IQMS *INTEGRATED QUALITY MANAGEMENT SYSTEM*

30° itaca
SINCE 1994 TAILOR-MADE SOFTWARE SOLUTIONS

IQMS – SERIAL NUMBER IS THE KERNEL

Just one database to manage all activities trough generate unique serial number for any appliance.

Simple interface with all factories application

Simple management of data for keys departments
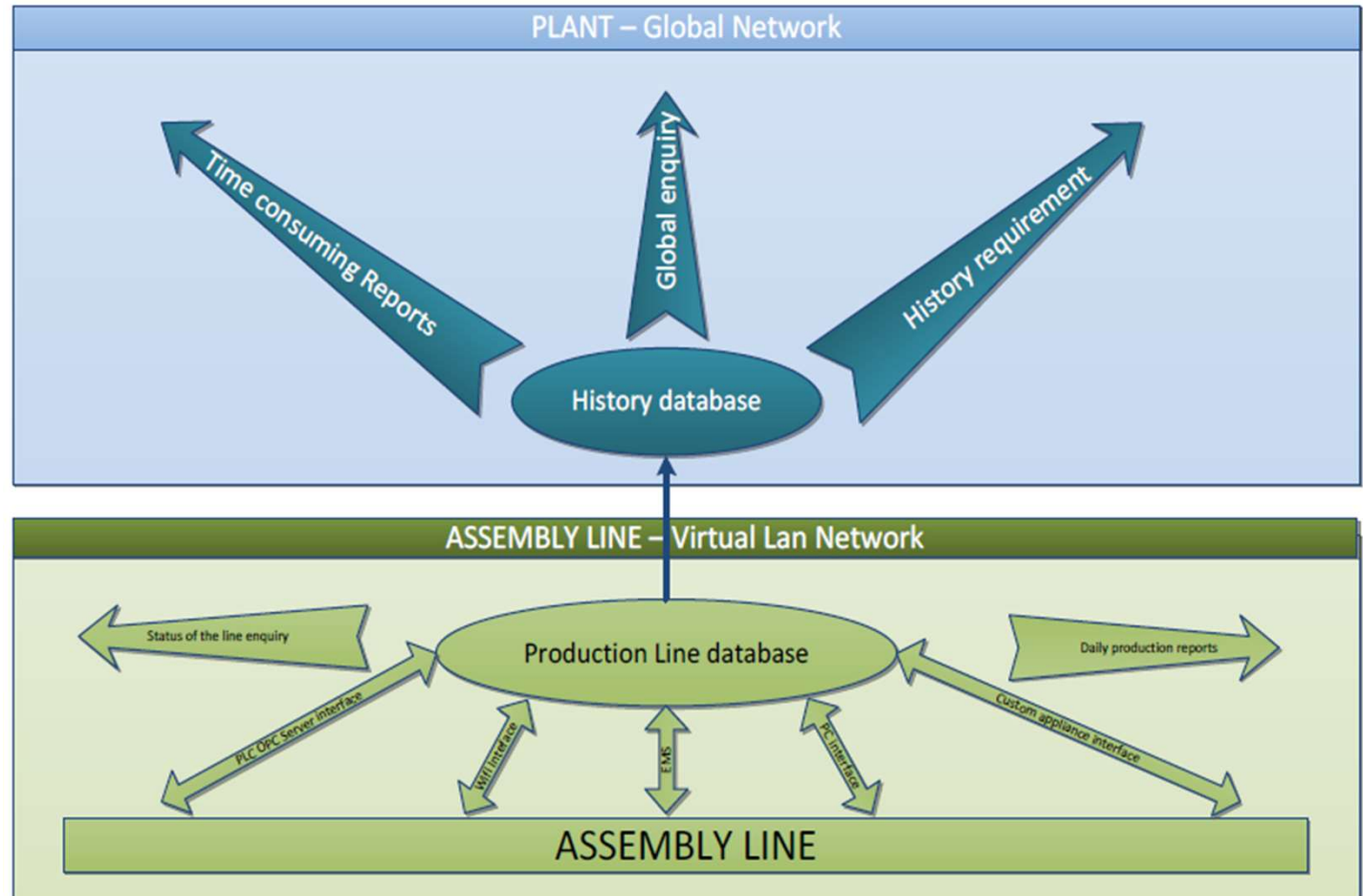
Simple structure for excellent results

