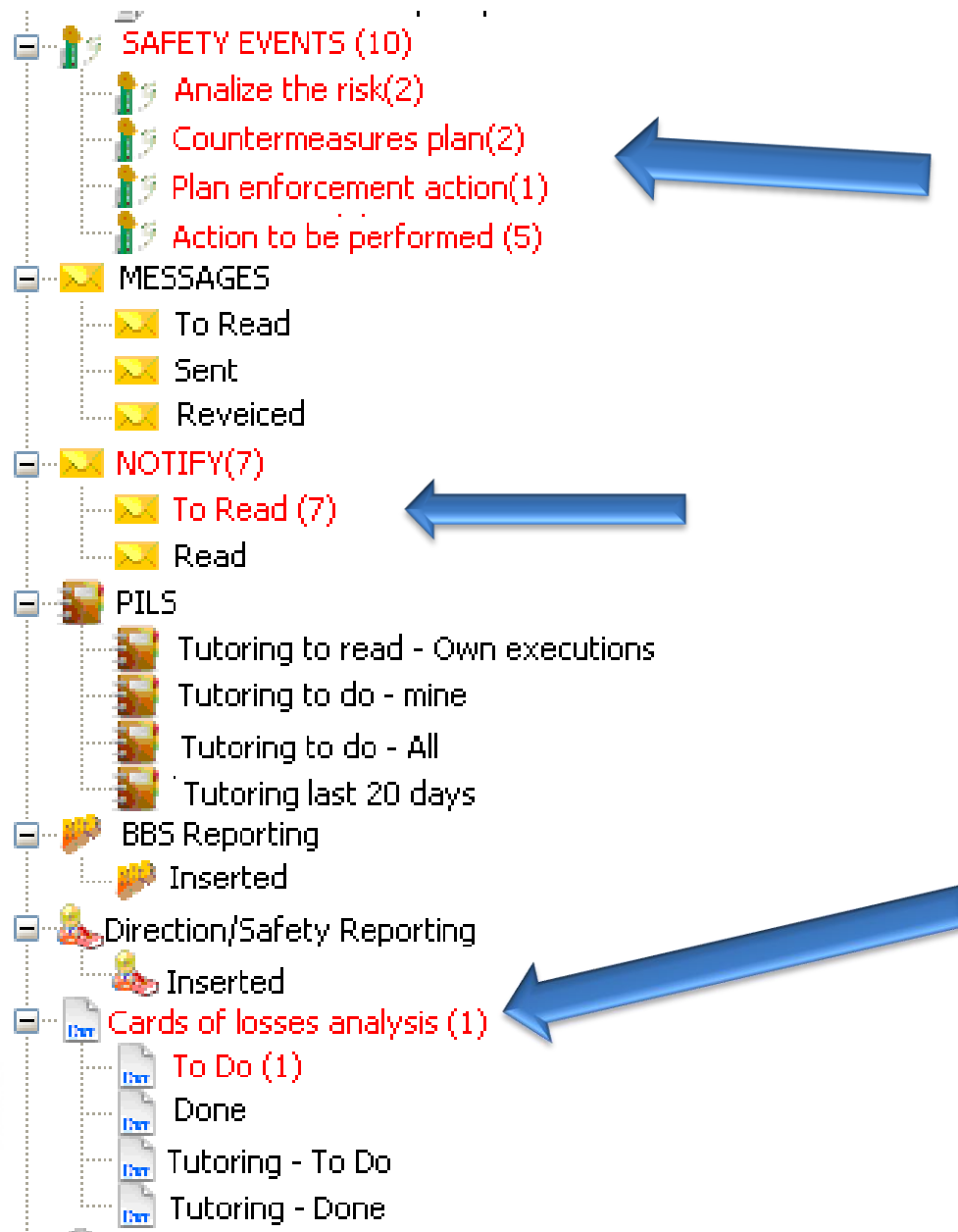
 Direction/Safety Reporting

Any voice is composed with activities to do or done



Also the shown activities are different for users, this is function of user profile

