

Make the World **Clean, Healthy and Beautiful** with **Light**

2Q 2024 Investor Briefing

Seoul biosys

Aug. 12. 2024

Disclaimer

The second quarter of 2024, half-year performance is prepared for the convenience of investors while the external auditor's audit is not yet completed, and some of the contents may change during the external auditor's audit process. All information on the company's financial performance included in this material is prepared on a consolidated basis in accordance with K-IFRS standards. Please be aware that the future forecast information and future outlook included in this material takes into account market conditions and the company's management direction, etc., and may change depending on changes in the market environment and the company's strategic direction.

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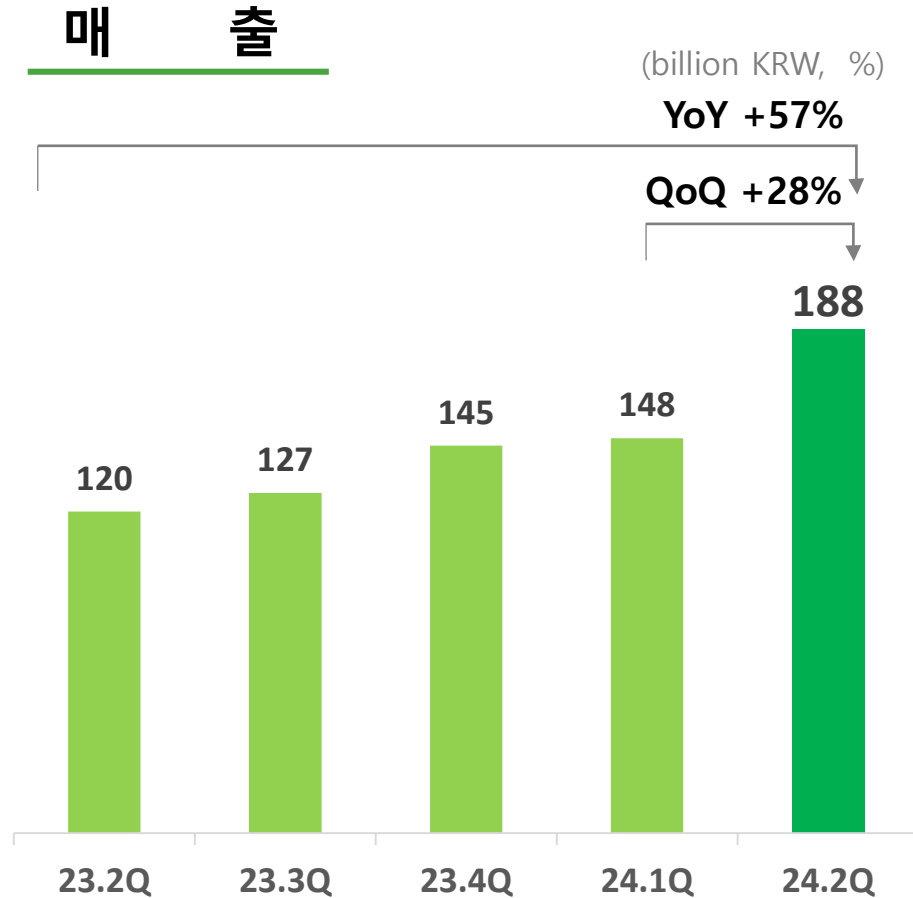
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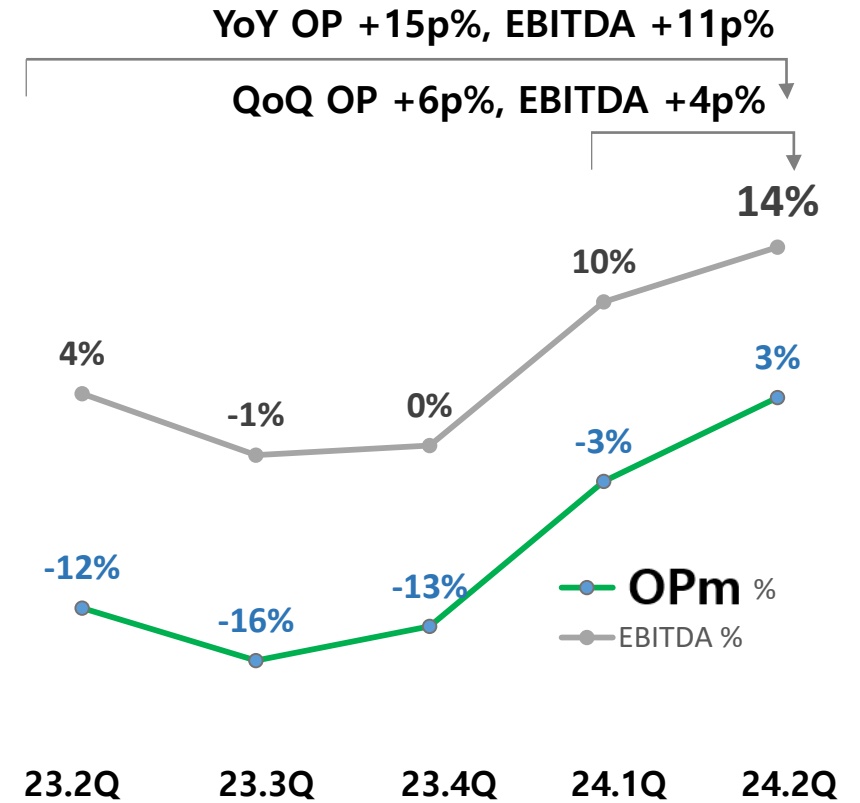
2Q 2024 Financial results

