



ProMANAGE

TÜSİAD Sanayi 4.0 Günleri

6 Temmuz 2017

Cengiz Özden @ Doruk Otomasyon

Challenges on Global Competition



Better
Product
Design

Need to have competitive and innovative designs.



Greater
Innovation

Greater innovation among competitors is a must!



Elimination
of Waste

Needed for cost management



Lead Time

Needed for customer satisfaction

ProMANAGE
supports
manufacturers

Expensive Machines Stop Frequently...



Waits

Setups

Quality Problems

Machine Failures



Smart Manufacturing is the solution to manage!

According to the
Plastics Industry Trade
Association, USA:

Average Machine
Utilization of
Plastics
Manufacturers
in the USA is:

40%

According to World
Class
Manufacturing,
the
Machine Utilization
target is:

85%

ProMANAGE is a Proven Solution...

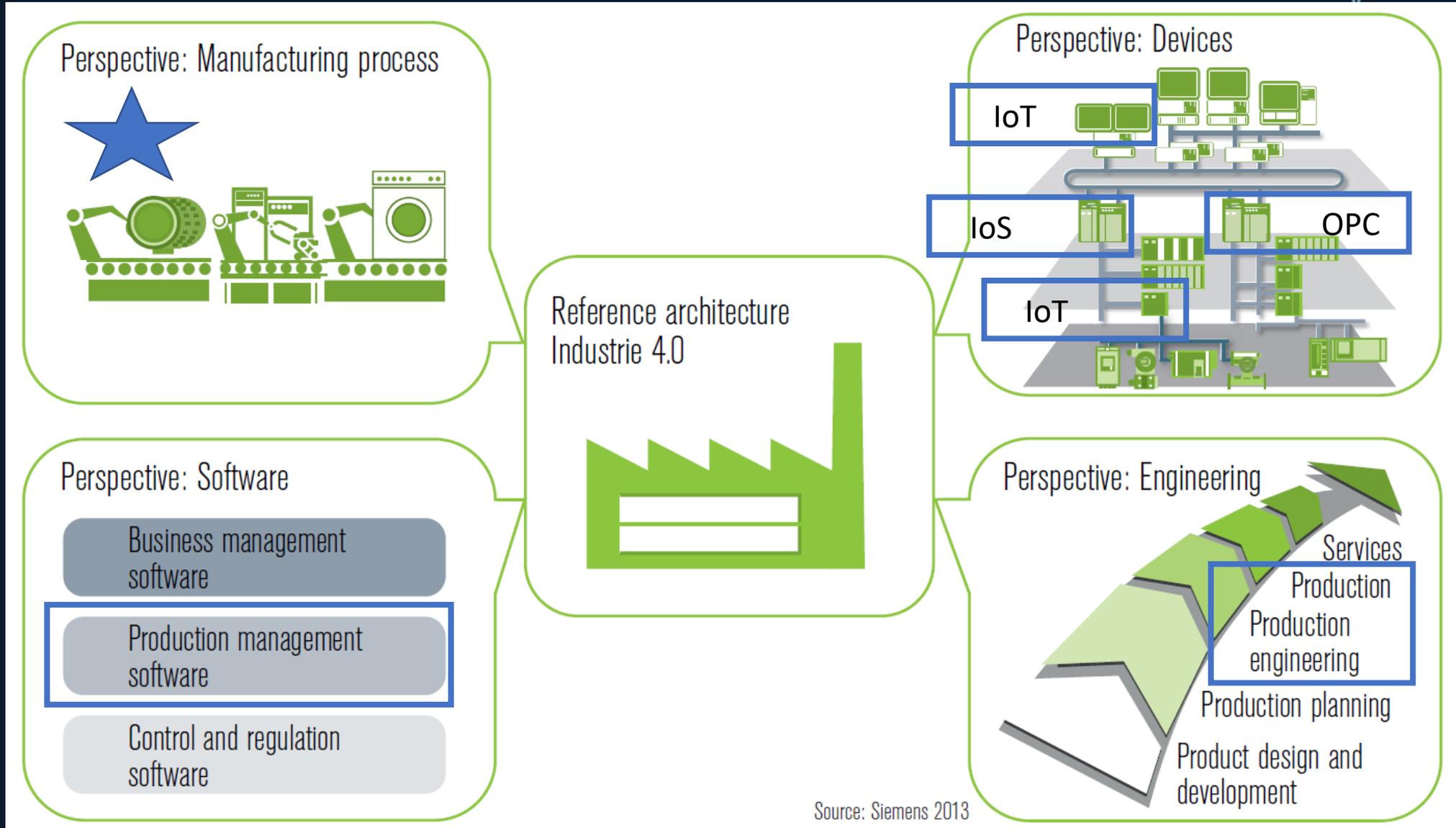
✓ >200 Enterprises



18% increase in OEE
20% decrease in Breakdowns
30% decrease in Setup Times

20% increase in OEE
75% decrease in Breakdowns
80% decrease in Setup Times

ProMANAGE and Industry 4.0 Intersections and Integrations



International Vision of ProMANAGE



1998 yılından beri işletmelerin dijital dönüşümünü gerçekleştiren uluslararası standartlarda sistemler kuruyoruz

MESA : Manufacturing Enterprise Solutions Association

ISA : The International Society of Automation

OPC Foundation

DMDII : The Digital Manufacturing and Design Innovation Institute

ProMANAGE Collects Data Automatically



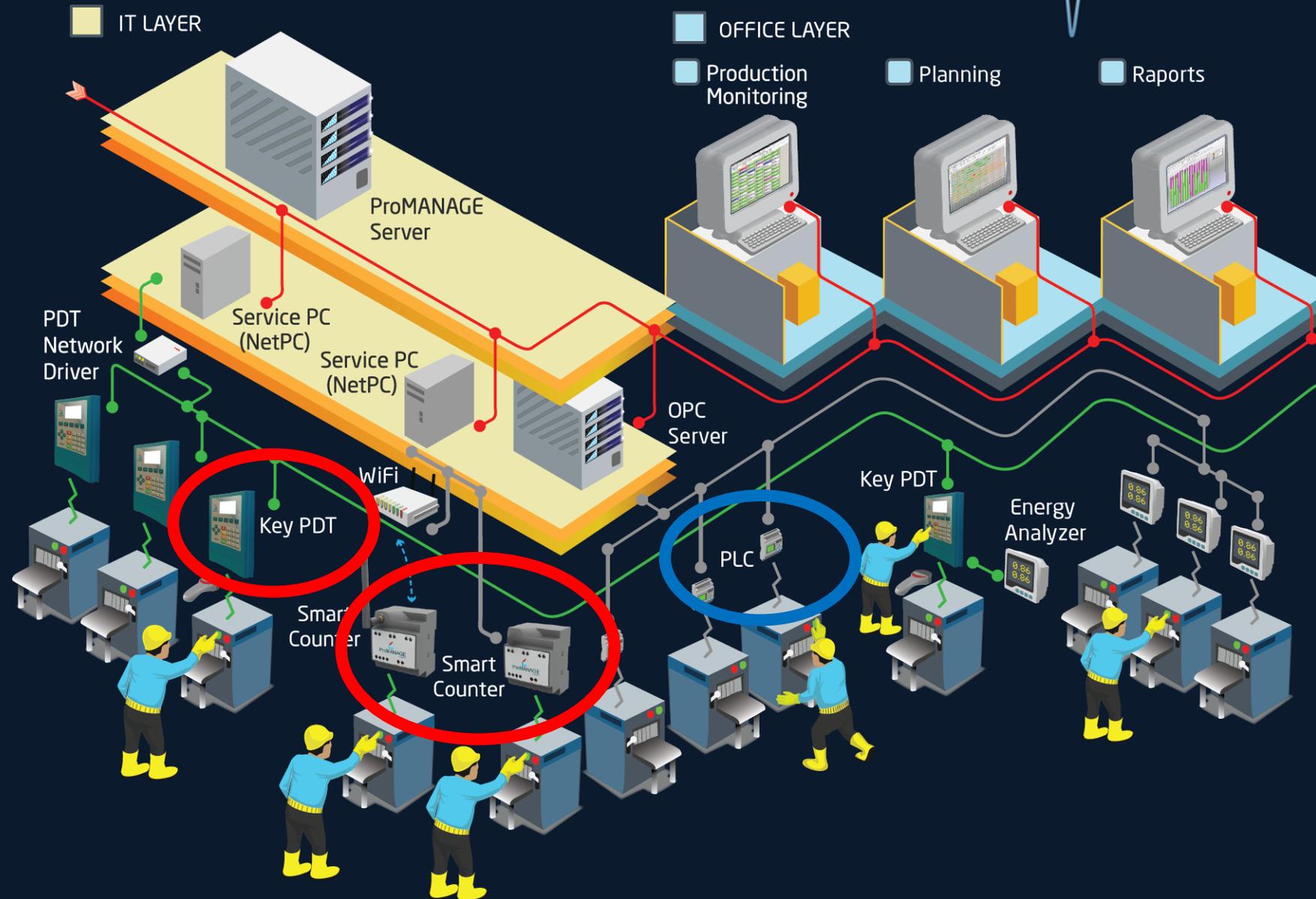
Reliable Production Data is collected from the Machines via:

