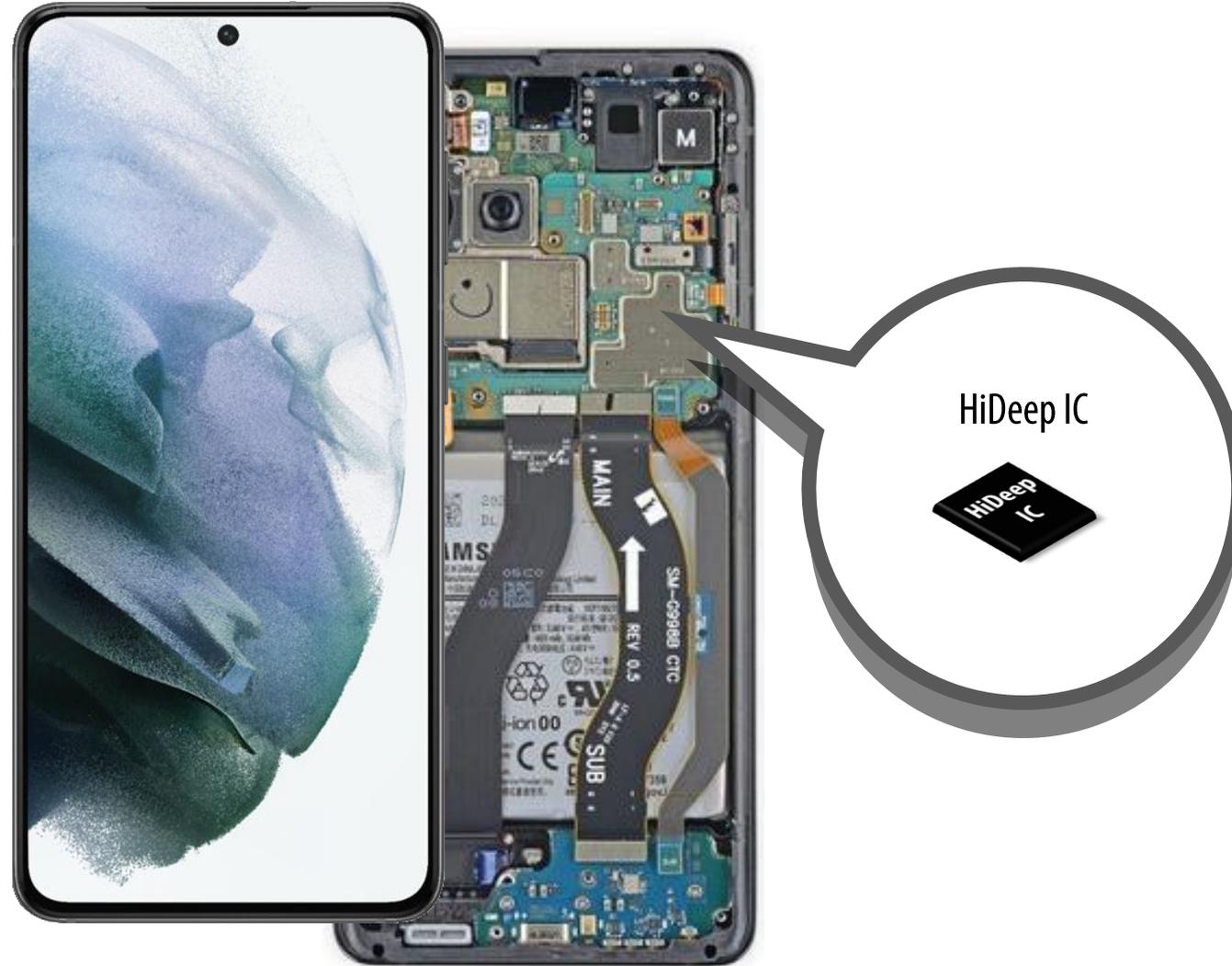


# THE ONLY TOTAL SOLUTION PROVIDER OF INPUT INTERFACES FOR FLEXIBLE OLED DISPLAYS



# At a Glance

# HiDeep Target Market: **A Technology** in Mobile Devices



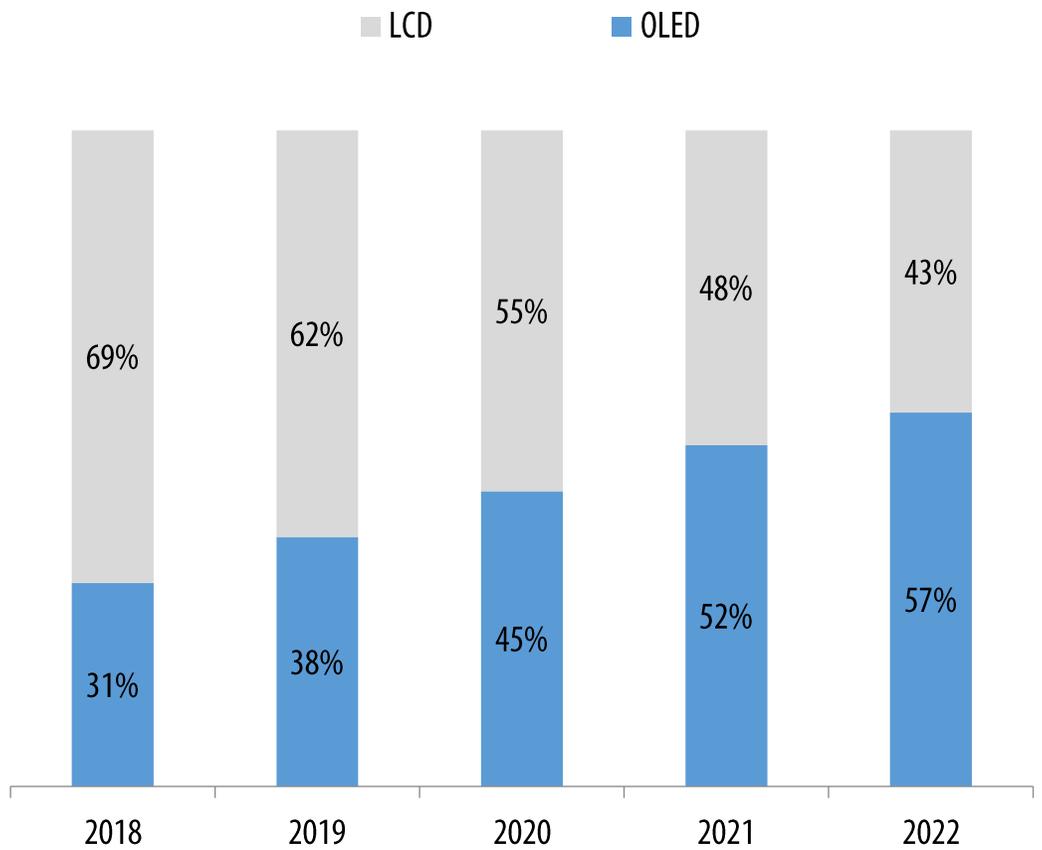