1. Sales & Profit

OPM Turn around, Sales QoQ +28%p , OPM QoQ +6%p , EBITDA 14%



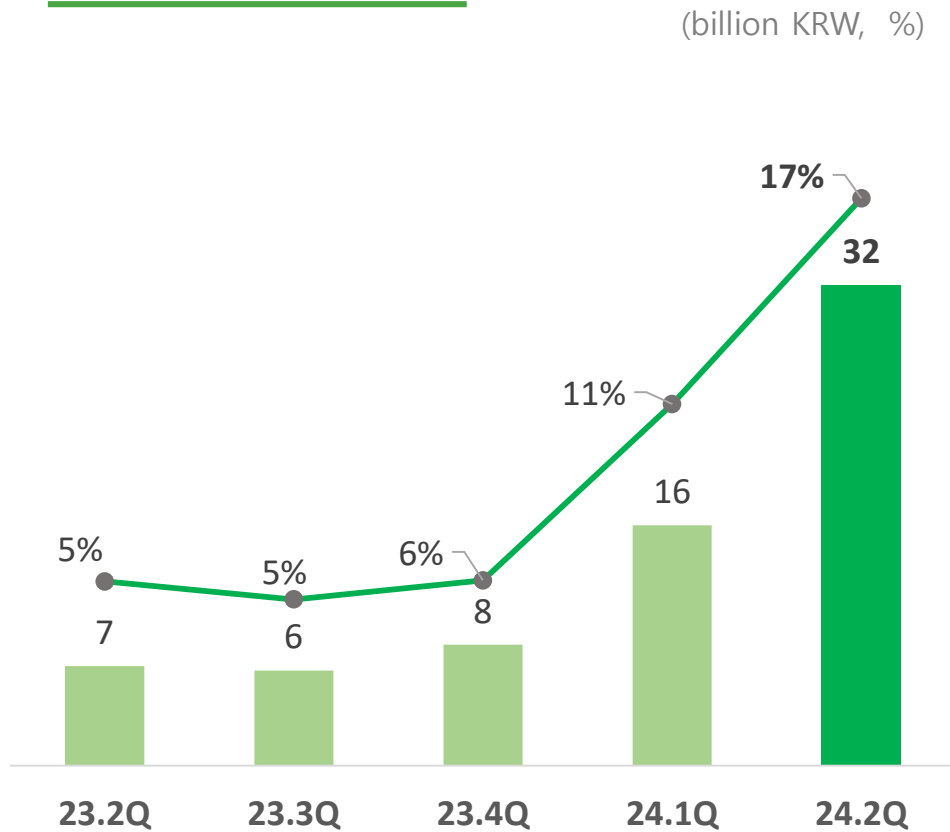
OPM & EBITDA



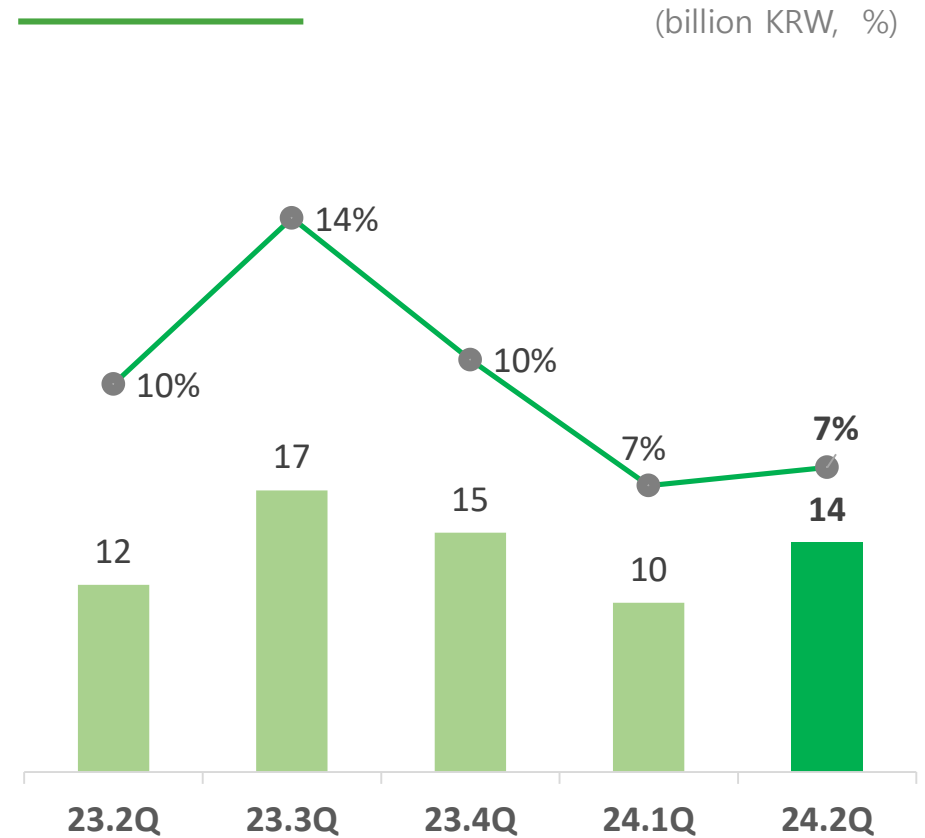
2. Gross margin & R&D

Cost saving, Gross Margin 17%, Profit performance

GM (%)



R & D



3. Performance summary

Securing customer trust and solidifying the technology brand with new technology patents to boost sales

World 1st No-Wire, RGB 1 Chip Micro LED, 2 countries customer approval, mass production begins ('24.2H)

