

A world map where the landmasses are filled with a dense pattern of small, glowing yellow and white dots, representing city lights at night. The background is a dark, deep blue.

Standardization & cooperation in Lighting technology

Akari-Lisa Ishii Lighting Designer



Public Lighting contributes

1. to ensure the public **security**



2. to create the city's **identity**



3. to activate the nighttime **economy**



CHALLENGES

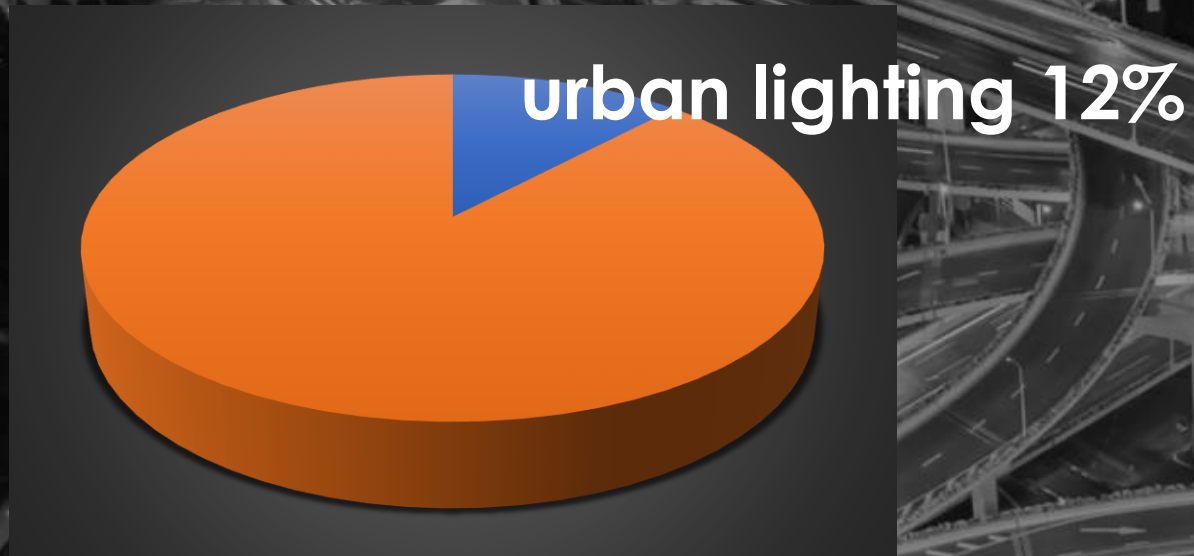
1. Against Light Pollution
2. Better Energy saving



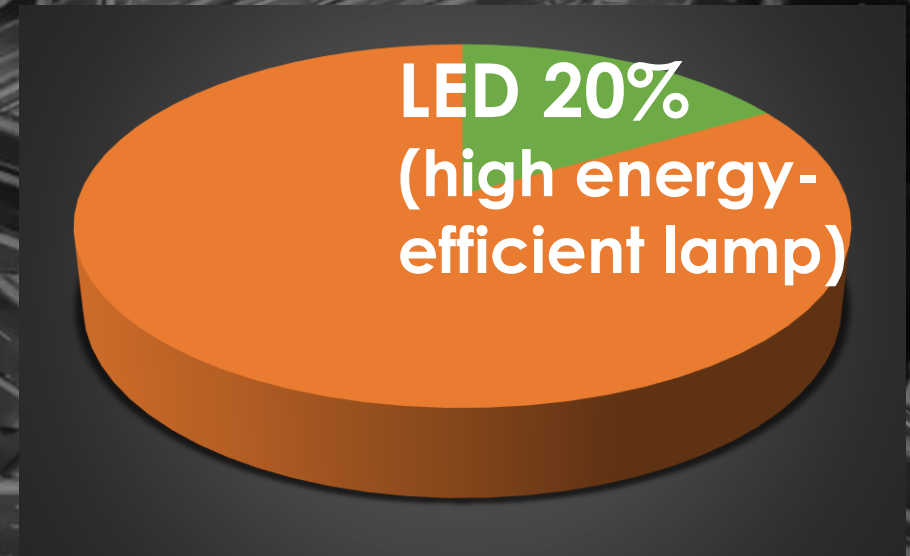
~~Tendency to
the total extinction~~



Energy Consumption by Local Government in France



Light sources used in urban lighting in France, in Japan



Considerable **delay** for LED shifting by 2030!