Data Terminals

OR

Machine PLCs

Data provides Online Real-Time Live System



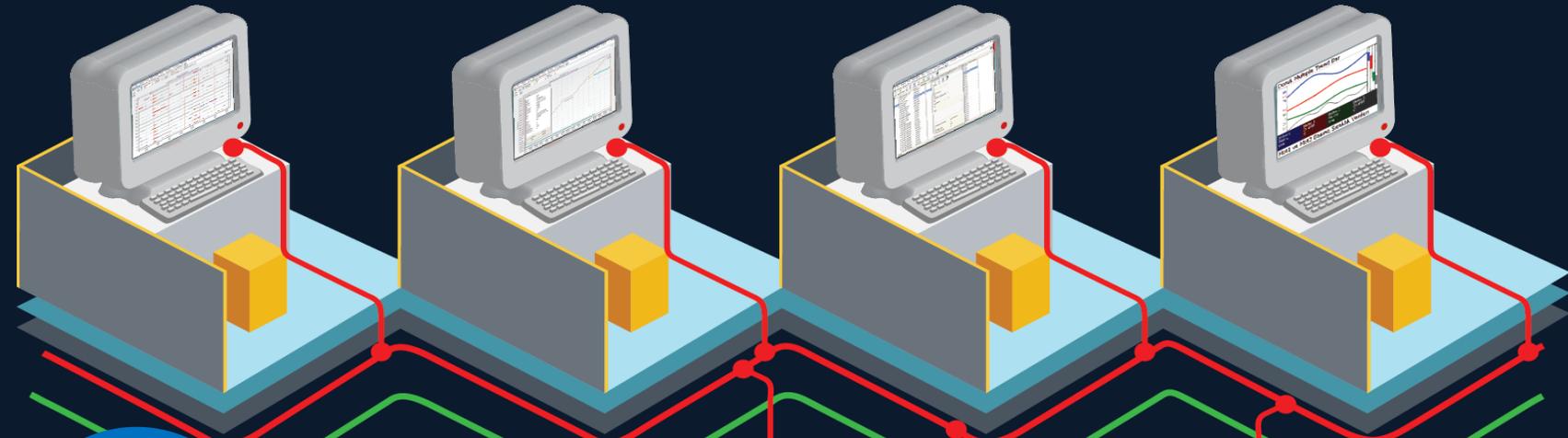
Operator Interface Options

- Stoppage History
- Machine History
- Document Management
- Quality Management

Touch Panel/Tablet

OR

Data Terminals



Key PDT

SHOP FLOOR LAYER

WiFi

Integration of External Equipments such as: Balance, Barcode Printer



Balance



Barcode Printer



EPC
>Win XP
>15 inch

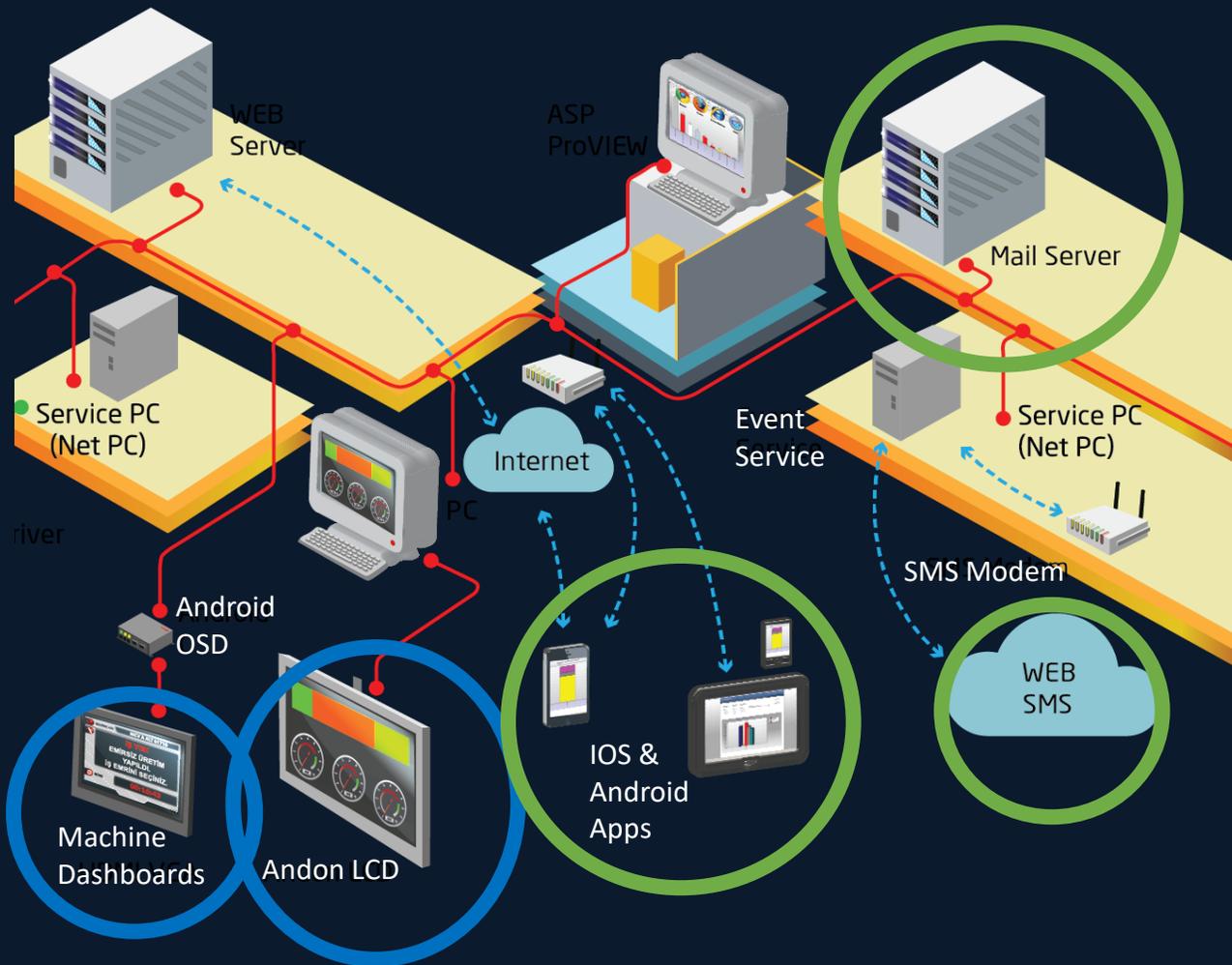


Tablet
>Win 8
>7 inch



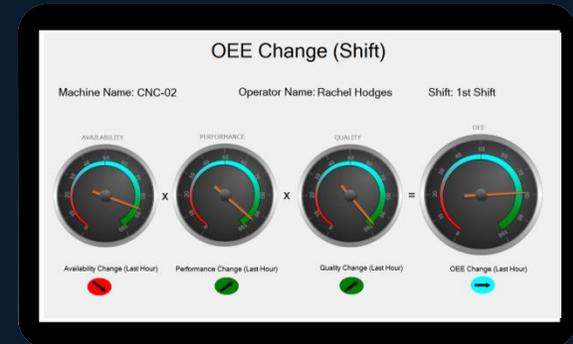
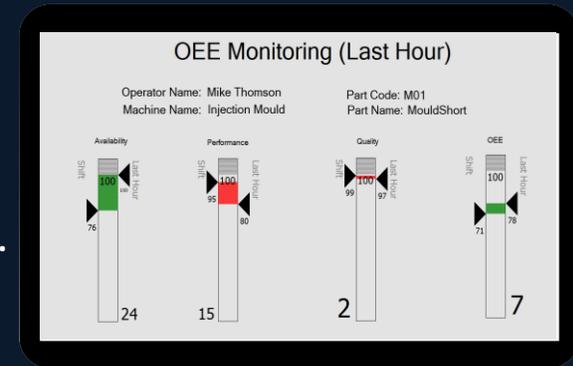
Manual
Production Data
Entry

Visual Management & Escalated Warnings



