

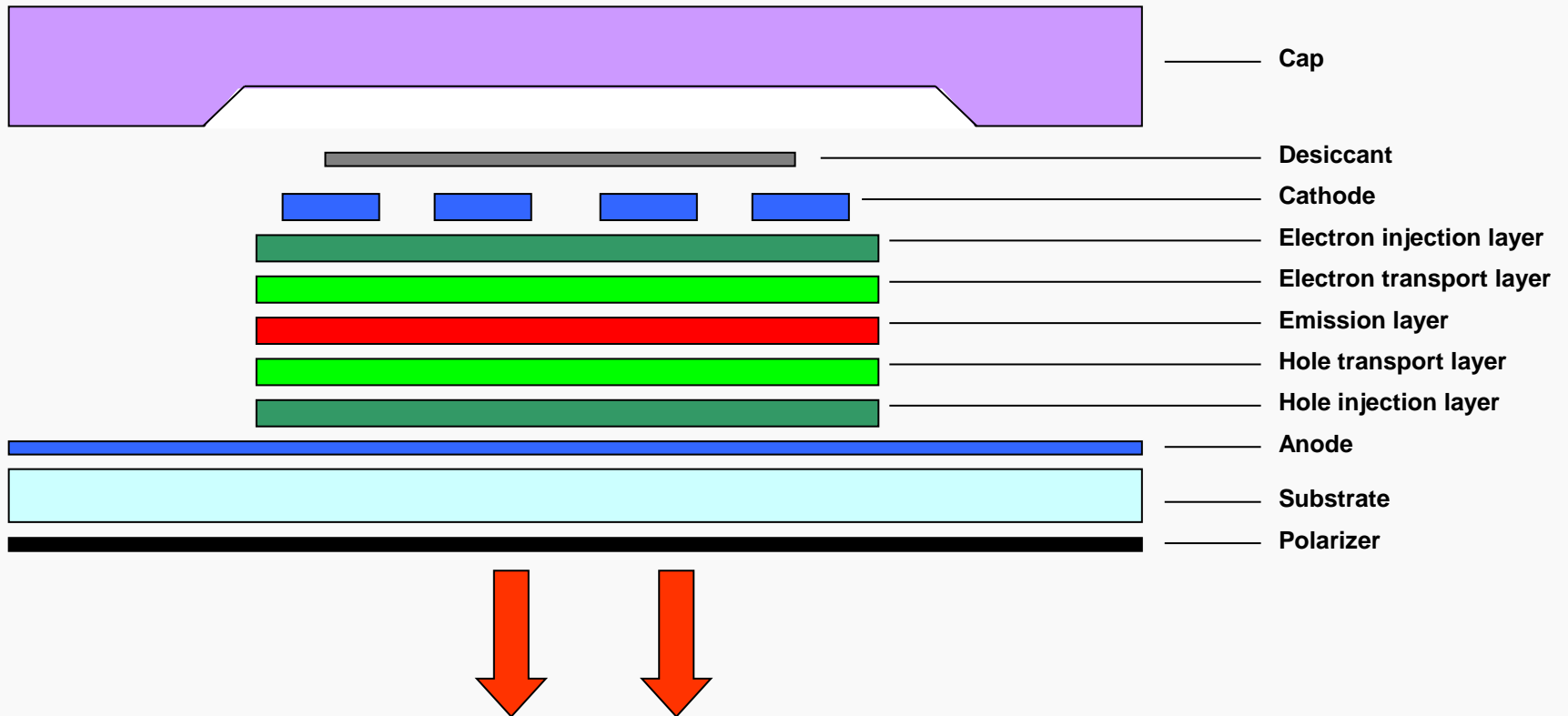
# OLED Presentation

Organic *Light-Emitting Display*

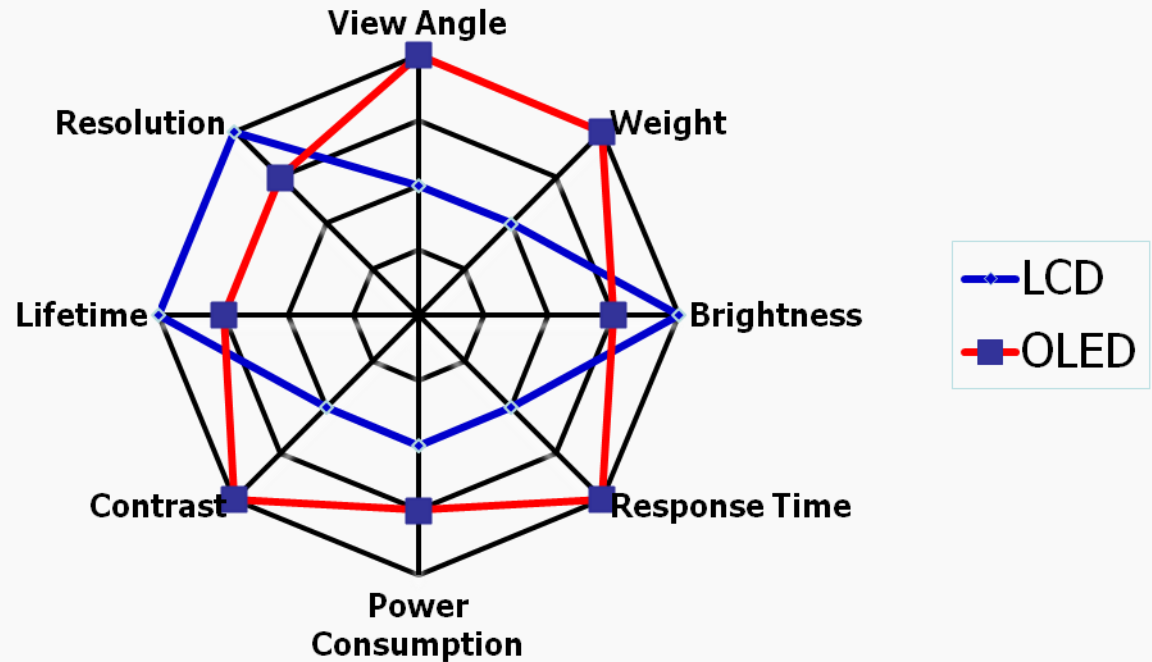


For Passive Matrix

❖ Structure of OLED