Public lighting is an eventual
“URBAN MINE” for

Energy saving of 40-70%

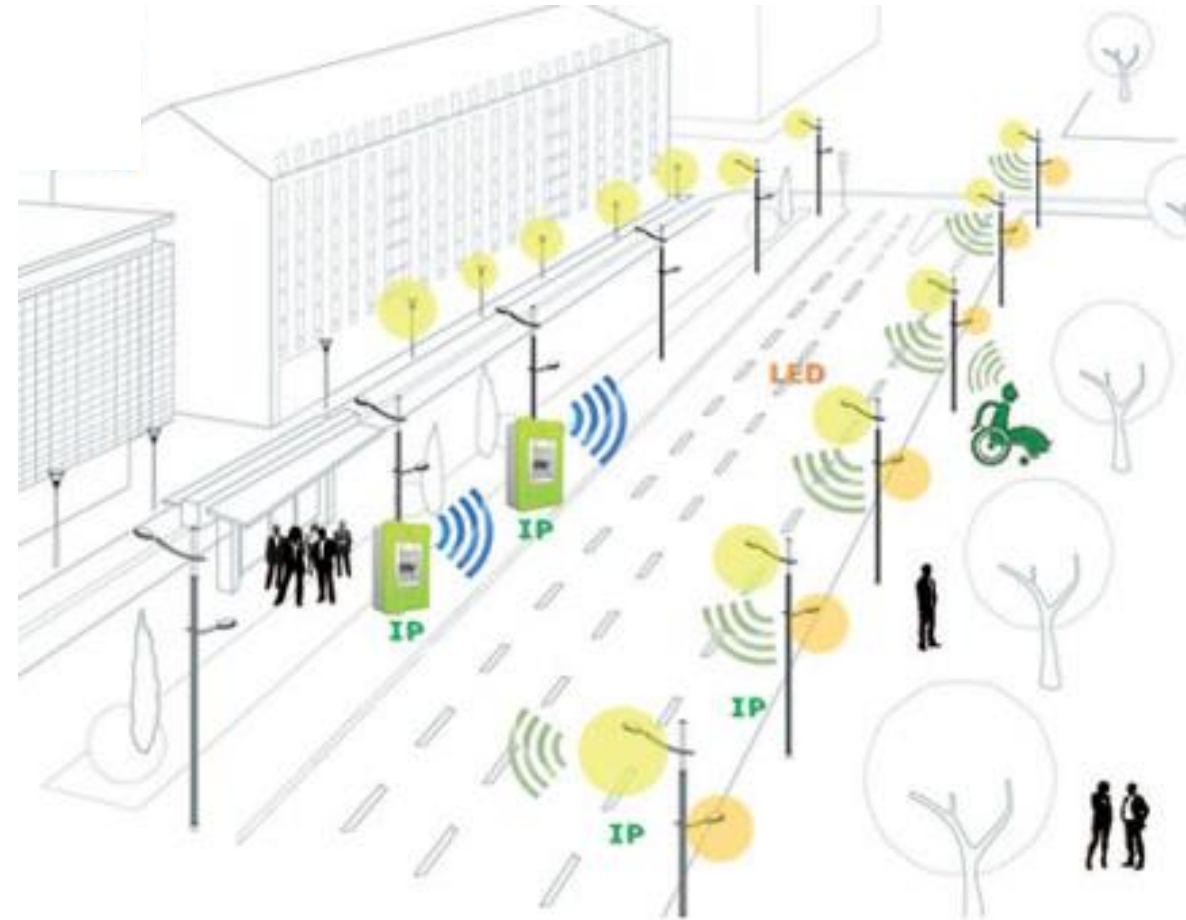
Carbon off-set

“Smart City” infrastructure = business chance

As a smart city infrastructure

Smart Pole connected lighting system

- lighting level control
- energy-saving
- security monitoring
- traffic flow capture
- digital communication
- visitors' flow for marketing
- self-driving
- signage and ad
- local energy generation etc.



Urgent needs for

Harmonization of radio wave regulation

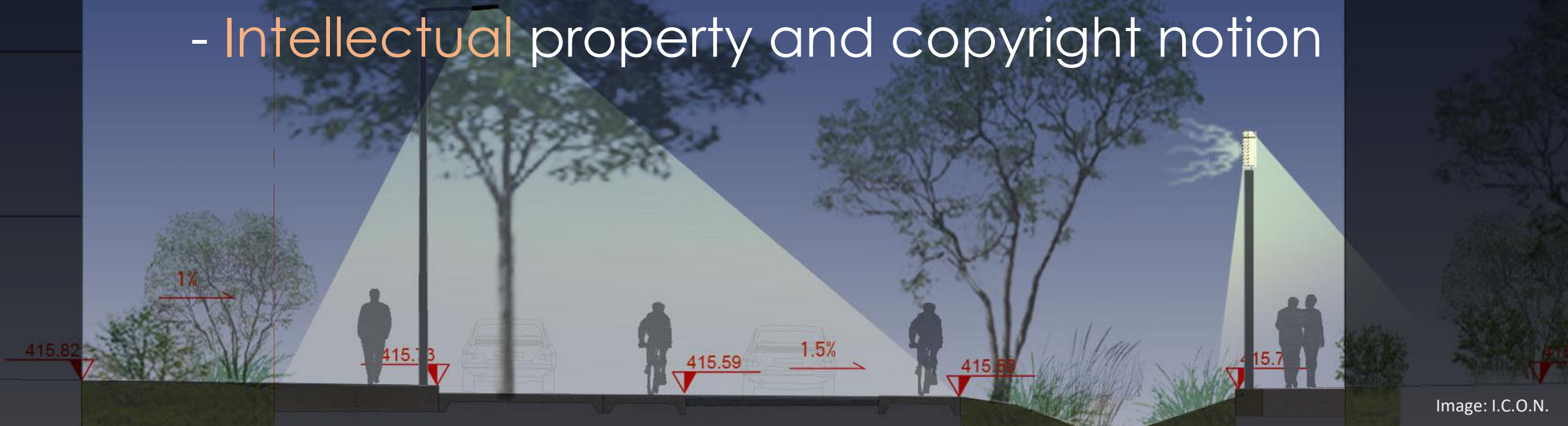
Standardization of LED technology

**International cooperation EU – Japan
as leaders in lighting technology**



International cooperation for

- **Guideline** against light pollution
- **Advertisement** lighting regulation
- **Green** energy implementation
- **R&D and skill** exchanges
- **Intellectual** property and copyright notion



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