

Future of Printed Electronics

LOPEC 2019 – Main Press Conference

March 20, 2019

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 and nodes, resembling a complex digital or neural network. The lines are of varying thickness and brightness, creating a sense of depth and connectivity.

Technological Developments

Major Breakthroughs



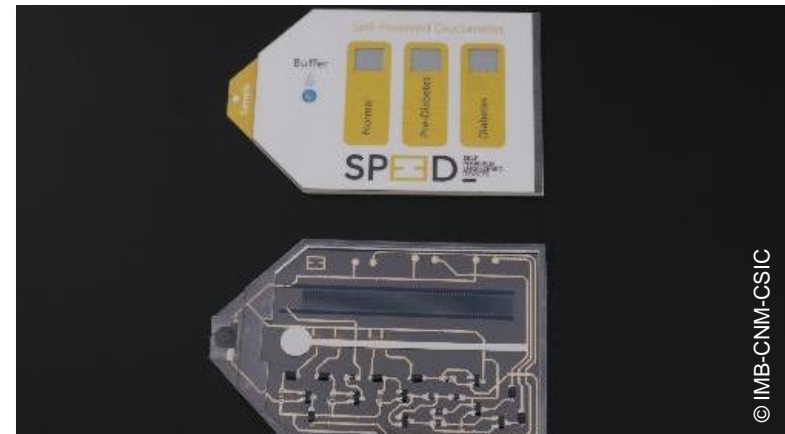
Rollable OLED TV Display



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

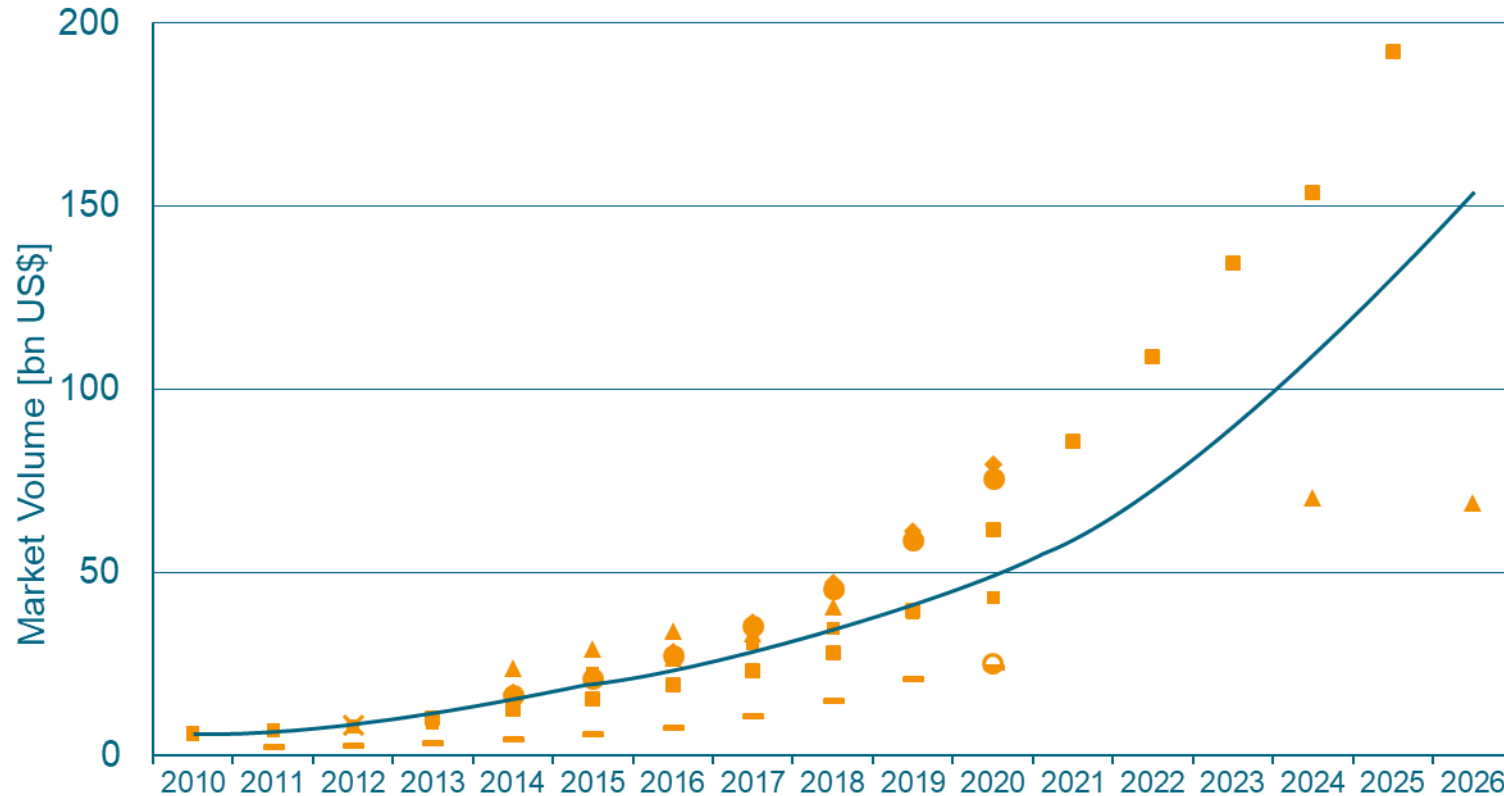
- » The entire industry expects a successful
year 2019
 - Along the entire value chain
 - Around the globe