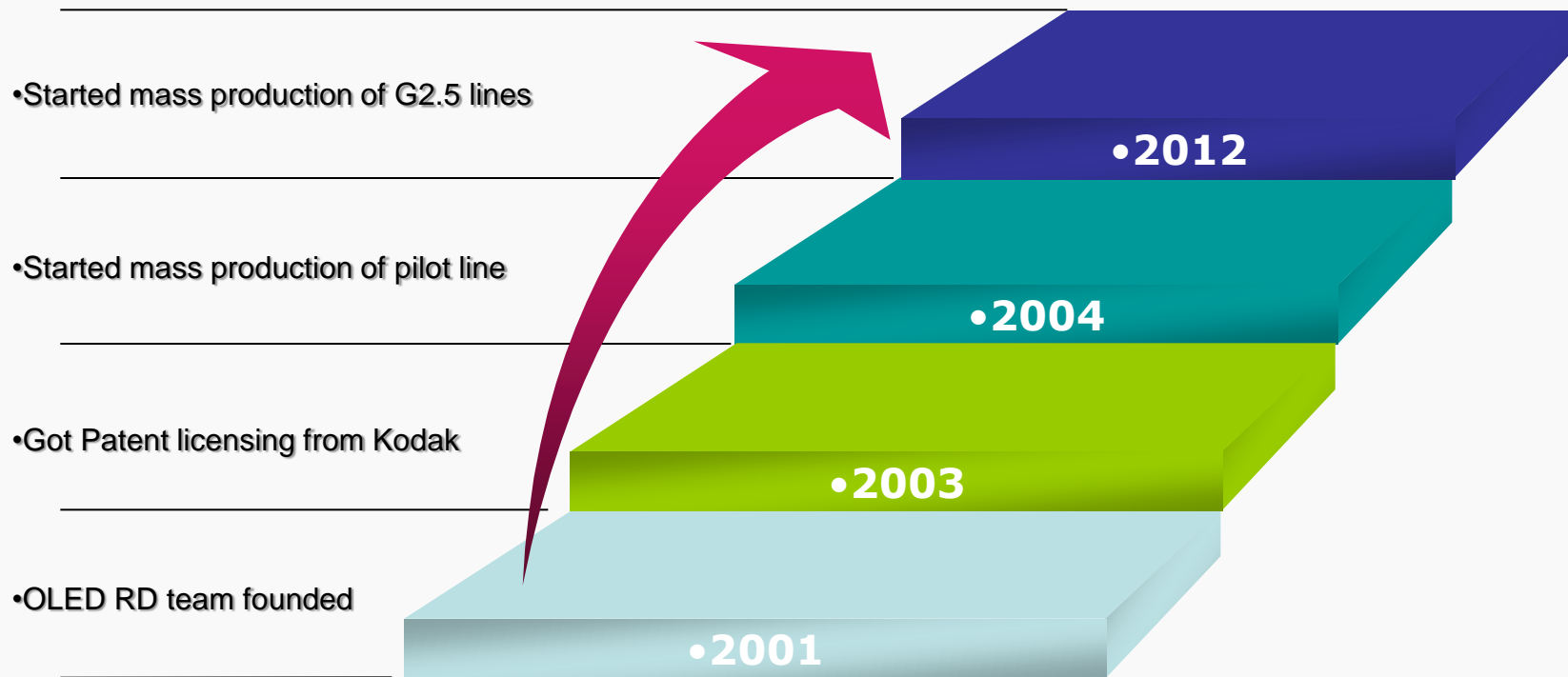


❖ Advantage of OLED

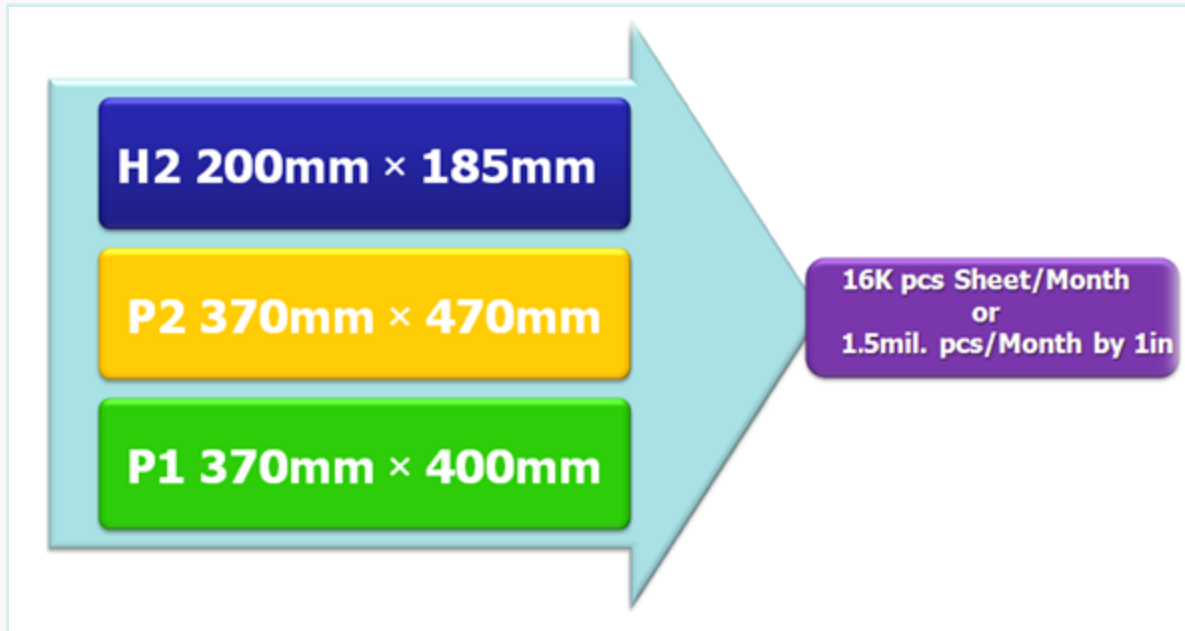


- Full view angle
- Fast response
- High contrast
- Simple structure
- Good performance under low-temperature

