

# Delta IABG Solution for Building Eco-Management

Pere Roura / Dec 8<sup>th</sup> 2015





## Problem definition

Market leader fashion retail company had committed to ensure that 100% of its 6.600 stores will be eco-efficient by 2020, enabling it to reduce CO2 emissions by 30% by 2020.

Based in this challenge a group of companies start to collaborate 5 years ago to find the way fulfil this requirement.



# Delta IABG Solution

## Companies Involved

Market leader fashion retail  
companies



ZARA



PURIFICACION GARCIA

Massimo Dutti

Bershka

Stradivarius

MANGO



Ecomanagment  
Technology company  
located in Spain.  
Specialized on help  
their customers to  
save energy trough  
hardware and software  
solution.



Main Delta IABG  
distributor in Iberia for  
more than 10 years.



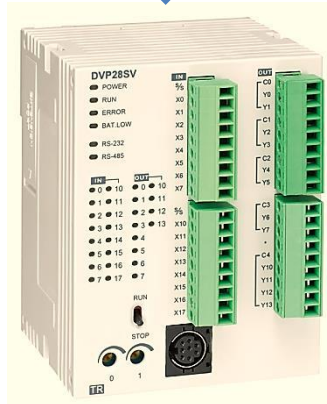


# Delta IABG Solution



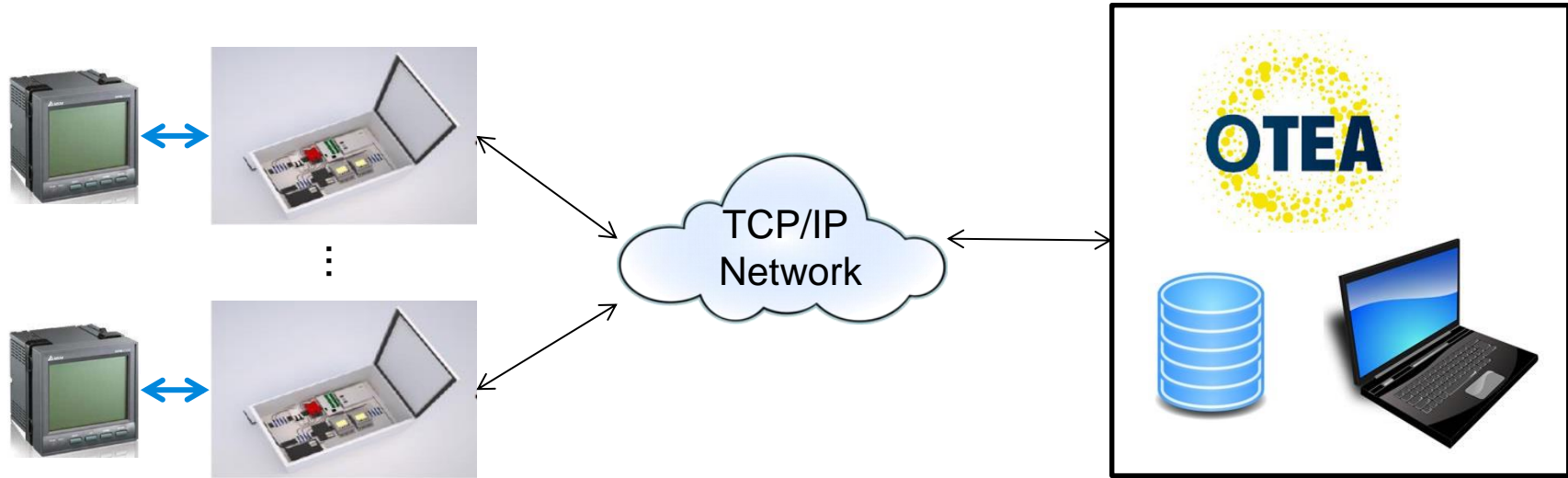
## Ethernet Module

Monitor and control by OTEA platform



# Delta IABG Solution





## Control Cabinet

- Climate control (HVAC)
- Light control
- Power consumption monitoring
- Water & Gas monitoring