iQMS
Integrated Quality Management System
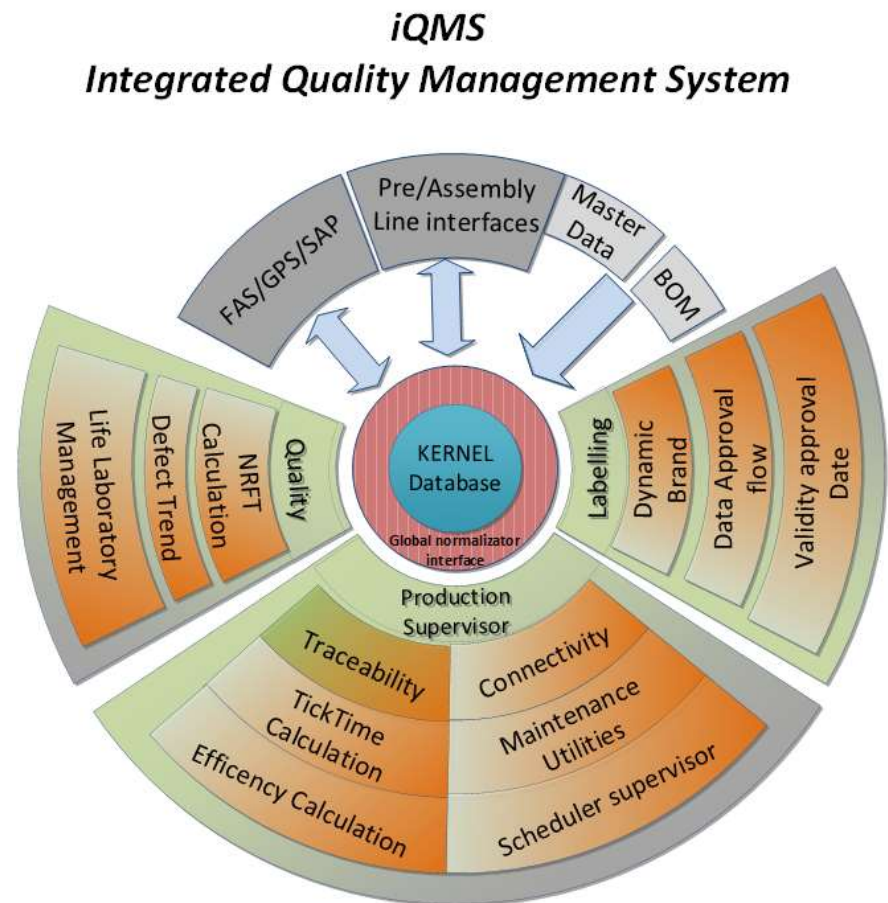
IQMS – IQMS – ARCHITECTURAL STRUCTURE

TWO DIFFERENT STRUCTURES FOR TWO DIFFERENT TASKS

PLANT NETWORK for historical and reporting information (time consuming activity)

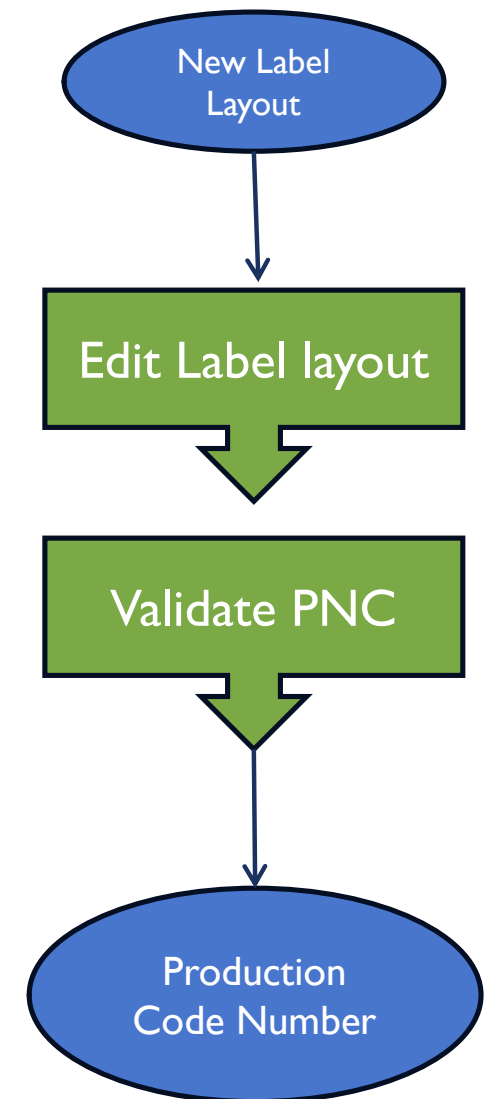**ASSEMBLY LINE NETWORK for currently online production (fast response action)**

IQMS – MAIN ACTIVITY

- Production supervisor Tasks scheduler,

- Management of all approval activities of master data,

- Approve and print all labels by planned Order or tasks,

- Start & Control scheduled appliance production on each area,

- Quality management of production by tests collection of data,

- Production monitoring and reporting,

- Production declaration.

