



 **PLAYNITRIDE**

Investor Conference

April 15, 2024

Dr. Charles Li, Founder and Chairman of PlayNitride (6854 TT)

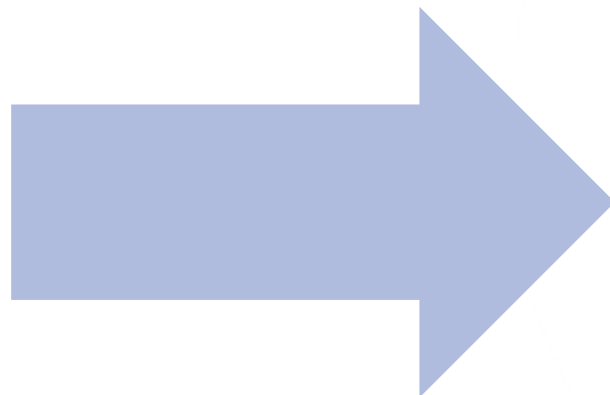
MicroLED has started changing the display industry landscape since 2023.
PlayNitride, **the world's first publicly-traded MicroLED company**, will be driving a decade-long paradigm shift in the global display technology.

OLED and LCD

BOE
SAMSUNG



US\$411bn
market cap



* Total market value as as of March 11, 2024

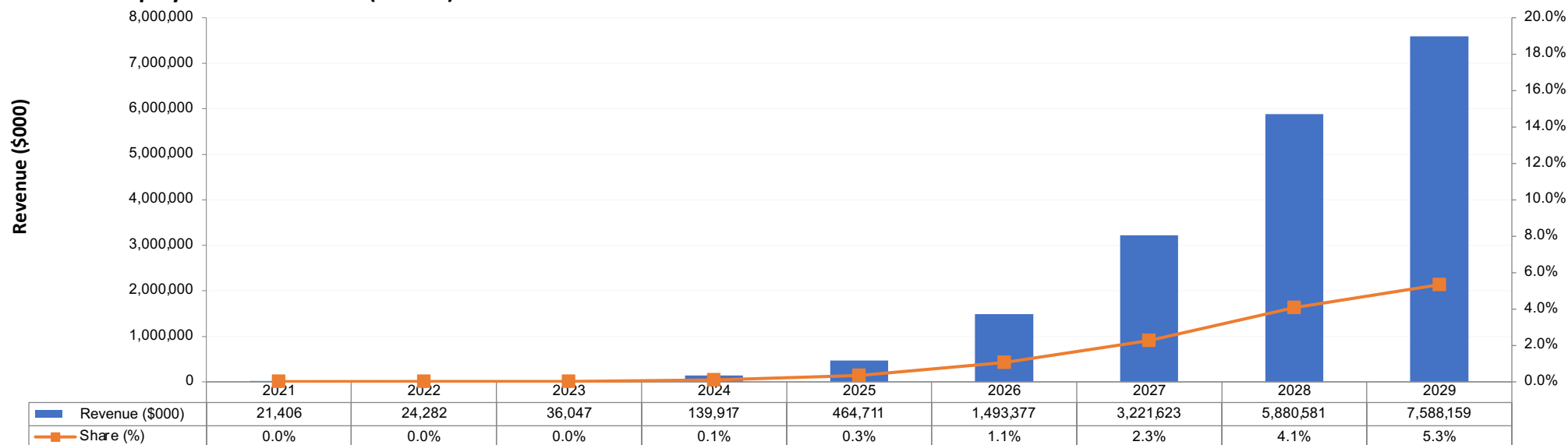
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MicroLED Display Market: US\$7.6bn, 2029

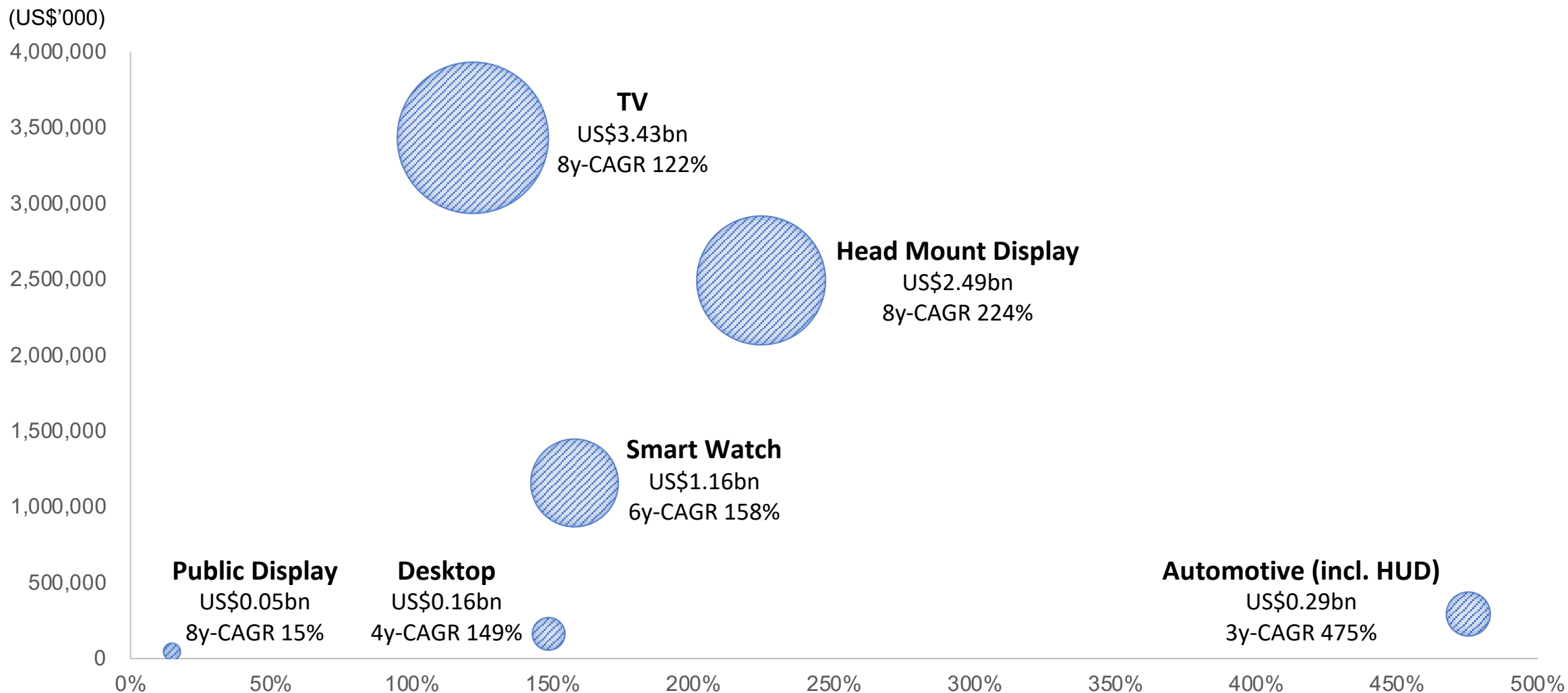
MicroLED display revenue forecast (annual)