❖ Milestone of TRULY PMOLED



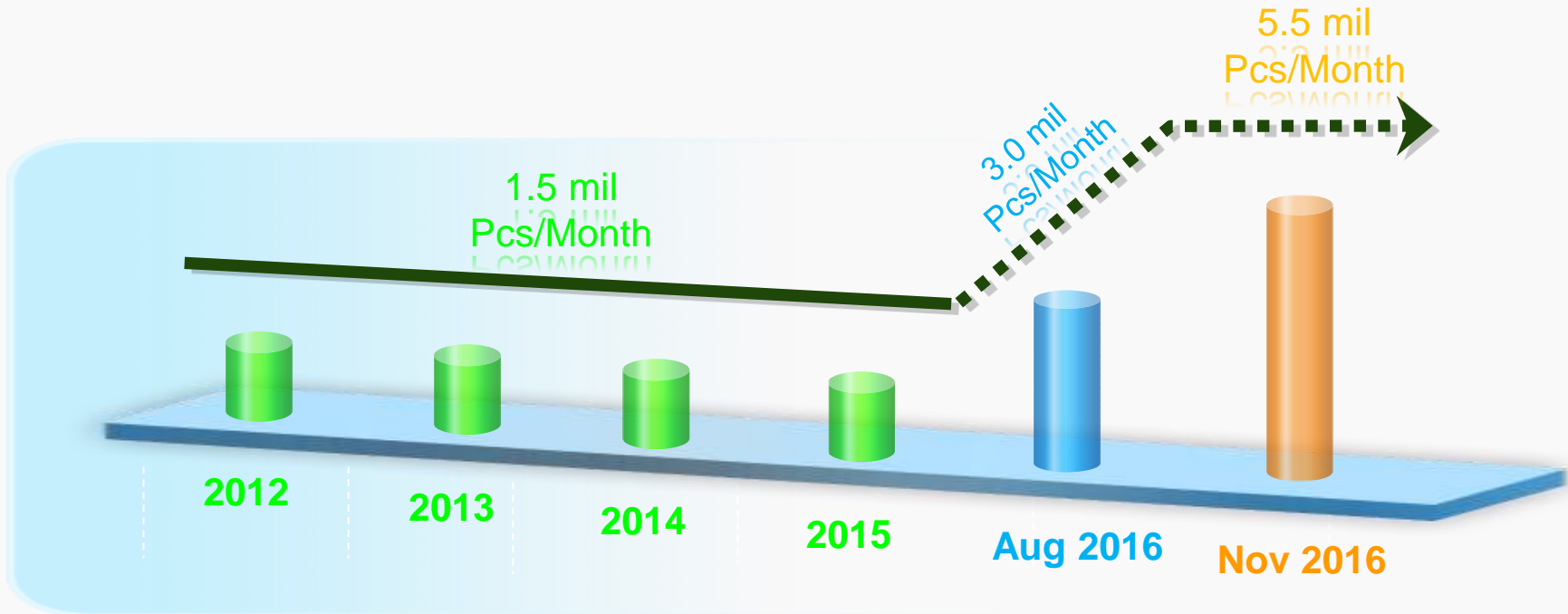
## ❖ Current Capacity of TRULY PMOLED



Cost comparison between **Pilot Line(H2)** and **Gen2.5 Line(P1&P2)**:

