

# AMOLED Components & Material Market Track - 1Q19 Data Tables

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# ■ Sales Performance of Components & Material Summary\_Quarterly

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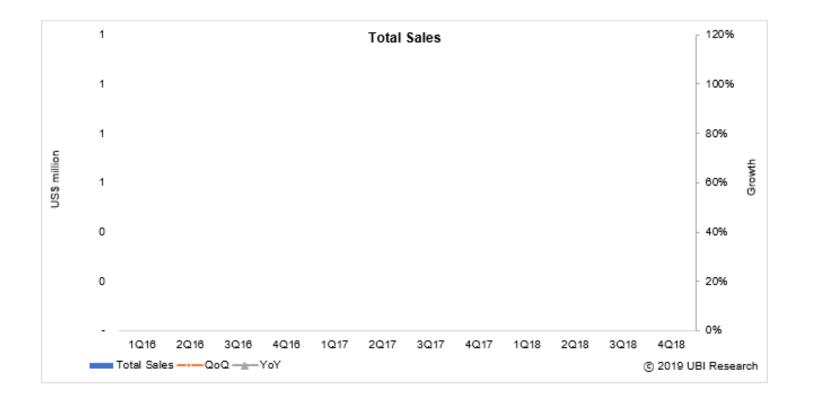
Total Sales

\* Market of Key 18 components for OLED

### <Image Example>

> Total Sales (US\$ million)

|             | 1Q16 | 2Q16 | 3Q16 | 4Q16 | 1Q17 | 2Q17 | 3Q17 | 4Q17 | 1Q18 | 2Q18 | 3Q18 | 4Q18 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Total Sales |      |      |      |      |      |      |      |      |      |      |      |      |
| QoQ         |      |      |      |      |      |      |      |      |      |      |      |      |
| YoY         |      |      |      |      |      |      |      |      |      |      |      |      |





# ■ Components & Material Market Sales Performance\_Quarterly

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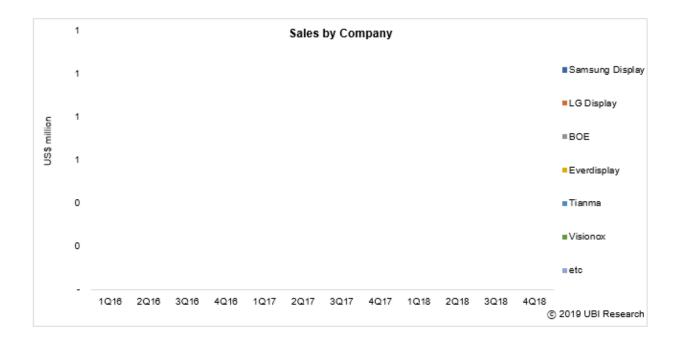
- Sales By Components & Material and the Market Share
- Sales by Company and the Market Share
- Sales by Application and the Market Share

#### <Image Example>

> Sales by Company

(US\$ million)

| Company         | 1Q16 | 2Q16 | 3Q16 | 4Q16 | 1Q17 | 2Q17 | 3Q17 | 4Q17 | 1Q18 | 2Q18 | 3Q18 | 4Q18 |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Samsung Display |      |      |      |      |      |      |      |      |      |      |      |      |
| LG Display      |      |      |      |      |      |      |      |      |      |      |      |      |
| BOE             |      |      |      |      |      |      |      |      |      |      |      |      |
| Everdisplay     |      |      |      |      |      |      |      |      |      |      |      |      |
| Tianma          |      |      |      |      |      |      |      |      |      |      |      |      |
| Visionox        |      |      |      |      |      |      |      |      |      |      |      |      |
| etc             |      |      |      |      |      |      |      |      |      |      |      |      |
| Total           |      |      |      |      |      |      |      |      |      |      |      |      |



<sup>\*</sup> Market of Key 18 components for OLED



# ■ Components & Material Supply Volume\_Quarterly

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Supply Volume By Components & Material