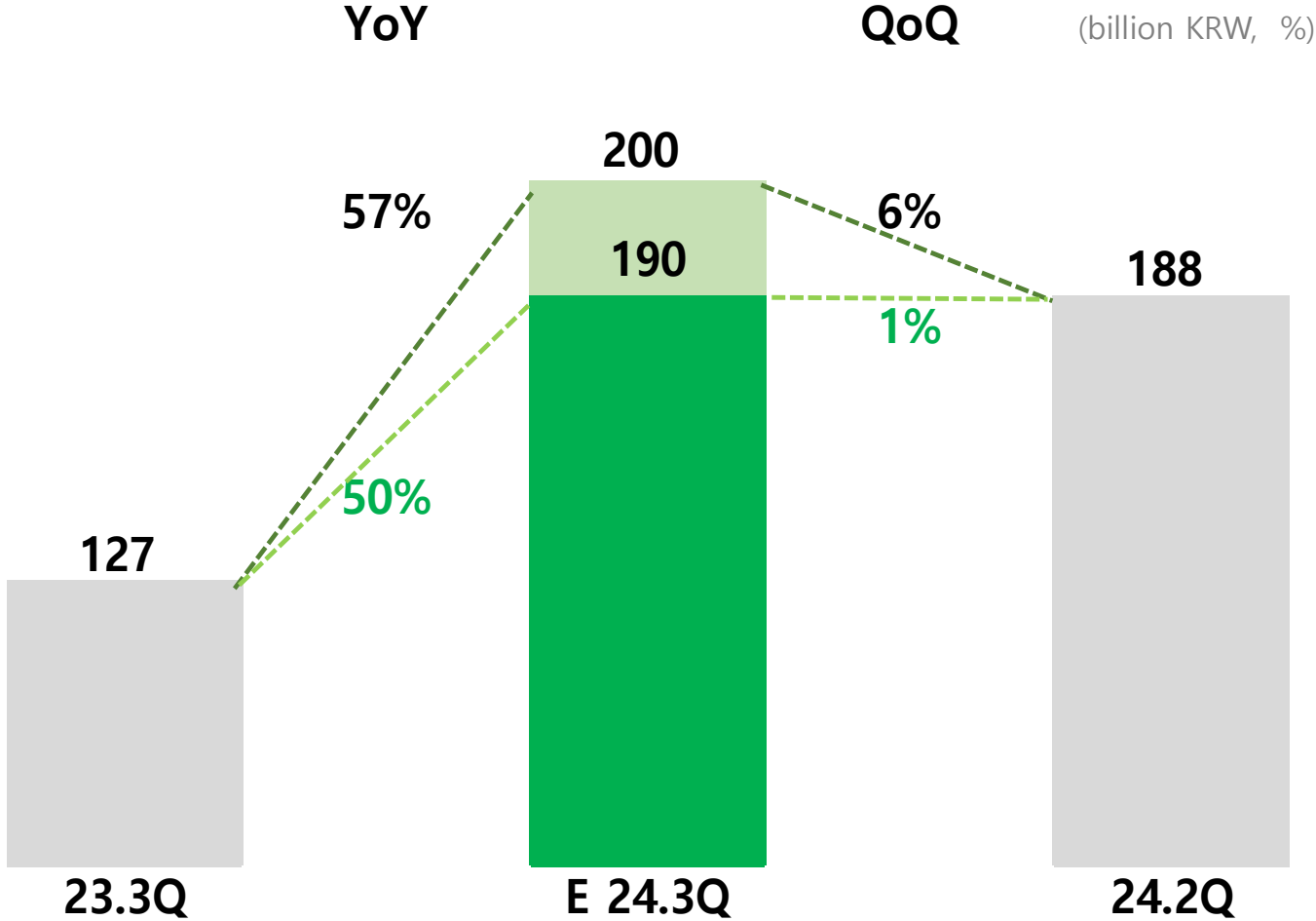
Prevention is more important than cure and vaccine. Essential for Clean Home Appliances and 3D Printing Curing. *violeds*

