

# NICHIA CORPORATION

Logroño | 2025 May 21 - 23

**LI Symposium Nacional de Alumbrado**

**Nichia Europe GmbH | Fernando Garcia**

# NICHIA Corporation



**Company**

Nichia Corporation

**Founded**

1956

**HQ Location**

Anan-Shi, Tokushima JAPAN

**Employees**

9,353 globally (As of December 31, 2023)

**Main Products**

Optical semiconductor (LED, Laser)

Chemicals / Phosphors


Lithium-ion Battery Materials

Hiroyoshi Ogawa

**President**




**LED**







**Semiconductor**

**Laser Diodes**

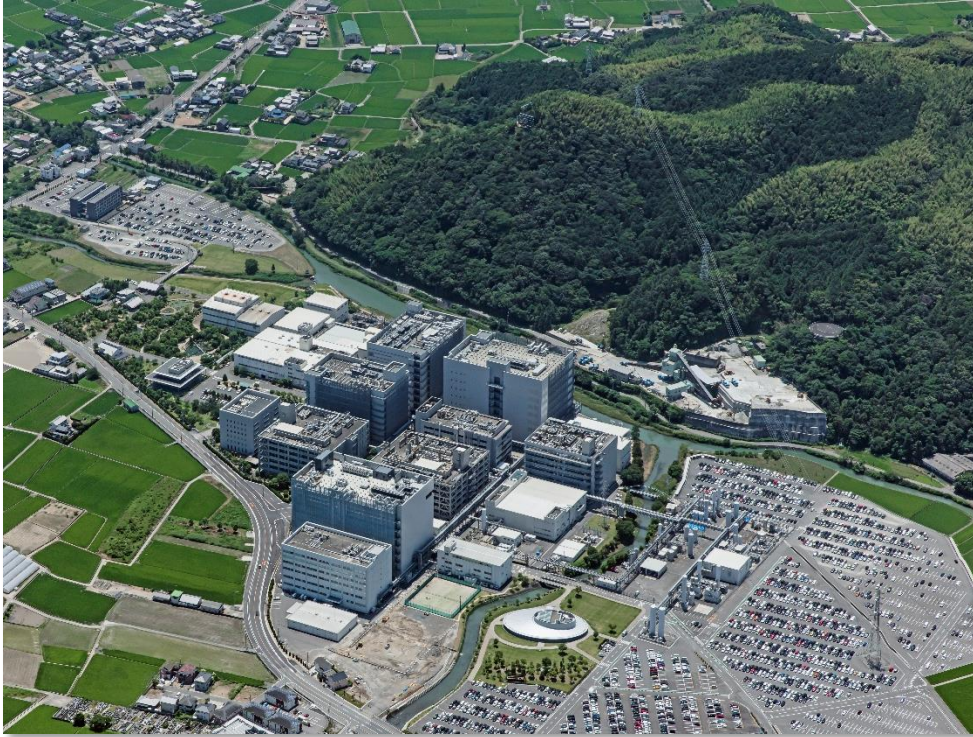


**Cathode Materials for Li-ion batteries**



# Main manufacturing sites

Nichia Corporation



## Headquarters

Land **294,000 m<sup>2</sup>** (73 ac)

### Main products

LED • LD • Magnetic Materials • Phosphors



## Tatsumi Plant

Land **478,000 m<sup>2</sup>** (118 ac)

### Main products

LED (Automotive, Power LED for Lighting) •  
Battery Materials • Phosphors • Fine  
Chemicals



## Naruto Plant

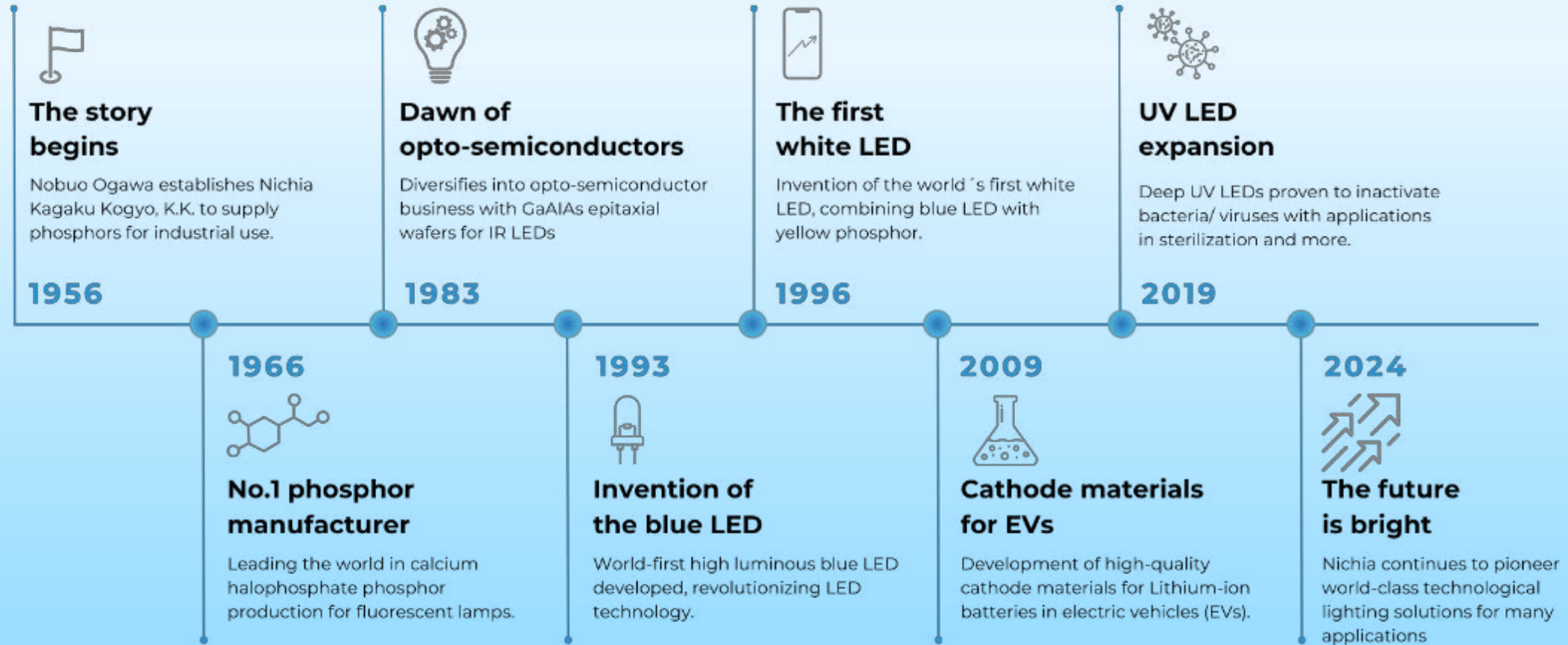
Land **144,000 m<sup>2</sup>** (36 ac)