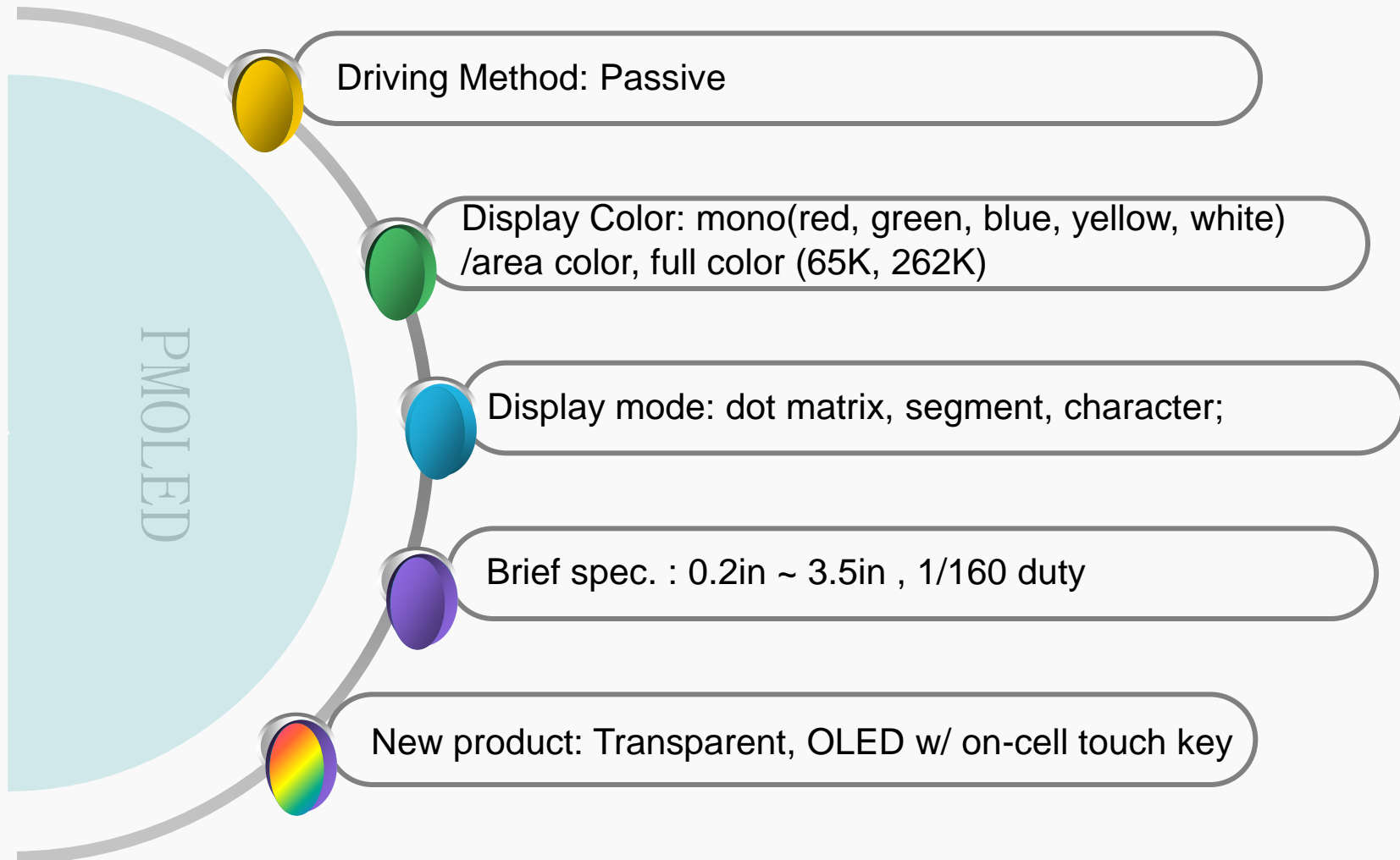
- **Pilot Line** : Lower tooling cost but higher unit price
- **Gen2.5 Line** : Higher tooling cost but lower unit price

## ❖ Capacity Roadmap

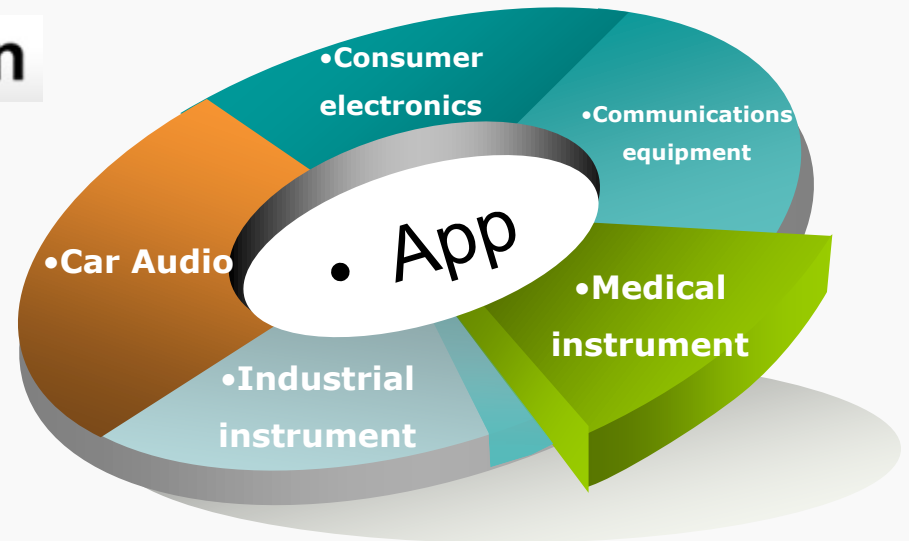


We have a new G2.5 line which will start MP from August 2016. With this new line, the total capacity will be increased to 3mil/M from August 2016, and 5.5mil/M from November 2016.