Annual revenue for MicroLED displays is about \$24.3mn in 2022 and is expected to reach \$36.0mn in 2023. Revenue from MicroLED displays will increase to **\$7.6bn in 2029** to account for **5.3%** of the total Flat Panel Display (FPD) revenue of \$143.2bn, with a **127.2% CAGR** during 2022–29.

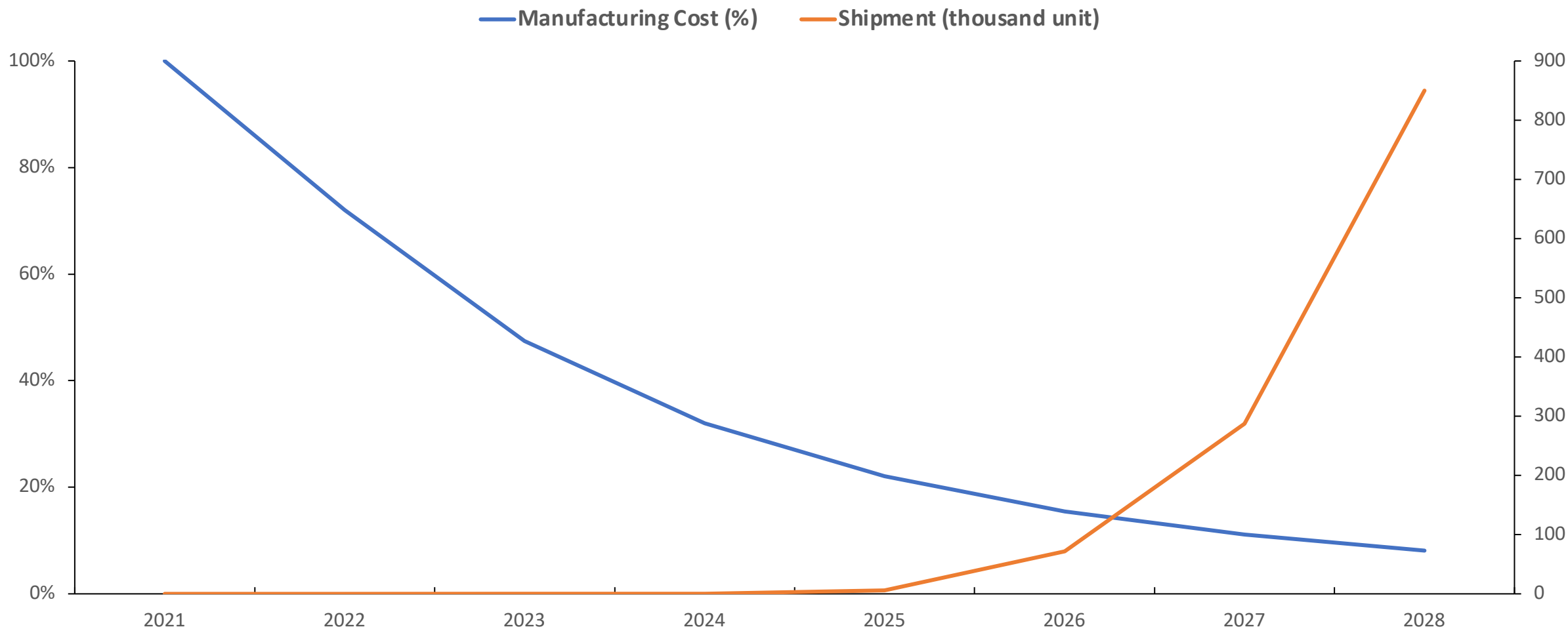
Annual shipments of MicroLED displays are about 31 thousand units in 2022 and are expected to reach 125 thousand units in 2023. Shipments of MicroLED displays will increase to **42.4mn units in 2029** to account for **1.1%** of total FPD shipments, with a **180.6% CAGR** during 2022–29.

