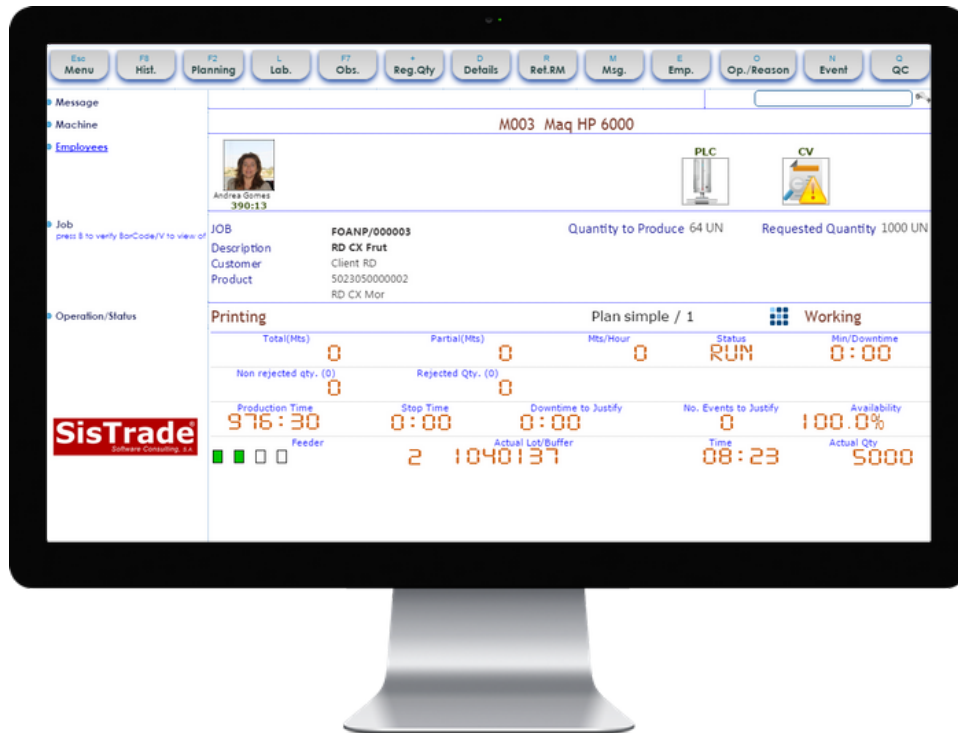


Industrial Performance

PRODUCTION EFFICIENCY



INCREASED DATA RELIABILITY

MINIMIZE HUMAN ERROR

BETTER CONTROL OF MACHINE SPEED

RELIABLE DOWNTIMES RECORD

REDUCTION OF UNPRODUCTIVE TIMES

REAL-TIME
EFFICIENT
SUPERVISION

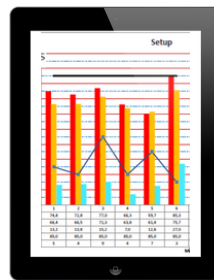
Industrial Performance

PRODUCTION EFFICIENCY

MES - MANUFACTURING EXECUTION SYSTEM

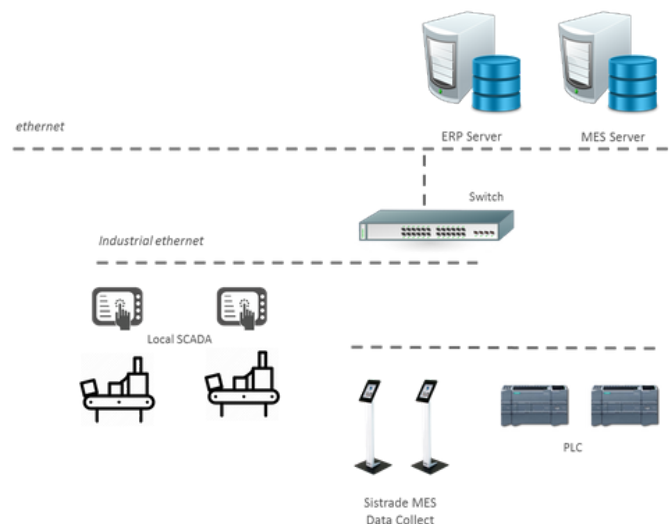
SISTRADe Shop Floor Control allows to plan the job orders on time, monitoring real-time production process according to the preset routing, control the movement of materials and hence make a production control more efficient

- Data acquisition
- Industrial supervision
- Planning and production control



SAD PROFINET

- Web-based data collect, all information will be saved in real time in SQL database installed in the main server or in a different server;