02

3Q 2024 Sales outlook

3Q 2024 Sales outlook

3Q sales range 190 ~ 200 billion KRW , YoY 54%, QoQ 4% increasing

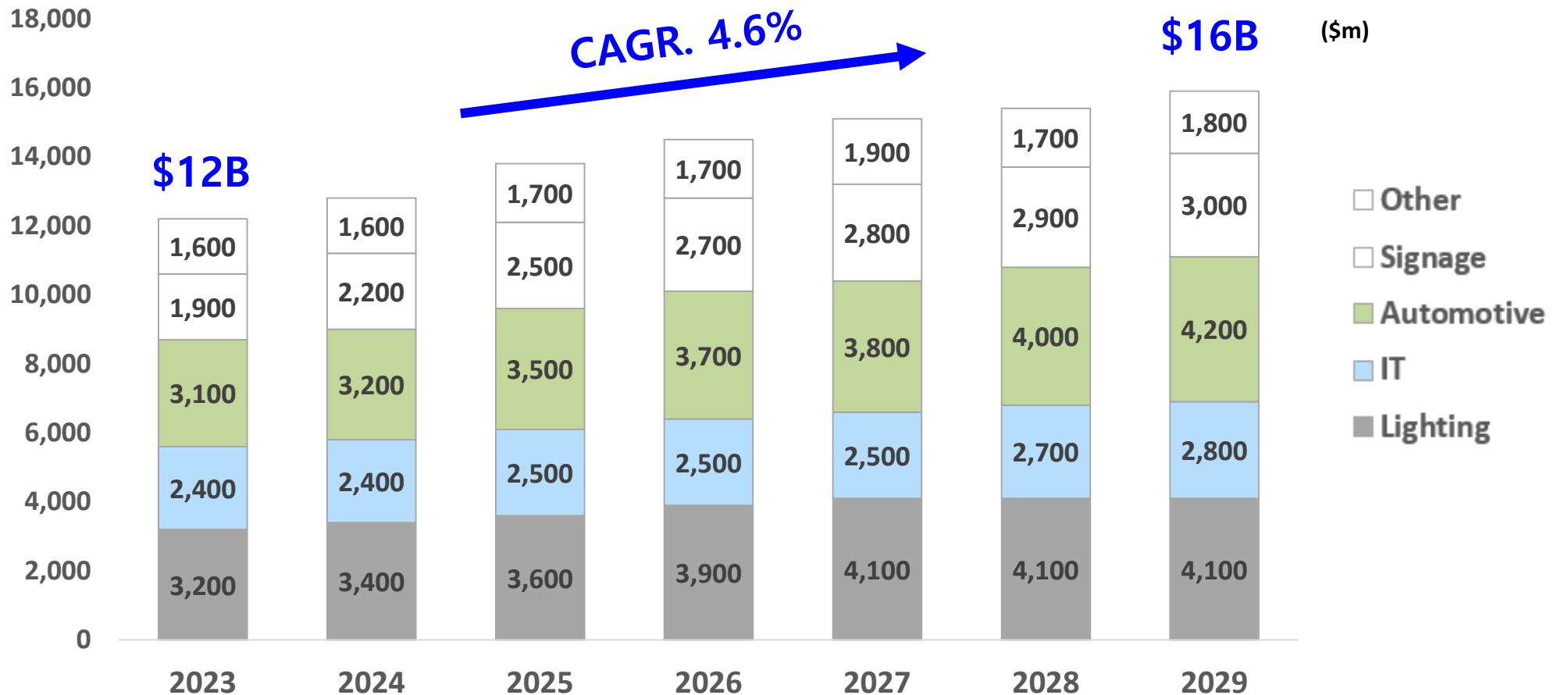


03

Market

1. Global LED market outlook

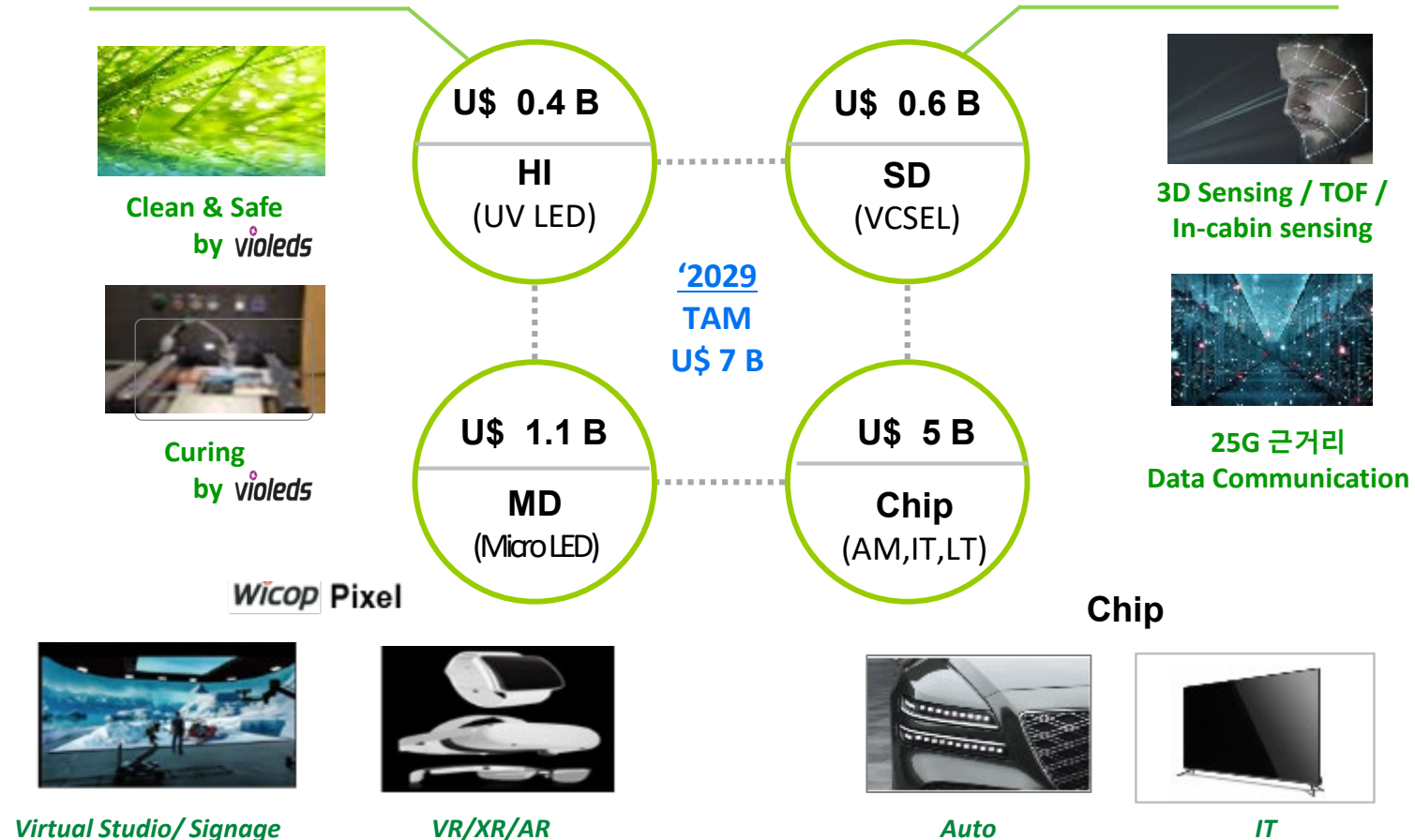
Global LED Market CAGR 4.6%, Signage growth 30%, P1.1 below Micro LED Display growth 50%