2029 MicroLED Application Market Size & CAGR



Reduce MicroLED Cost For Market Penetration

The Cost of 75-inch 3840x2160 LTPS/RGB MicroLED Display Cost vs. MicroLED TV shipment



(source: Omdia Report)

MicroLED TVs in CES 2024

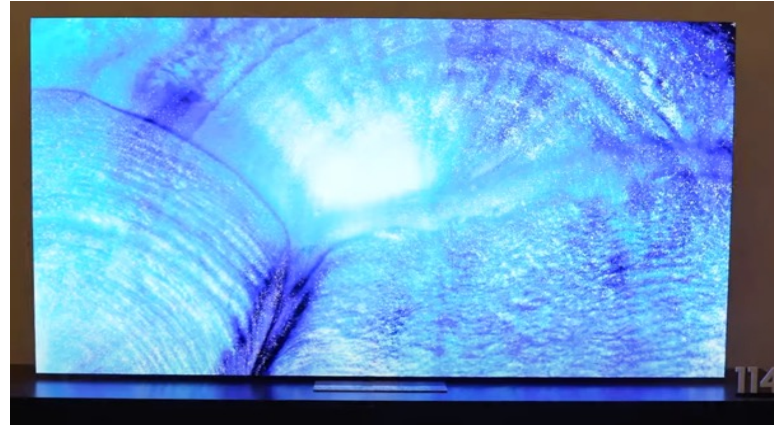
140"

The one and only



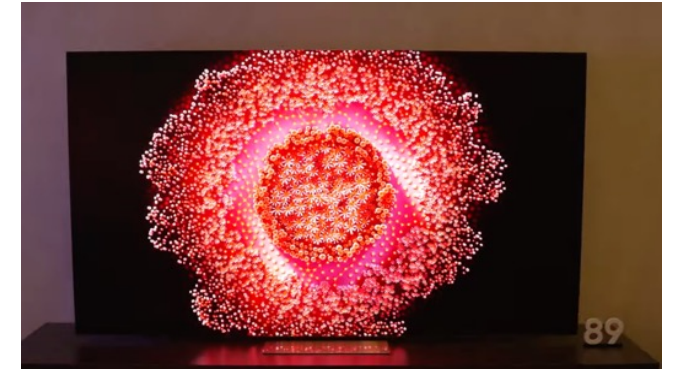
140

114"



114

89"



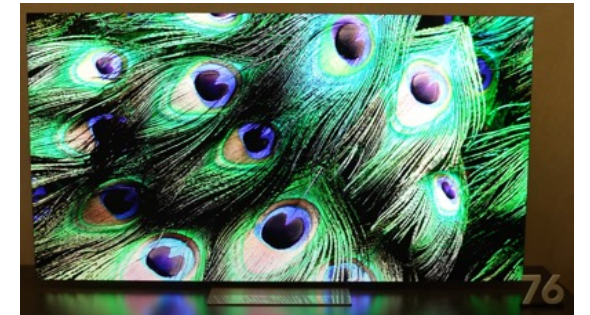
89

101"



101

76"



76

(source: SamMobile YouTube)

Samsung Electronics unveiled its newest MicroLED TV Lineup in CES 2024.

The 2024 MicroLED lineup offers new models ranging from 50 to 140-inches (50, 63, 76, 89, 101, 114 and 140-inches) to provide consumers with a breadth of options for unparalleled picture quality and screen experience. Thanks to its modular nature, MicroLED is not bound by shape, ratio and size, making it completely customizable to fit a consumer's desired set up. In addition, it comes without bezels, so regardless of configuration, the boundary between screen and real life is seamless.

MicroLED in CES 2024

Samsung Transparent MicroLED Display



(source: TechNews website)



(source: Tom's Guide website)

MicroLED in CES 2024

AUO Transparent MicroLED Display

	
Size	30-inch
Tech	Micro LED
Resolution	960x540
Pixel pitch	0.69mm
Brightness	600cd/m ²
LED type	RGB/flip chip

Source: Photos taken by Omdia at CES 2024

	
Size	17.3-inch
Tech	Micro LED
Resolution	1280x720
Pixel pitch	0.3mm
Brightness	>1,200cd/m ²
Touch	TP cell = 0.5mm, 5 points

	
Size	13.5-inch
Tech	Micro LED
Resolution	1920x1080
Pixel pitch	<0.3um
Brightness	5,000cd/m ²
Pixel density	163 PPI

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(source: Omdia Report)

MicroLED in CES 2024

AUO Automotive MicroLED Display



Interactive Transparent Window
(2024 CES Innovation Award)



Rollable Rear Seat Entertainment
(2024 CES Innovation Award)

(Source: AUO Website)

MicroLED in CES 2024

CarUX Automotive MicroLED Display



(source: TechNews website)

Pixiu 3 Premium



- 9.6" Micro LED
- 229 PPI (1920x1080)
- 1,000 nits

(source: CarUX Website)