# HiDeep Target Technology: **Stylus** for Mobile Devices



# Chapter 1. Market Trend

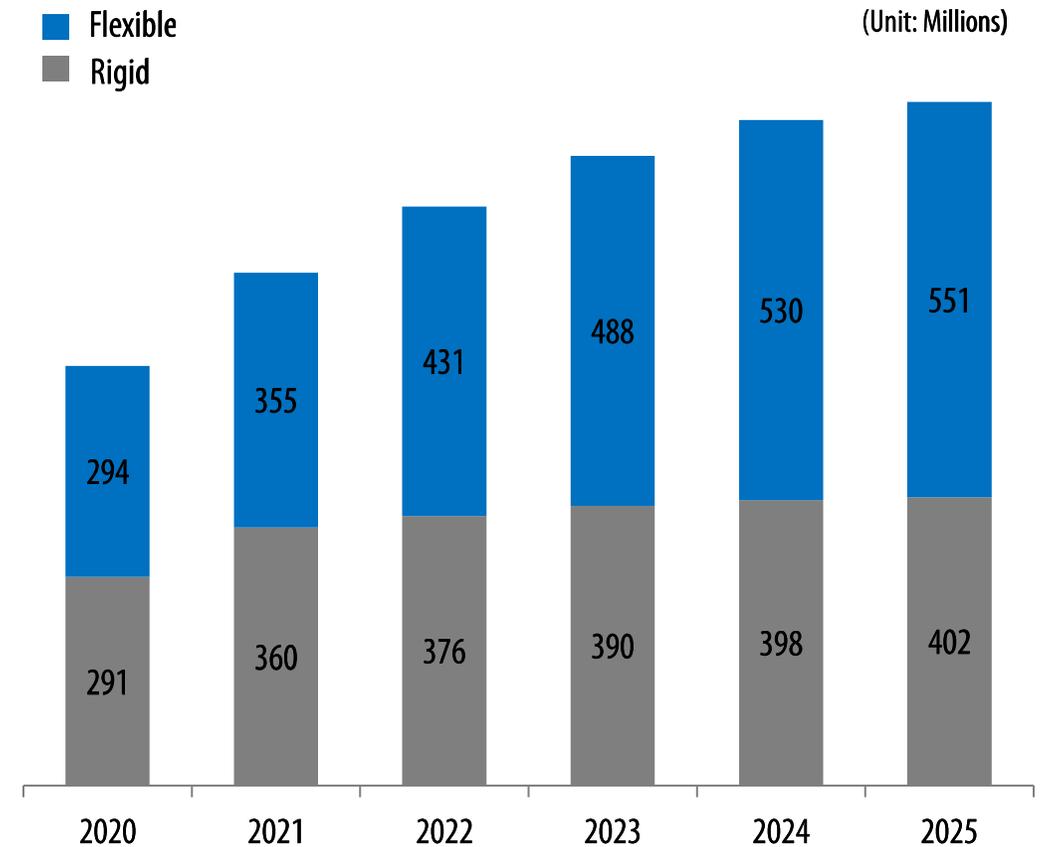
# The Growth of OLED Display Market

## The growing OLED penetration rate for mobile applications



※Source: Displaysupplychain.com

## The growing OLED shipment



(Unit: Millions)