### Main products

LED (Lighting, Backlighting, Display)

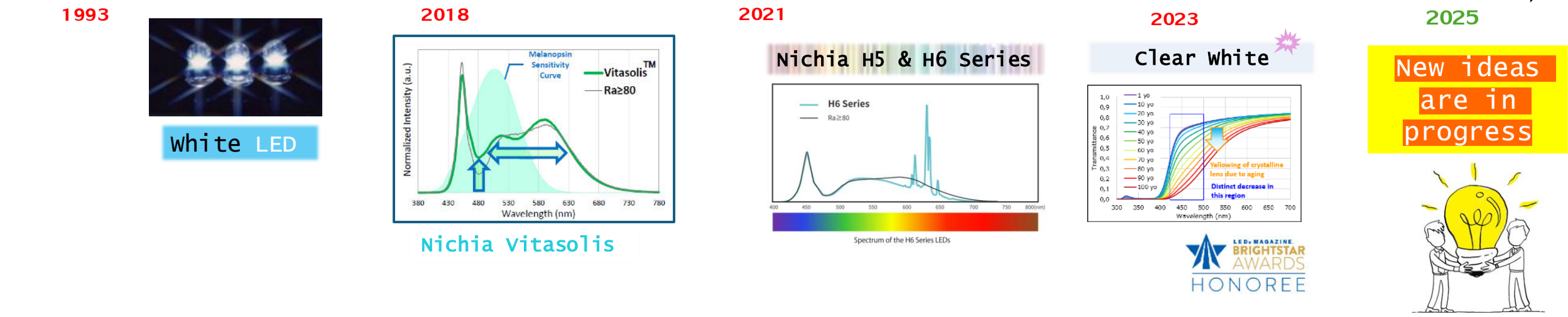
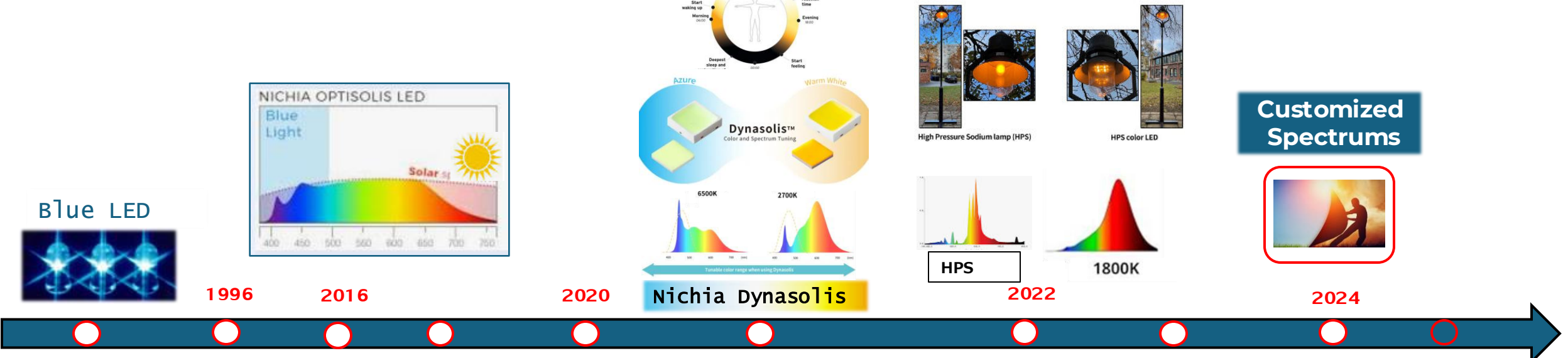
# Key Moments in our History

1956 – today



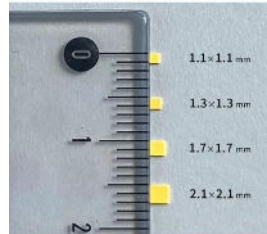
# Nichia's passion for innovation

**Nichia innovations beyond just illumination!!**

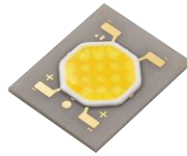


# Nichia's passion for innovation - Products

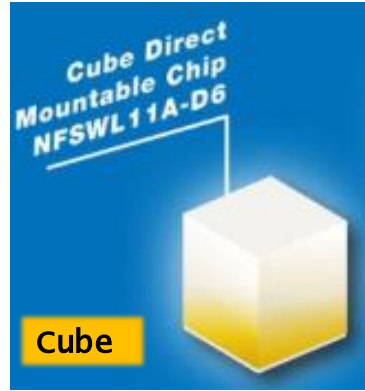
## Innovative LEDs changed the Luminaire designs



