

Situational Awareness

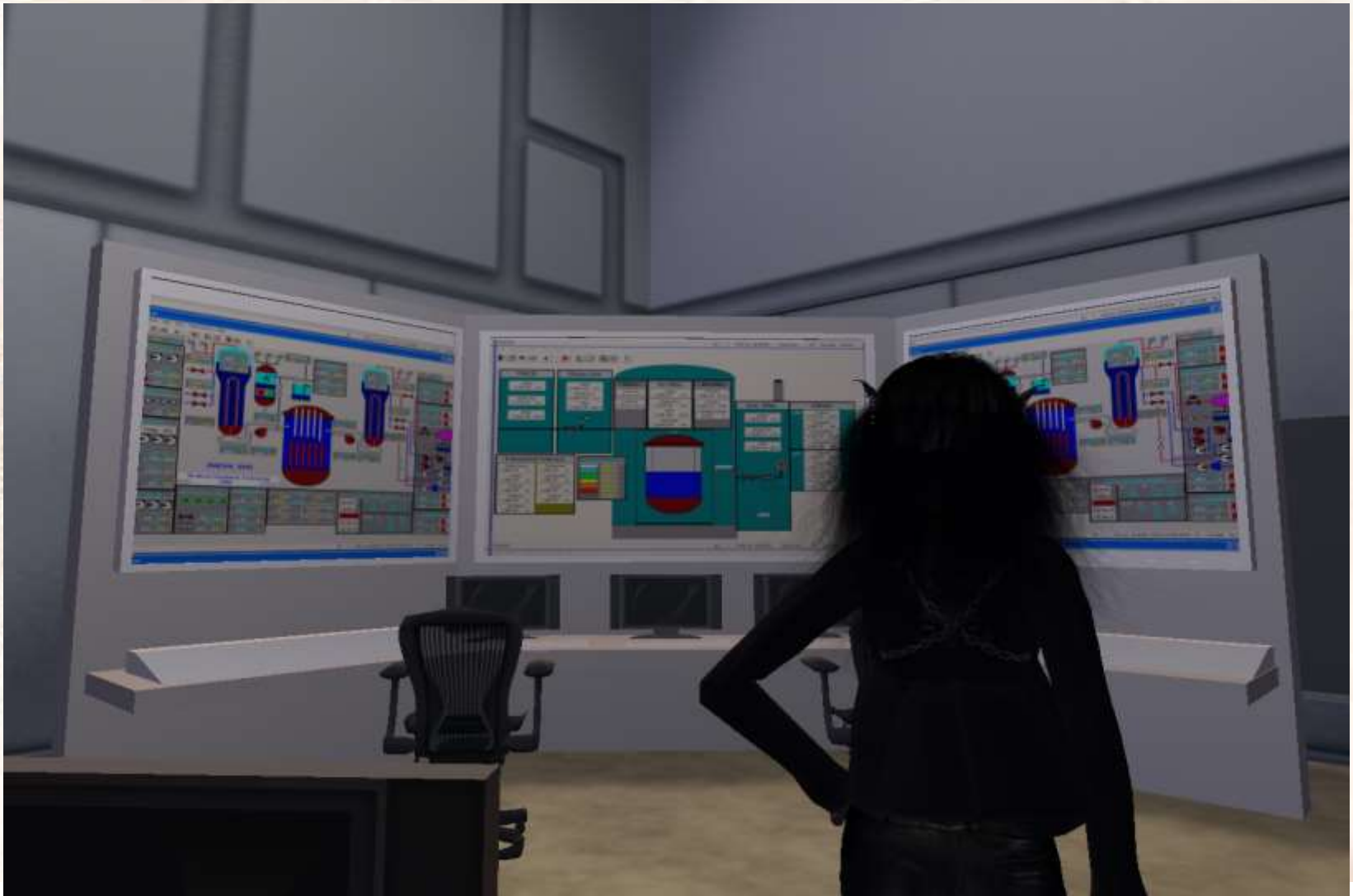


GAME
CHANGER

Michele Vario
OEM Sales Manager
Wonderware Italia



Wonderware



Obiettivo



Evoluzione

Dal 1970 ad oggi.....