※Source: Omdia

# [SID 2021 Keynote Speech] "The Metaverse and the Great Future of Display"

## Form Factor

**Foldable/Rollable/Slidable/Stretchable, Tiled**



**Foldable**



**Rollable**



**Slidable**



**Stretchable**

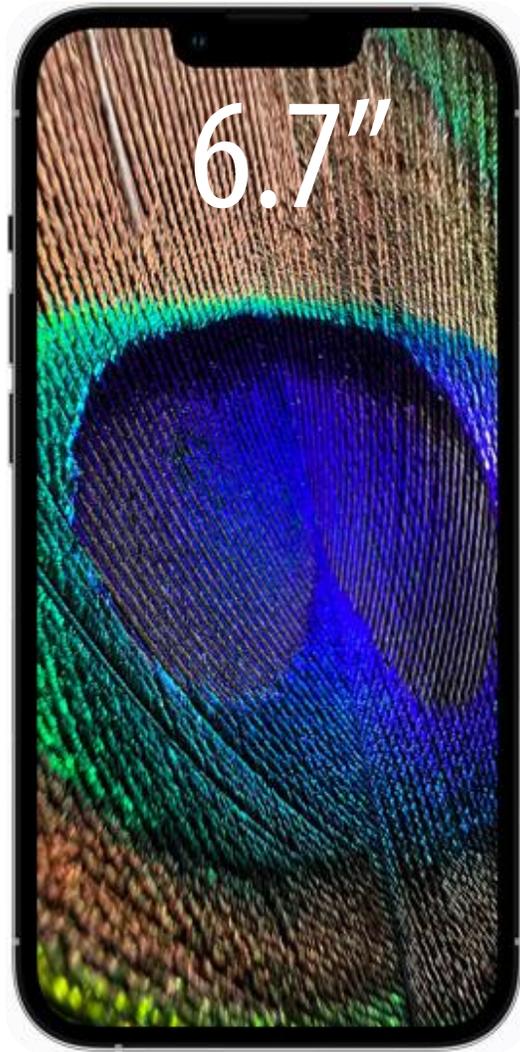


**Tiled**

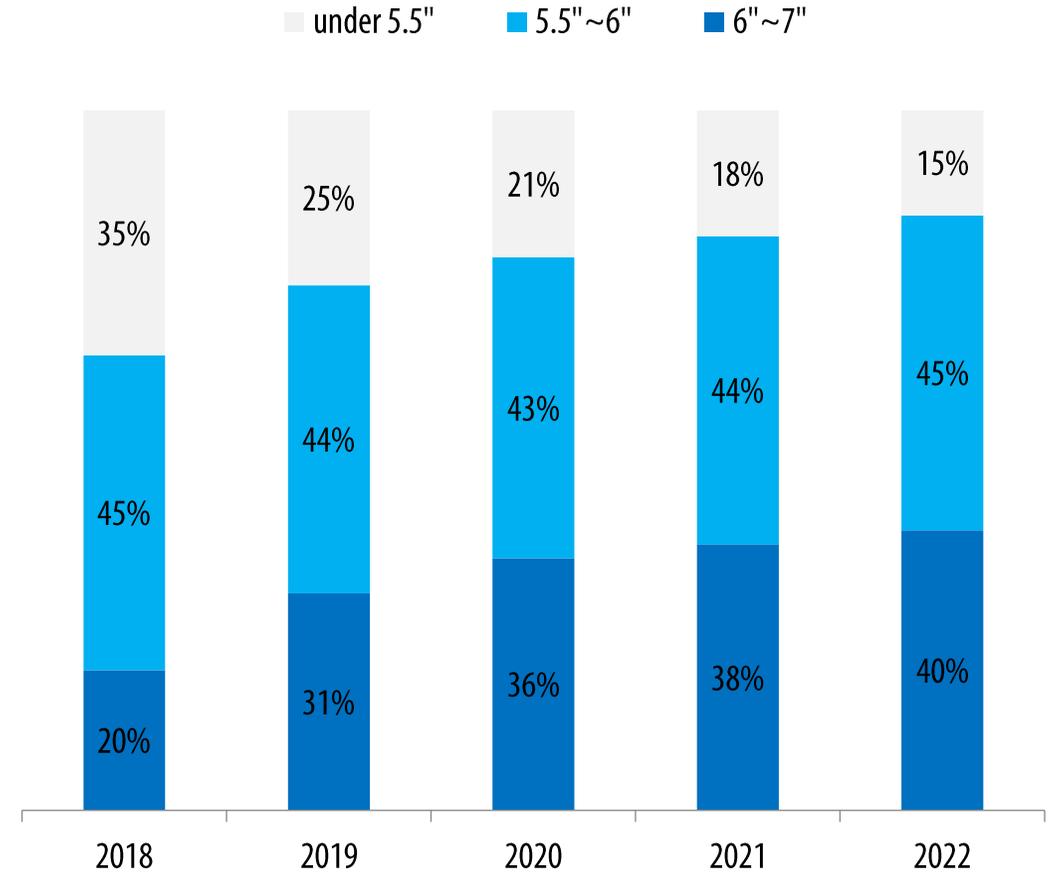
<https://www.youtube.com/watch?v=rrJSQcLS1Ko>

# The Larger Screen Size of Smartphones

2021



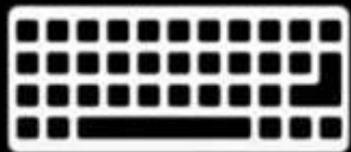
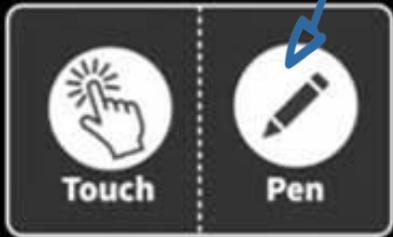
2007



