



NERI

Paolo Peruzzini
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«NERI Smart System»
sistema per la gestione della pubblica illuminazione

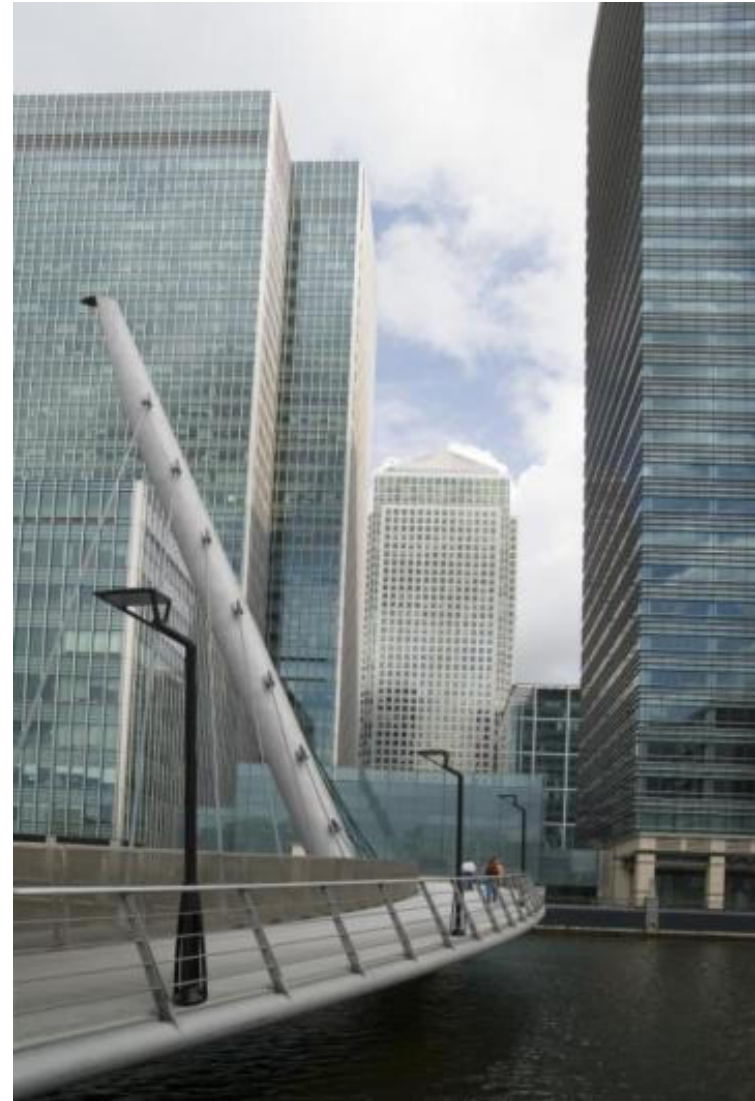
“Ridurre i costi energetici in azienda: dagli scenari ai meccanismi di incentivazione”



