# **Smarter and Greener:**

**Delta LED Lighting Solution** 

Frederique Le Houedec LED Lighting Solution Delta Electronics EMEA Dec. 8th, 2015

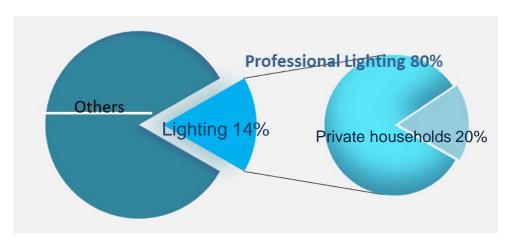






# Light to us

### Electrical energy consumption in EUROPE: percentage per year



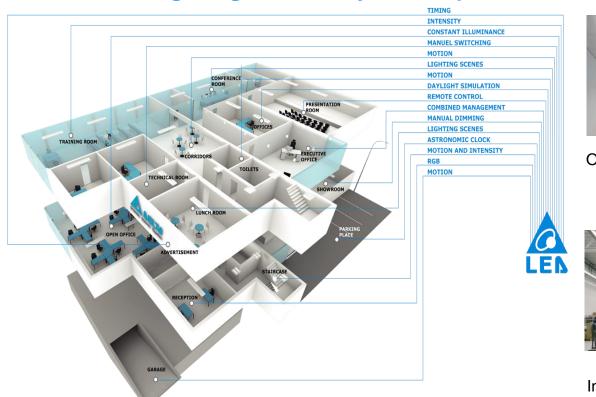


Lighting represents almost **14 percent** of global electricity consumption according to the International Energy Agency. The future development of society in both developed countries and emerging economies around the world are intimately tied up with the ability to effectively light our cities, workplaces, homes, schools and recreation areas.



# **Delta LED Lighting Solution**

### Delta LED lighting can offer you complete solution for different applications





Office Application



Streetlight application



**Industrial Application** 



Shop & Retail application





# **Office Application**



• Brightness:

Stimulating light level for the task and activity

• Glare:

Proper glare-free lighting and good modelling.

Conformity

Motivating visual environment over working time

Flexibility & Individualization

Controlling the light intelligently and individually



# Office Application – Delta solution







### Delta office solution

### LED luminaire





### **LED Control**





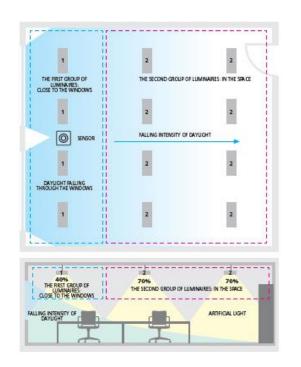




- Variety of options for different outlook preference
- DALI and integrated building management system
- Low glare offering (UGR<16)</li>
- Very high efficiency (120lm/w)
- Modular design
- Long life time L80 50,000 hours



# **Intelligent control example - Office**









# **Industrial Application**



• Brightness:

Appropriate illuminance and uniformity at the visual task

Glare and Color Rendering:

Supporting contrast and colour rendering with the right adjustment.

Productivity

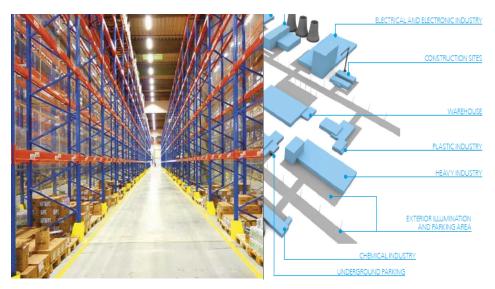
Optimizing the right color and light distribution

• Flexibility for different tasks

Intelligent control for the production layout changes



# Industrial Application – Delta solution









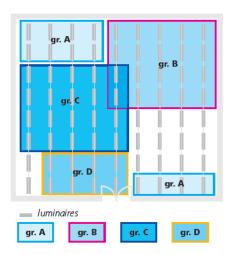
# Delta Industrial solution LED luminaire LED Control