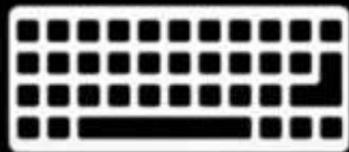
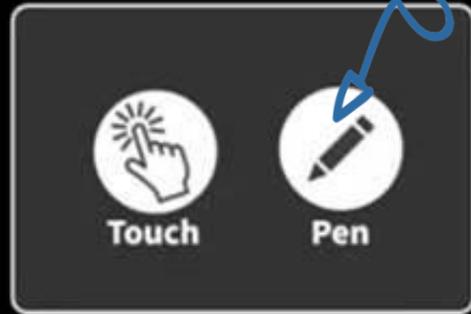
※Source: Statista

# [SID 2021 Keynote Speech] "The Metaverse and the Great Future of Display"

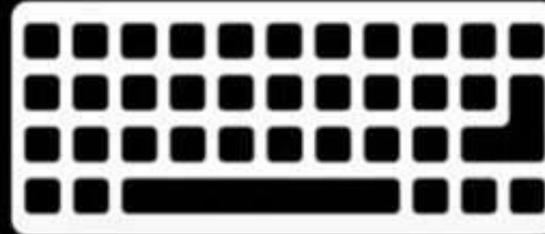
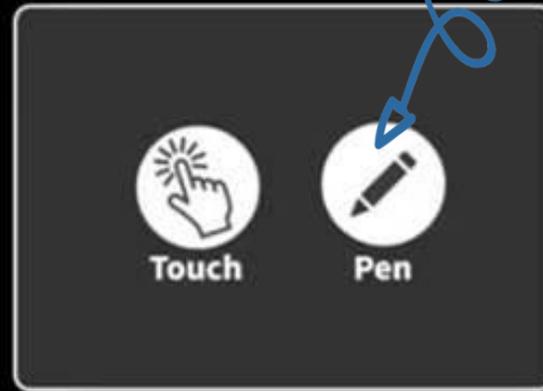
**Foldable Phone**



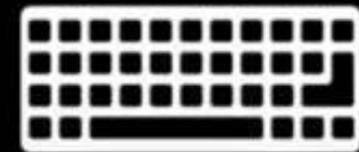
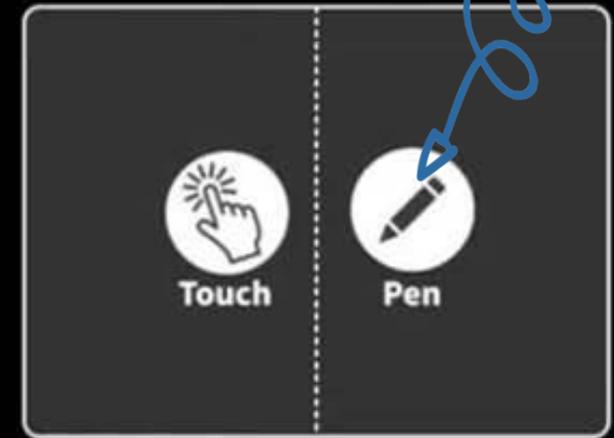
**Tablet**