Workshop



City

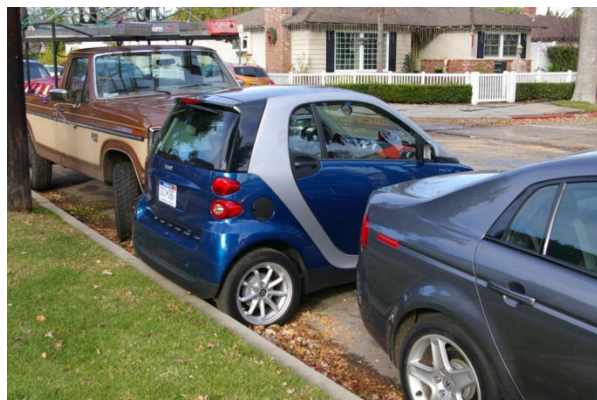


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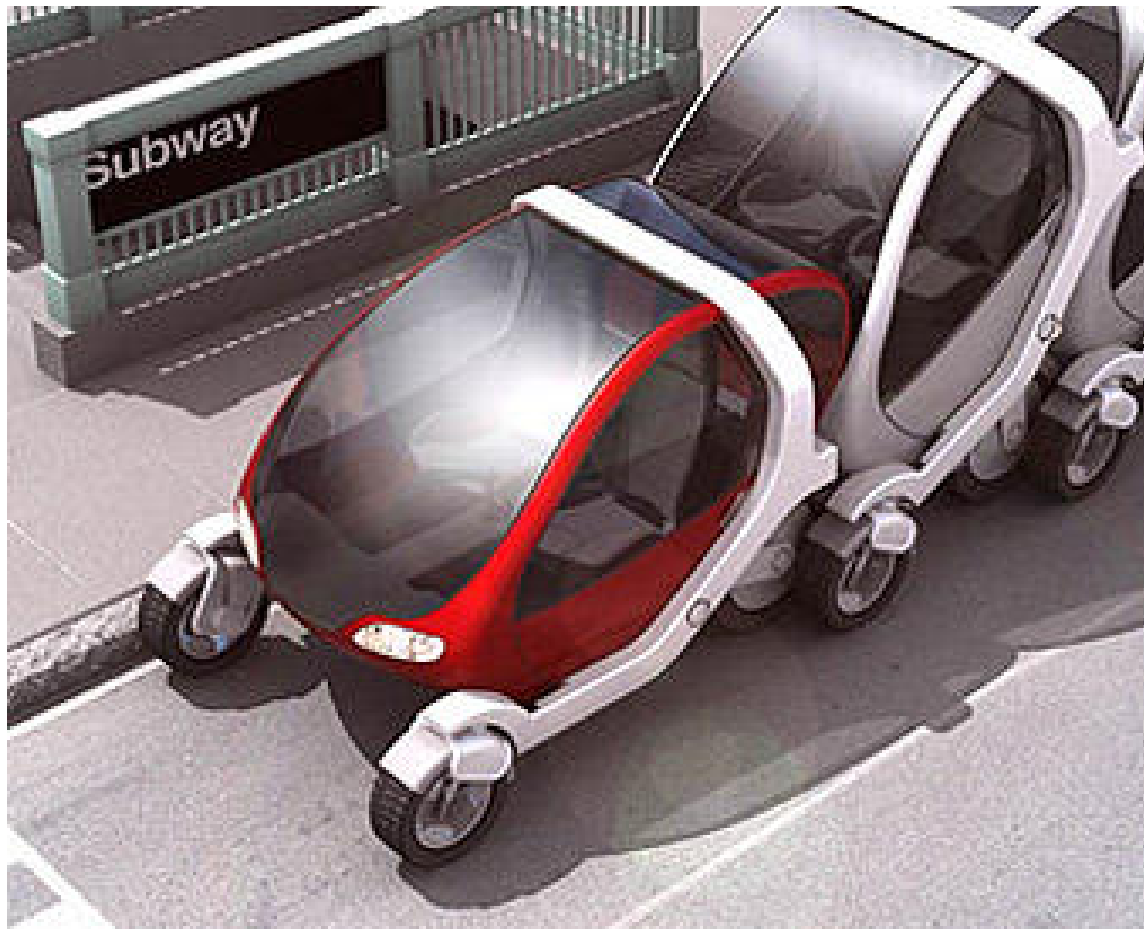
Styles



1930



2010



20??