Situational
Awareness

1970's

1980's

1990's

2000's

2010's

Steering Committee



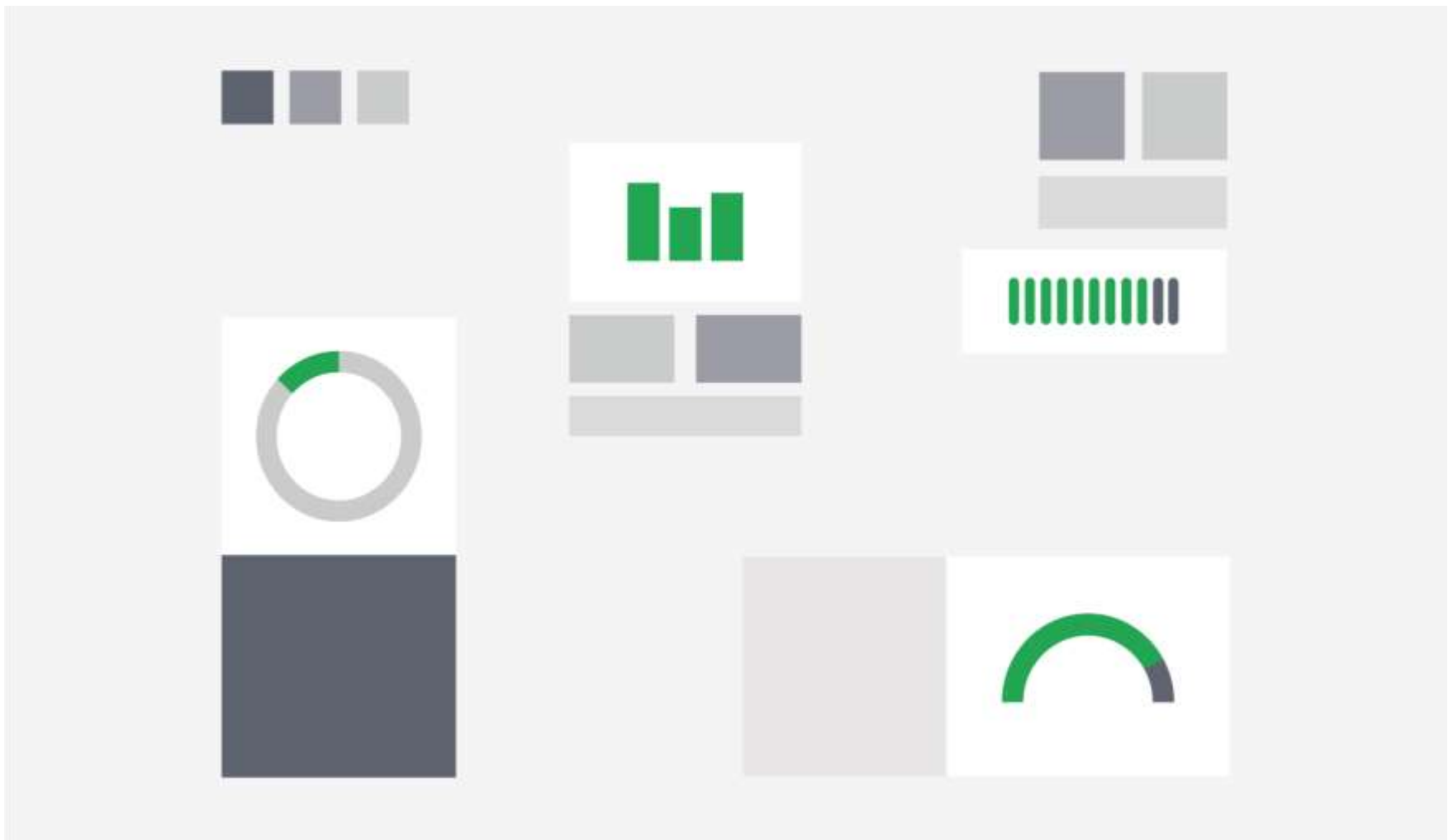
Risultato?