**Laptop**

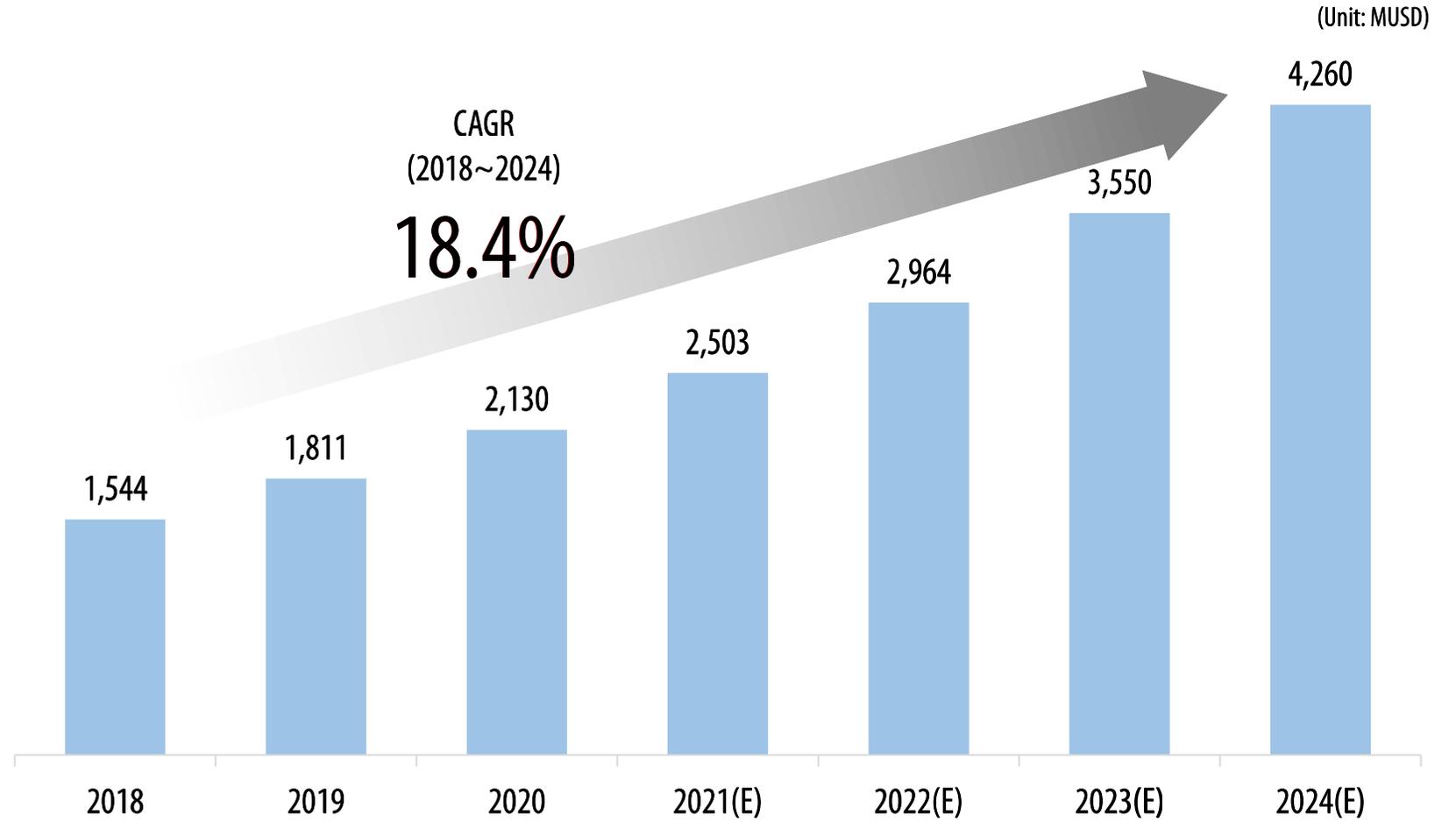


**Foldable Monitor**



<https://www.youtube.com/watch?v=rrJSQcLS1Ko>

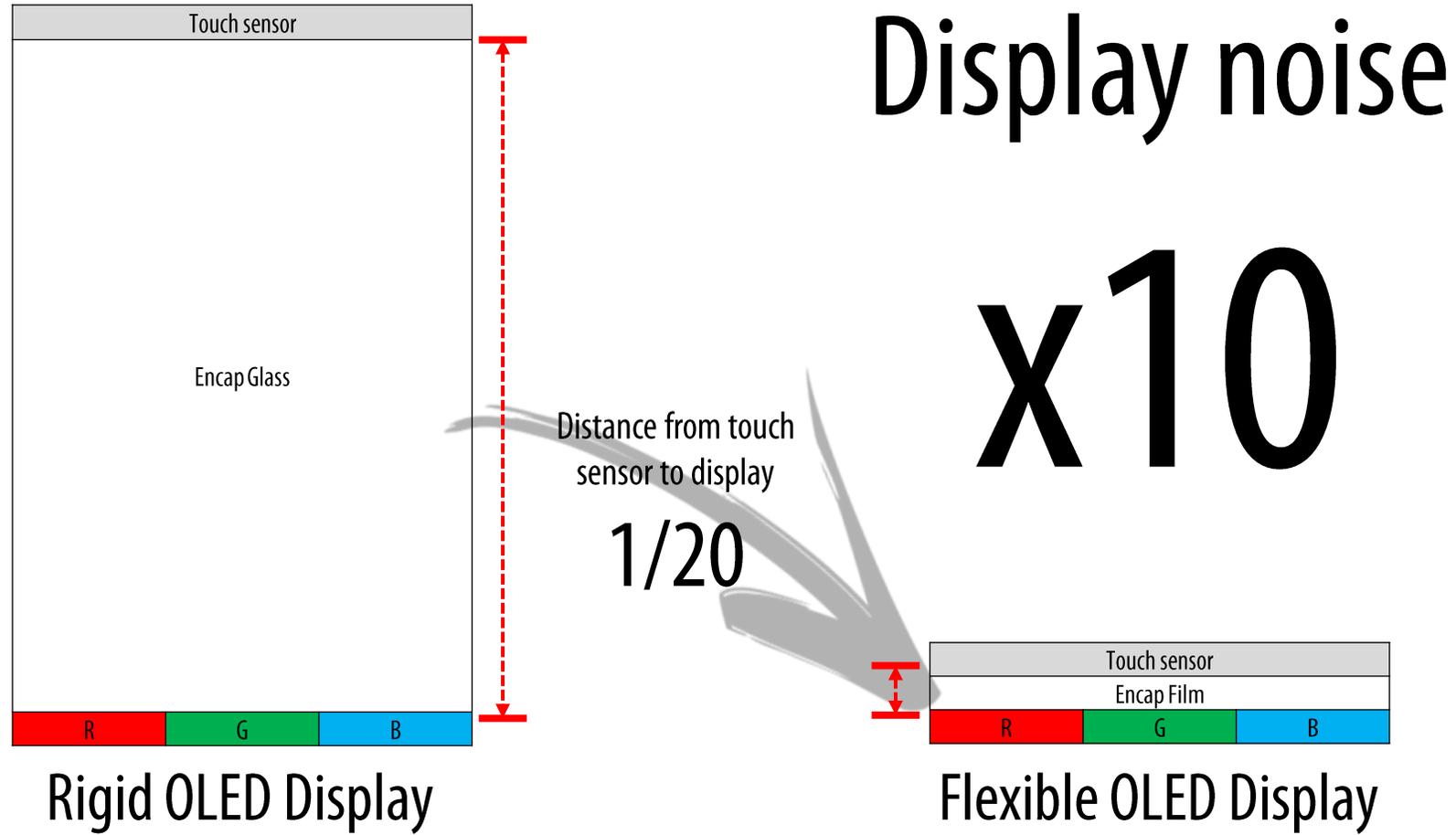
# Stylus Market Prospect



※Source: Statista 2021

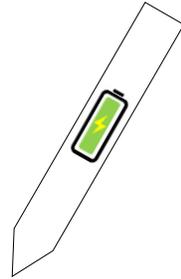
## Chapter 2. HiDeep's Key Technology & Points