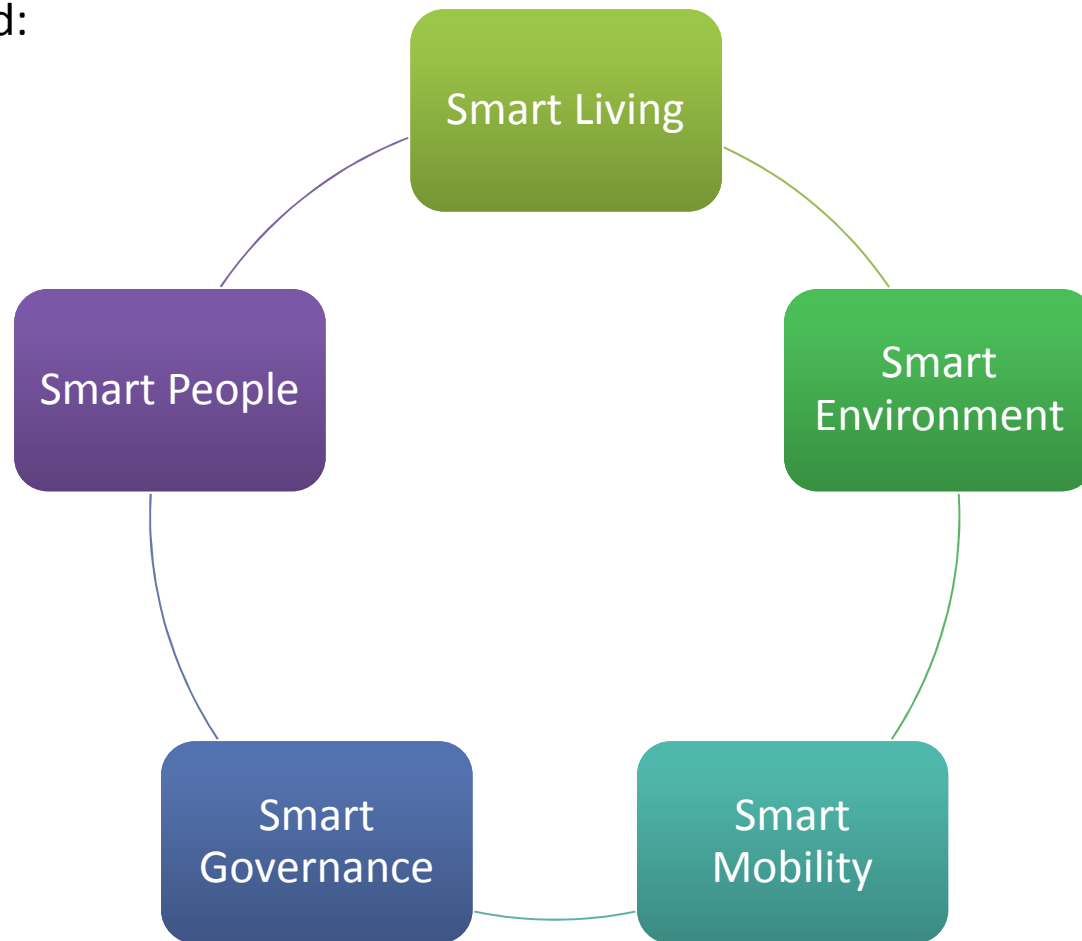


“Ridurre i costi energetici in azienda: dagli scenari ai meccanismi di incentivazione”

Smart City

Different aspect can be linked:

- Persons
- Fixtures
- Needs



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Smart City – clever, cunning, quick

Indoor and Outdoor will have the same needs.

Same utilities born for indoor are coming in outdoor.

Lighting needs a system of poles, cables, ...

Infrastructure

It's time to take advantages from this infrastructure for other options:

- Optimize costs
- To be invisible
- Dislocated points of sensors and measurements