ProMANAGE's Machine & Hall Based Dashboards expose status instantly to allow proactivity.

Usage of personalized dashboards improves the awareness of production staff.



Whenever a problem is detected, system immediately and automatically **escalates the problem**. Escalation messages are deployed via email, SMS, IOS & Android applications.

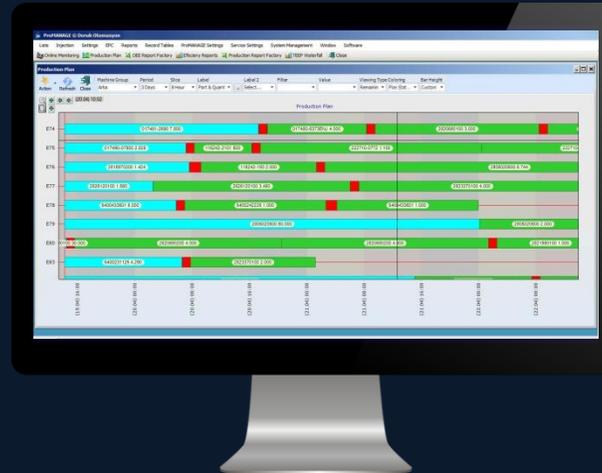
Some of the Useful Tools

Online Real-Time Plant Monitoring



- Machine Based Plant Cockpit
- Personalize according to your needs

Live Machine Scheduling



- Live Machine Based Scheduling fed by automatic data acquisition
- Change the plan via drag and drop.

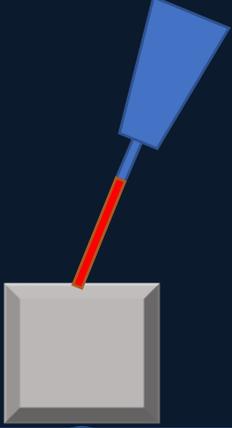
Dynamic Real-Time Reporting Tools



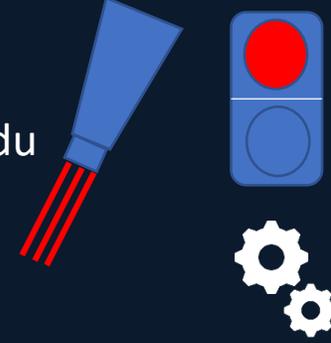
- Reports are not limited to a number, they are limited to your needs & creativity.
- The reports are sent by the system periodically without human touch.

Stackpole - 2015

Ürüne lazer ile
karekod yazılır.



Ürün karekodu
okutulur.



- 1 Sıradaki operasyon bu mu?
- 2 Ürün önceki operasyondan OK aldı mı?

- Ürün hangi istasyonlardan geçti?
- Ne zaman geçti?
- Ürünü kim işledi?
- Her operasyondaki proses parametreleri nelerdi?

- 3 Durum okunur
- 4 Proses parametreleri okunur
- 5 Sıradaki operasyon belirlenir

İzlediđiniz için teŝekkürler...



ProMANAGE
www.promanage.net
info@promanage.net