❖ Product summary

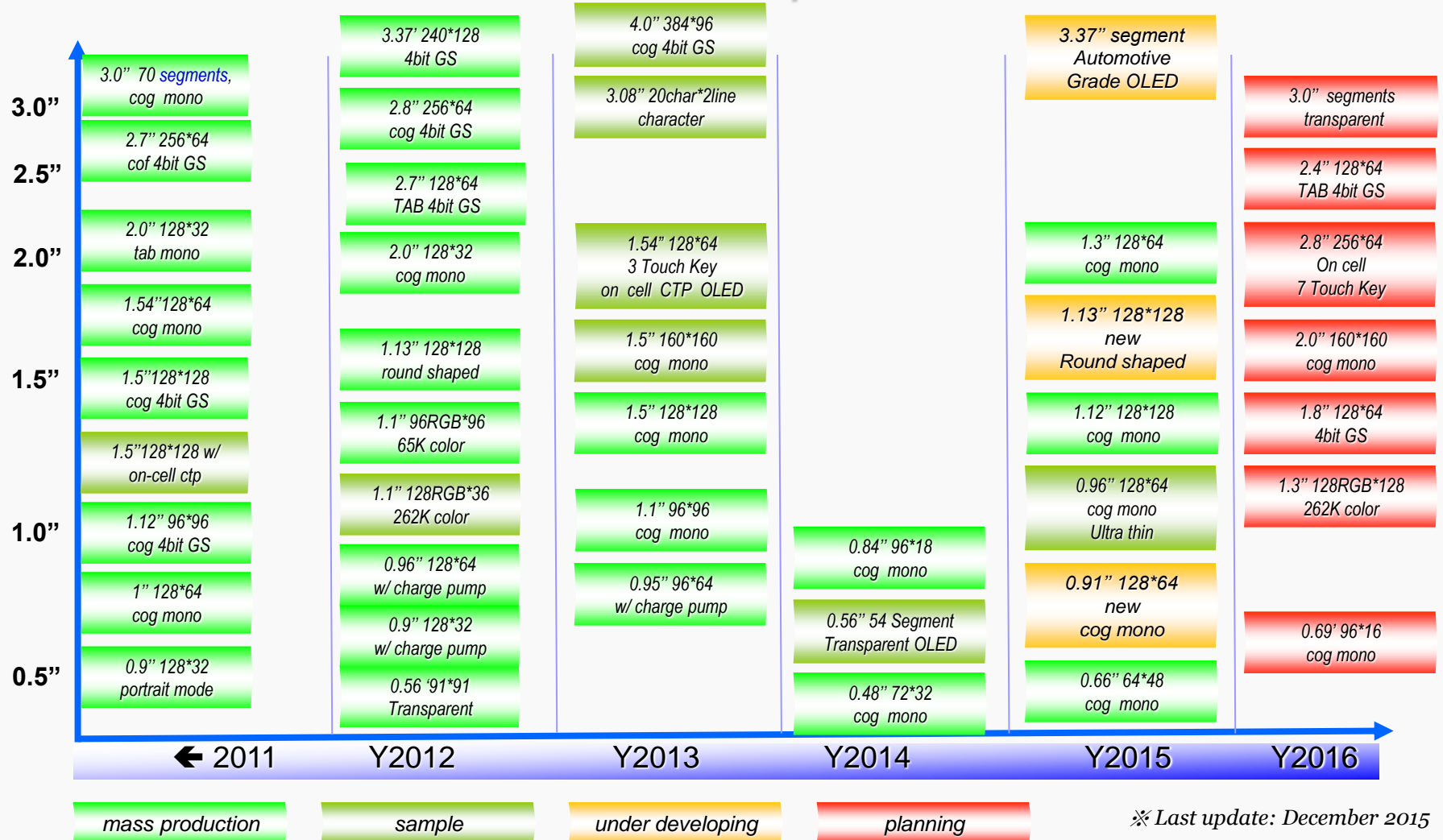


❖ Customer & Application





# PMOLED Product Roadmap



※ Last update: December 2015

•PMOLED Product list for Wearable devices

•0.48”(72\*32)

- Part No.:OEL9M0093-Y/G/R/W/B-E
- IC:SSD1309Z, mono color, Mp
- Shape : rectangular

•0.66”(64\*48)

- Part No.: OEL9M1024-Y/G/R/W/B-E
- IC: SSD1306, mono color , Mp
- Shape: : rectangular

•0.84”(96\*18)

- Part No.:OEL9M0092-Y/G/R/W/B-E
- IC:SSD1307Z2, mono color, Mp
- Shape : rectangular

•0.91”(128\*32)

- Part No.:OEL9M0084-Y/G/R/W/B-E
- IC:SH1103G, mono color, Mp
- Shape : rectangular

•0.95”(96\*64)

- Part No.:OEL9M1010-Y/G/R/W/B-E
- IC:SH1106G, mono color, Mp
- Shape : rectangular

•0.96”(128\*64)

- Part No.: OEL9M0083-Y/G/R/W/B-E
- IC: SH1106, mono color , Mp
- Shape: : rectangular

•1.1”(96\*96)

- Part No.: OEL9M1003-L3-E
- IC:LD7134, Full color Mp
- Shape : square

•1.12”(96\*96)

- Part No.: OEL9M1007-Y/G/R/W/B-E ,
- IC:SH1107G, mono color ,MP
- Shape : square

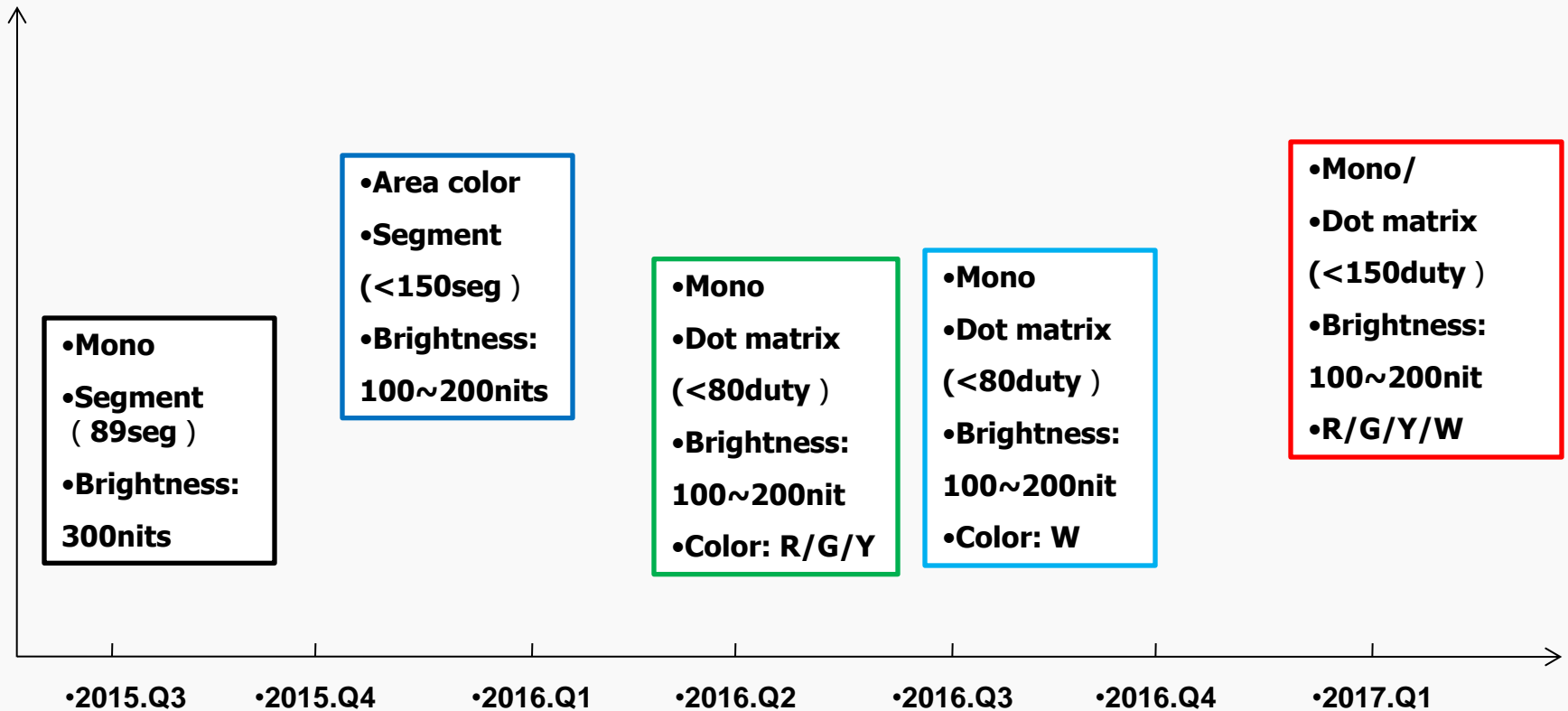
•1.12”(128\*128)