# Challenges of Flexible OLED



# Challenges of Stylus Technology

Active Stylus



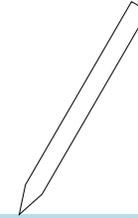
Cover glass

Display

Touch +  
Stylus IC



Passive Stylus



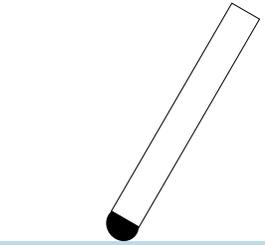
Cover glass

Display

Stylus sensor

Touch IC

Stylus IC



Cover glass

Display

Touch IC



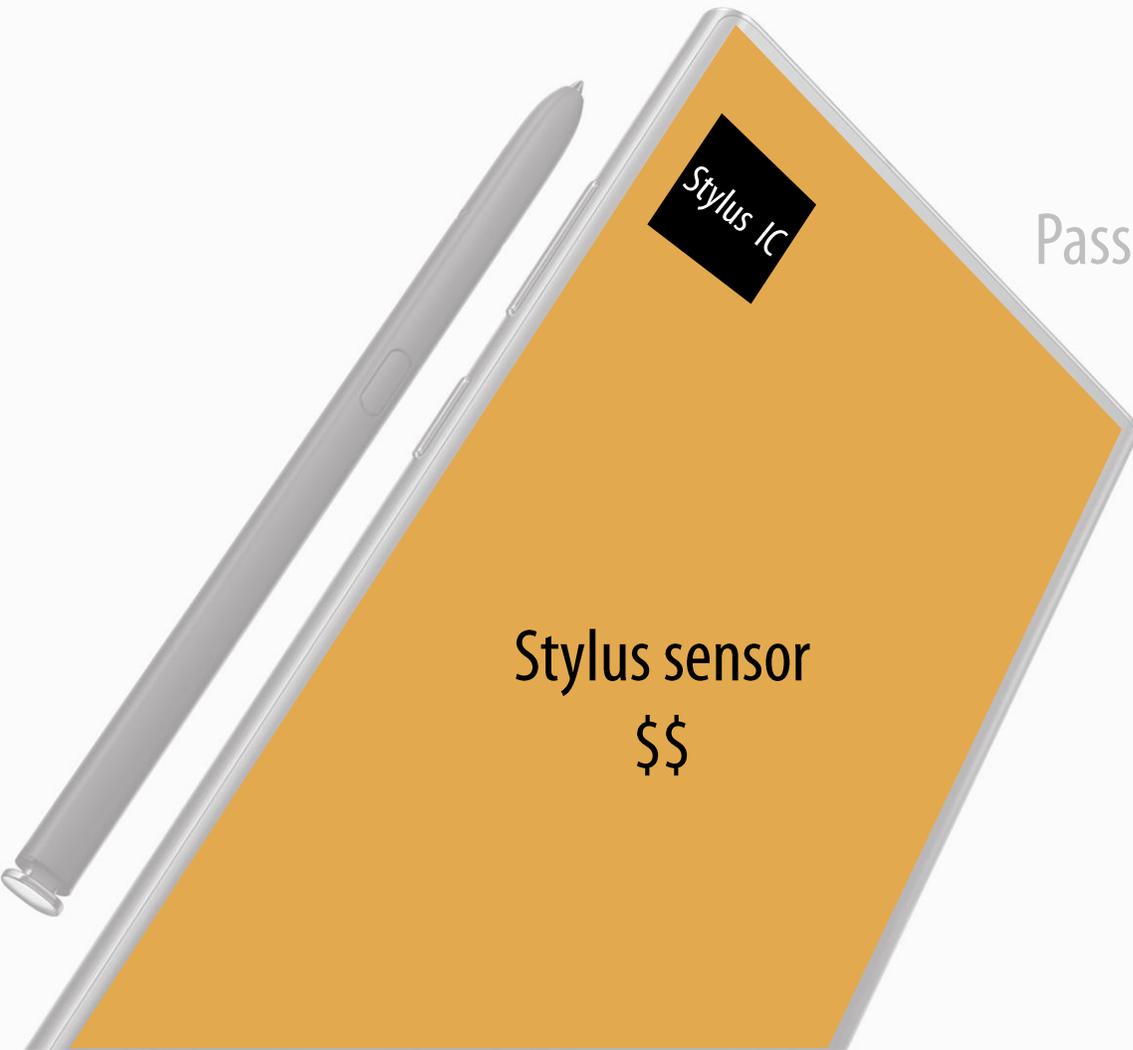