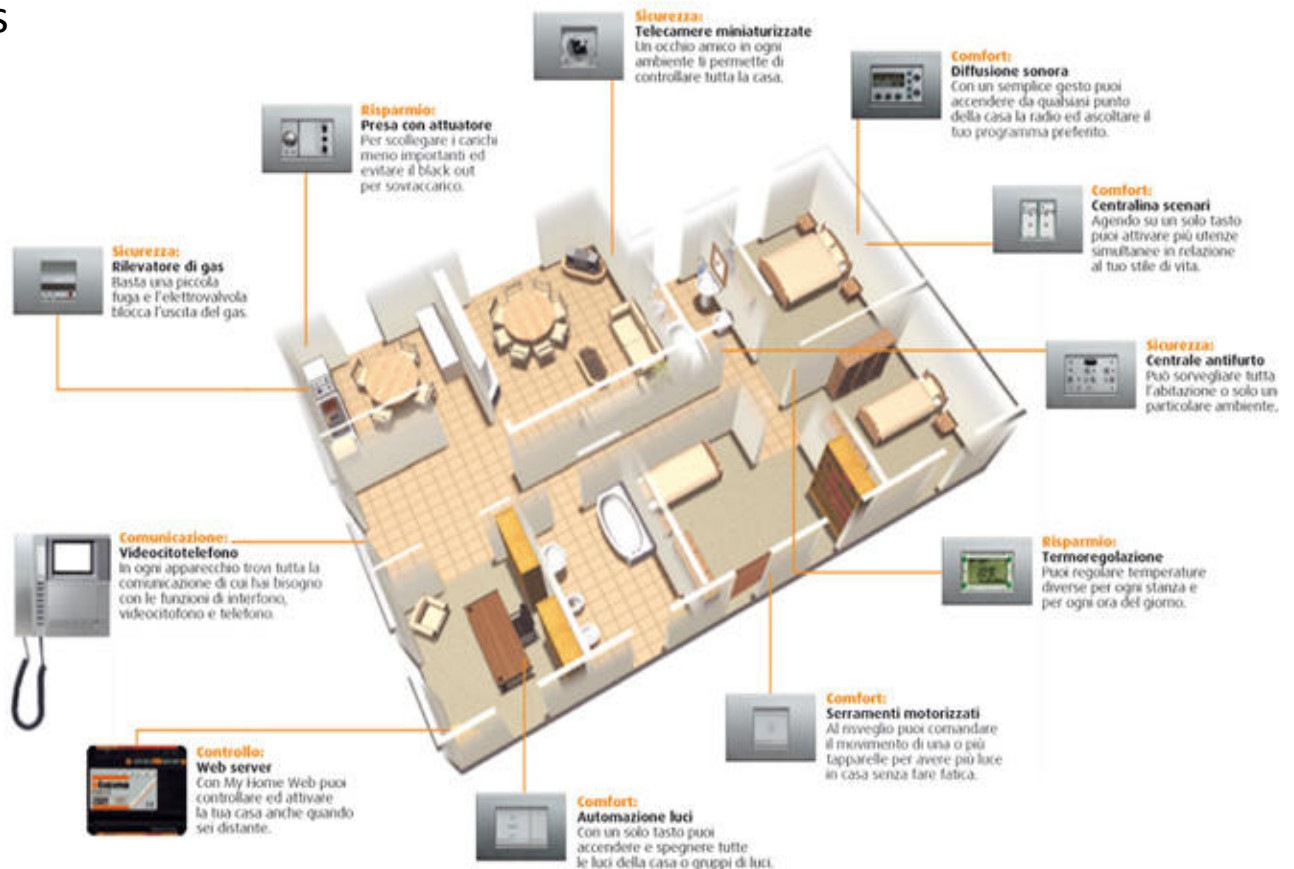


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Smart City

As at home:

- Presence sensor
- Sound sensor
- Integrated Video Cameras
- Sound diffusion
- Tele management
- Smart Grid integration
- CO2 Sensor