IQMS – GENERATING LABELS

- Create new label take two steps :

- 1. Draw layout using a customized label editor

- 2. Link all layouts on a PNC version and approve it through PNC validator functionality

Production code number is automatically generated to identify a set of labels to produce

New Label Layout

Edit Label layout

Validate PNC

Production Code Number

IQMS – EDITOR LABELS

- CERTIFIED APPROVAL FLOW,

- MULTI SESSION APPROVAL,

- SESSION APPROVE JUST SINGLE FIELD OF DATA,

- AUTOMATIC SENT OF MAIL AFTER ANY APPROVAL STEP,

- SPECIAL SESSION FOR FINAL RELEASE TO PRODUCTION,

IQMS – MASTER DATA APPROVAL FLOW

IQMS – PNC VALIDATION SCREEN
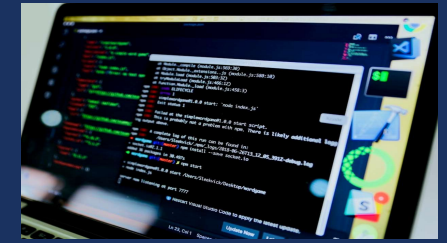
- Unique place to validate PNC version fields and labels,

- Preview of any layouts,

- Trace of user's action,

- Quality approval screen.

IQMS – INVOLVED DEPARTMENT

R & D

Production

Quality

T&M engineering

Maintenance

IQMS : R&D

All instruments to produce a label in one system

Editor labels with programmable fields contents

Standardized flow to create new labels

Organize all labels needed for PNC in a unique production serial number

Historical tracking for know who and when validated labels

Paper reduction by collecting images of approved labels in historical main database

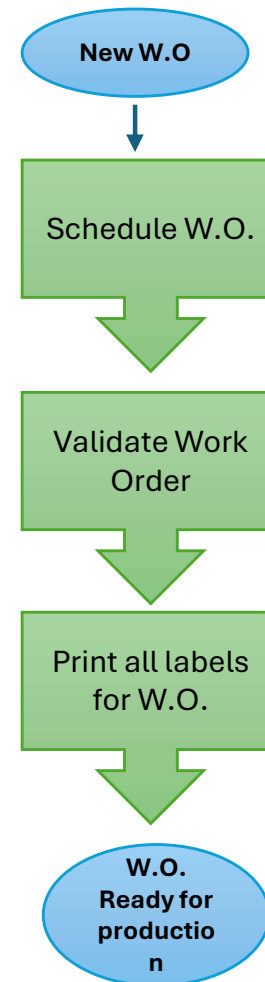# IQMS – PRINT A WORK ORDER

Nr. 3 Steps to Print Labels

1 Receive planned workorder from MRP into iQMS system scheduler

2 Approve scheduled WO/Tasks to identify the needed Labels for production

3 Print all labels needed for selected WO (Service, Rating, Energy, Warranty, Packaging, etc)

New W.O

Schedule W.O.

Validate Work Order

Print all labels for W.O.

W.O. Ready for production

30° itaca
SINCE 1994 TAILOR-MADE SOFTWARE SOLUTIONS

IQMS : PRODUCTION

All production lines activities under control in real time

Automatic efficiency Calculation reports

Rework management: all appliance coming from warehouse are keep under control

Tools warm backup to avoid stop of production

Shipment management with interface to business Application for automatic generation of ship documents

30° itaca
SINCE 1994 TAILOR-MADE SOFTWARE SOLUTIONS

IQMS – T&M ENGENEERING FRIENDLY INTERFACE

Common interface for any working place

Simplified user understanding

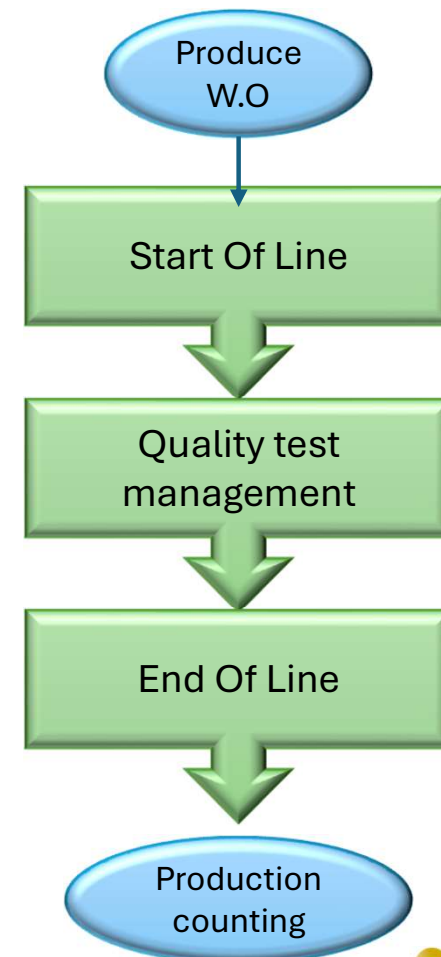# IQMS – PRODUCTION

Manage production in few steps:

Start Of Line assembly line read the service label the appliance is accepted or refused by the system (if not planned is refused) .

