

Future of Printed Electronics

LOPEC 2019 – Main Press Conference

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ICM, Messe München

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A working group within

Developments within the Organic & Printed Electronics Industry

- » Increase of application flexible electronics
- » Technology enables new products
- » Combine the best of two worlds: Hybrid electronics

An abstract graphic consisting of a dense network of glowing blue and white lines that intersect to form a complex, web-like structure. The lines vary in thickness and brightness, creating a sense of depth and connectivity. The background is dark, making the glowing lines stand out prominently.

Technological Developments

Major Breakthroughs



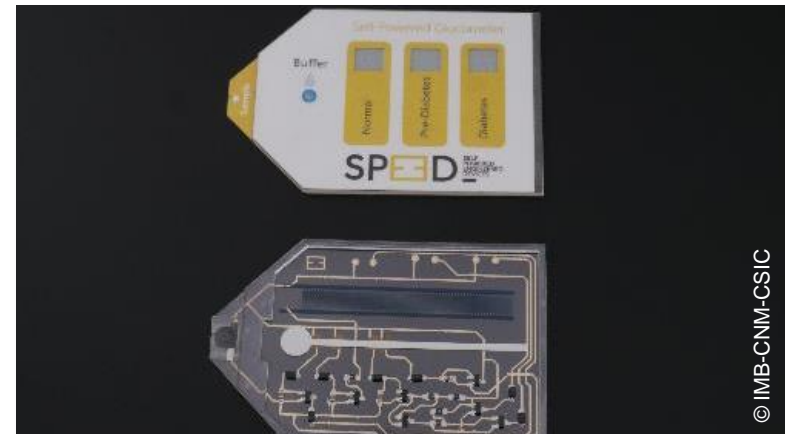
Rollable OLED TV Display



Foldable Smartphone



Integrated Smart Touch Interface



Self-Powered Diagnose Patches

Development of OE-A Members' Market

- » Representing OE-A members –
from material suppliers to end-users

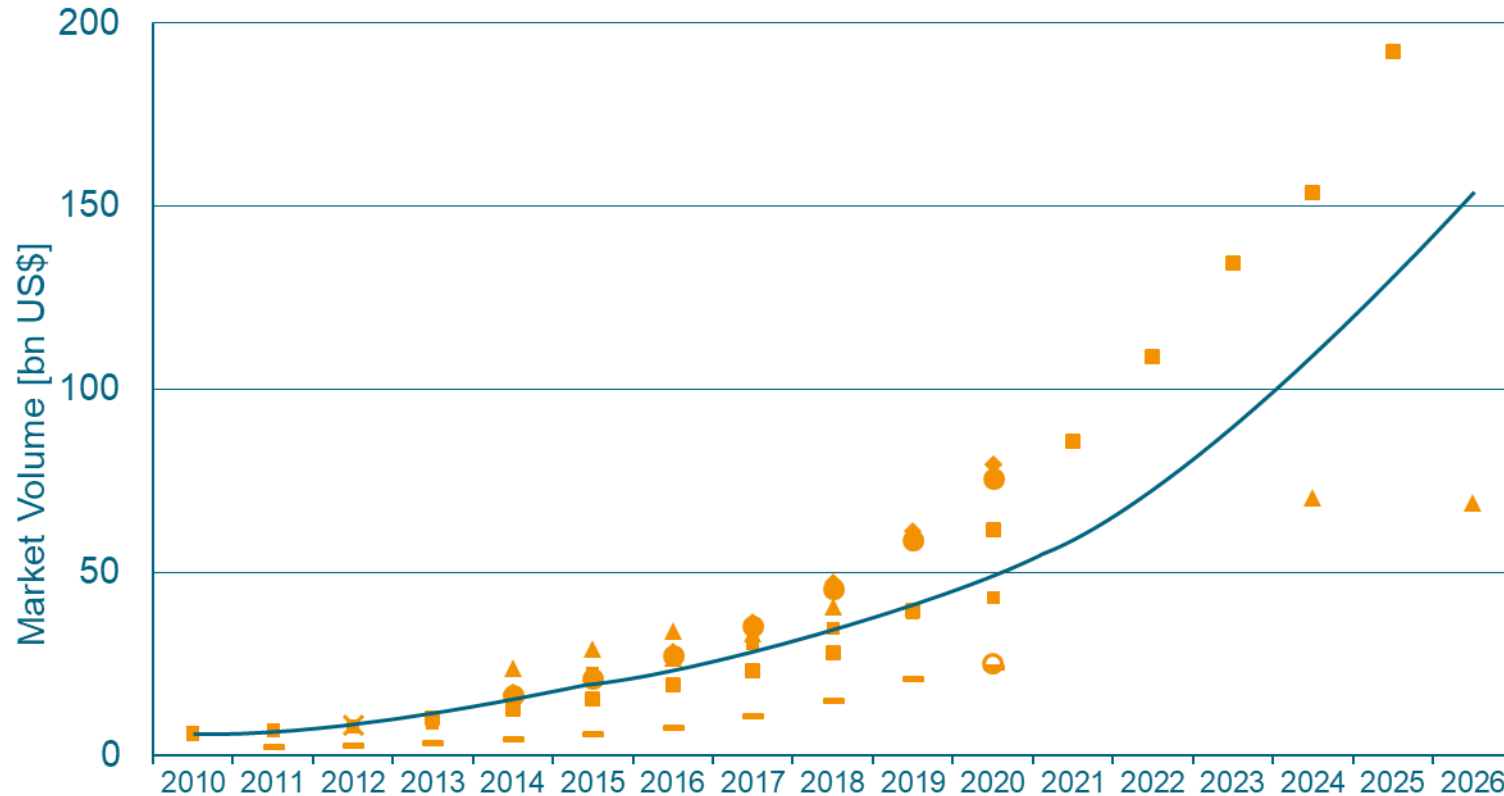
- » The entire industry expects a successful
year 2019
 - Along the entire value chain
 - Around the globe