Risultato

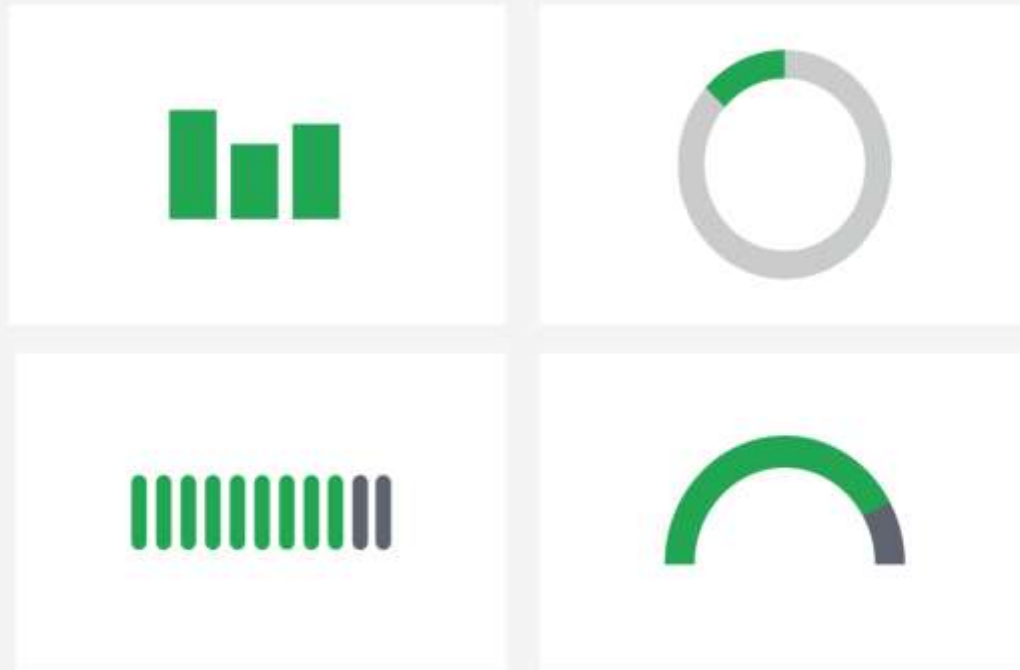








Rimuovere parte delle distrazioni in modo da limitare i dati alle informazioni



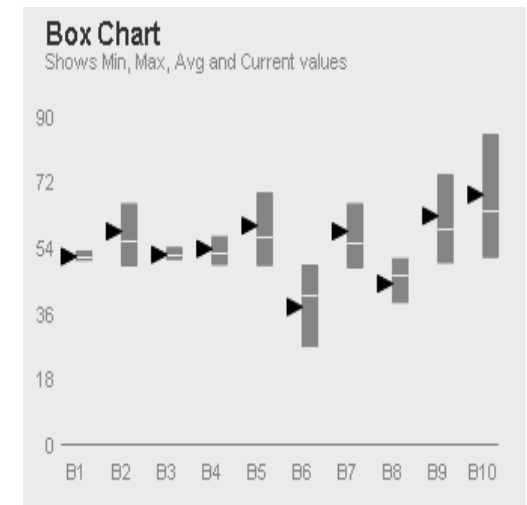
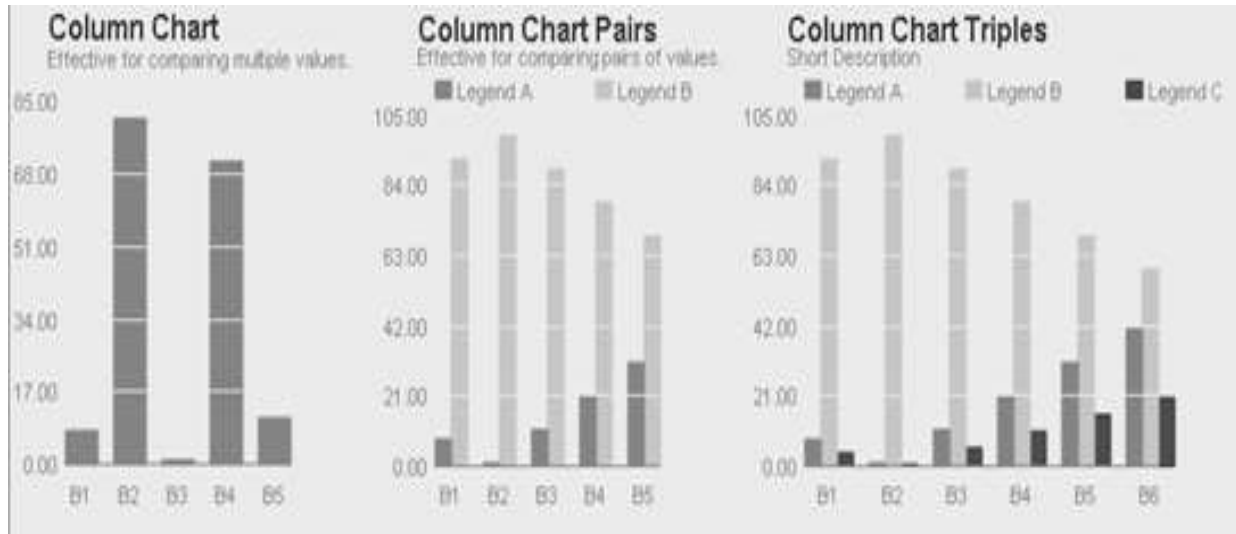
utilizzare l'interfaccia utente al meglio per descrivere le informazioni e aumentare la semplicità di interazione



l'obiettivo di mettere l'utente al centro delle informazioni e delle azioni associate al ruolo stesso dell'operatore.