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Smart City

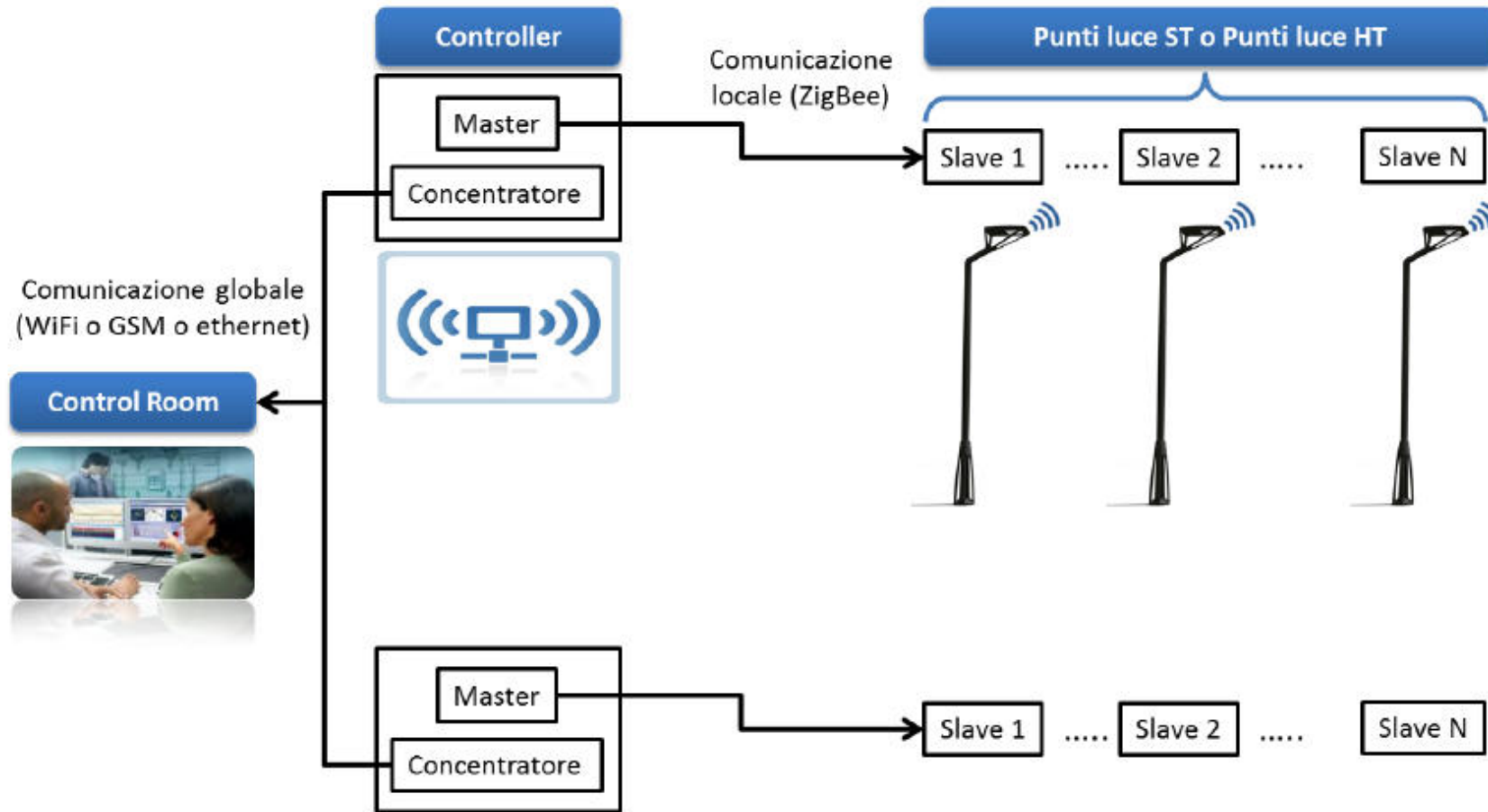
In lighting we will have:

- Wireless Communication
- Sensor Networks
- Intelligent Drivers
- Smart Interfaces
- Energy Saving
- Energy Harvesting
- Renewable Energy
- Monitoring and Controlling
- Safety and video surveillance