Quality test acquisition to check if quality respect the predefined rules .

End Of Line as quality production : point of certification the appliance has been produced .

Production counting

Produce W.O

Start Of Line

Quality test management

End Of Line

Production counting

IQMS – PRODUCTION COUNTING REPORTS

Real-time production report to have all under control

IQMS: QUALITY

Apply of quality rules to be used in production lines

Real time defects tracking to know the quality trend in production line

New factory level defects definition keeping unchanged MQMS level meaning. From the headquarters or centralized system, it is possible to have a comprehensive view of defect management across all branches, even those located in other countries.
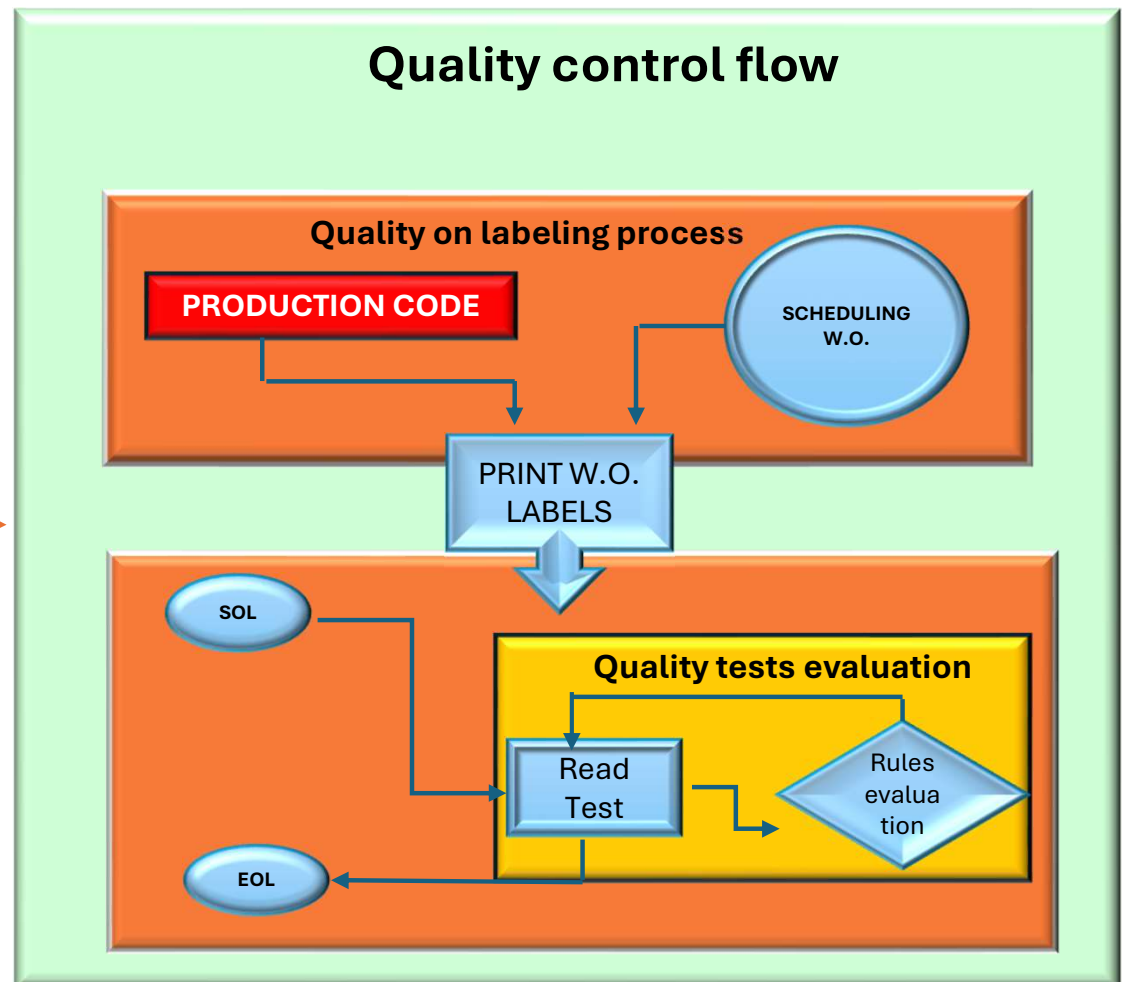
Full integration between who discover the problem and who repair