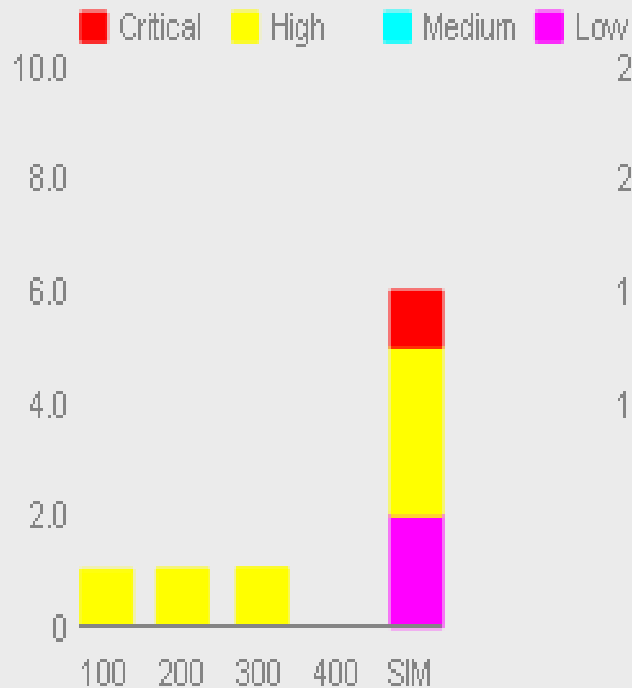
Comparison



Composition

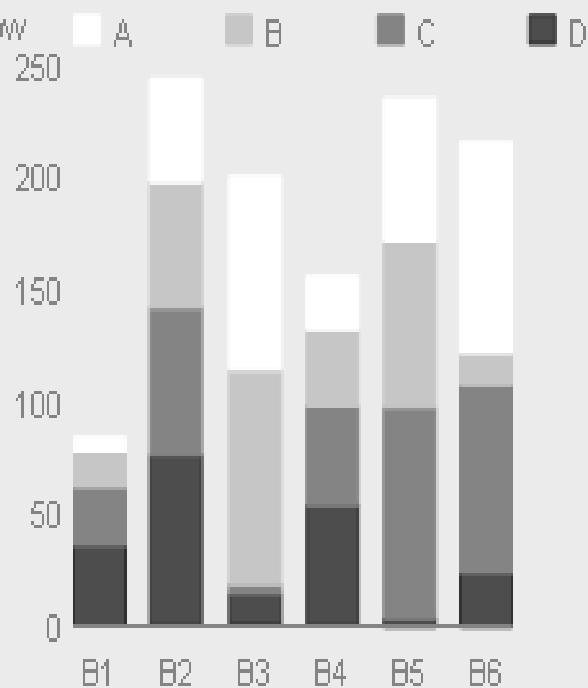
Alarm Distribution

Number of Alarms by Area and Severity



Stacked Column Chart

Communicates composition

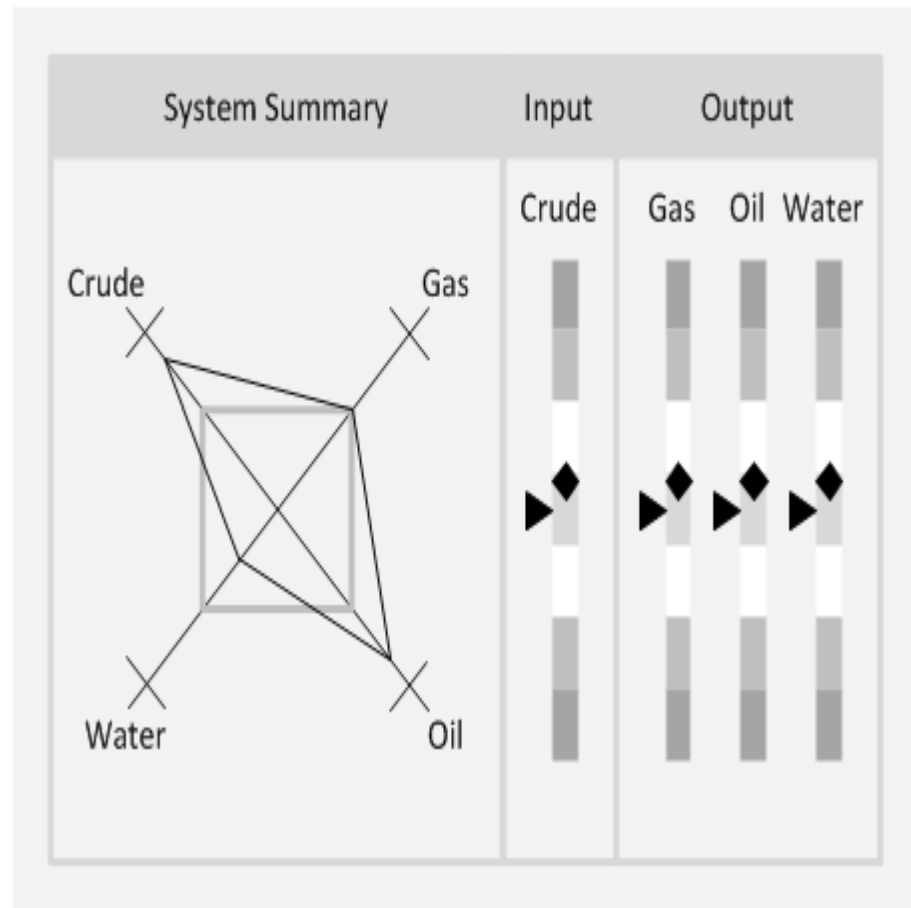
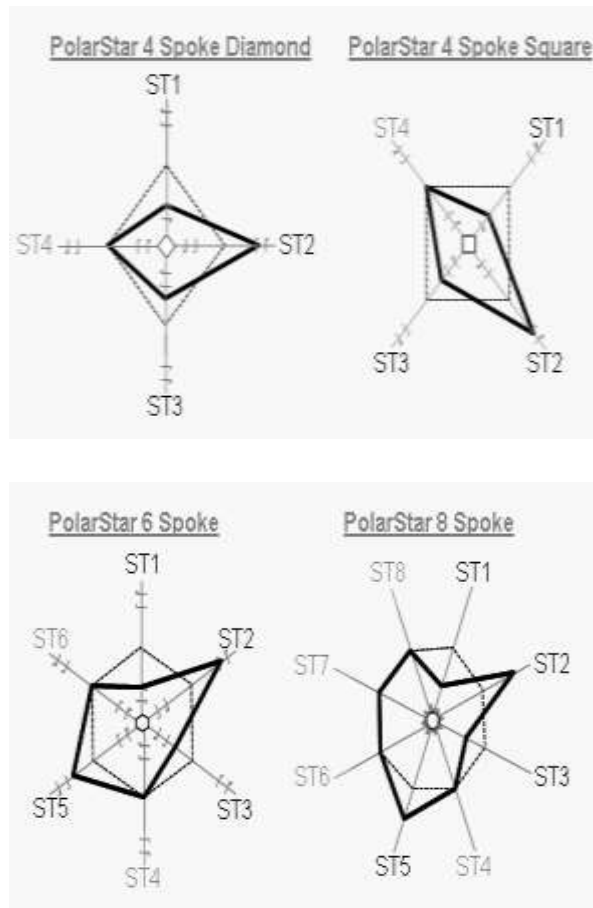