## <Image Example>

> Supply Volume By Components & Material

| Compone       | nts & Material           | Unit   | 1Q16 | 2Q16 | 3Q16 | 4Q16 | 1Q17 | 2Q17 | 3Q17 | 4Q17 | 1Q18 | 2Q18 | 3Q18 | 4Q18 |
|---------------|--------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|
|               | Substrate glass          | 1,000ൻ |      |      |      |      |      |      |      |      |      |      |      |      |
| Substrate     | Carrier glass            | 1,000ൻ |      |      |      |      |      |      |      |      |      |      |      |      |
|               | Polyimide                | Ton    |      |      |      |      |      |      |      |      |      |      |      |      |
| TFT           | PSPI                     | Ton    |      |      |      |      |      |      |      |      |      |      |      |      |
|               | Frit glass               | Ton    |      |      |      |      |      |      |      |      |      |      |      |      |
| Encapsulation | Encapsulation glass      | 1,000ൻ |      |      |      |      |      |      |      |      |      |      |      |      |
| Encapsulation | Thin film encapsulation  | Ton    |      |      |      |      |      |      |      |      |      |      |      |      |
|               | Metal Foil & FSA         | 1,000ൻ |      |      |      |      |      |      |      |      |      |      |      |      |
|               | On-cell touch            | 1,000ൻ |      |      |      |      |      |      |      |      |      |      |      |      |
| Touch sensor  | Add-on Touch             | 1,000ൻ |      |      |      |      |      |      |      |      |      |      |      |      |
|               | Over coat(on-cell touch) | Ton    |      |      |      |      |      |      |      |      |      |      |      |      |
| Polarizer     | Polarizer                | 1,000ൻ |      |      |      |      |      |      |      |      |      |      |      |      |
| Adhesive      | OCR                      | Ton    |      |      |      |      |      |      |      |      |      |      |      |      |
| Autresive     | OCA                      | 1,000ൻ |      |      |      |      |      |      |      |      |      |      |      |      |
| Cover window  | 2D & 3D glass            | M EA   |      |      |      |      |      |      |      |      |      |      |      |      |
|               | Driver IC & COF          | M EA   |      |      |      |      |      |      |      |      |      |      |      |      |
| Module        | Complex sheet            | 1,000m |      |      |      |      |      |      |      |      |      |      |      |      |
|               | Process Film             | 1,000ൻ |      |      |      |      |      |      |      |      |      |      |      |      |

<sup>\*</sup> Market of Key 18 components for OLED



# **■** Average Sales Price of Components & Materials

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 Average Sales Price of Components & Materials

## <Image Example>

> Average Sales Price of Components & Materials

| Componen      | its & Material           | Unit  | 1Q16 | 2Q16 | 3Q16 | 4Q16 | 1Q17 | 2Q17 | 3Q17 | 4Q17 | 1Q18 | 2Q18 | 3Q18 | 4Q18 |
|---------------|--------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
|               | Substrate glass          | \$/m² |      |      |      |      |      |      |      |      |      |      |      |      |
| Substrate     | Carrier glass            | \$/m² |      |      |      |      |      |      |      |      |      |      |      |      |
|               | Polyimide                | \$/kg |      |      |      |      |      |      |      |      |      |      |      |      |
| TFT           | PSPI                     | \$/kg |      |      |      |      |      |      |      |      |      |      |      |      |
|               | Frit glass               | \$/kg |      |      |      |      |      |      |      |      |      |      |      |      |
| Encapsulation | Encapsulation glass      | \$/m² |      |      |      |      |      |      |      |      |      |      |      |      |
| Encapsulation | Thin film encapsulation  | \$/kg |      |      |      |      |      |      |      |      |      |      |      |      |
|               | Metal Foil & FSA         | \$/m² |      |      |      |      |      |      |      |      |      |      |      |      |
|               | On-cell touch            | \$/m² |      |      |      |      |      |      |      |      |      |      |      |      |
| Touch sensor  | Add-on Touch             | \$/m² |      |      |      |      |      |      |      |      |      |      |      |      |
|               | Over coat(on-cell touch) | \$/kg |      |      |      |      |      |      |      |      |      |      |      |      |
| Polarizer     | Polarizer                | \$/m² |      |      |      |      |      |      |      |      |      |      |      |      |
| Adhesive      | OCR                      | \$/kg |      |      |      |      |      |      |      |      |      |      |      |      |
| Adnesive      | OCA                      | \$/m² |      |      |      |      |      |      |      |      |      |      |      |      |
| Cover window  | 2D & 3D glass            | \$/ea |      |      |      |      |      |      |      |      |      |      |      |      |
|               | Driver IC & COF          | \$/ea |      |      |      |      |      |      |      |      |      |      |      |      |
| Module        | Complex sheet            | \$/m² |      |      |      |      |      |      |      |      |      |      |      |      |
|               | Process Film             | \$/m² |      |      |      |      |      |      |      |      |      |      |      |      |