Daily/Monthly reports to tracking critical components

Automatic NRFT **(Non-Right First Time)**Calculation and reporting

itaca
SINCE 1994 TAILOR-MADE SOFTWARE SOLUTIONS

IQMS: QUALITY

Assembly line under quality supervisor by applying all rules defined in setup time according with quality department

Quality control flow

Quality on labeling process

PRODUCTION CODE

SCHEDULING W.O.

PRINT W.O. LABELS

SOL

Quality tests evaluation

Read Test

Rules evaluation

EOL

IQMS – SHIFT EFFICIENCY REPORTING

IQMS – QUALITY SYNOPTIC ASSEMBLY LINE
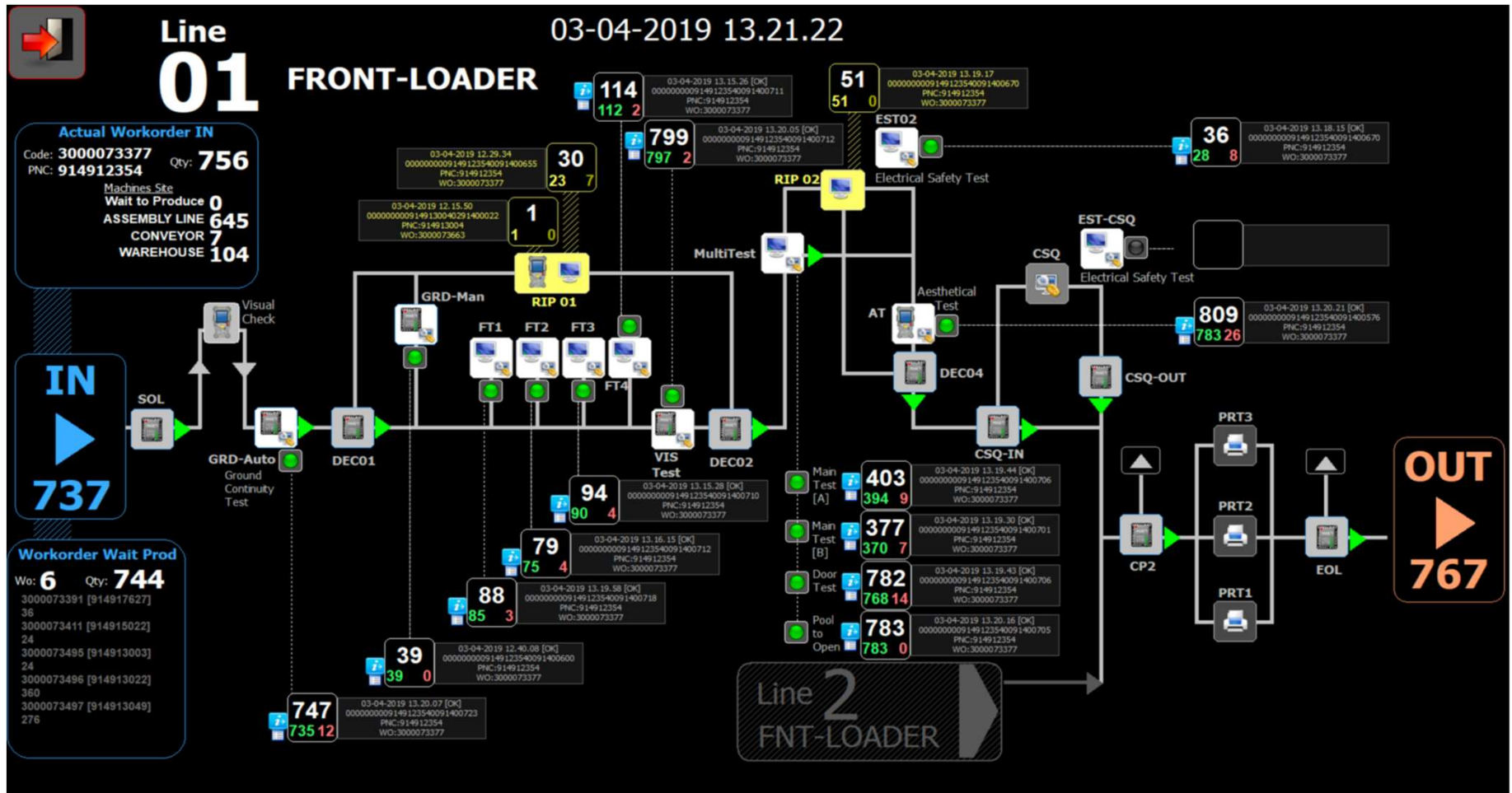
IQMS – T&M ENGINEERING