## OTEA Application

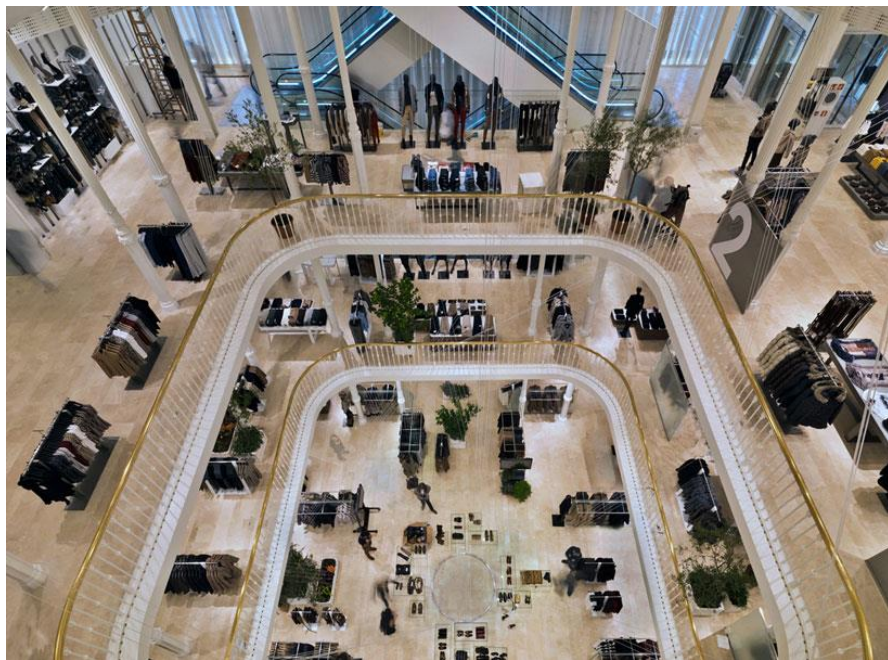
- Remote supervision and control.
  - ISO 50001
  - European directive 2012/27
- Data base management
  - ERP, Excel, GMAO, CAFM



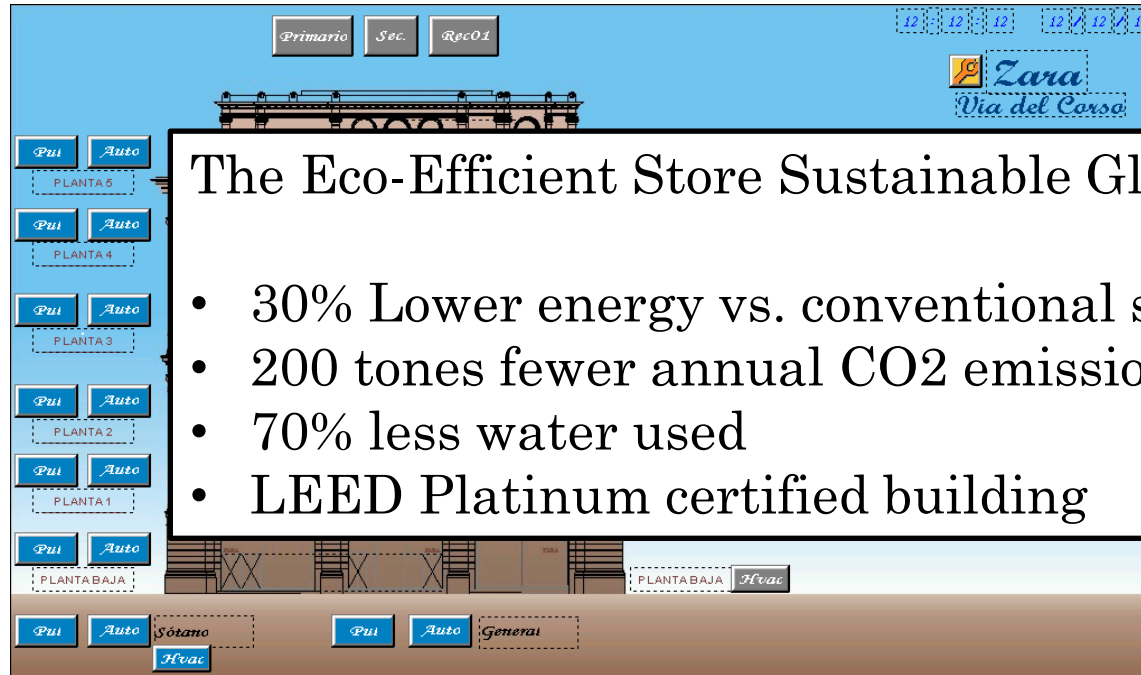


# Delta IABG Solution

Application example: Flag ship eco-store in Rome



Application example: Flag ship eco-store in Rome (December 2010)