Source: Seoulviosys

2. 3 major Growing engine & Chip

Adding 2 businesses, MicroLED Display and VCSEL LD to Chip business,
Entering 3 LED markets.



※ Source: 자체 분석

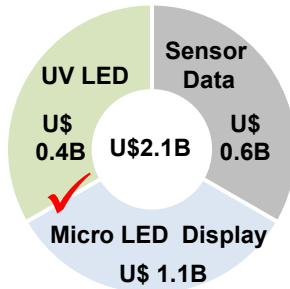
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Growing engine

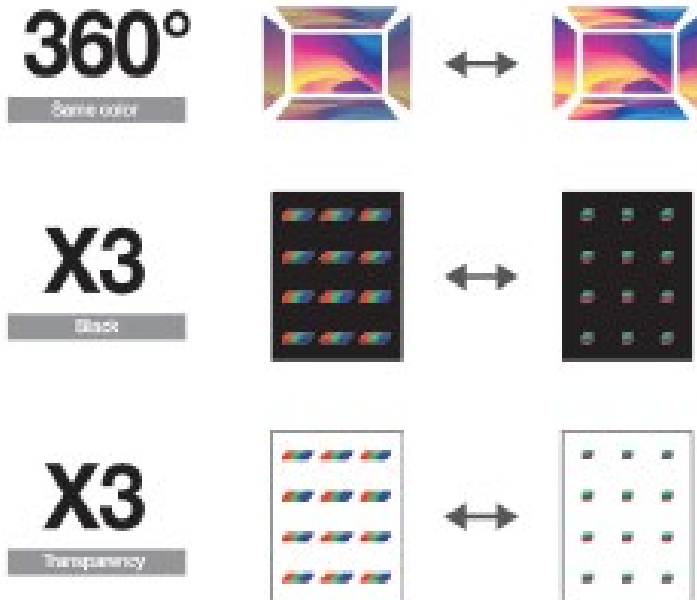
1. Micro LED display

Display paradigm shift: Organic LCD, OLED rapidly loses lifespan when exposed to high temperatures above 90° Inorganic high-reliability Micro LED will become a major axis of the display market (especially P1.1 and below)