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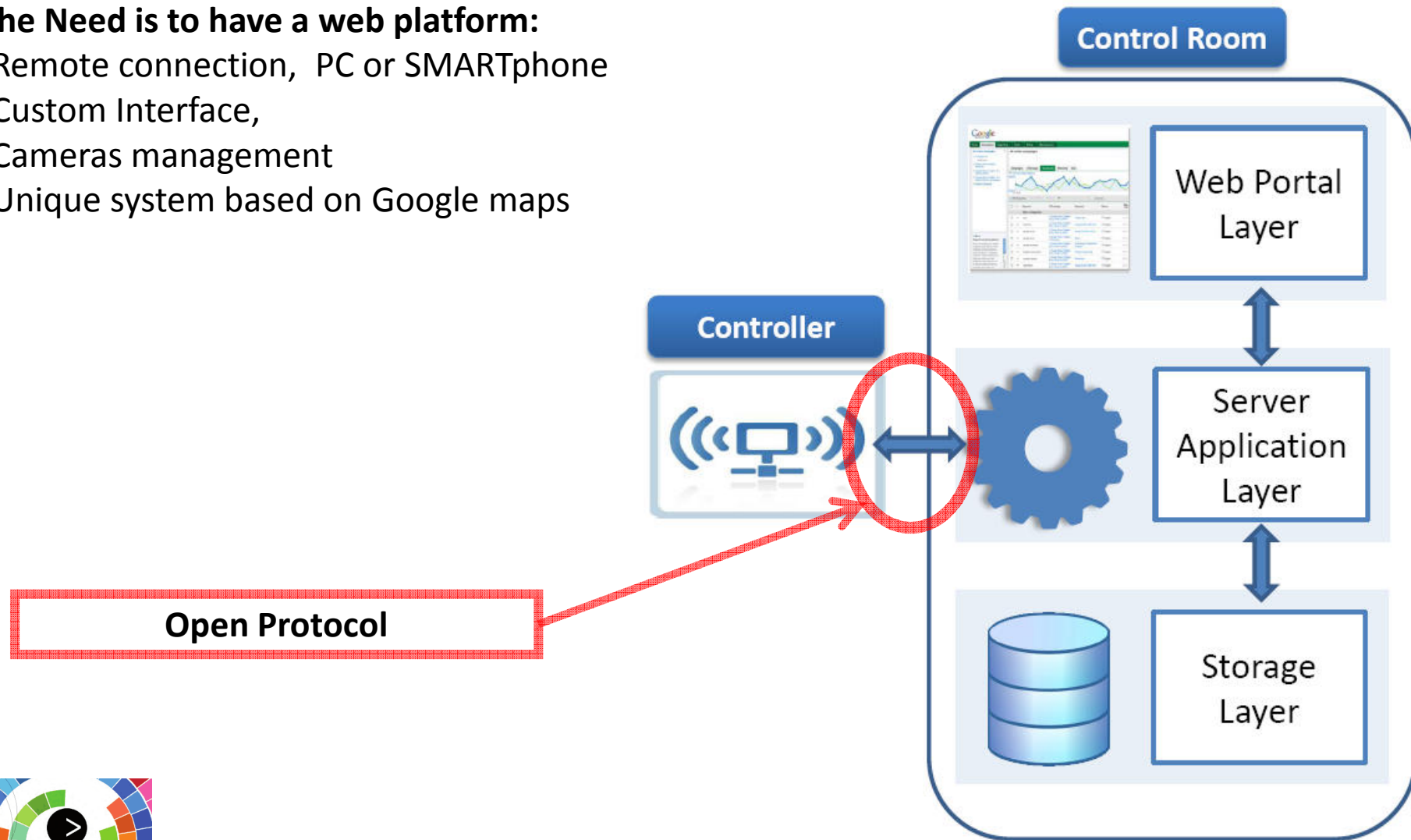


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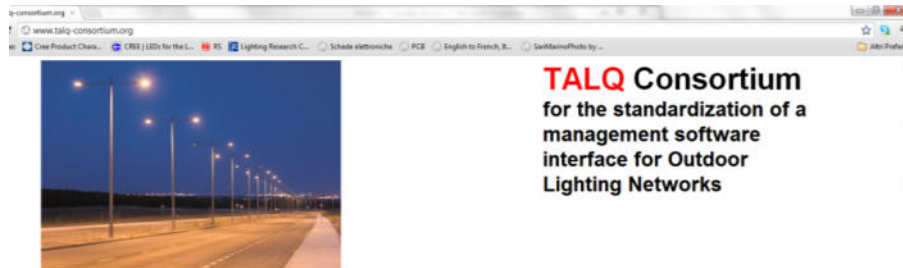
The Need is to have a web platform:

- Remote connection, PC or SMARTphone
- Custom Interface,
- Cameras management
- Unique system based on Google maps