Pie Chart

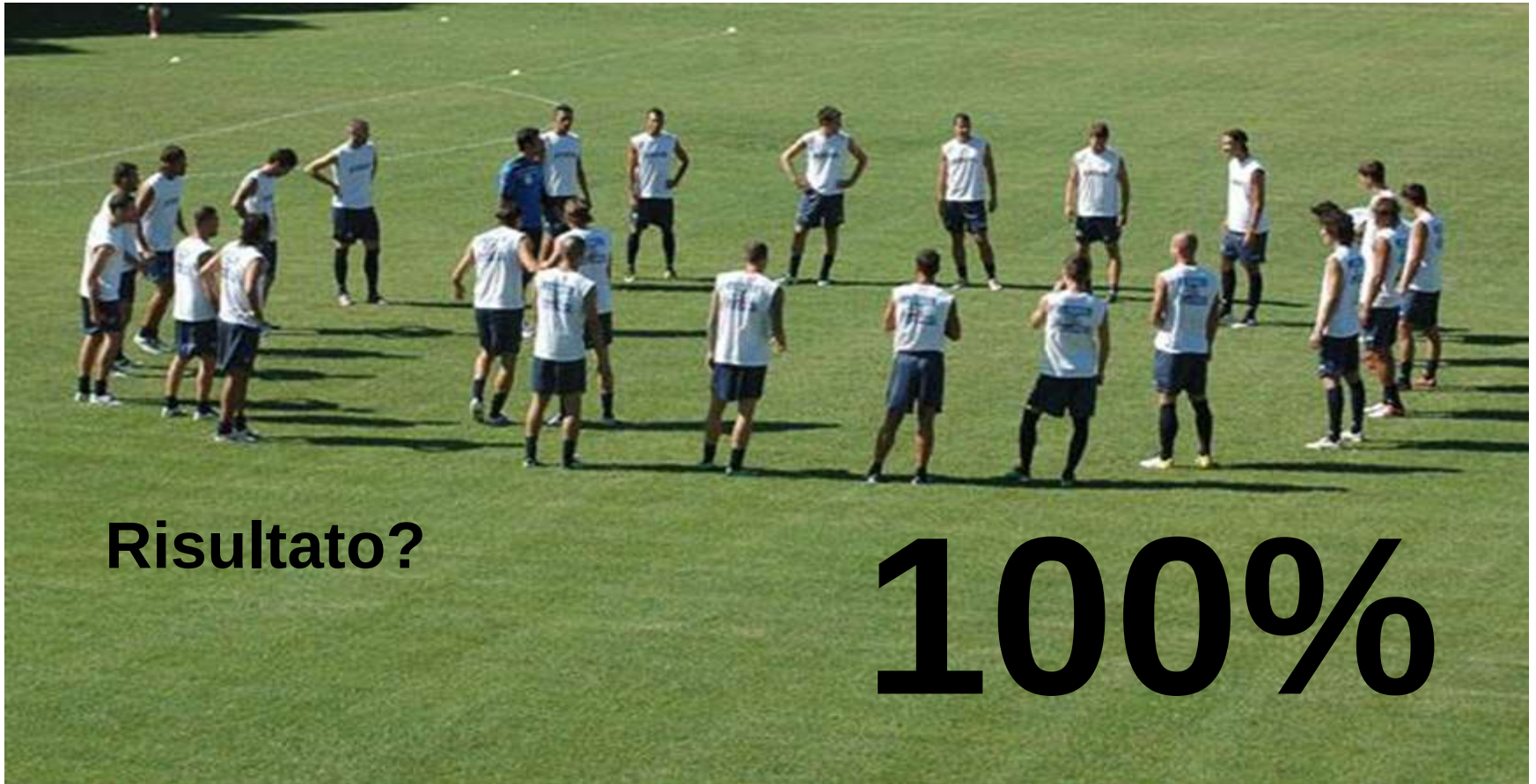
Useful for showing composition.