Direct Mountable Chip Series

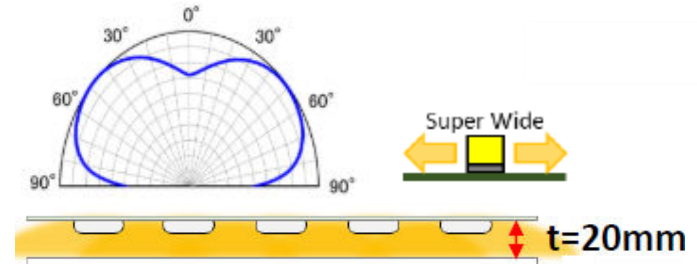


2019



Cube

2023



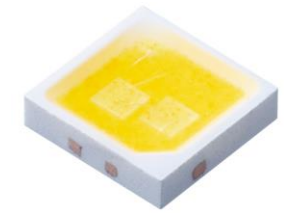
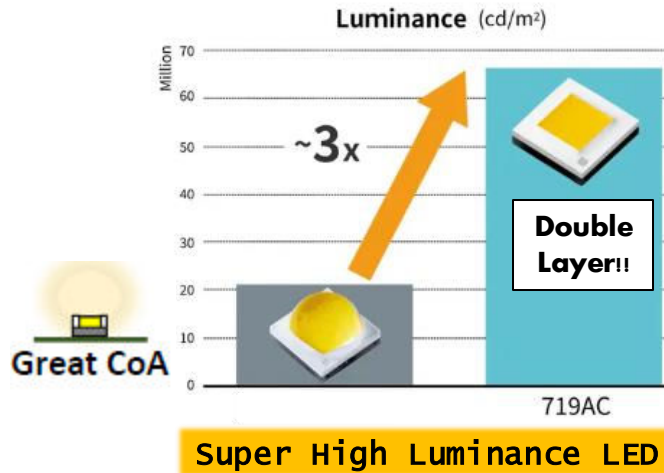
2024



2015



Tunable White



**sustainabLED**

Sustainable + LED

- 230lm/W
- L90B10 > 100k Hours
- Recycled materials used

# Global Network

16 overseas sales offices (Incl. 2 rep. offices)

Nichia Europe GmbH Frankfurt, Germany  
 Nichia Automotive Innovation Center Aachen, Germany