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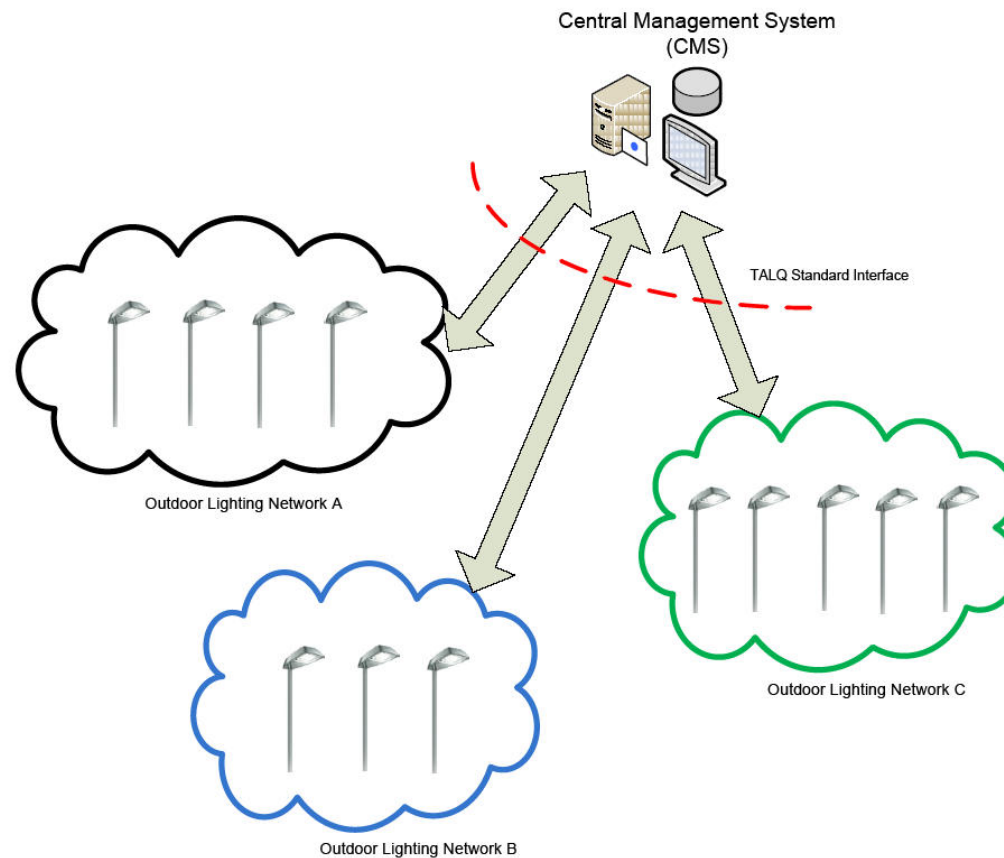
Welcome to the preliminary website of the **TALQ Consortium** !

[Press release](#)

June 26, 2012

New consortium to drive standardization of a management software interface for managing outdoor lighting networks

Global initiative - The formation of a new global consortium made up from lighting industry players, with the aim of creating a globally accepted standard for a management software interface for outdoor lighting networks has been announced today. Named TALQ, the founders/participants are Harvard Engineering, Kingsun, Philips, Schneider, Streetlight Vision and Thorn/Zumtobel.



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Cameras IP65 ed IP net

- High resolution cameras
- Images managed on light point
- LAN link to the global communication
- Fish-eye optics