MicroLED in CES 2024

Continental creates world's first see-through car display in Swarovski crystal

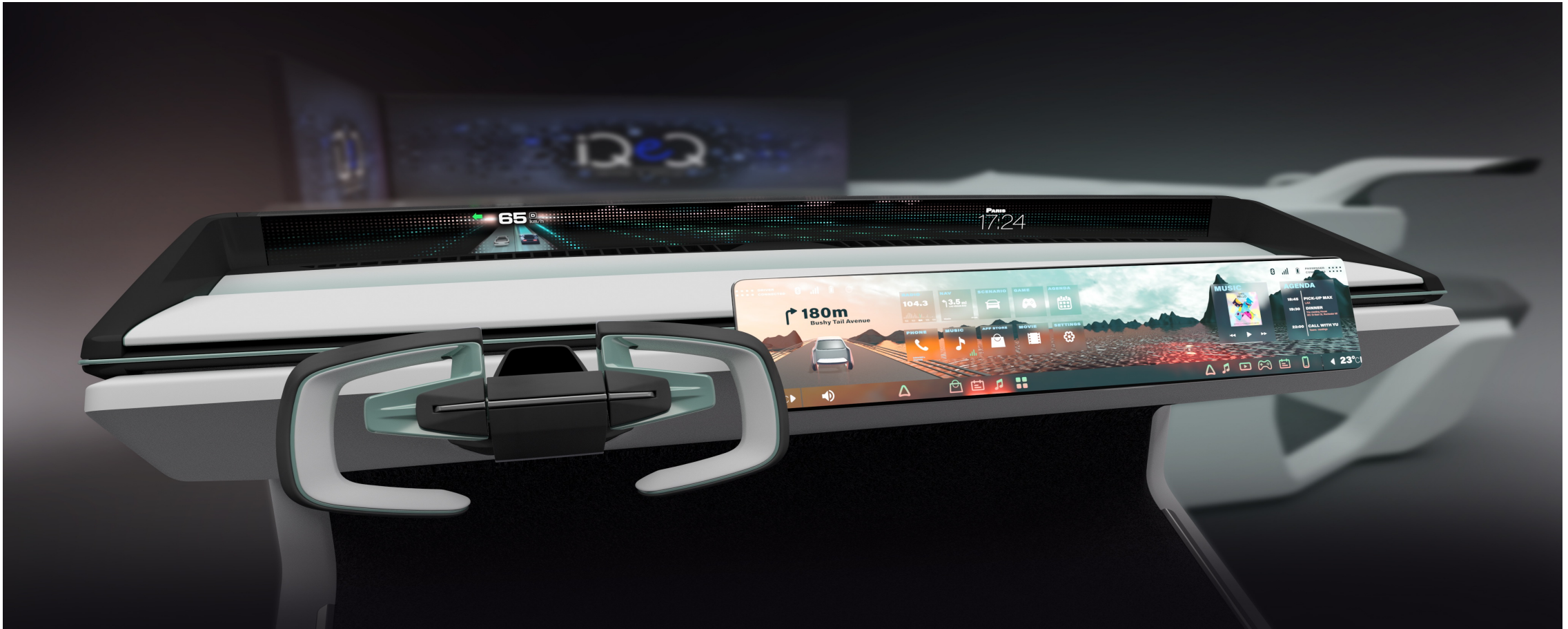


2024 CES Innovation Award: “10-inch Crystal Center Display”, features an image-generated MicroLED panel embedded in a Swarovski crystal casing that creates the effect of floating on the screen by displaying the content in high brightness and high contrast.

(source: Continental Press Release)

MicroLED in CES 2024

FORVIA's Skyline Immersive Display



2024 CES Innovation Award "Skyline Immersive Display" : A continuous display that sits between the windshield and instrument panel reduces the amount of shift of the driver's gaze from the road to the display, creating a safer driving experience.

(source: FORVIA Newsroom)

Large-sized MicroLED Display (Modular PCB)

PIXELED
MATRIX

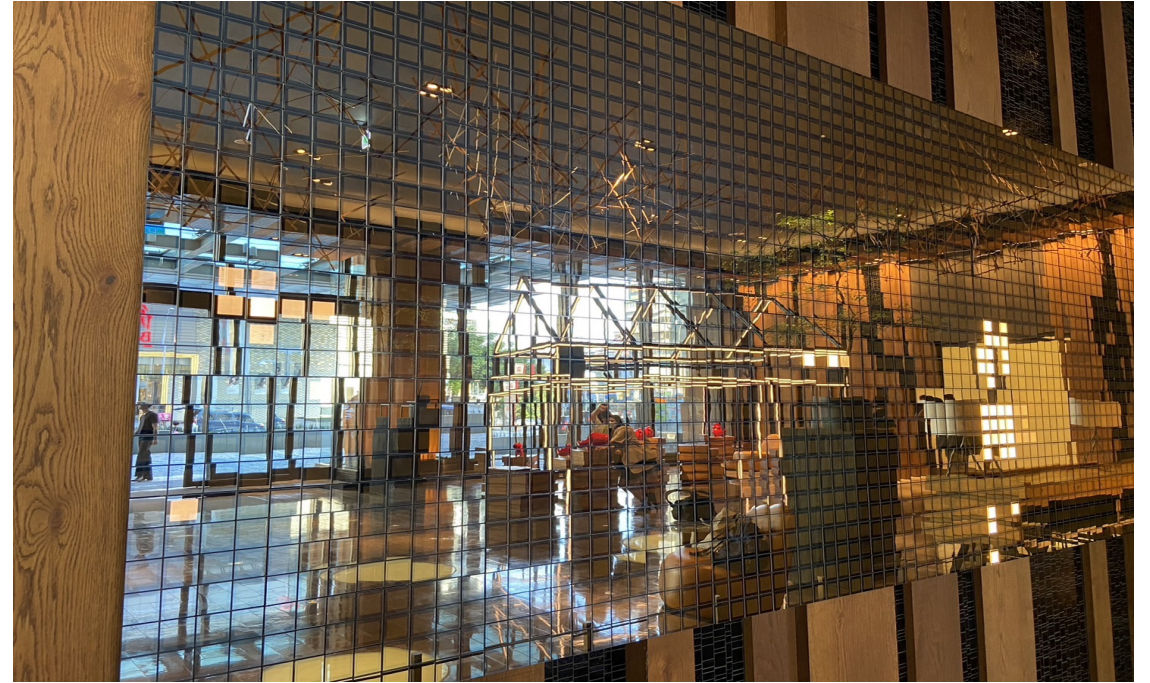


89" 5K 32:9 P0.43 Curved Monitor
(Seamless tiling by 168 modules)