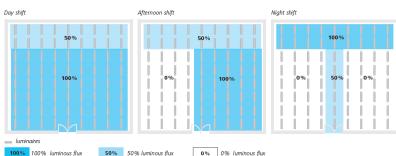
- · Variety of options for different high of ceiling
- DALI and integrated building management system
- Very high efficiency (130lm/w)
- Different optics for the better light distribution
- Very long life time L80 100,000 hours



# Intelligent control example - Industrial











# **Streetlight Application**



### Brightness:

Appropriate illuminance and luminance creates comfortable road environment

### Visualization:

Lighting heightens the visual impact of architecture and grabs attention

### Safety

Well lit streets and parks improve safety and orientation

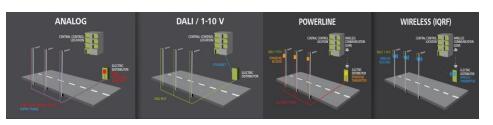
### Intelligent

Innovative luminaires and lighting management reduce the Energy consomption and maintenance



# **Streetlight Application – Delta solution**





### Delta streetlight solution

### LED luminaire



### **LED Control**



- Intelligent Telemanagement communication
- Tool free maintenance
- Very high efficiency ( up to 140lm/w)
- Different optics for the better light distribution
- Very long life time L80 100,000 hours



# Intelligent control example - Streetlight

### **Telemanagement**

Communicate with your lighting system from a remote location.

You can also monitor in real time important information such as energy consumption, light source lifecycles and luminaire failures.



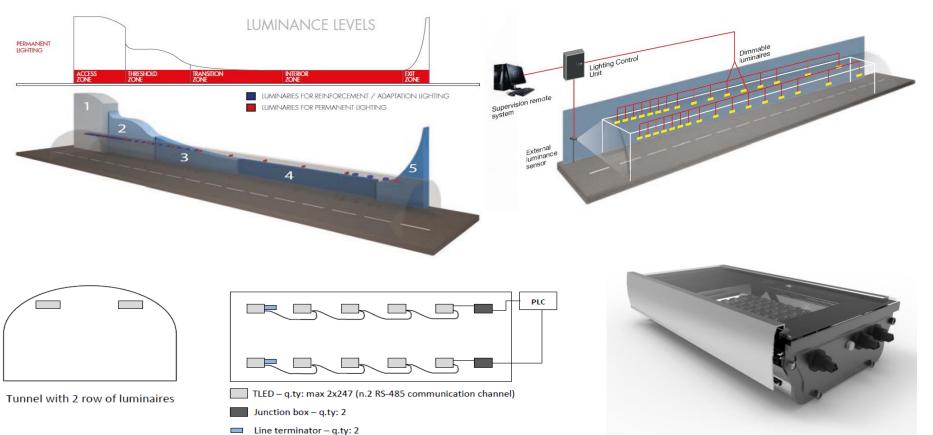


# Intelligent control example - Streetlight





# Intelligent control example - Tunnel





# **Shop & Retail Application**





### • Atmosphere:

Appropriate atmosphere for the type of shop and goods

### • Emotion:

Light level, colour rendering, and direction of light to ease the choice.

### Guidance:

Guidance through lighting to the areas that you want customers to stay

• Flexibility for different tasks:

Intelligent control for the goods layout changes

# **MELTA** Shop & Retail Application – Delta solution







# **Delta Industrial solution** LED luminaire **LED Control**

- Variety of options for different high of ceiling
- DALI and integrated building management system
- Very high efficiency (130lm/w)
- Different optics for the better light distribution
- Very long life time L80 100,000 hours



# **Delta LED lighting solution**

### 1. Portfolio

Broad scope containing both products & control solutions



Present in most of the central European countries

# Delta EMEA LED business

### 3. Logistics & Supply chain

Two central logistics Centre (NL & SL); Customer service center & Hubs in major European countries

### 4. Customer Service

Central competence & Customer service center in NL

5. Technology





# **Project offering**





# **Summary**

- Delta can offer you complete product portfolio in strategic applications.
- Delta provides you strong project support including find the right product,
   lighting design & calculation, spec verification...etc.
- Efficient marketing exposure & sales package.
- Improved product availability to support you on the short lead time delivery
- Quick product development





# Smarter. Greener. Together.