<sup>\*</sup> Market of Key 18 components for OLED



# **■** Components & Materials Market Sales Forecast Summary

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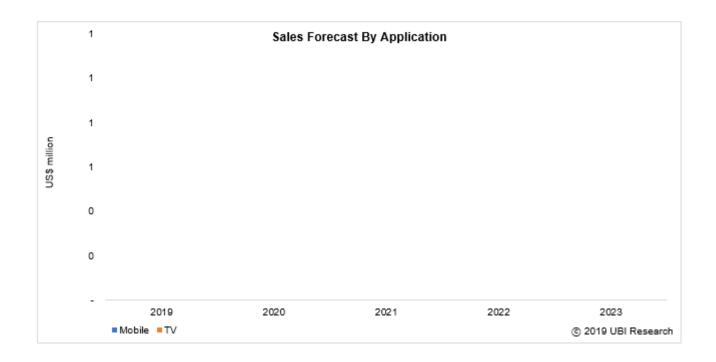
- Total Sales Forecast
- Sales Forecast By Application

## <Image Example>

> Sales Forecast By Application

(US\$ million)

| Application | 2019 | 2020 | 2021 | 2022 | 2023 |
|-------------|------|------|------|------|------|
| Mobile      |      |      |      |      |      |
| TV          |      |      |      |      |      |
| Total       |      |      |      |      |      |





## ■ Components & Materials Market Sales Forecast

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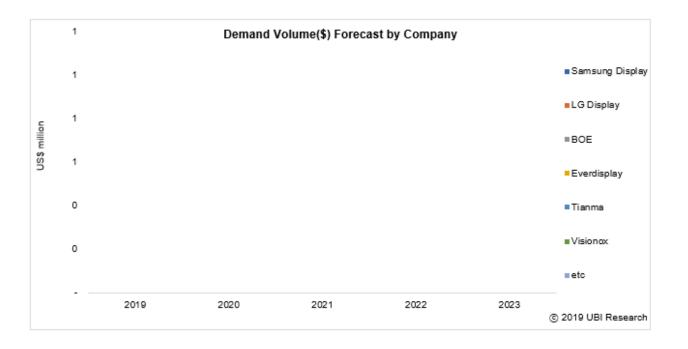
- Sales and the Market Share Forecast of Components & Material
- Demand Volume(\$) and the Market Share Forecast by Company
- Sales and the Market Share Forecast by Application
- Sales and the Market Share Forecast by Substrate Type

#### <Image Example>

> Demand Volume(\$) Forecast by Company (U

(US\$ million)

| Company         | 2019 | 2020 | 2021 | 2022 | 2023 |
|-----------------|------|------|------|------|------|
| Samsung Display |      |      |      |      |      |
| LG Display      |      |      |      |      |      |
| BOE             |      |      |      |      |      |
| Everdisplay     |      |      |      |      |      |
| Tianma          |      |      |      |      |      |
| Visionox        |      |      |      |      |      |
| etc             |      |      |      |      |      |
| Total           |      |      |      |      |      |



<sup>\*</sup> Market of Key 19 components for OLED



# ■ Components & Materials Market Usage Forecast

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 Usage and the Market Share Forecast of Components & Material

## <Image Example>

> Usage and the Market Share Forecast of Components & Material

| Componer      | nts & Material           | Unit    | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------|--------------------------|---------|------|------|------|------|------|
|               | Substrate glass          | 1,000m² |      |      |      |      |      |
| Substrate     | Carrier glass            | 1,000ൻ  |      |      |      |      |      |
|               | Polyimide                | Ton     |      |      |      |      |      |
| TFT           | PSPI                     | Ton     |      |      |      |      |      |
|               | Frit glass               | Ton     |      |      |      |      |      |
| Encapsulation | Encapsulation glass      | 1,000ൻ  |      |      |      |      |      |
| Encapsulation | Thin film encapsulation  | Ton     |      |      |      |      |      |
|               | Metal Foil & FSA         | 1,000ൻ  |      |      |      |      |      |
|               | On-cell touch            | 1,000ൻ  |      |      |      |      |      |
| Touch sensor  | Add-on Touch             | 1,000ൻ  |      |      |      |      |      |
|               | Over coat(on-cell touch) | Ton     |      |      |      |      |      |
| Polarizer     | Polarizer                | 1,000ൻ  |      |      |      |      |      |
| Adhesive      | OCR                      | Ton     |      |      |      |      |      |
| Adnesive      | OCA                      | 1,000mi |      |      |      |      |      |
| Cover window  | 2D & 3D glass            | M EA    |      |      |      |      |      |
| Cover window  | Colorless polyimide      | 1,000mi |      |      |      |      |      |
|               | Driver IC & COF          | M EA    |      |      |      |      |      |
| Module        | Complex sheet            | 1,000m² |      |      |      |      |      |
|               | Process Film             | 1,000m² |      |      |      |      |      |

<sup>\*</sup> Market of Key 19 components for OLED