Deviation From Target



Steering Committee



Benefits

Task	Con grafica tradizionale	Con grafica Situational Awareness
Rilevare situazioni anomale prima che si verifichino allarmi	10% del tempo	Migliore di 5 volte
Percentuale di successo nella gestione di situazione anomala	70%	96%
Tempo per normalizzare l'anomalia	18.1 min	10.6 min 41% riduzione

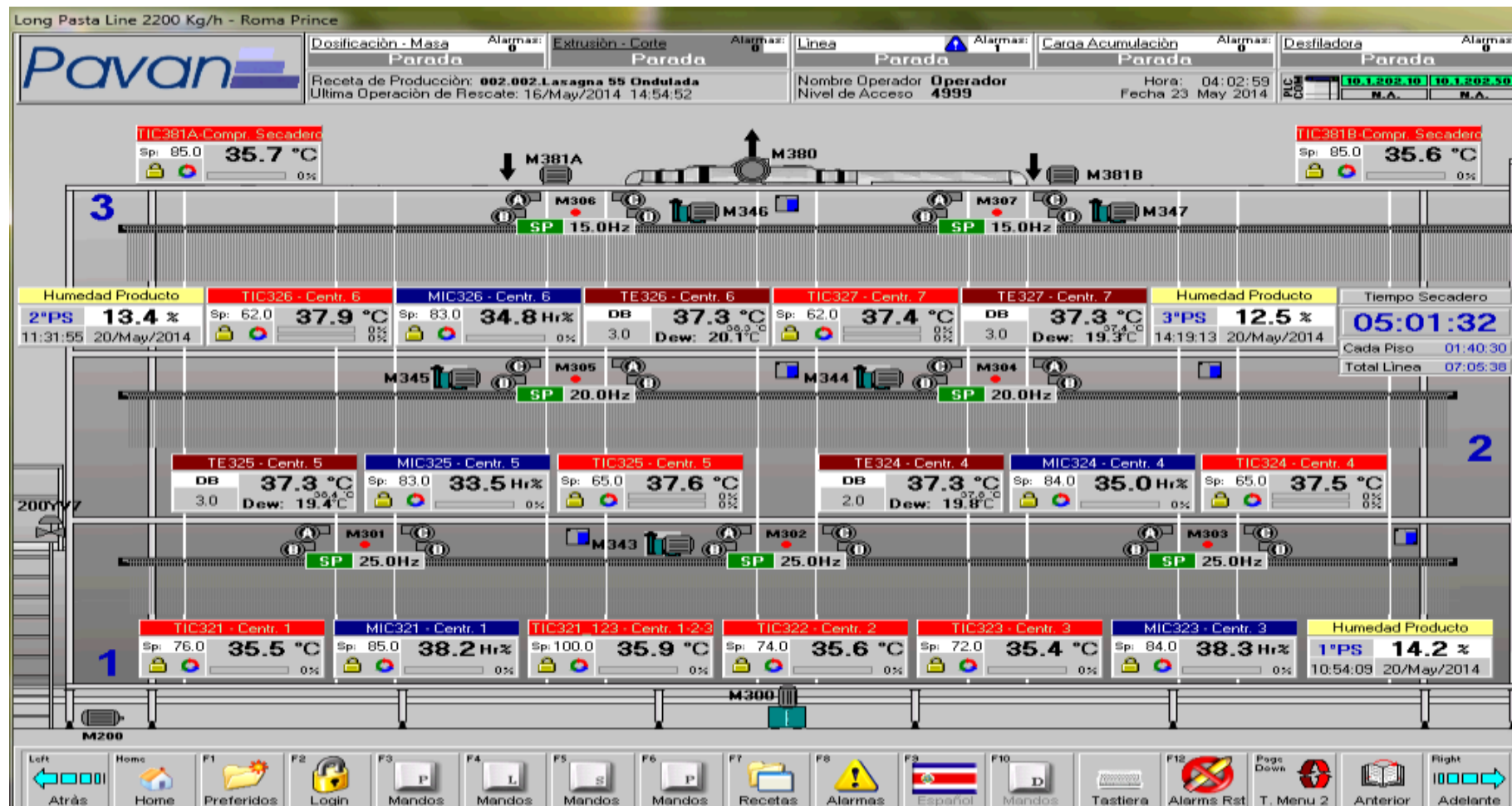
Dagli spogliatoi al campo...

- User Experience UX
- Risorse interne
- Risorse esterne
- Budget



Pavan

Pavan è uno tra i leader mondiali per la costruzione di linee per la produzione di pasta secca lunga e corta.



Fischio d'inizio

- User Experience UX ●NO
- Risorse interne ●NO
- Risorse esterne ●NO
- Budget ●NO