166" 5K P0.833 Waterfall Display
(Seamless tiling by 324 modules)
2023 SID Best MicroLED-based Technology Award

Interactive Installation Art



Designed 10 years ago by Random International Design Company, this contemporary artwork "To Light You Fade", originally adopting OLED organic light-emitting materials, was re-interpreted by PlayNitride in this October, spliced by 2688 panels with tens of millions of MircoLED, fully showing the beautiful mirror luster and dynamic gradient light and shadow, resurrecting this interactive installation art and injecting sustainable vitality into it.

Wearable MicroLED Display

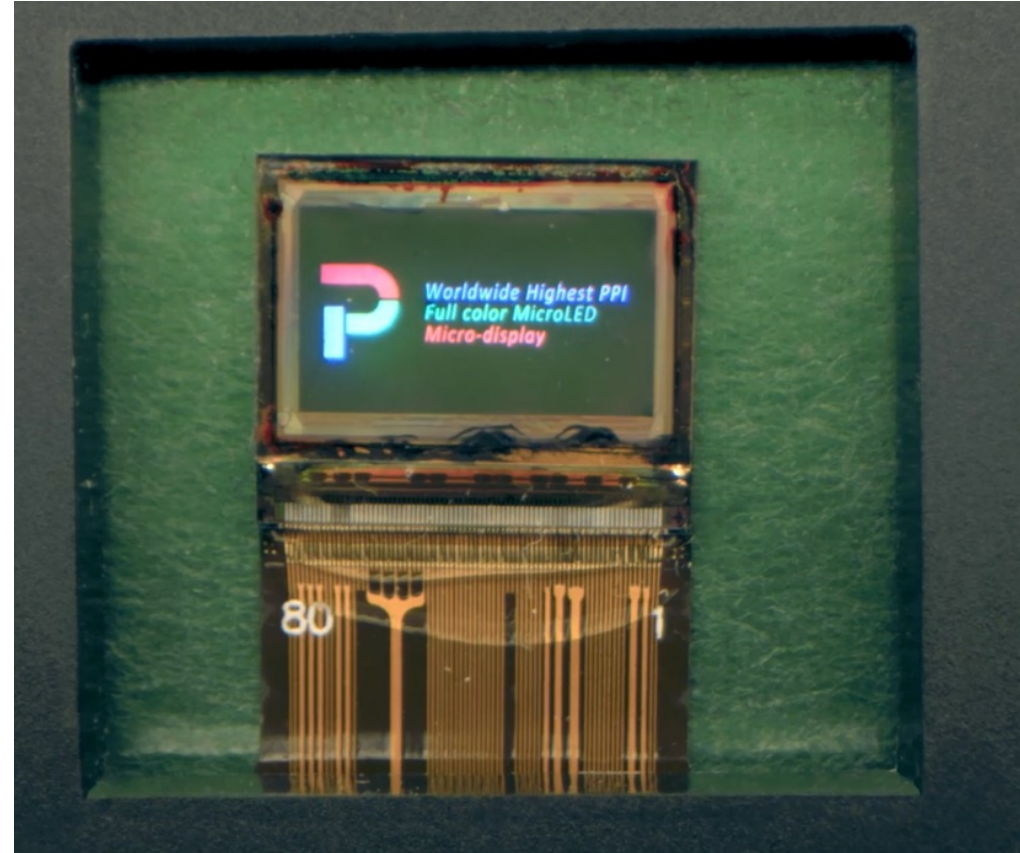


1.39" 338ppi MicroLED Circular Display

MicroLED Micro-Display Is the Key for AR Glasses

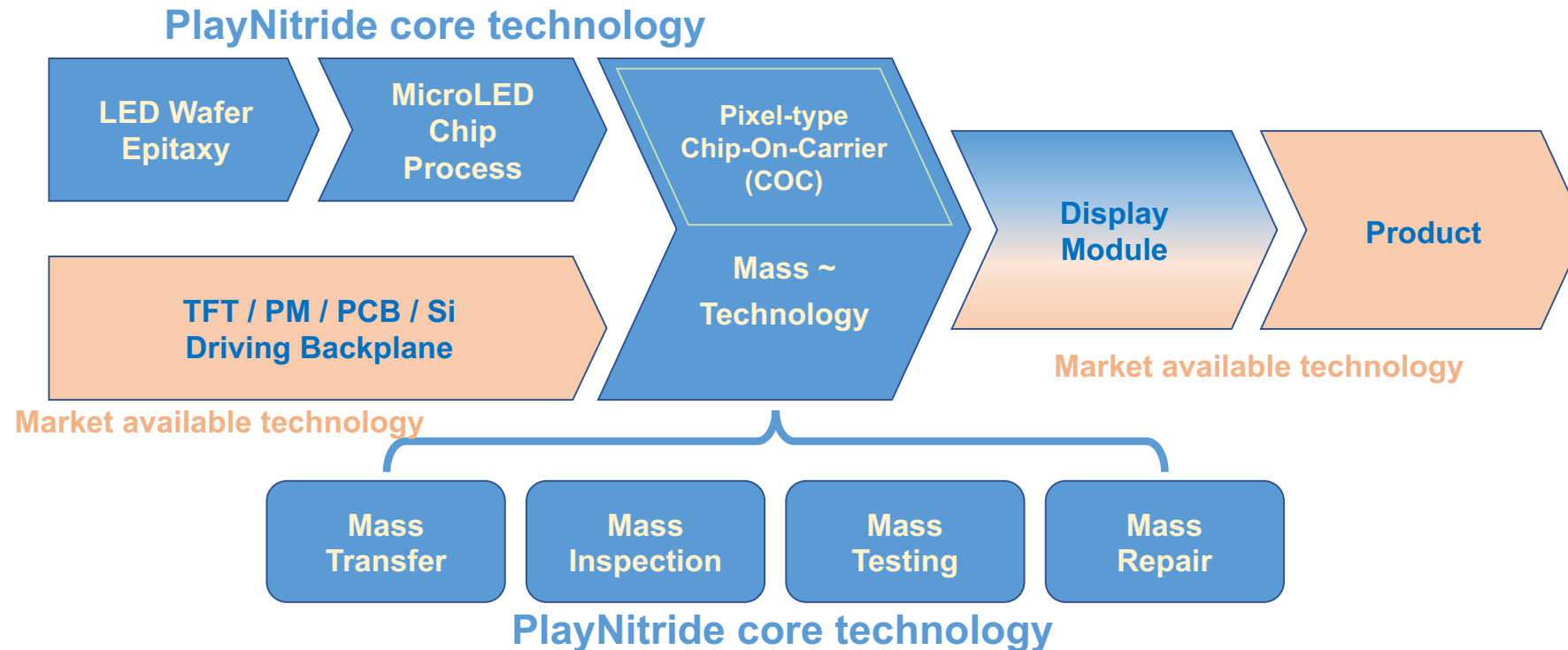


2023 SID Best AR/VR/MR Demo/Product



- 0.49-inch MicroLED μ -display
- 1920*1080 (FHD)
- 4536PPI
- Full Color
- >4,000,000 MicroLED 2.5 μ m chips

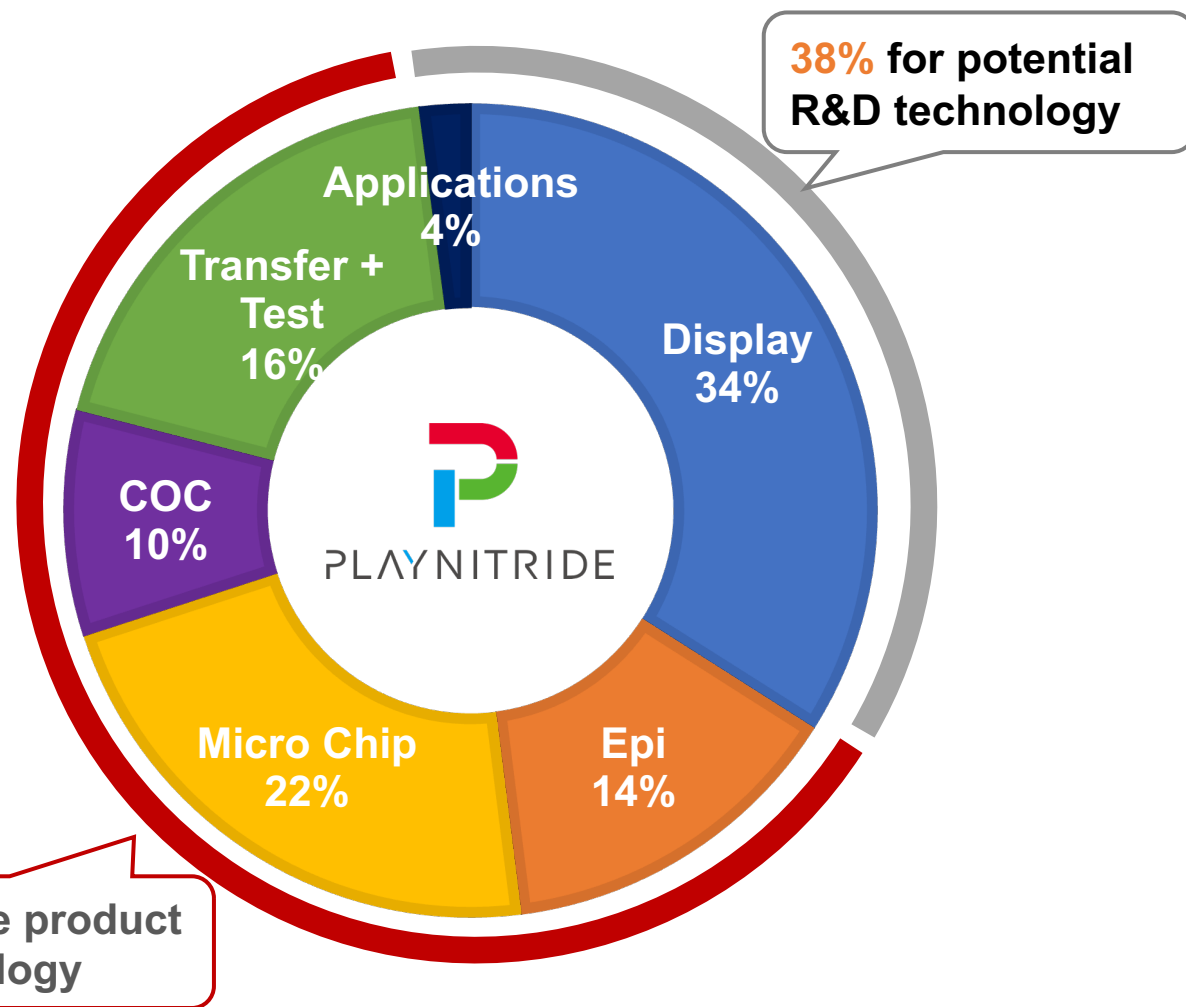
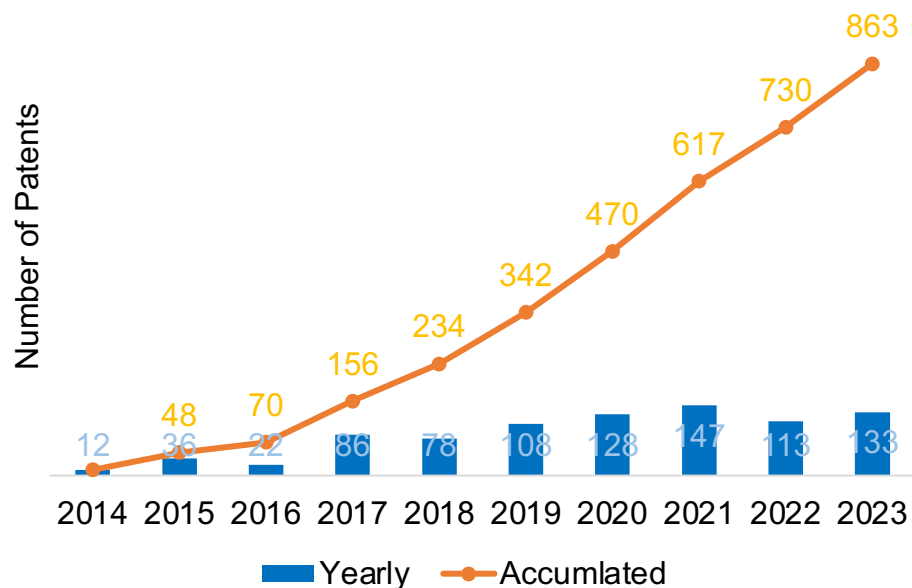
We Facilitate The MicroLED Ecosystem