**India**

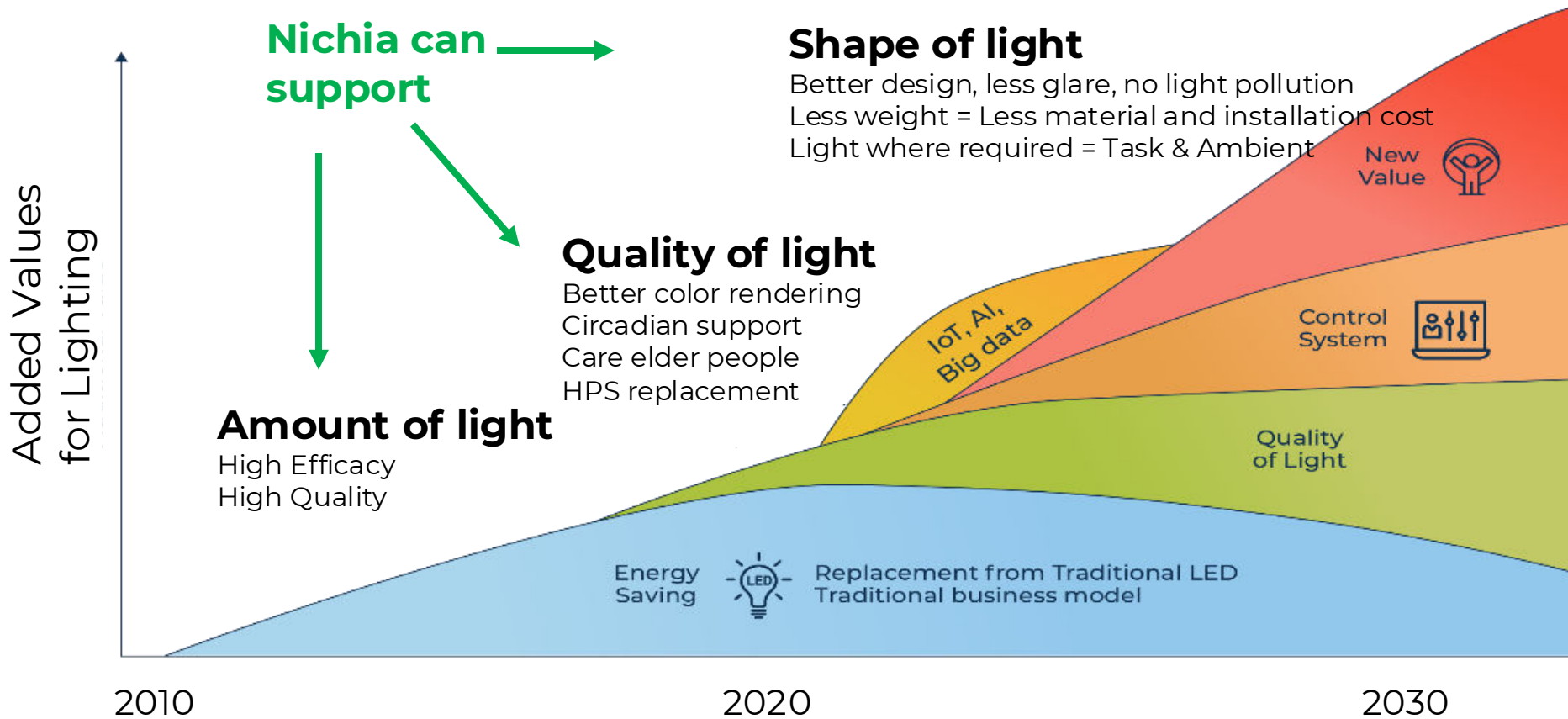


Locations	
Asia (Excl. China/Taiwan)	7
China/Taiwan	3
North America	5
Europe	1

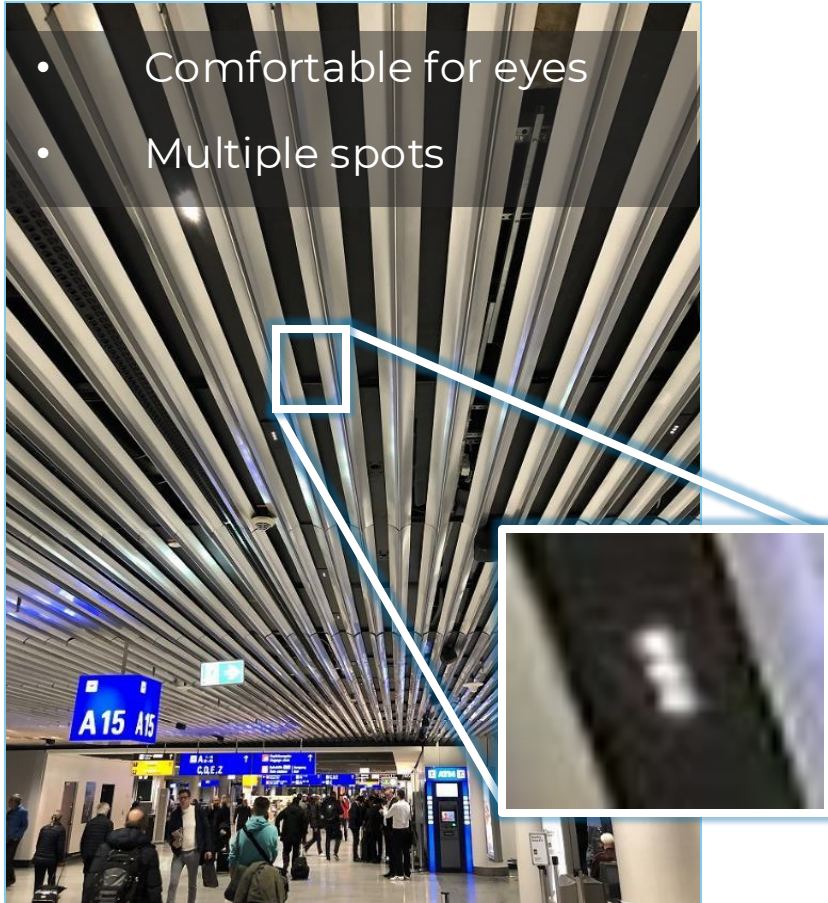
**China/Taiwan**



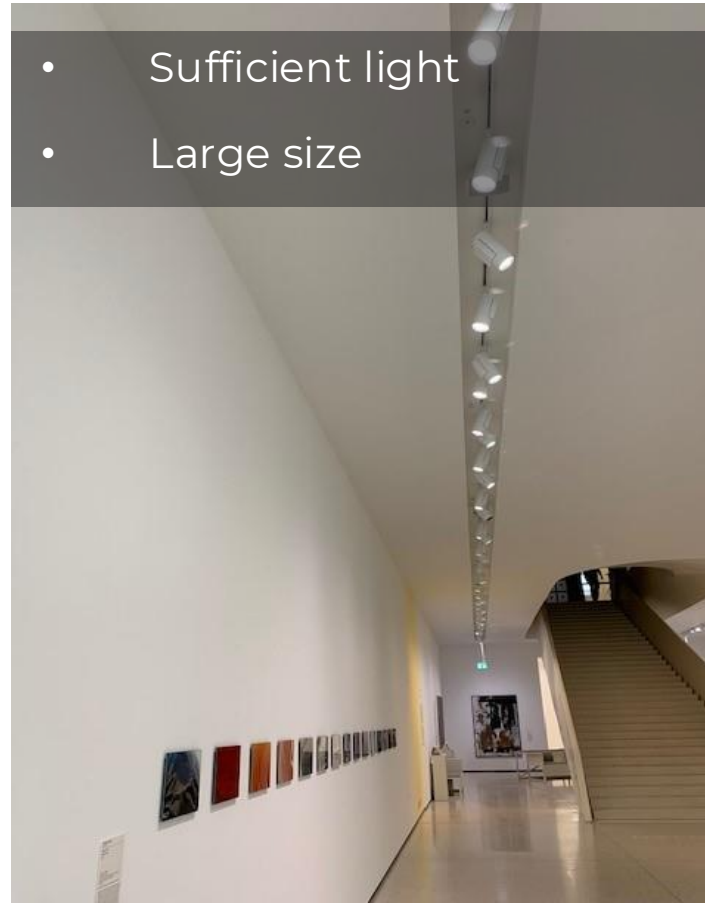
# Amount of Light, Quality of Light and Shape of Light