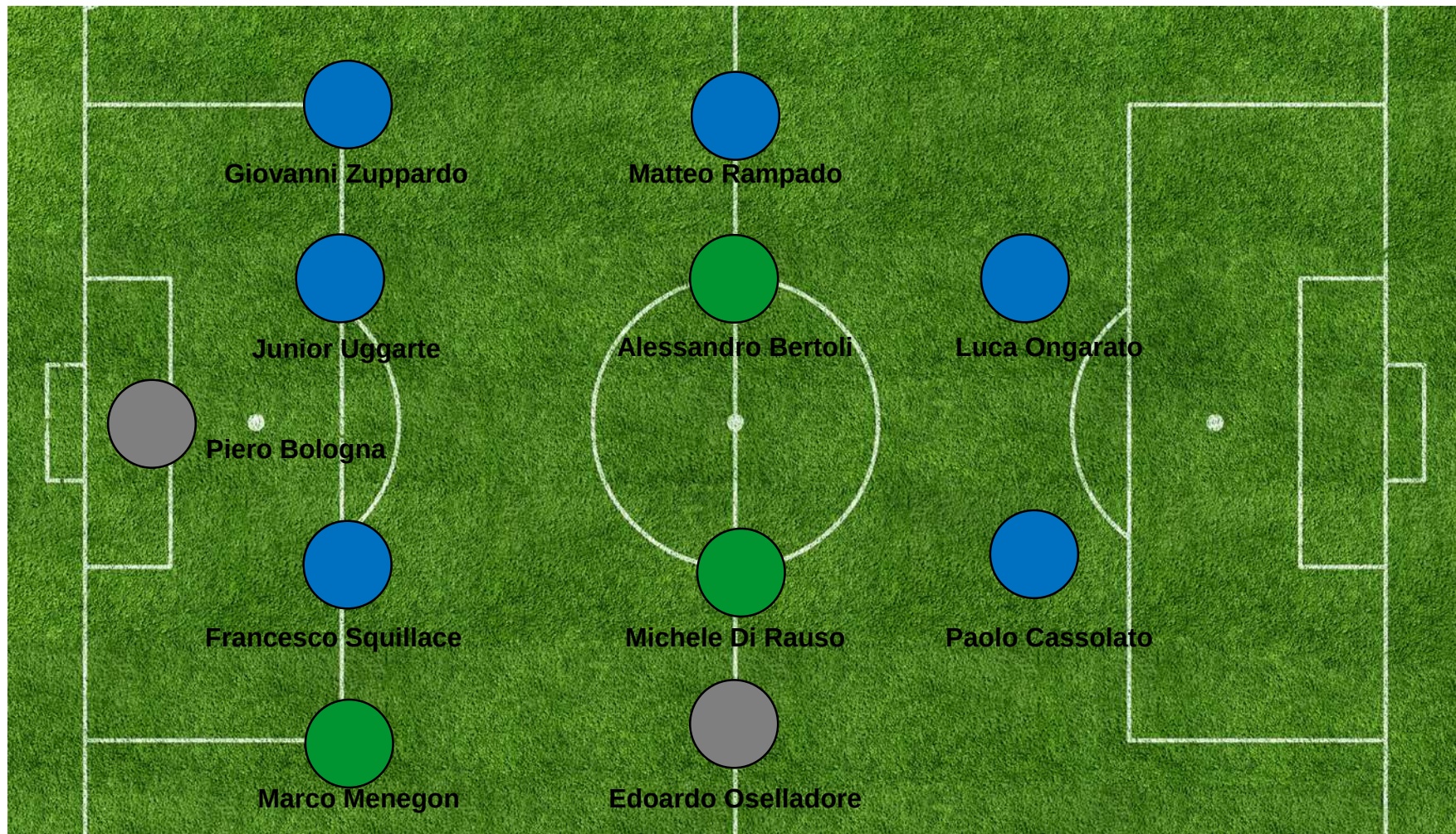


Europa

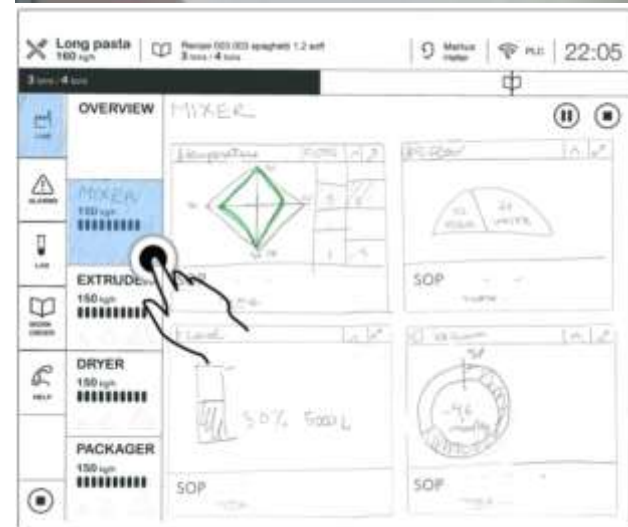
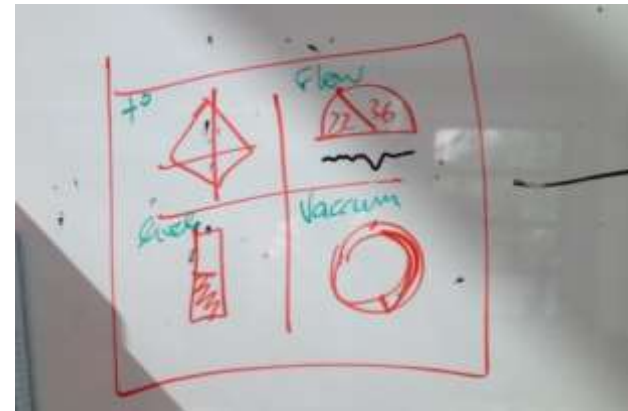
- Progetto
- 4 neo laureati
- Training
- Utilizzo di risorse esterne



La formazione



La partita



 **Long pasta**
160 kg/h



Recipe 003.003.spaghetti 1,2 soft
Estimated time of completion **02:36**



Markus
Heller



PLC

00:05



LINE

OVERVIEW

150 kg/h



ALARMS



WORK
ORDER



LAB



HELP

MIXER

140 kg/h



EXTRUDER

155 kg/h



DRYER

155 kg/h



PACKAGER

145 kg/h



OVERVIEW in production



Speed meters/ hour



359 m/h



SOP 1/ check for fallen pasta on the line...