# Market Demands

1. *Protocol Free*
2. *Battery Free*
3. *Stylus Sensor Free*



Passive Stylus



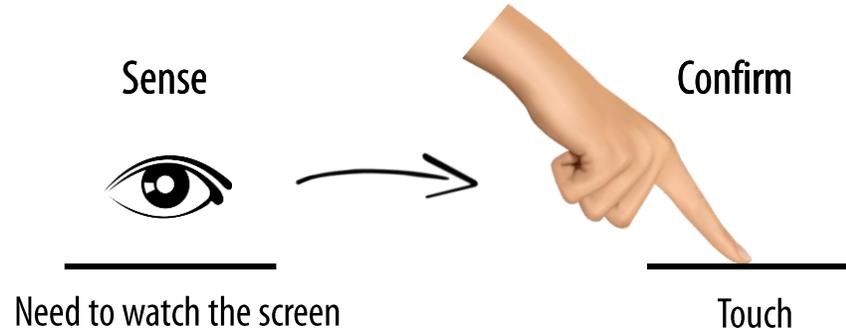


Passive Stylus

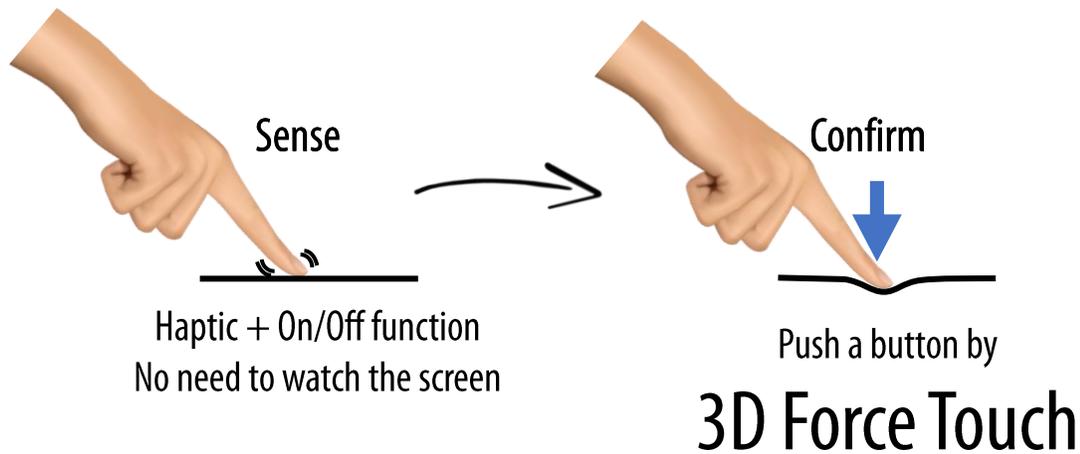


*No Battery but Need Stylus Sensor and IC*

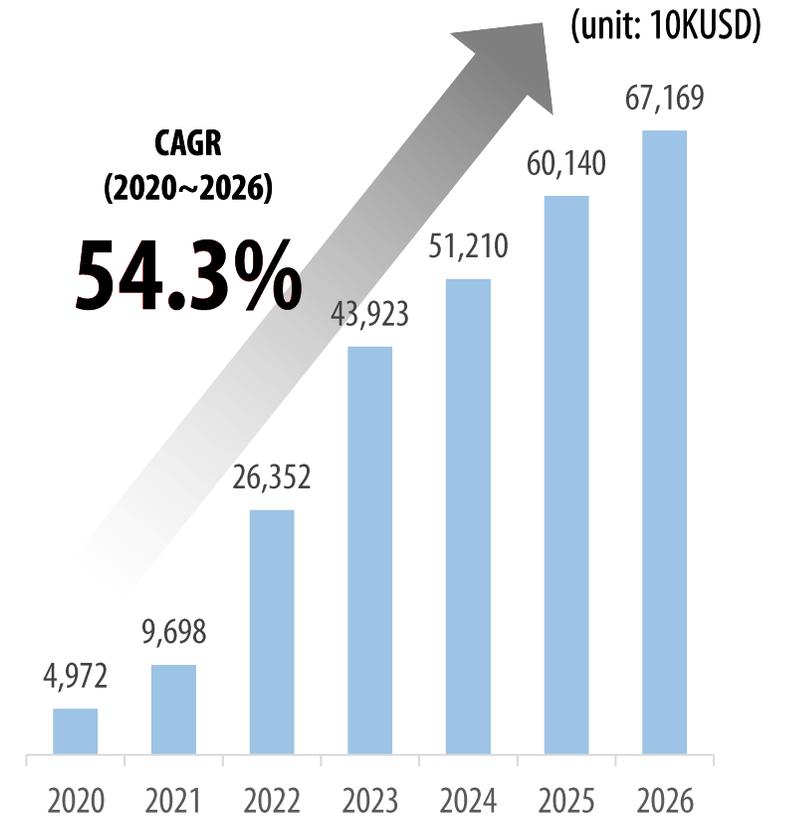
# The Automotive OLED Market Opportunity: 3D Force Touch