- Part No.: OEL9M1025-Y/G/R/W/B-E
- IC:SH1107G, mono color MP
- Shape : square

•1.5”(128\*128)

- Part No.:OEL9M1009-Y/G/R/W/B-E
- IC:SH1107G, mono color, Pp
- Shape : rectangular

❖ Product Roadmap for Automotive

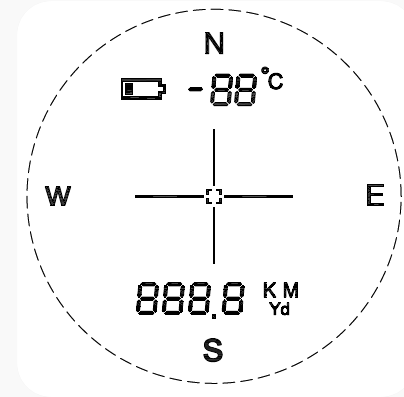


## ❖ Featured Products



↶ Display OFF

- ➔ 0.56in 54 Segments, monochrome
- ➔ Transmittance: 40%
- ➔ Target market: range finder, night vision device , accessories etc.
- ➔ Key feature over LCDs: Self Emission



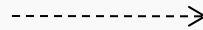
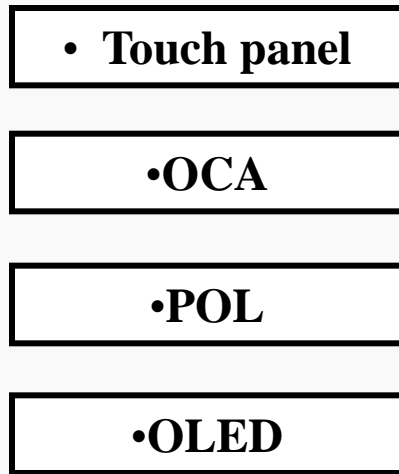
➔ Display ON



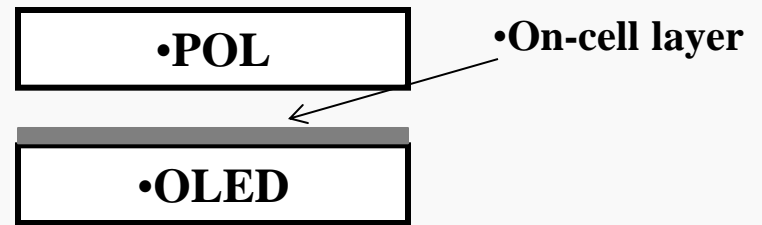
**•PMOLED with  
On-cell touch key**

❖ *On-cell OLED structure*

**• Traditional type**



**• On-cell type**



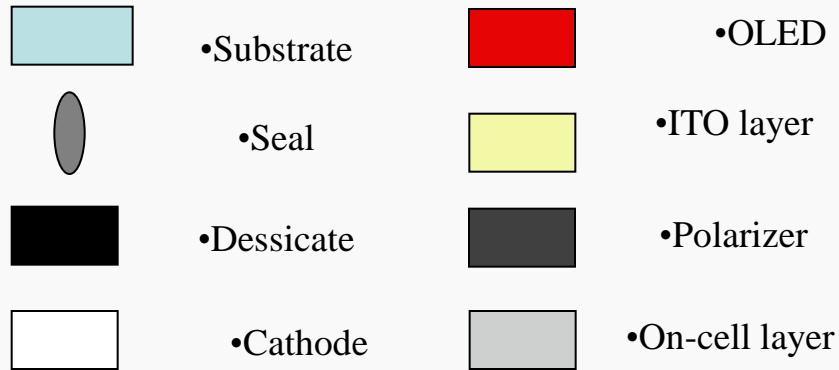
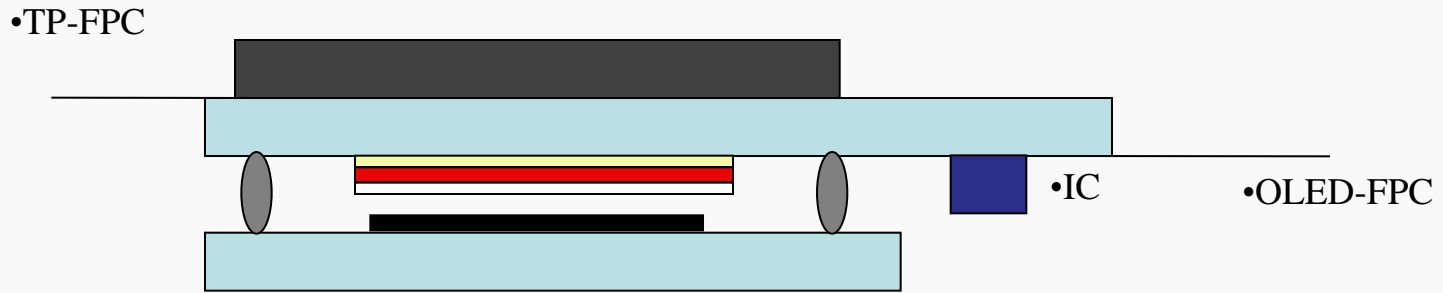
*Brighter*