Optimization of working time : friendly interface support users on daily activity

Users can know better status of appliances

Centralized information cutting all redundant operation (ex: repeat test already done, automatic defect reparation if last test OK)
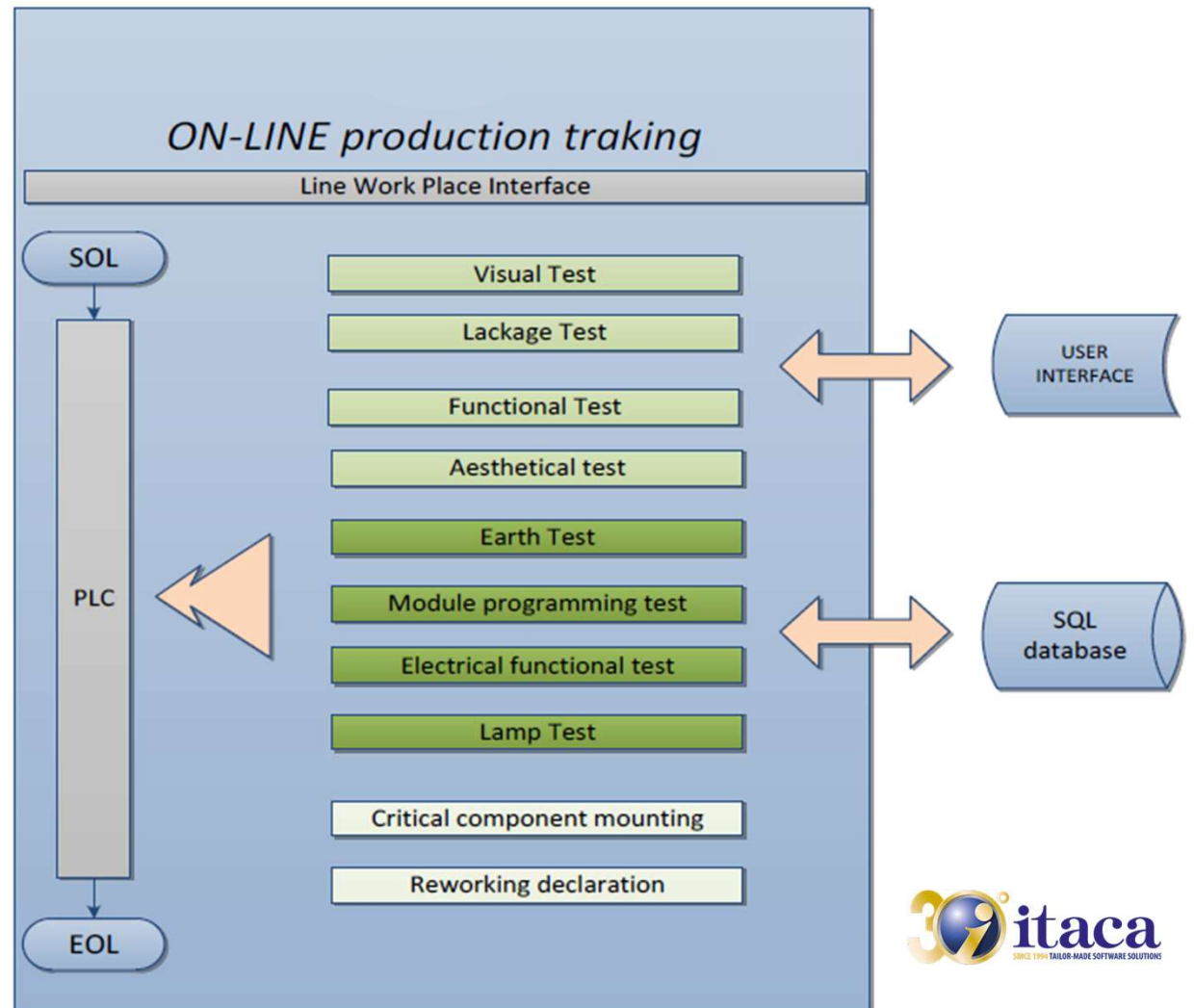
IQMS – PRODUCTION INTERFACE

❑ **Different possibility to set up the quality test :**

> By user manually

> Automatically by OPC interface

❑ **Critical component are managed by interface**

❑ **All line activity under control**

ON-LINE production traking

Line Work Place Interface

SOL

PLC

- Visual Test
- Lackage Test
- Functional Test
- Aesthetical test
- Earth Test
- Module programming test
- Electrical functional test
- Lamp Test
- Critical component mounting
- Reworking declaration

USER INTERFACE

SQL database

EOL

IQMS – REPORTING ACTIVITY PER WORKPLACE

The chart represents the distribution of production lines based on the defect percentage detected at each workstation, whether automatic or manual.