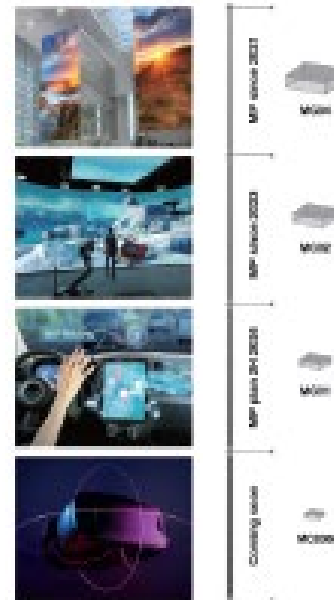
R&D and Mass Production of the World's First Micro LED RGB 1 Chip Begins



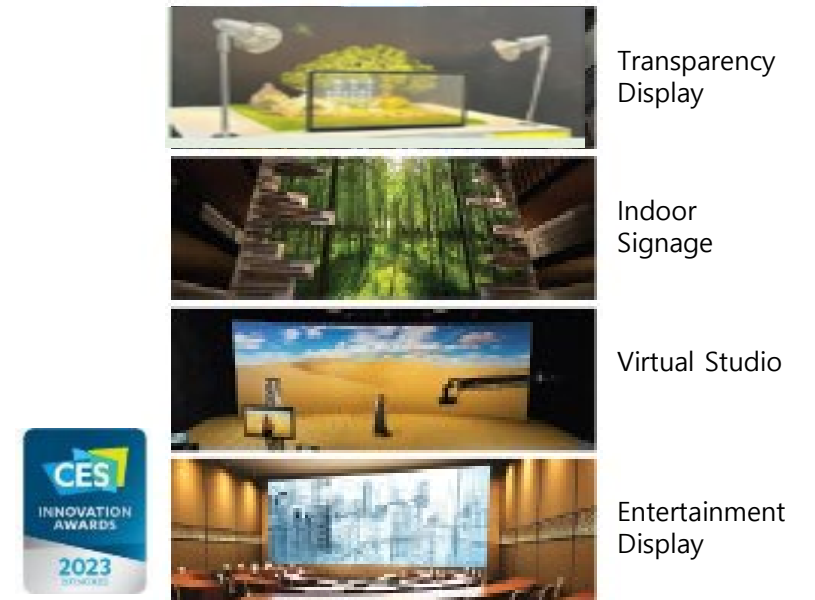
360° Color reproducibility, excellent contrast ratio



RGB 1 Chip



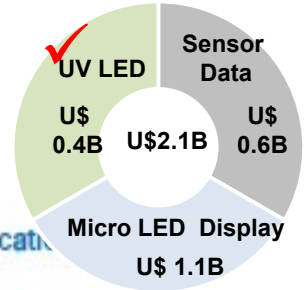
Various applications



2. Home & Industrial

Wearing a mask reduces cold cases by 99%,
now prevention is more important than treatment or vaccine

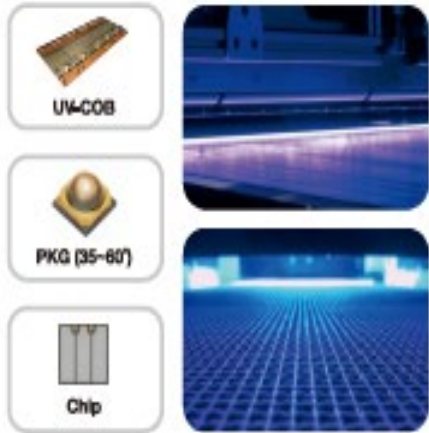
World's first UV LED R&D development and mass production