*Thinner*

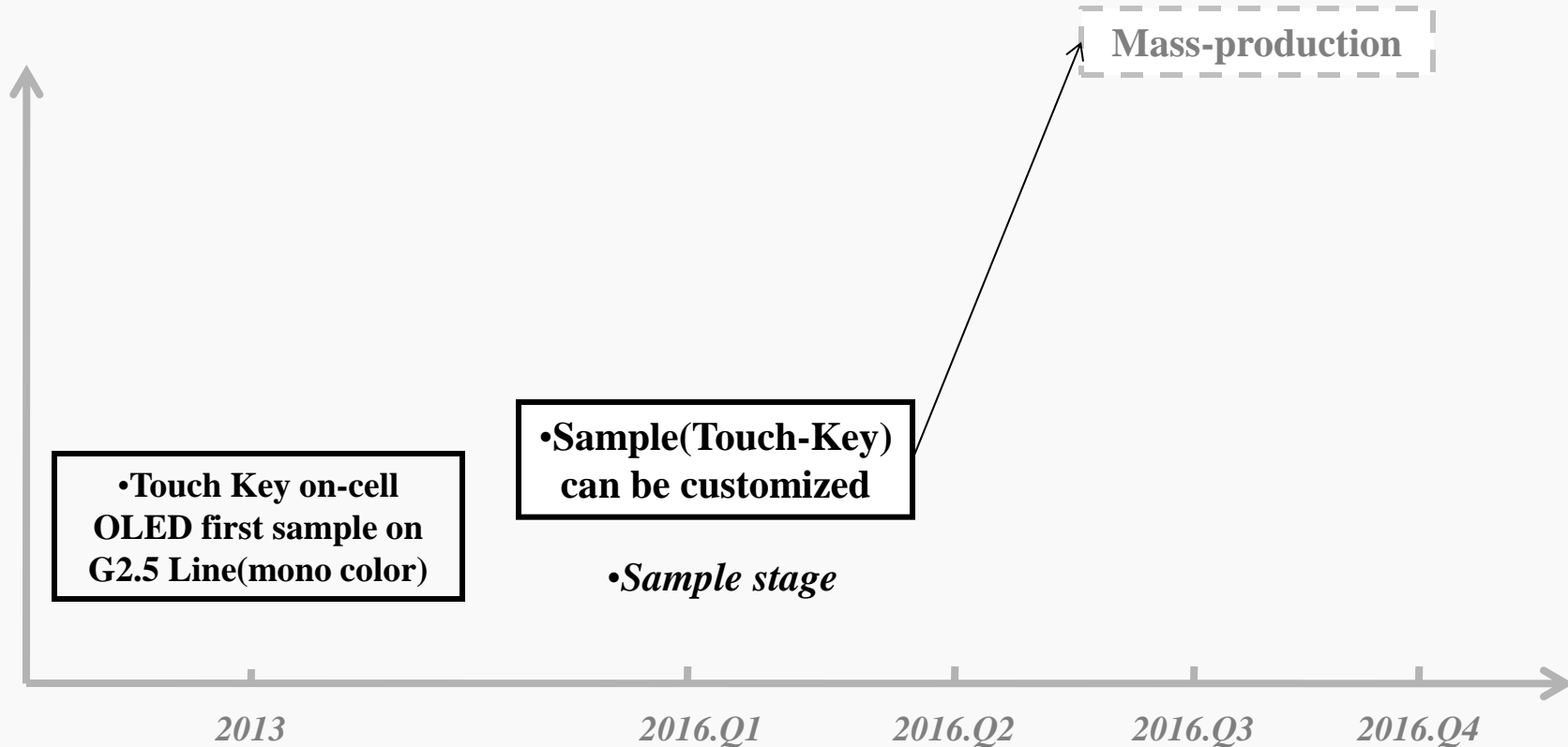
*Simpler*

*Thickness can be 1.2mm*

❖ *Truly On-cell OLED structure*



❖ Roadmap for on-cell OLED





## ❖ On-cell OLED target market



- ● Smart watch
- ● Wrist band
- ● Smart home system
- ● Industrial
- ● Medical

•Curved  
**PMOLED**

❖ OLED Development

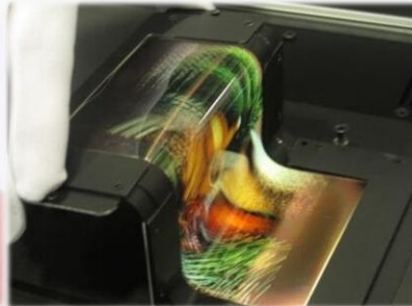
•Rigid



•Curved



•Foldable