The analysis allows for the rapid identification of critical areas where defects occur more frequently and helps assess the effectiveness of automation.

IQMS – MAINTENANCE

PLC's software simplified by using OPC Sever

Common protocol interface to exchange information with iQMS for any working place

The user interface includes a tool that enables the monitoring of the quality measurement system's degradation.
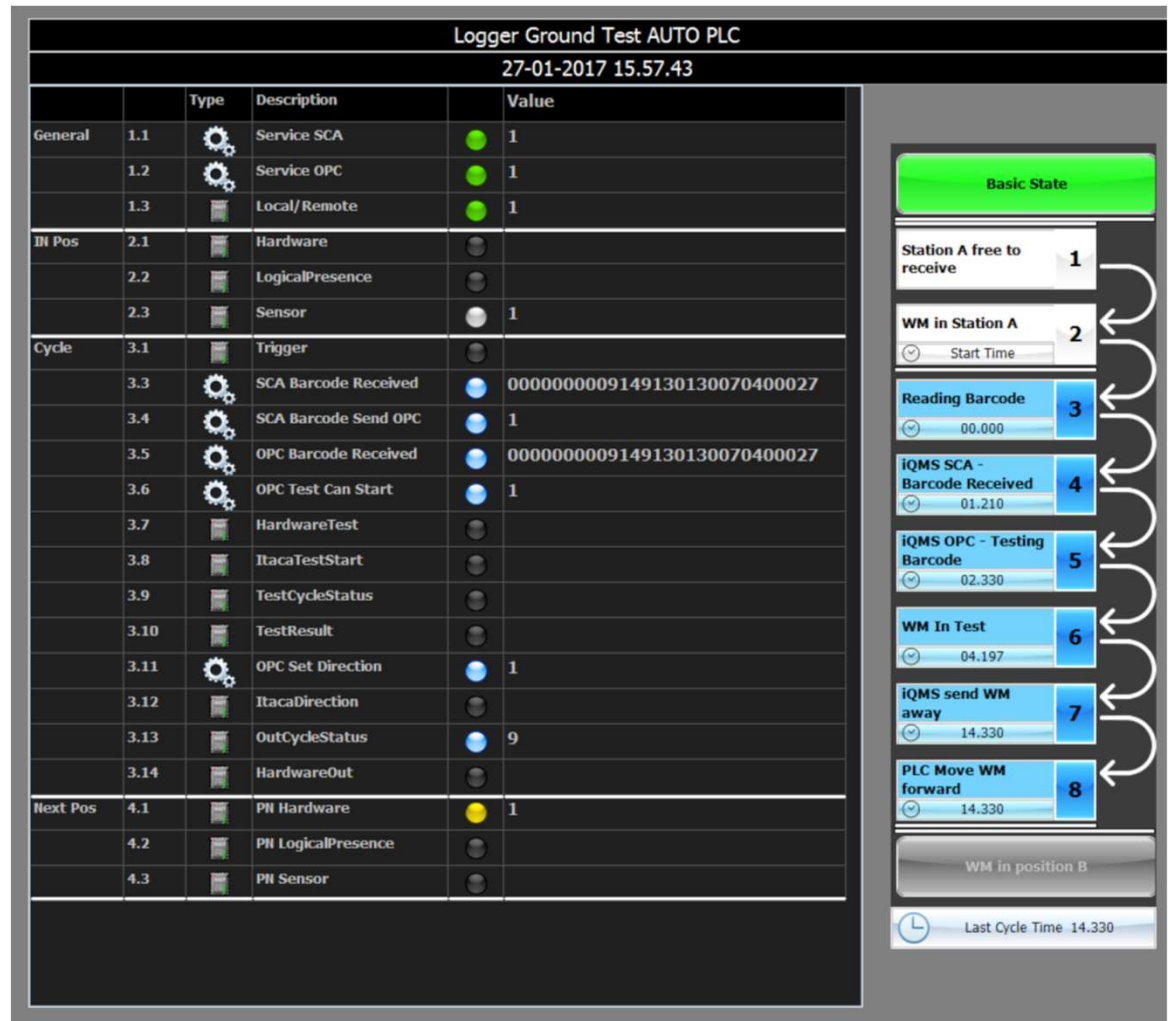
IQMS – MAINTENANCE FLOW INTERFACE