# Shape of Light | Super High Luminance LED

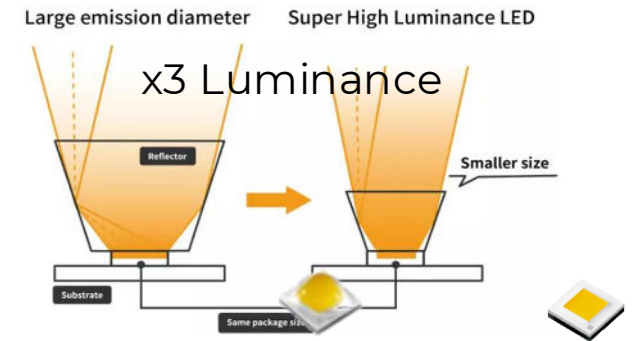


FRT Terminal 1, Frankfurt



Staedel Museum, Frankfurt

**Spotlights:**  
Good examples and issues



# Shape of light

Super Wide Distribution LEDs



Kuru-kuru Naruto, Naruto city



Takenaka Shizuoka sales office, Shizuoka city

# Shape of light

Smooth integration



Integration w/floor

Yokohama Minato Mirai Hall, Yokohama city



Integration w/column

Condominium entrance hall, Fukuoka city

# Quality of light | H6

Great efficacy AND premium color quality

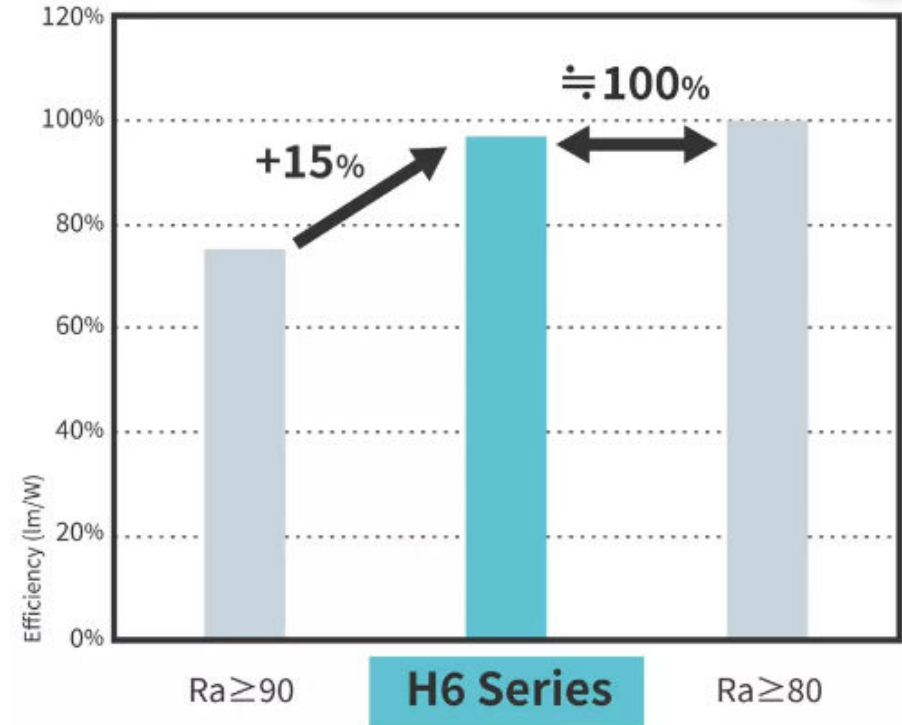
H6 Series



Ra ≥ 80



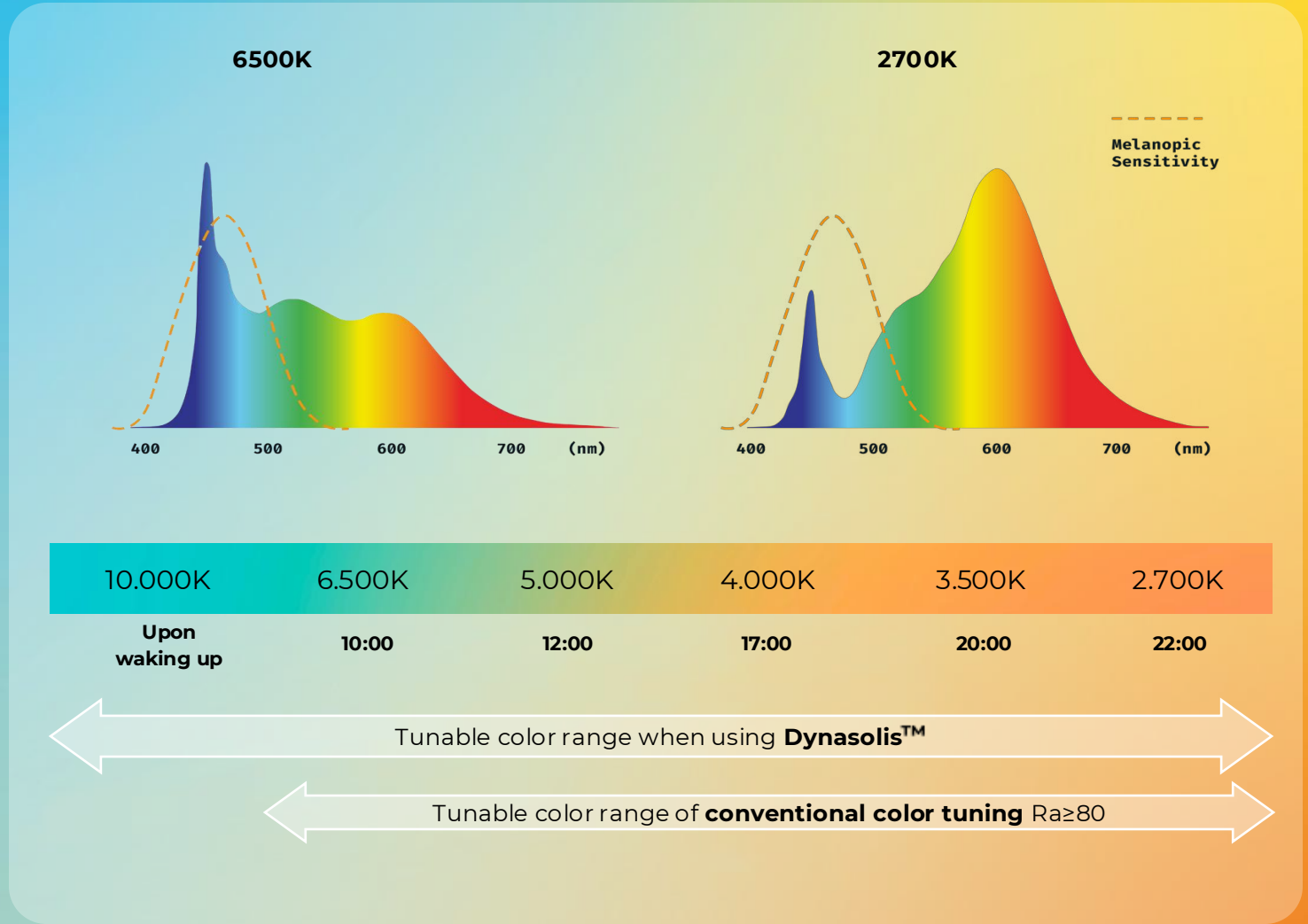
Make everyday life more vivid  
(Especially the difference in the reddish color is remarkable)