Red Colour indicates there are activities to execute



Presentation of details

Machine Events (analysis stop)

http://www.luccarelli.it/Documents/Brochure/LucSimec_MachineEvents_Eng.pdf

Tags

http://www.luccarelli.it/Documents/Brochure/LucSimec_Tags_Eng.pdf

Documents

http://www.luccarelli.it/Documents/Brochure/LucSimec_Doc_Eng.pdf

BBS

http://www.luccarelli.it/Documents/Brochure/LucSimec_BBS_Eng2.pdf

SAFETY

http://www.luccarelli.it/Documents/Brochure/LucSimec_Safety_Eng.pdf

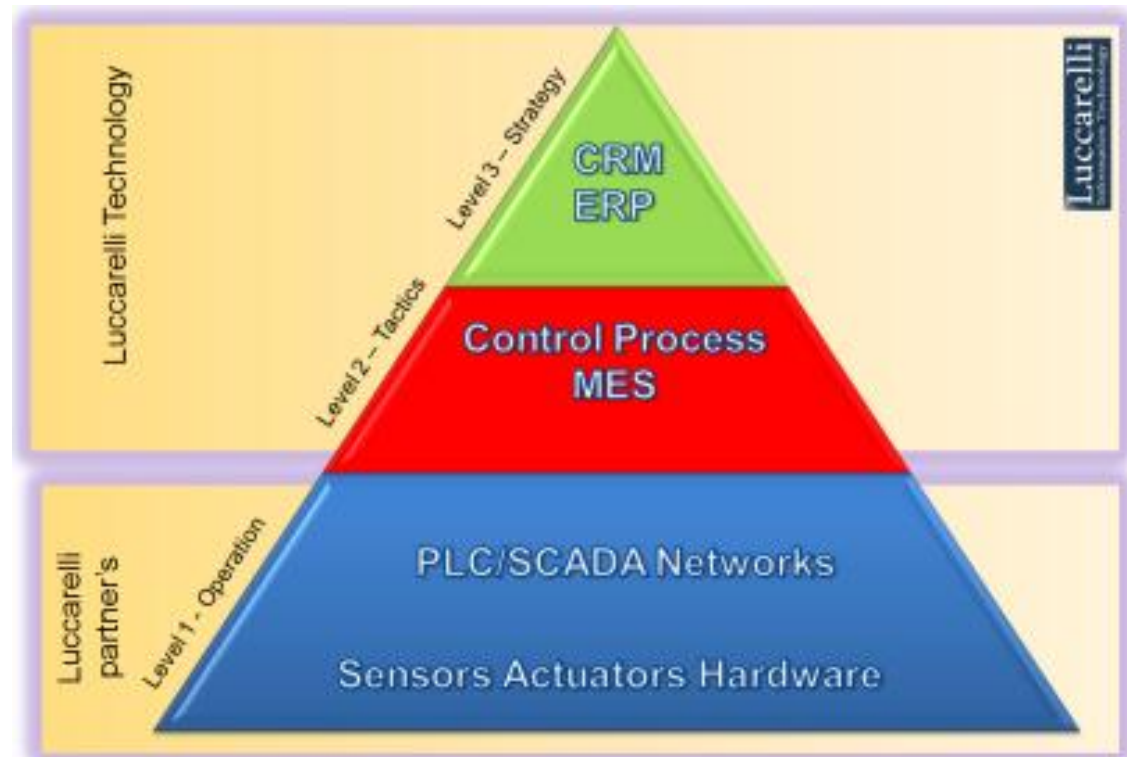
MPA (Maintenance Periodic Activities [TBM,CBM,...])

http://www.luccarelli.it/Documents/Brochure/LucSimec_MPA_Eng.pdf

.... More details soon (PILS, 5Why
Analysis,....)

What we do

- Analysis, Project and Development of information systems
- Automation Machines / Production line
- Storage systems and optical recognition (OCR-ICR)





Our Skill

Main Platforms used

- Visual Studio . Net
- Crystal Report
- Lead Tools
- Ocr Recognition
- DCPA
- Silverlight

Languages

- C/C++
- Vb/Vb.Net
- C#.Net
- Asp/Asp.net/Ajax
- Pl/Sql
- Fortran

Database

- Microsoft SqlServer
- Pervasive
- Btrieve/Clisam
- Oracle

Industrial Automation

- OPC
- PLC :
 - Siemens
 - Telemecanique
 - Weindmuller
 - Phoenix-Contact
 - Rockwell
 - ABB
 - Allen-Bradley
 - Ge-Fanuc

Scada Tools

- GE Logoview 32
- Ge Cimplici:
- Intellution FIX
- ORSI Cube
- Siemens WinCC
- Siemens Protool
- Rockwell RSView

Others Skill

- Develop WebPart for SharePoint
- MSMQ
- IBM MQSeries
- Oracle Graph/Report

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