- » 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

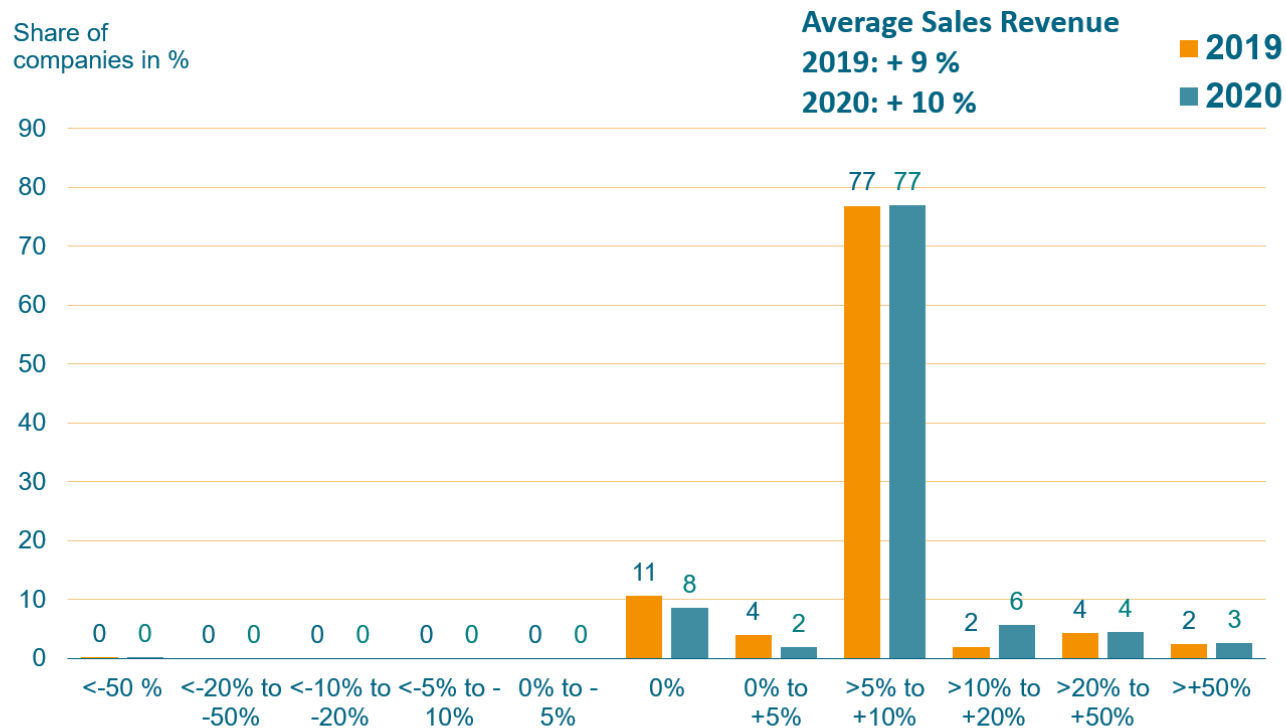
Increase from
2016-2017: 8%
2017-2018: 10%