# Quality of light | Dynasolis™



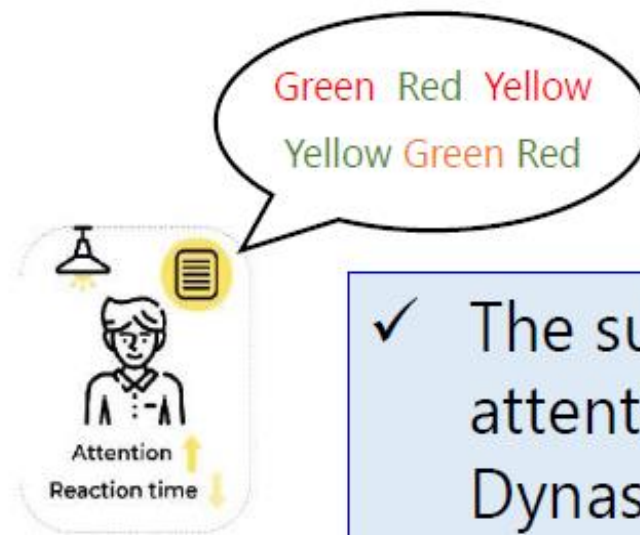
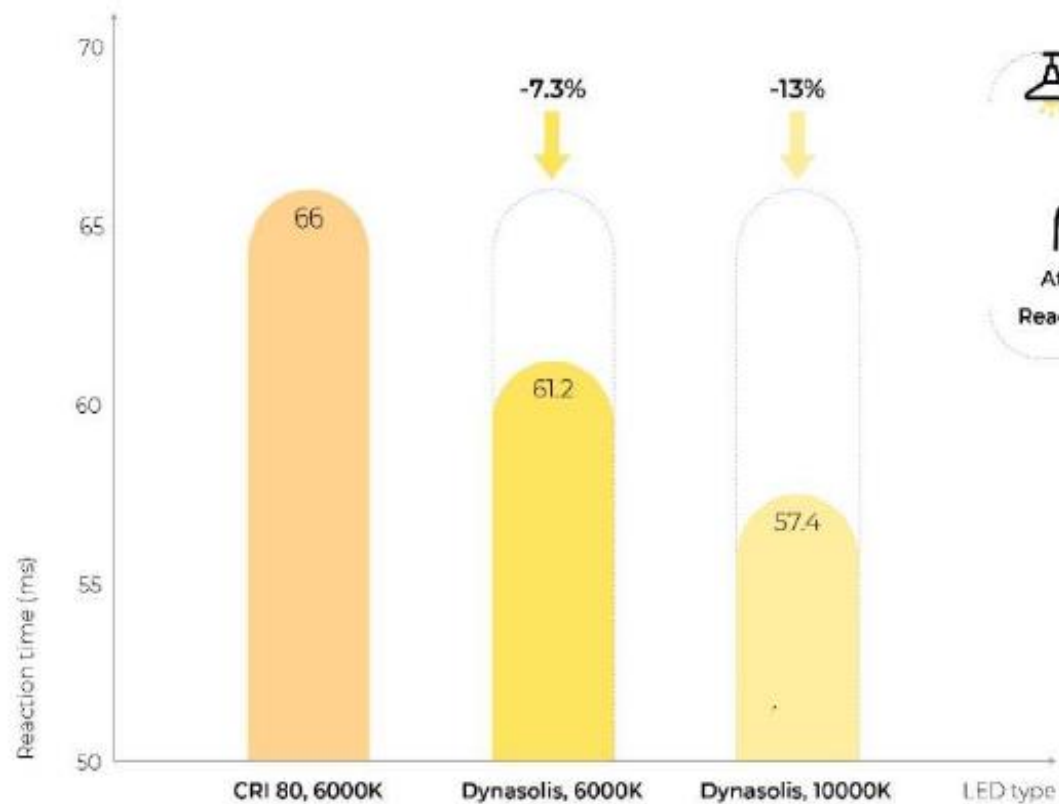
Nichia cares both CCT AND spectrum for circadian rhythm



## Experiment at Fraunhofer Institute for Building Physics

### Stroop test: line color/word conflict

Friedman test,  $p = <0.0001$



- ✓ The subjects were more attentive under Dynasolis™ light than the standard LED light.
- ✓ Their attention was even higher under Dynasolis™ 10000K.