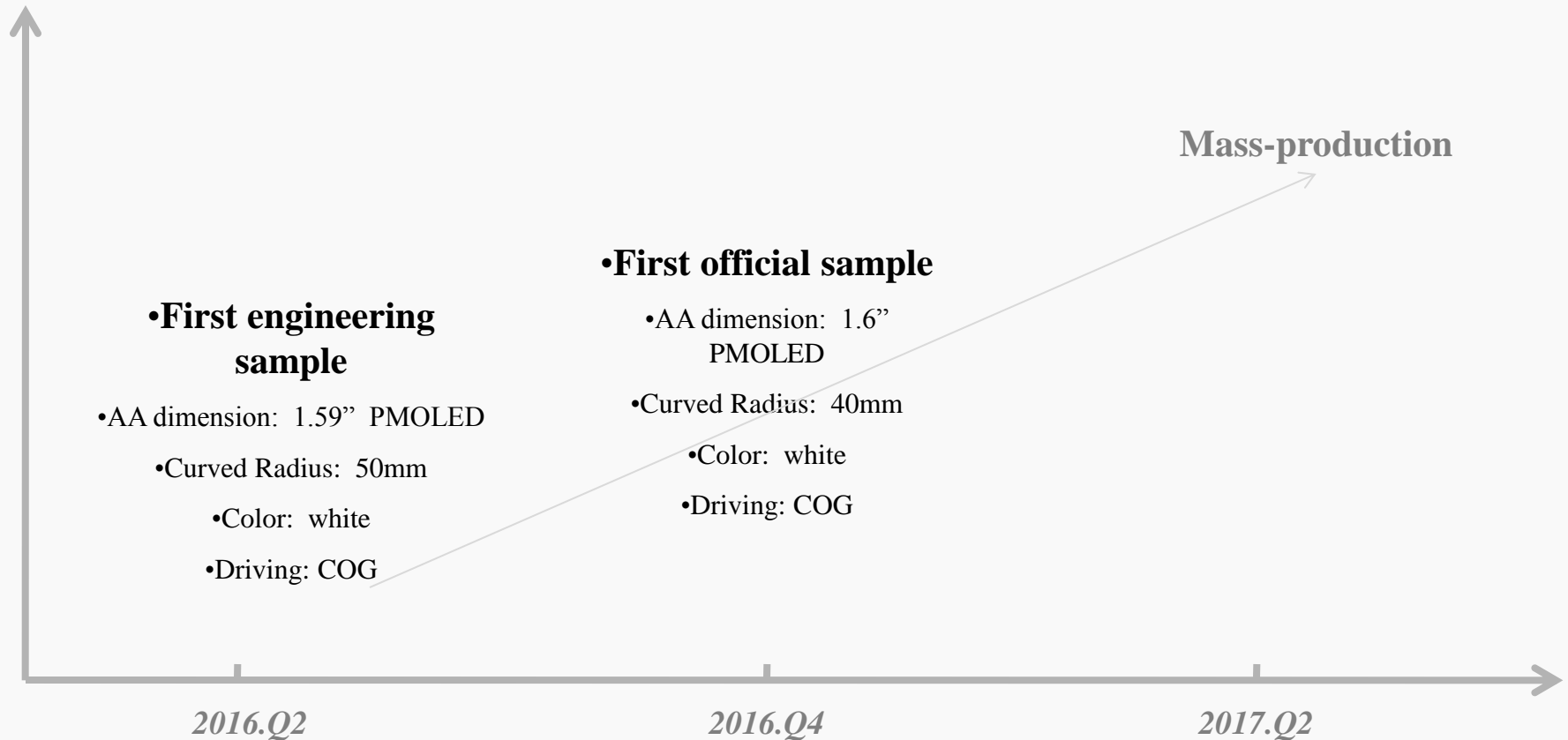
•Rollable



•Glass substrate

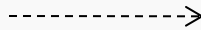
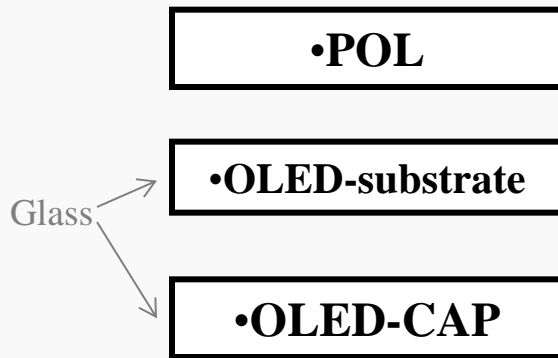
•Polymer substrate

❖ Roadmap for Curved OLED

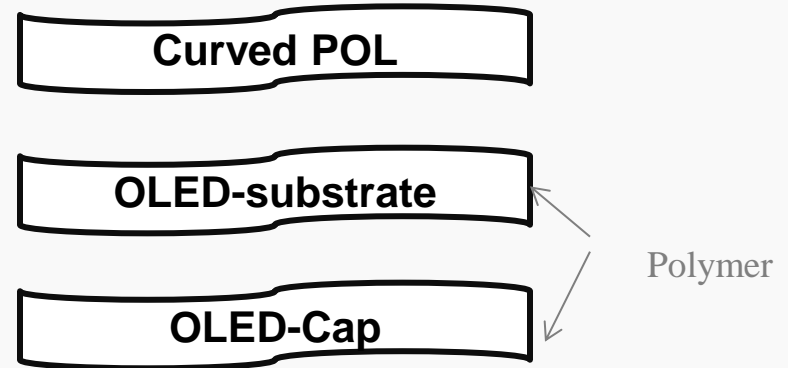


❖ Curved OLED structure

•Rigid OLED



•Curved OLED



❖ *Curved OLED Target Market*



•*Curved watch*



•*Curved wrist band*

Thank you!