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



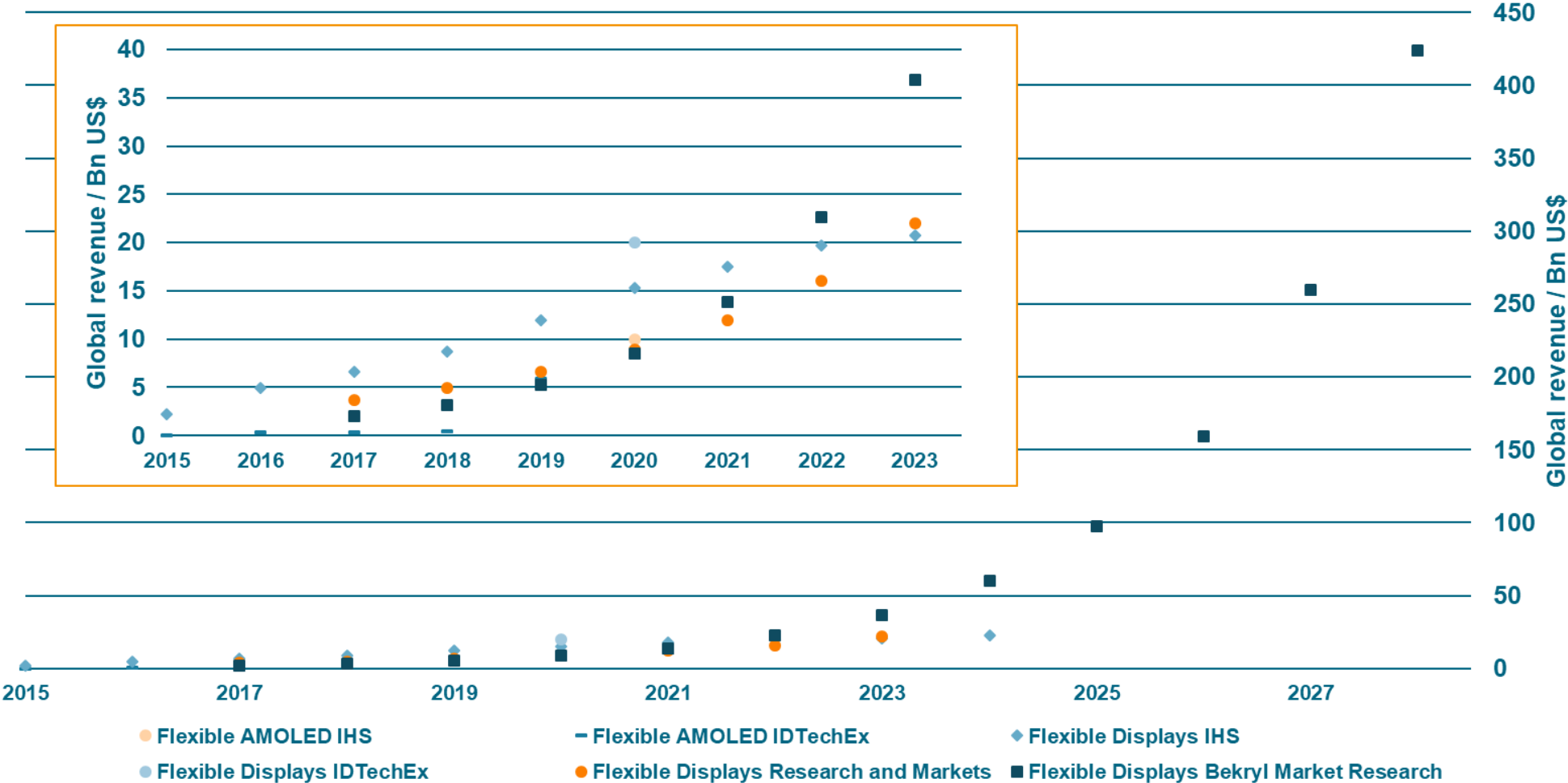
20% Consumer Electronics



Flexible Displays

Global Revenue of Flexible Displays (zoomed inset)

(all technologies)





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