Alarm managment %



12/30

resolved alarms



Quality % of positive lab results



12,5 %
AVERAGE

12,5 %
GOOD



SOP 1/ check for fallen pasta on the line...



Energy consumption kWh

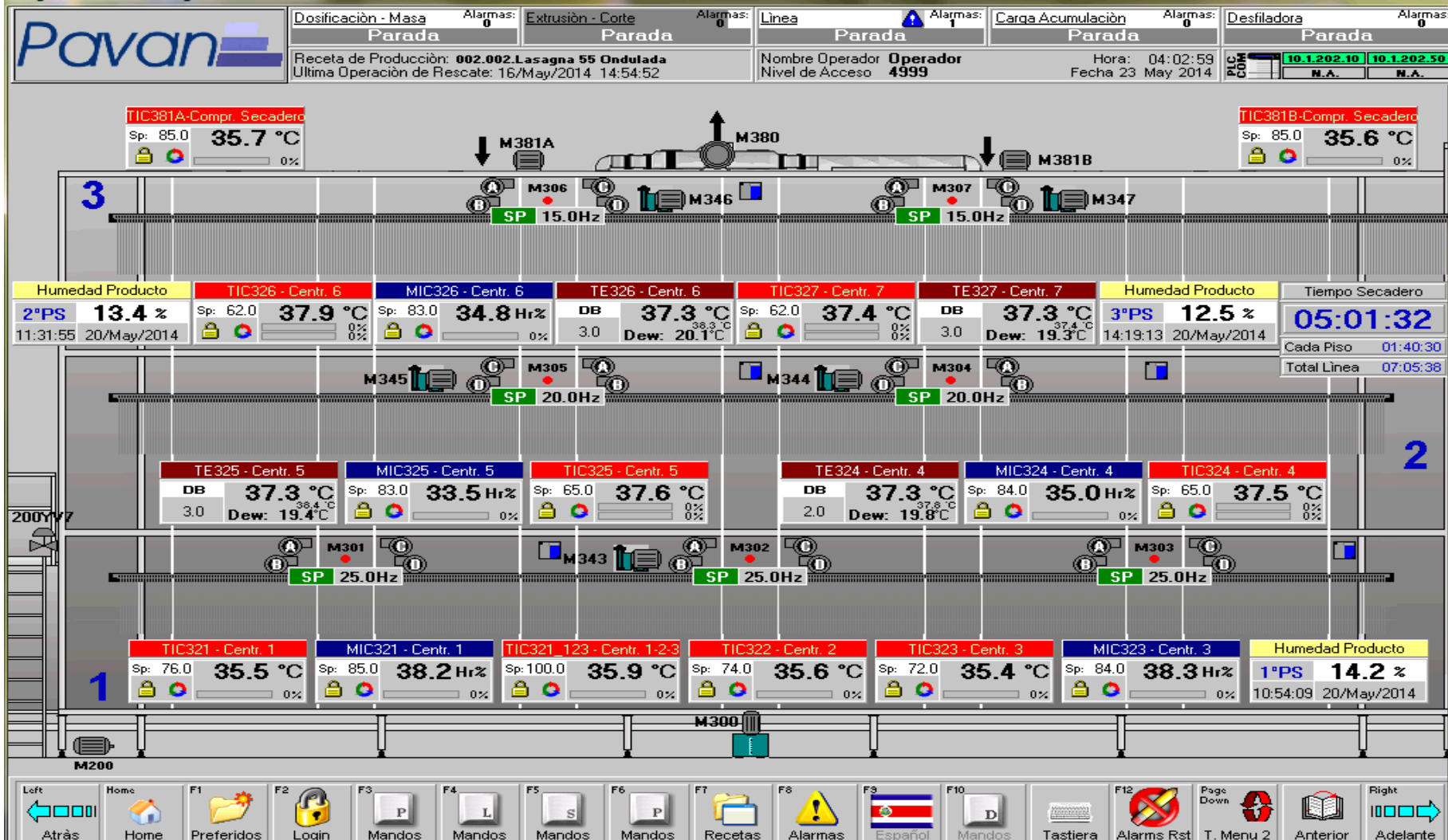


125 kWh



SOP 1/ check for fallen pasta on the line...

Long Pasta Line 2200 Kg/h - Roma Prince



Triplice fischio

- SA è Trend Setter
- SA non è solo una libreria di simboli
- SA è GAME CHANGER





Thank you!