- » Companies are increasing their:
 - Investment in R&D



OE-A Business Climate Survey

Comparison to overall printed electronics market



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Sources: Allied Market Research, Displaybank, IDTechEx, Konica Minolta, Markets and Markets, Smithers Pira, Transparency Market Research

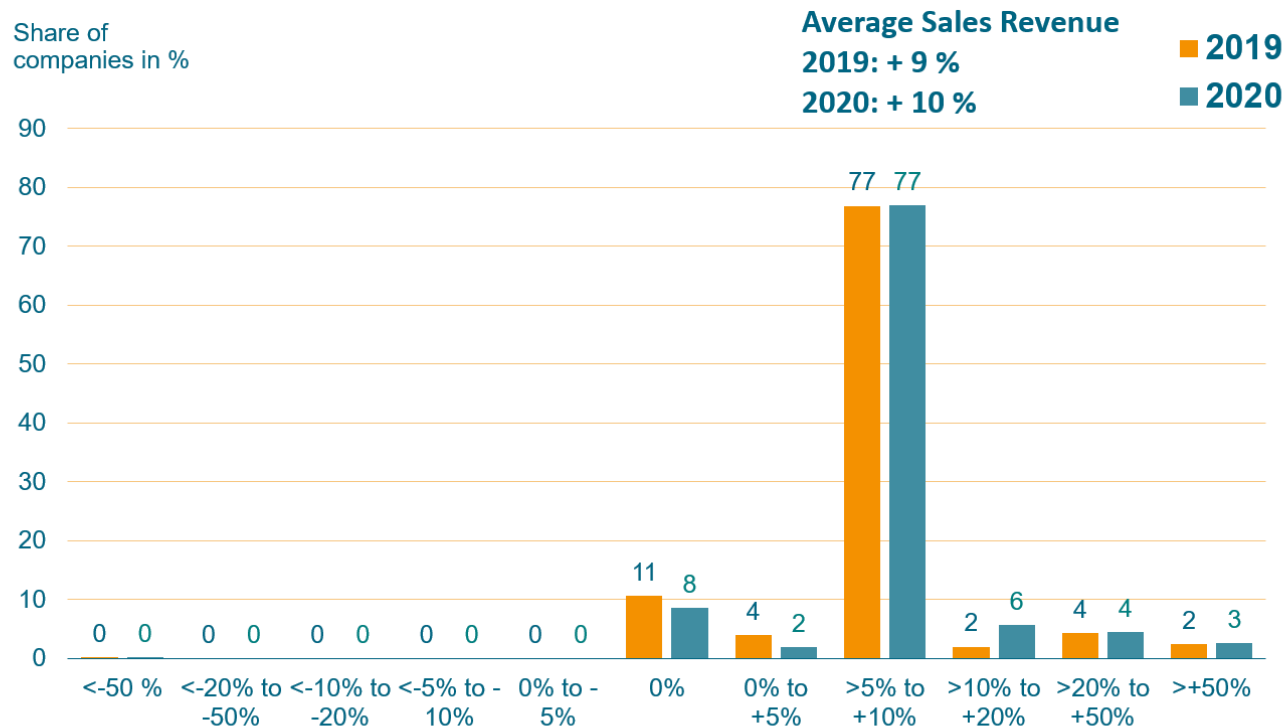
Increase from
2016-2017: 8%
2017-2018: 10%

2018: ca. 40 Bn US\$,
predominant by OLED
displays, conductive inks,
2027: 73.43 Bn. US\$