# Quality of light | Full Color

Full color **AND** super high density



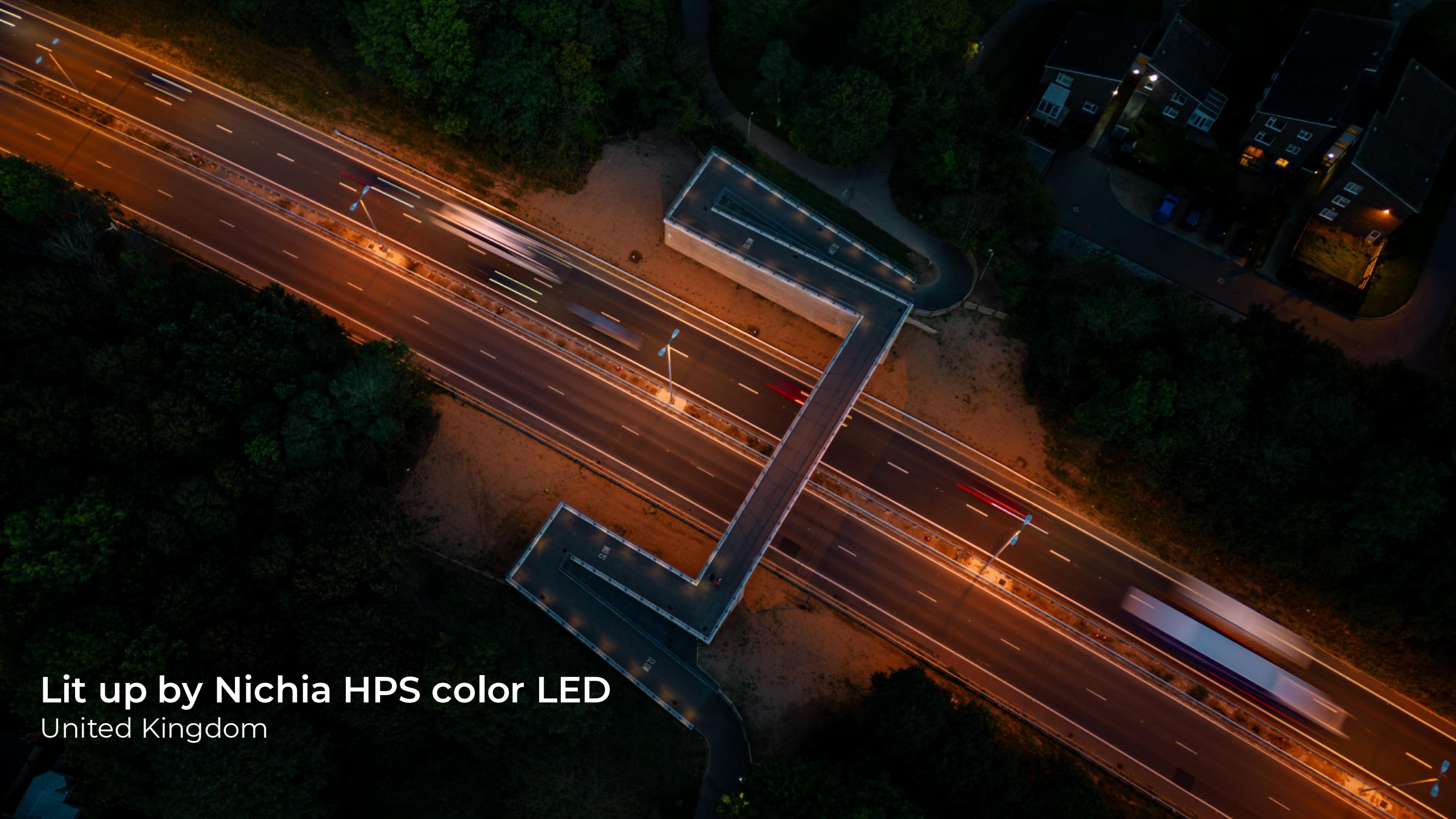
Ra>70  
1800K LED



Ra=5  
HPS

Light in tradition,  
with the **latest technology**



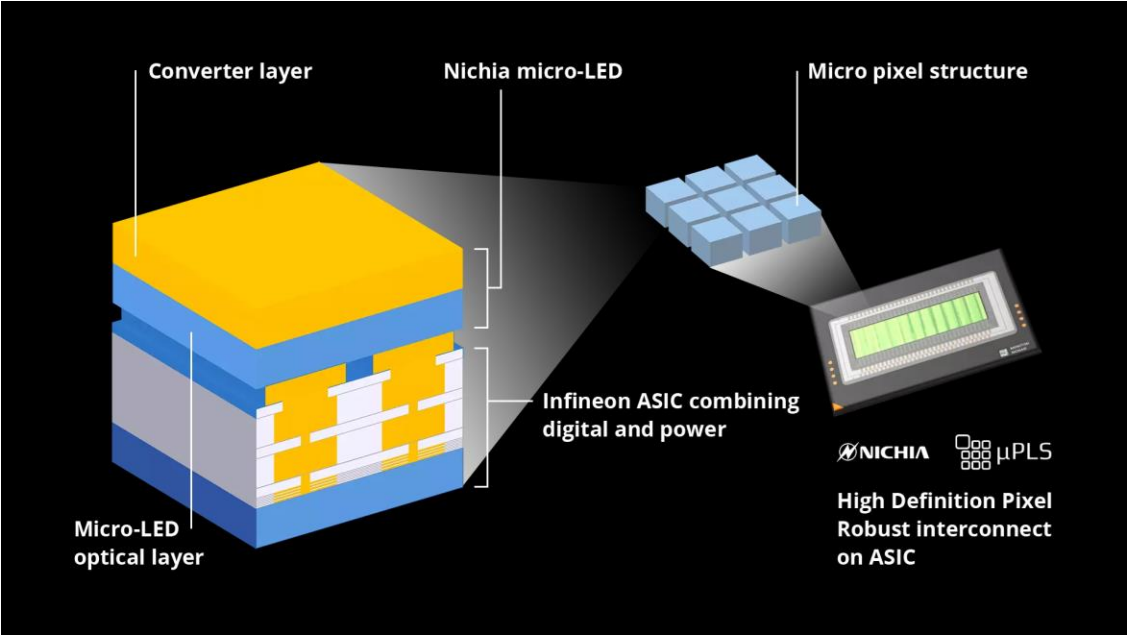


**Lit up by Nichia HPS color LED**  
United Kingdom

# Market trend in Automotive

Innovation and safety

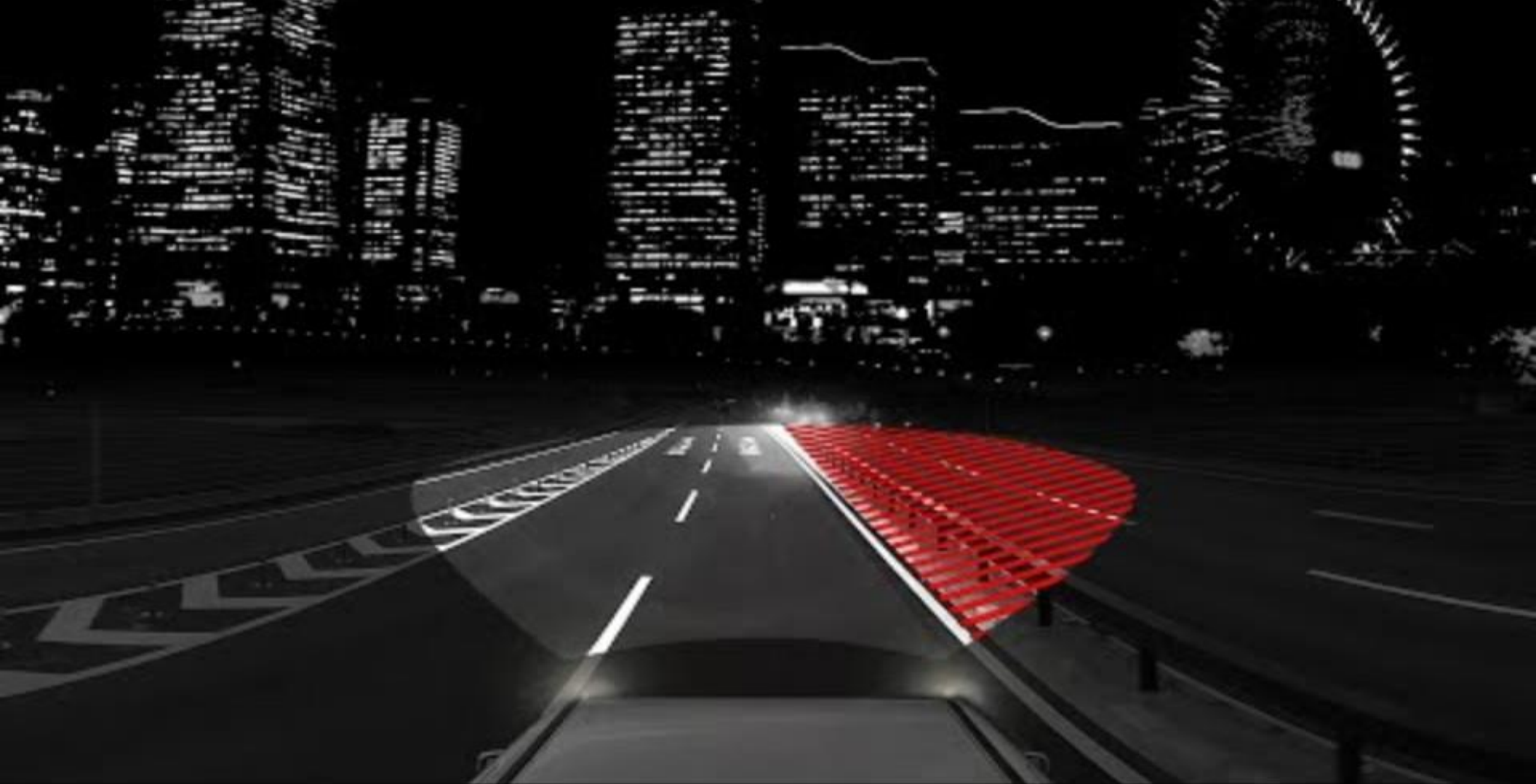
# μPLS



Nichia Micro LED



Photo courtesy of Porsche



# Intersection of innovations

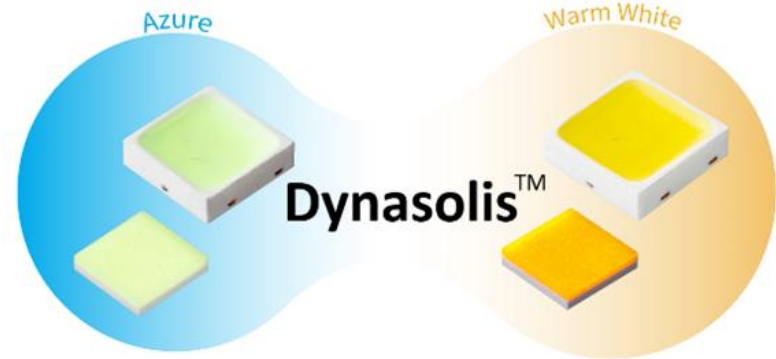
Innovation across industries



Slim light fixture design



 μPLS