Curing

Consecutive #1 market share experience

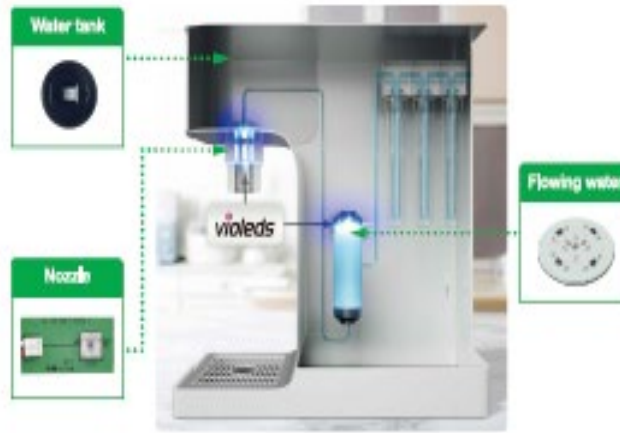
From UV chip to customized MD solution
10 years R&D and MP in curing application



Water purification

Proven experience by Global HA companies

Customized solution for all purifier types
US certified proprietary technology (SETI)



Air/ Surface Sterilization

Clinically proven, US-certified purification

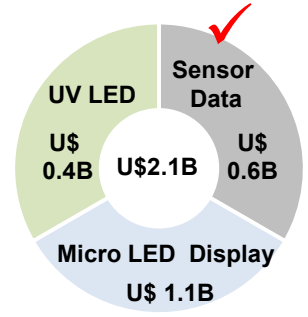
In-house R&D test lab capability
Used & Qualified in Automotive console box



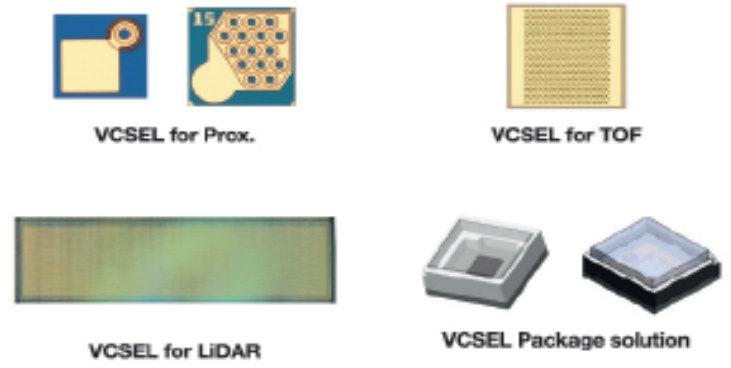
3. Sensor & Data Comm.

Robots and AR sensing + short-distance optical communication
essential in the AI Big Data

R&D of next-generation sensor and data center communication devices 25G

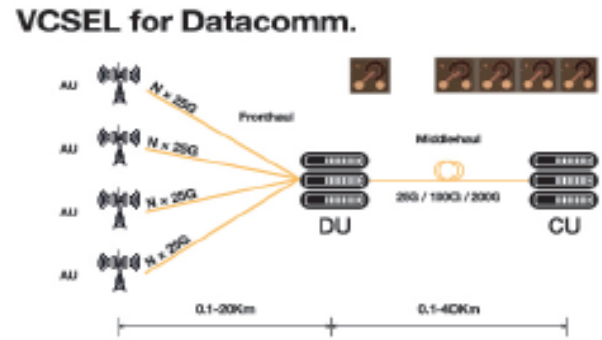


3D Sensor [High Power]



- TOF sensor/LiDAR solution
- Proximity sensor

Data communication [High Speed]

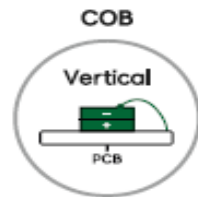
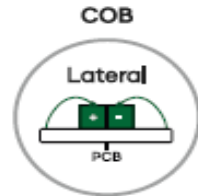


- 25Gbps VCSELs for 5G Communication

4. World's 1st No Wire High heat dissipation, strong structure Wicop

World's first No Wire LED, robust structure,
no packaging required, lightweight, compact, high heat characteristics

1st Generation LED 2nd Generation LED based on 18000 IP



No wire = **Wicop**
[Over 1,000 IP]



Bad



Global LED Package
U\$ 16B , 33%
= U\$ 5B market

* COB = Chip on Board * CSP = Chip Scale Package * WOB = Wicop on Board * WPOB = Wicop Pixel on Board * MiP = Micro LED in Package

Q & A



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THANK YOU

www.seoulviosys.com

Contact : IR team irteam@seoulviosys.com

Mobile : 010-4611-8545