Strong growth potential for
stretchable electronics, logic
and memory, thin film sensors

OE-A Business Climate Survey on General Trends in Organic and Printed Electronics, March 2019

Expected Sales Revenue for 2019 and 2020



Source: OE-A, answers weighted by number of employees, figures rounded

» 73% of the participants expect an increase in the Printed Electronics Industry

» Average sales revenue

— 2019: +9%

— 2020: +10%

OE-A Business Climate Survey on General Trends in Organic and Printed Electronics, March 2019

Most important targeted end-user industries:



20%

Consumer Electronics



19%

Automotive



18%

Medical & Pharmaceutical

OE-A Business Climate Survey on General Trends in Organic and Printed Electronics, March 2019



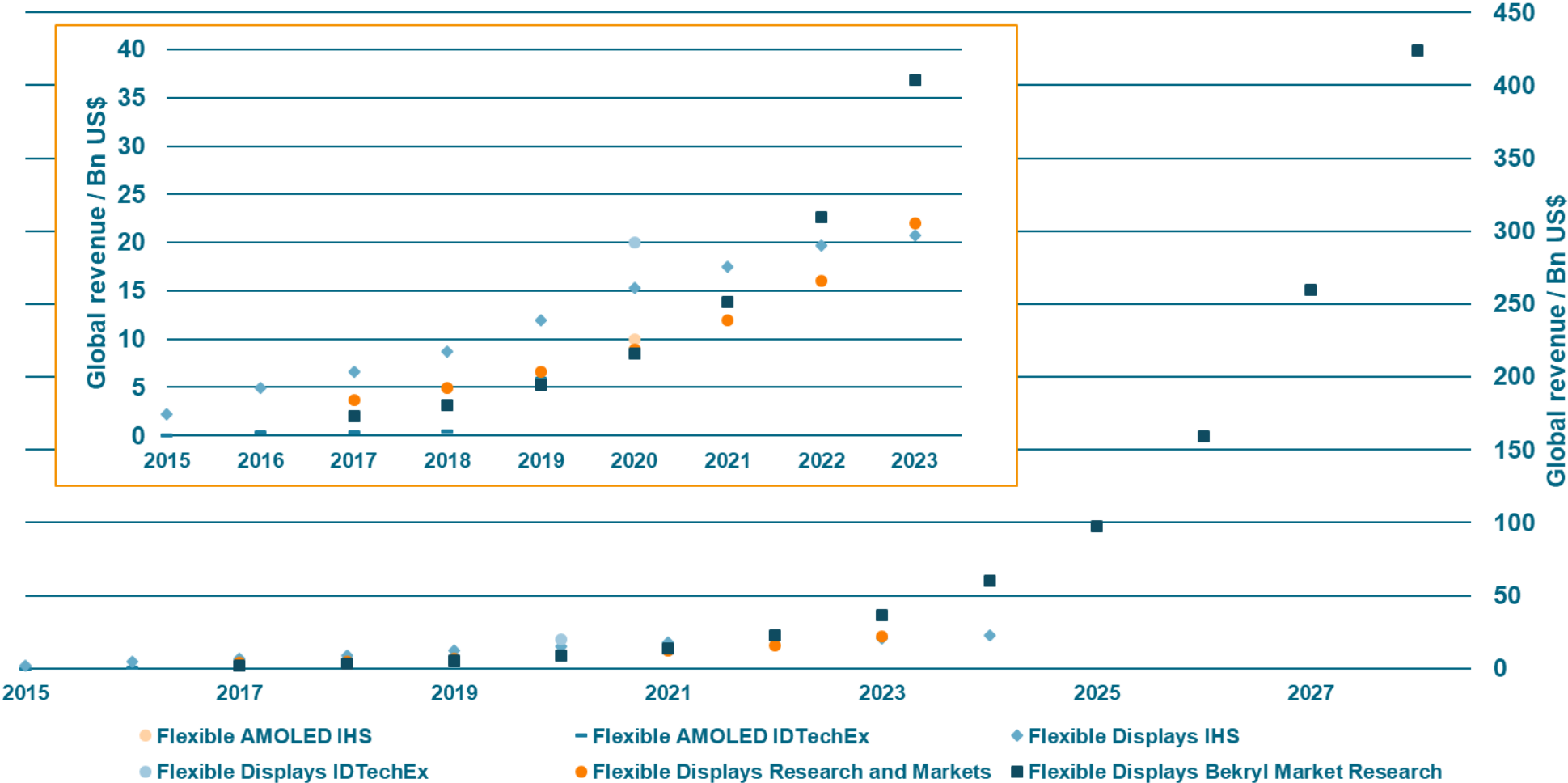
20% Consumer Electronics



Flexible Displays

Global Revenue of Flexible Displays (zoomed inset)

(all technologies)





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