## HiDeep 3D Force Touch Solution



## Global automotive OLED market forecast

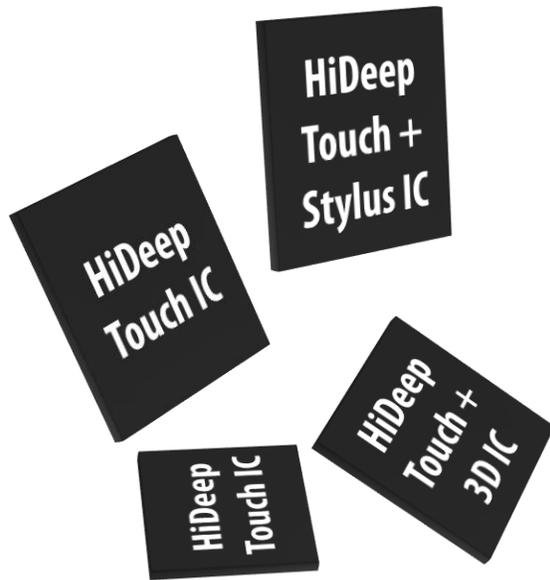


※source: Omdia

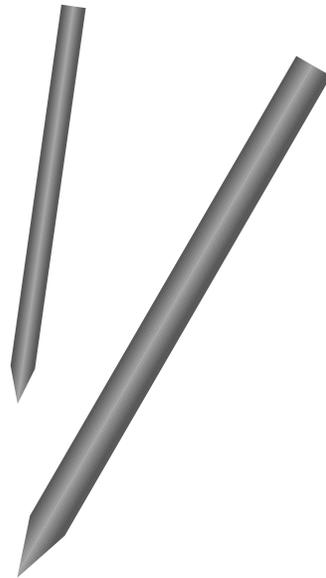
# A Provider of IC, Stylus, Algorithms and Sensors for Flexible OLED Displays



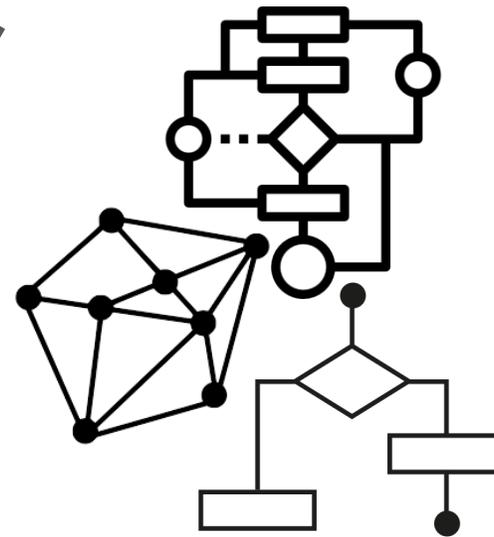
Touch IC



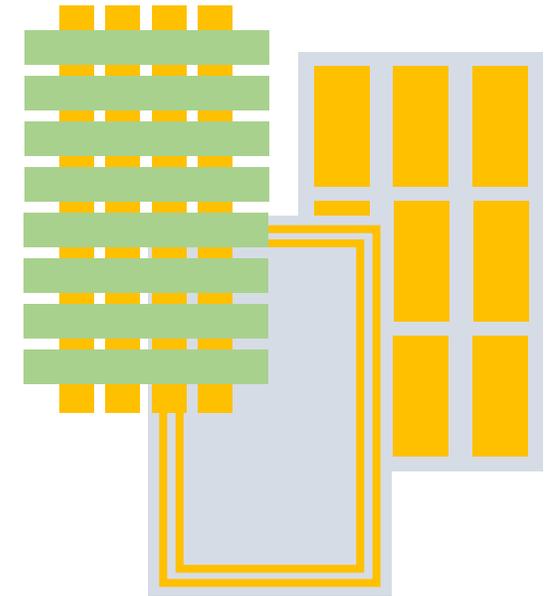
Stylus



Algorithm



Sensors



# Chapter 3. Growth Strategy

# Business Model Diversification: Business Area

## Business market

Smartphone



HUAWEI



oppo

vivo

1.4B units  
Shipment/year

Tablet



HUAWEI

SAMSUNG

amazon

Lenovo

0.14B units  
Shipment/year

Lenovo PC



acer



ASUS

0.16B units  
Shipment/year

## Consumer market

amazon

ebay

Alibaba

coupang

BEST BUY

COSTCO WHOLESALE

Walmart  
Save money. Live better.

# Finance

## Balance Sheet

(Unit: MKRW)

Description	2022	2023	2024 3Q
Current assets	32,255	19,309	13,337
Non-current assets	5,891	6,779	6,433
<b>Total assets</b>	<b>38,146</b>	<b>26,089</b>	<b>19,770</b>
Current liabilities	6,318	10,350	9,691
Non-current liabilities	13,621	337	813
<b>Total liabilities</b>	<b>19,939</b>	<b>10,687</b>	<b>10,504</b>
Capital	13,746	14,352	14,445
Capital surplus	57,802	64,195	65,586
Other equity	2,672	2,611	2,546
Deficits	-56,012	-65,757	-73,311
<b>Total equity</b>	<b>18,207</b>	<b>15,402</b>	<b>9,266</b>

## Income Statement

(Unit: MKRW)

Description	2022	2023	2024 3Q
<b>Revenue</b>	<b>18,145</b>	<b>10,484</b>	<b>4,514</b>
Cost of revenue	11,925	8,849	3,142
Gross margin	6,221	1,634	1,372
Operating expenses	8,492	10,249	8,084
<b>Operating Income</b>	<b>-2,272</b>	<b>-8,615</b>	<b>-6,712</b>
Non-operating income	959	1,218	522
Non-operating expense	6,199	1,683	1,170
<b>Income before income taxes</b>	<b>-7,511</b>	<b>-9,080</b>	<b>-7,360</b>
Income tax expense	-528	298	41
<b>Net income</b>	<b>-6,983</b>	<b>-9,377</b>	<b>-7,401</b>

※ The table above shows a condensed financial statements in accordance with IFRS.