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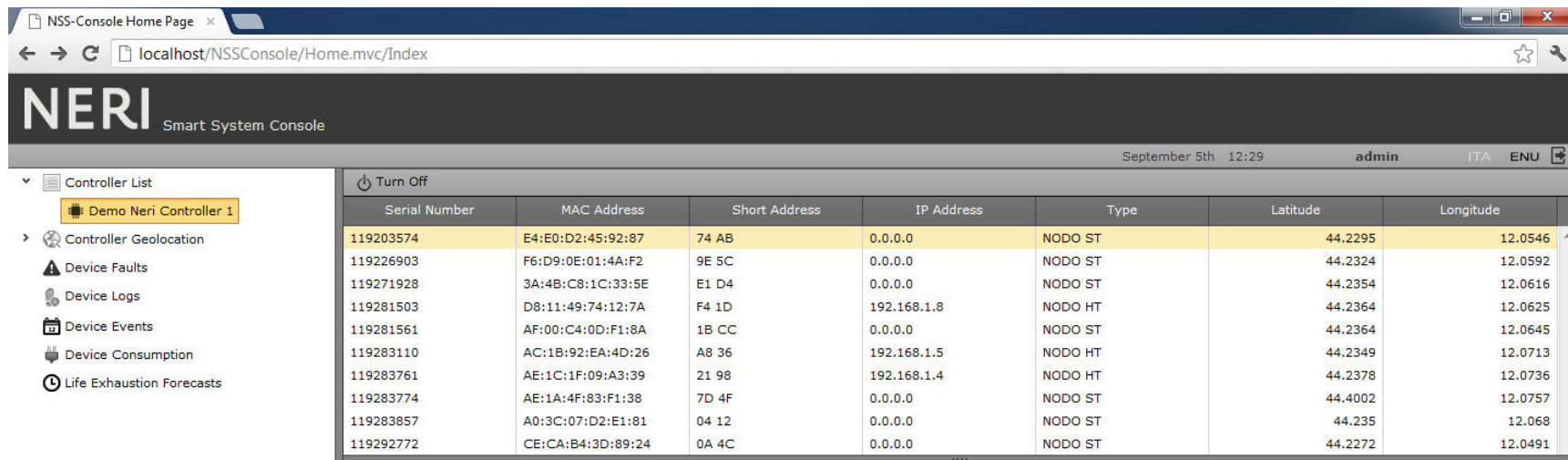
Technology integration



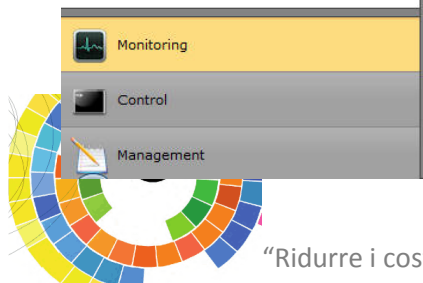
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WEB Platform on internet browser



Serial Number	MAC Address	Short Address	IP Address	Type	Latitude	Longitude
119203574	E4:E0:D2:45:92:87	74 AB	0.0.0.0	NODO ST	44.2295	12.0546
119226903	F6:D9:0E:01:4A:F2	9E 5C	0.0.0.0	NODO ST	44.2324	12.0592
119271928	3A:4B:C8:1C:33:5E	E1 D4	0.0.0.0	NODO ST	44.2354	12.0616
119281503	D8:11:49:74:12:7A	F4 1D	192.168.1.8	NODO HT	44.2364	12.0625
119281561	AF:00:C4:0D:F1:8A	1B CC	0.0.0.0	NODO ST	44.2364	12.0645
119283110	AC:1B:92:EA:4D:26	A8 36	192.168.1.5	NODO HT	44.2349	12.0713
119283761	AE:1C:1F:09:A3:39	21 98	192.168.1.4	NODO HT	44.2378	12.0736
119283774	AE:1A:4F:83:F1:38	7D 4F	0.0.0.0	NODO ST	44.4002	12.0757
119283857	A0:3C:07:D2:E1:81	04 12	0.0.0.0	NODO ST	44.235	12.068
119292772	CE:CA:B4:3D:89:24	0A 4C	0.0.0.0	NODO ST	44.2272	12.0491



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21%



1972

37%



2001

51%



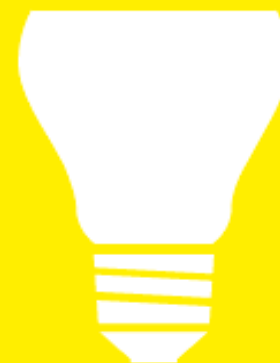
2003

75%



2011

83%



2013



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Thank you



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