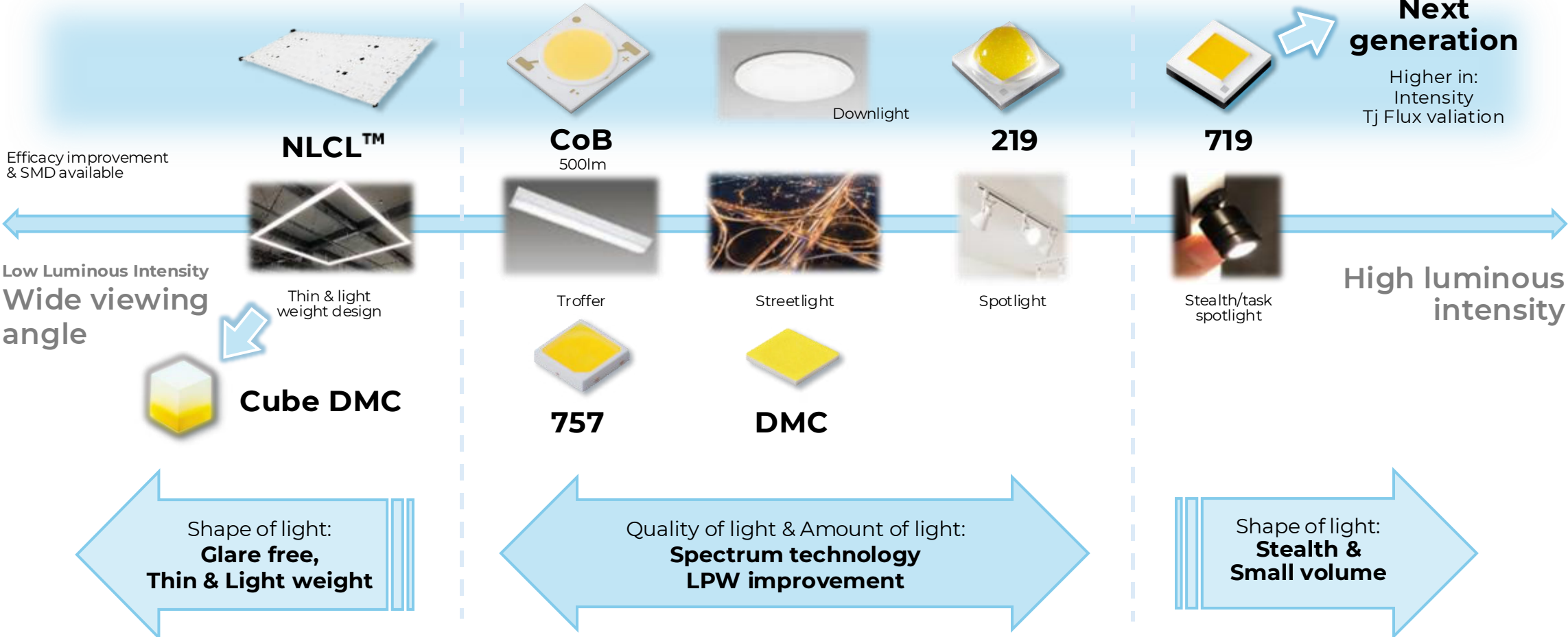
Human-centric lighting

# New lighting area and luminous intensity of LEDs

Full color AND super high density

## Luminous Flux

An LED/module makes a fixture



# NICHIA CARES THE CIRCULAR ECONOMY

- Save more energy by better spotlight and ambient light
- Light weight fixture for easier installation, safer roof and fewer materials
- Valuable spectrum for human being without Hg

**Let's redesign the future of lighting!**



Ever Researching for a Brighter World

# Thank You for Your Attention!

ご清聴ありがとうございます  
ございました!



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