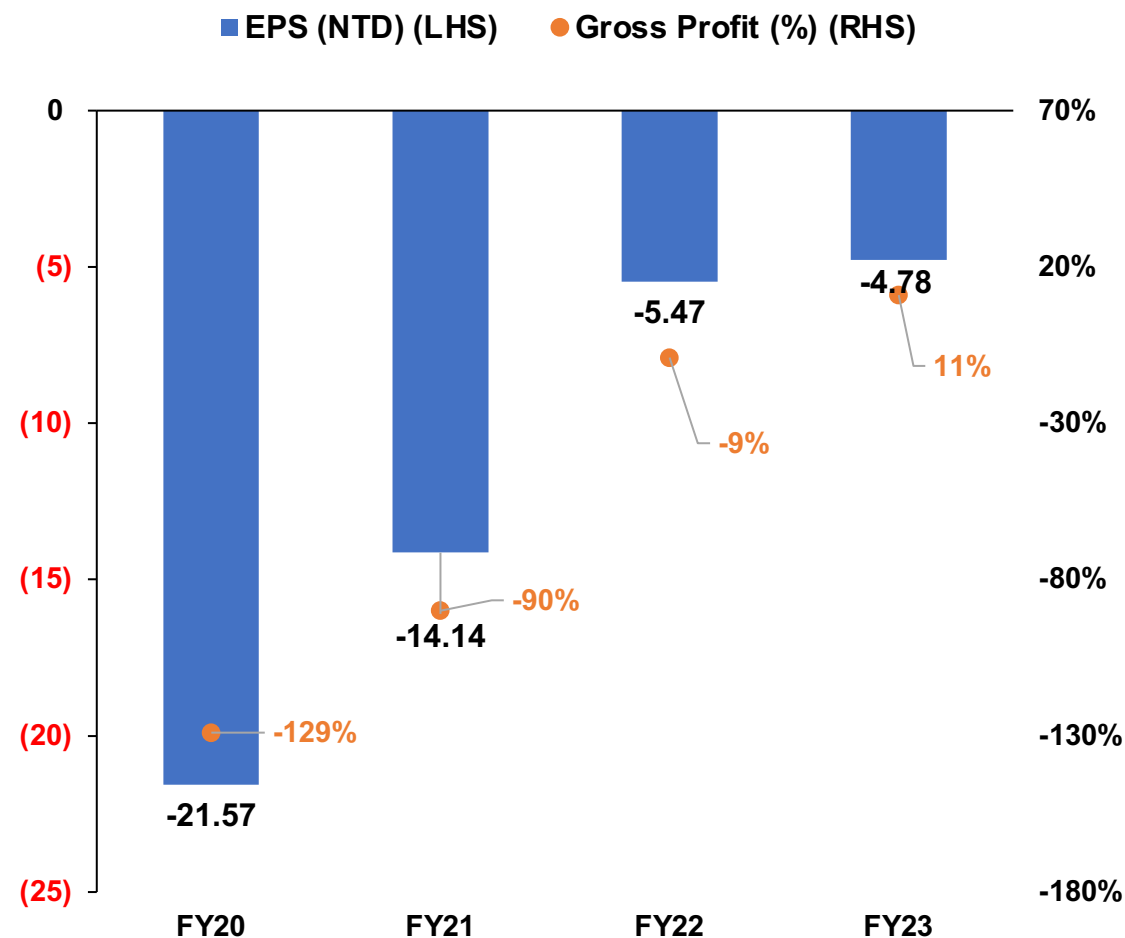
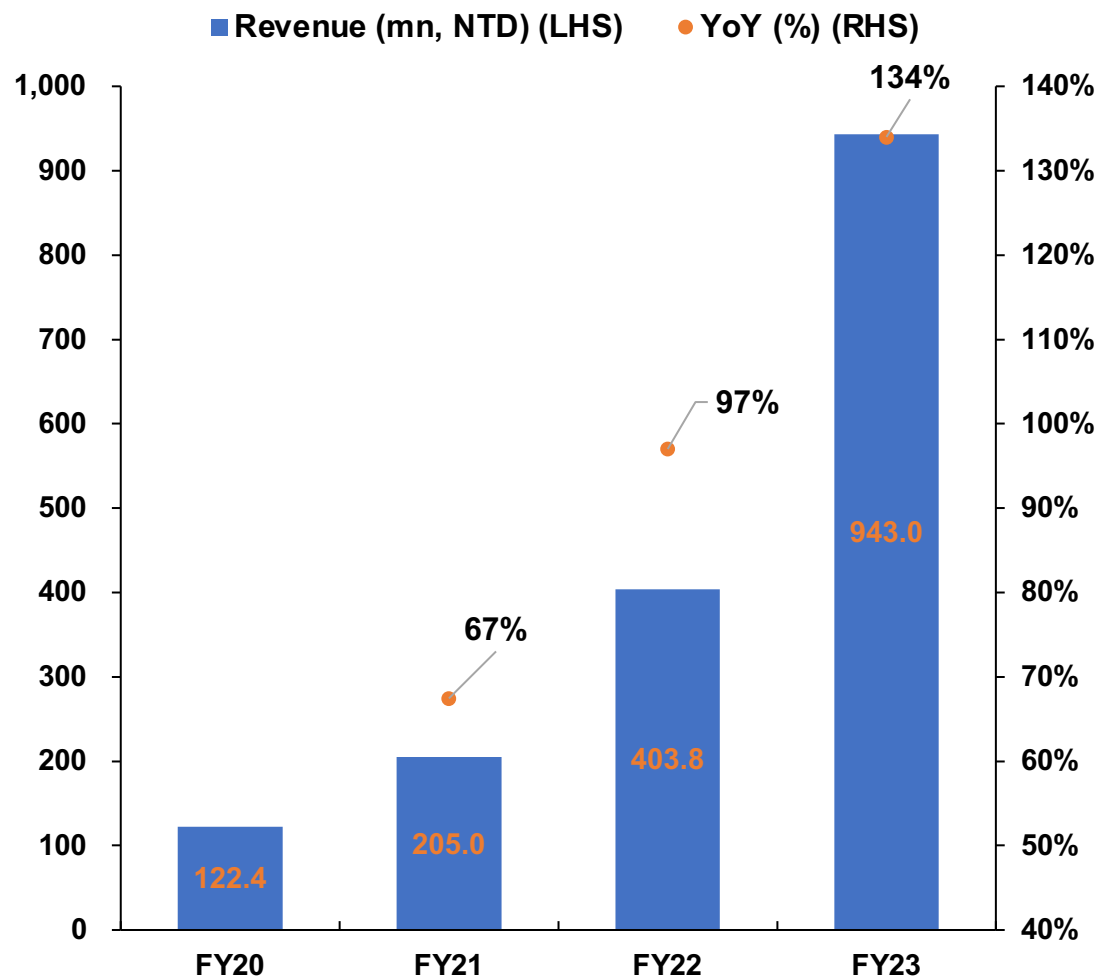
- PlayNitride is one of the few companies that owns and integrates the key technologies of MicroLED displays. We've completed technical know-how to quickly optimize production and solve new technical challenges.
- In each technical link, PlayNitride has a strong team to innovate and develop our proprietary technology.
- PlayNitride is in a leading position in the market, and widely deploys patents and shortened learning curve.

Patent Portfolio

PlayNitride total patent applications reached **863**.
Covering the entire MicroLED ecosystem.



Financial Performance



[Note] FX Gain : 2022 NTD 207million, 2023 (NTD 7.17 million)

Prospect & Planning

- **Add New Business Item:**

- In addition to COC, Turnkey Solution, and NRE, the sales of transfer equipment is to be added.

- **Diversify Customer Contributions:**

- Expanded sales team and U.S. subsidiary starts operation to develop and serve European/American/Asian markets.

- **Optimistic about Revenue Momentum:**

- Maintain the 2020-2023 revenue growth trend, continue to narrow losses, and move towards the road of break-even.

- **Continuous Investment in R&Ds:**

- Master the research and development of next-generation process technology and equipment, maintain a leading position, and accumulate future potentials.



PLAYNITRIDE

Q&A Session



Website