## The Eco-Efficient Store Sustainable Global Model

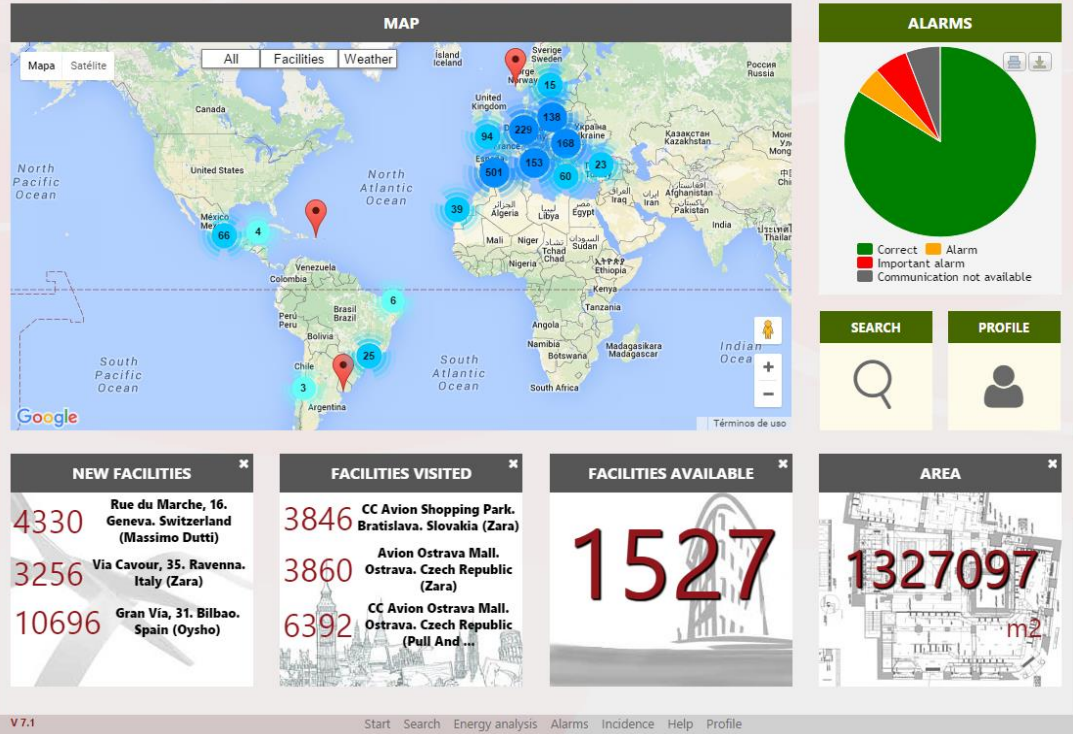
- 30% Lower energy vs. conventional shop
- 200 tones fewer annual CO2 emissions
- 70% less water used
- LEED Platinum certified building

- 6 floors to be controlled
- Over 20000 m2 of store
- s 5000m2 of
- (analog, temperature).
- Interconnected
- bus TCP/IP



# Otea Solution (by Ecomt)

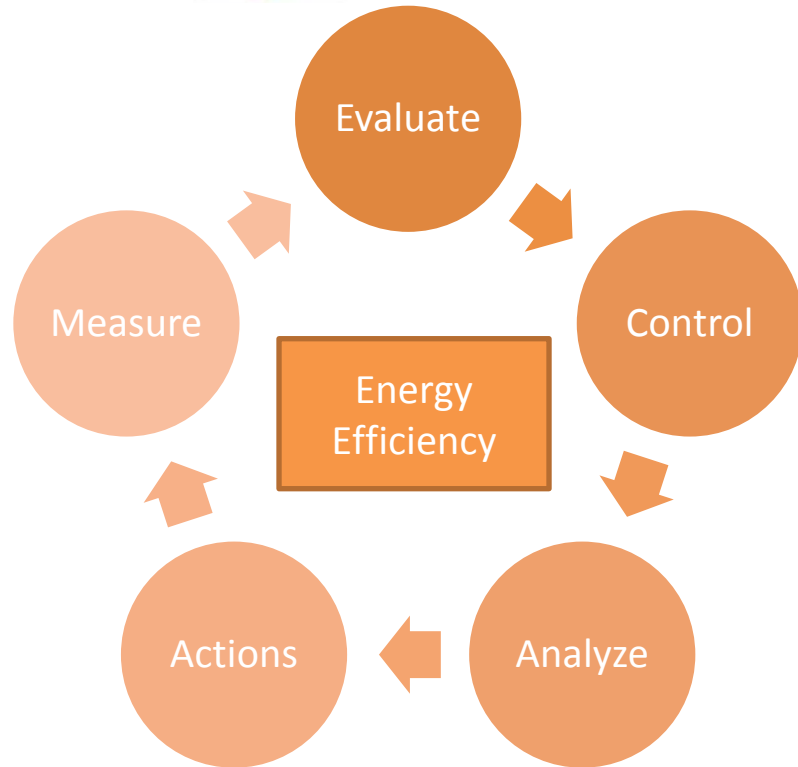
## ENERGY EFFICIENCY PLATFORM



### Otea controls and monitors (Jan2015)

- ✓ more than 1.500 facilities connected
  - ✓ more than 112.000 KWe
  - ✓ more than 1.100.000 m2
  - ✓ Systems spread over 400 different cities, over 36 countries.
- 
- ✓ more than 14.500 HVAC machine.
  - ✓ more than 2900 power meter.
  - ✓ and 352.000 simultaneous variable monitoring.

# Otea Solution (by Ecomt)



After 4 years of collecting data, OTEA solution is able to use Big-Data to find patterns that helps to forecast potential waste of energy.

OTEA solution is bidirectional  
Monitoring + Action taker  
Industry applied demonstration of IoT

Using this system together with some focused actions, OTEA can save around 2.000 €/y by store.



# Conclusions

After 5 years of collaboration  
we automatized 1.500 stores

In the next 5 years we expect  
to implement this system on  
5.000 store more.



Become main reference world wide for sustainable eco-management  
building automation applications.

# Smarter. Greener. Together.

To learn more about Delta, please visit [www.deltaww.com](http://www.deltaww.com).