Trace of time activity : detailed timestamp for any step

Total Cycle time

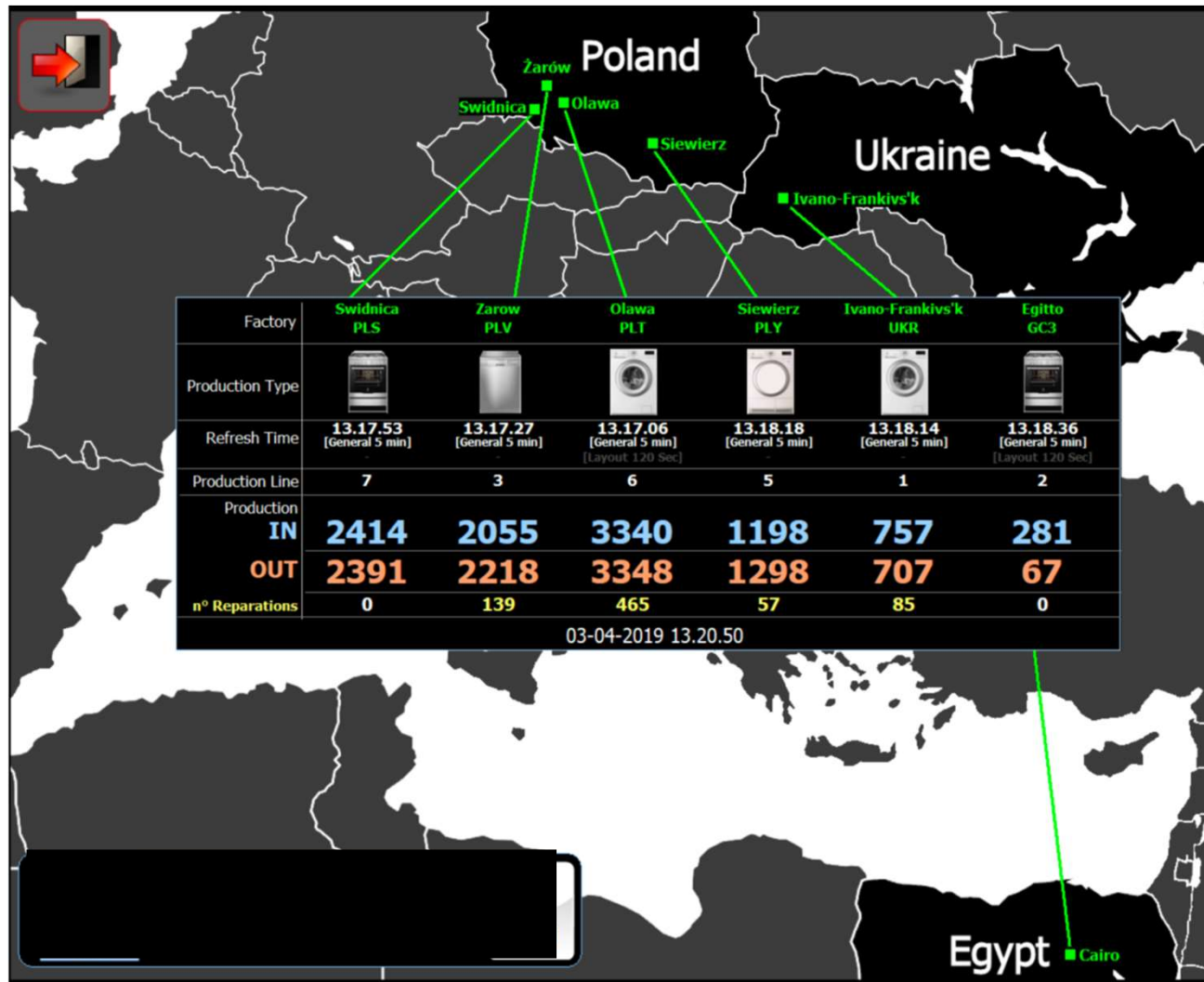Flow chart status working place for maintenance understanding in case of fault

IQMS – EMEA, MENA, APAC, BRICS, LATAM..

Synopctic to show
production performance

Main information available
to WEB application

IQMS – EXAMPLE OF GLOBAL PRODUCTION MANAGEMENT AND MONITORING

ITACA S.R.L.

VIA SANDRO PERTINI, 12
63812 -
MONTEGRANARO - FM
ITALY
P. IVA: 01187300437

TEL.: +39 0734.445279
+39 0734.445294

WWW.ITACASW.IT