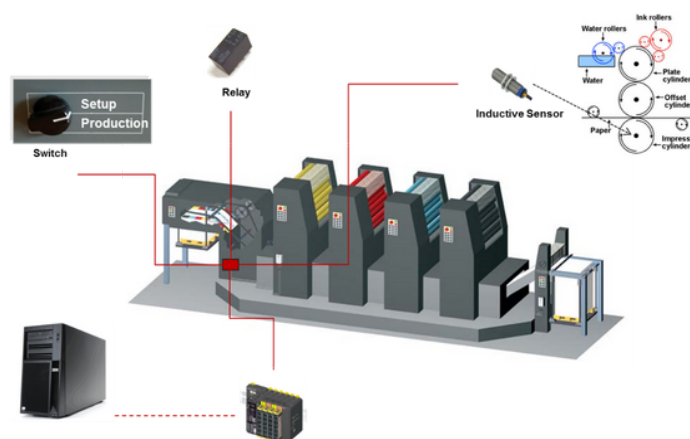


Industrial Performance

PRODUCTION EFFICIENCY

DATA COLLECTION

- Release of job orders (Start / End)
- Start/end of operations (productive activities)
- Allocation/de-commissioning of employees to certain machines
- Start/End of the events (unproductive activities)
- Materials to be incorporated in the machine
- Machine
- Production Records
- Quality Control tests



DATA ACQUISITION ON OFFSET MACHINE

BAR
CODE
READER

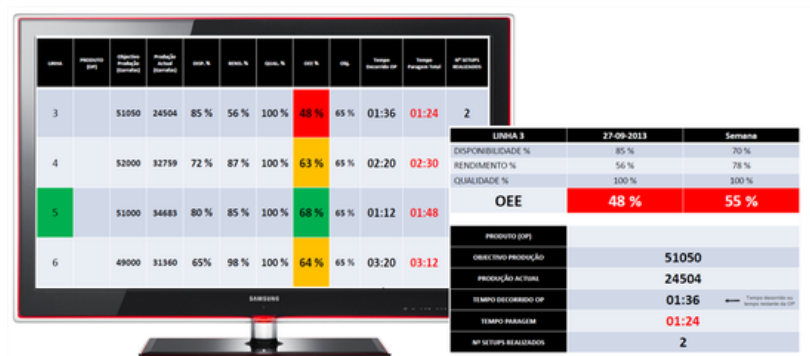
TOUCH
SCREEN

PLC
DEVICES

THERMAL
PRINTER

ANDON BOARD

- KPI's
- Notifications & Alarms
- Delays
- Downtimes
- Next job order



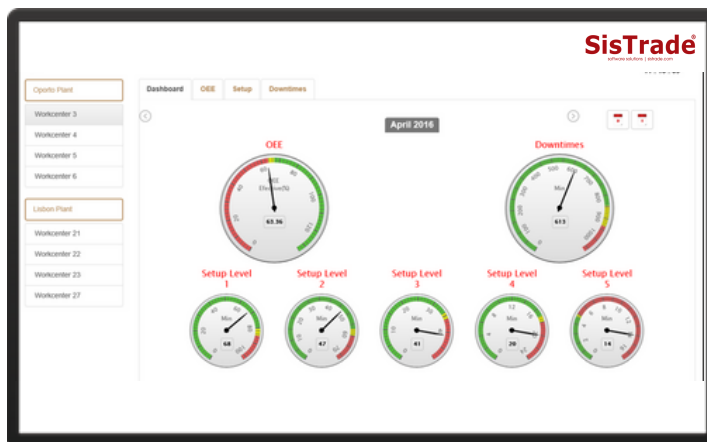
VISUAL MANAGEMENT BOARD

Industrial Performance

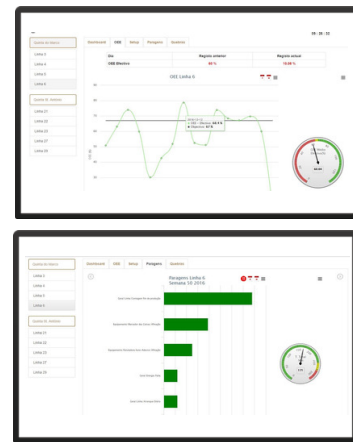
PRODUCTION EFFICIENCY

KAIZEN DASHBOARD

- Interactive Dashboards
- Touch screen to support Kaizen meetings



DASHBOARDS IN REAL TIME



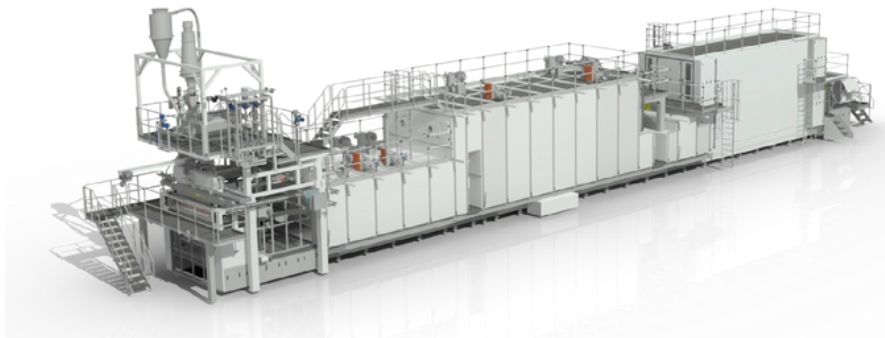
DOWNTIMES, OEE

DIRECT ALARM

- Alarm system for deviations on manufacturing stages

SOUND

VISUAL



Efficiency of setup operations
Availability of machines