Competences and skills in semiconductor R&D

Contribution for discussion on Open strategic autonomy

Jo De Boeck, EVP and CSO imec

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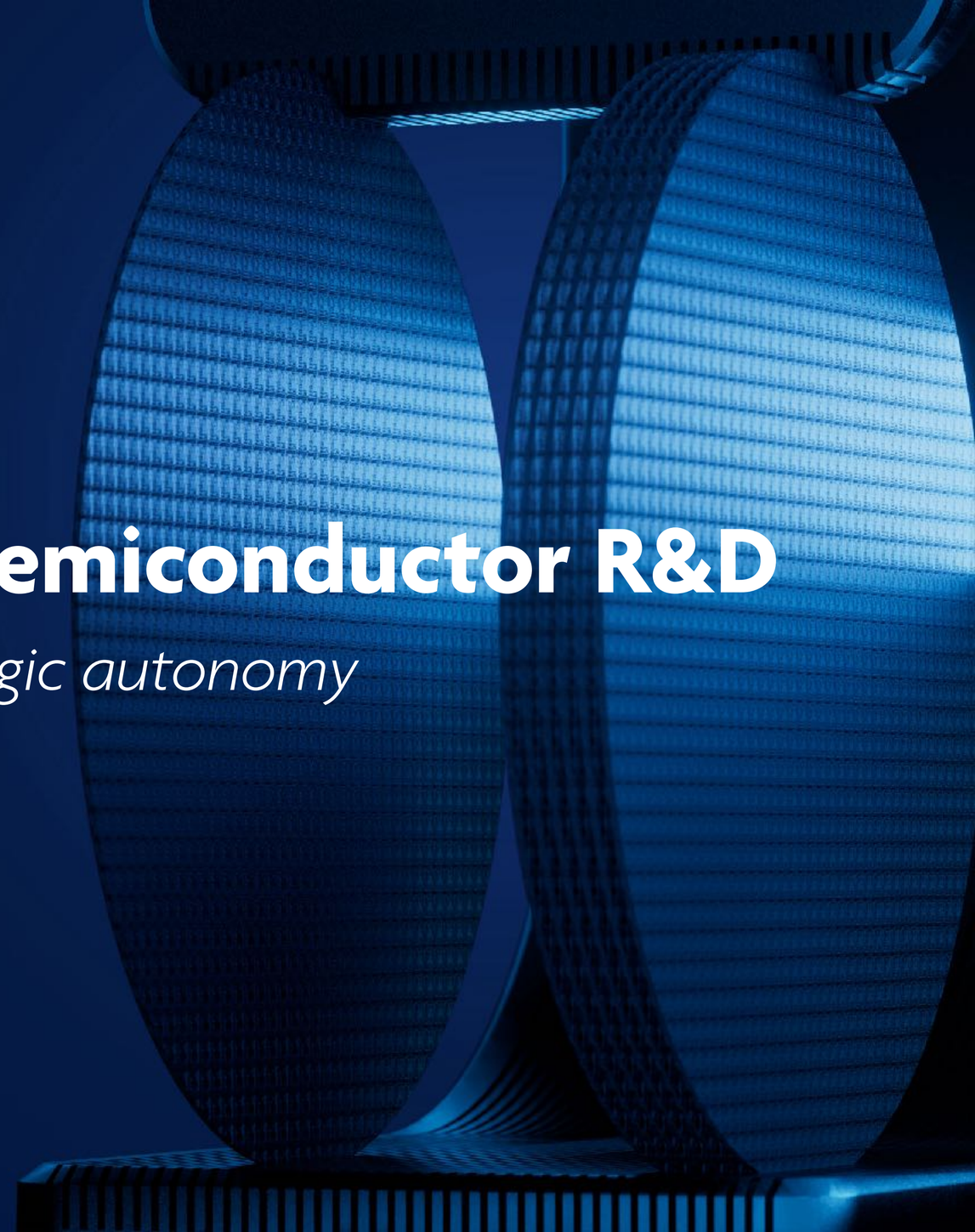
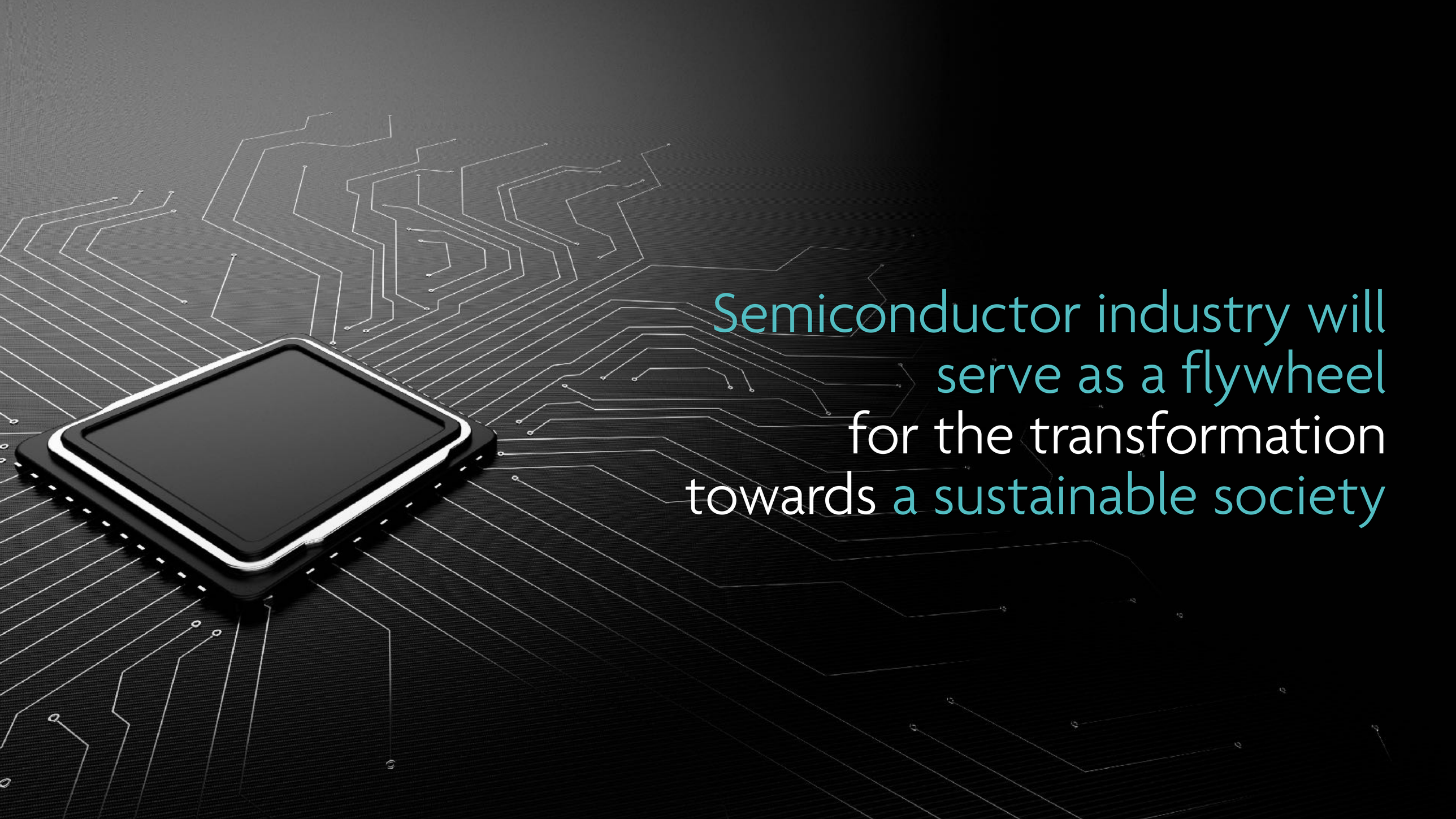
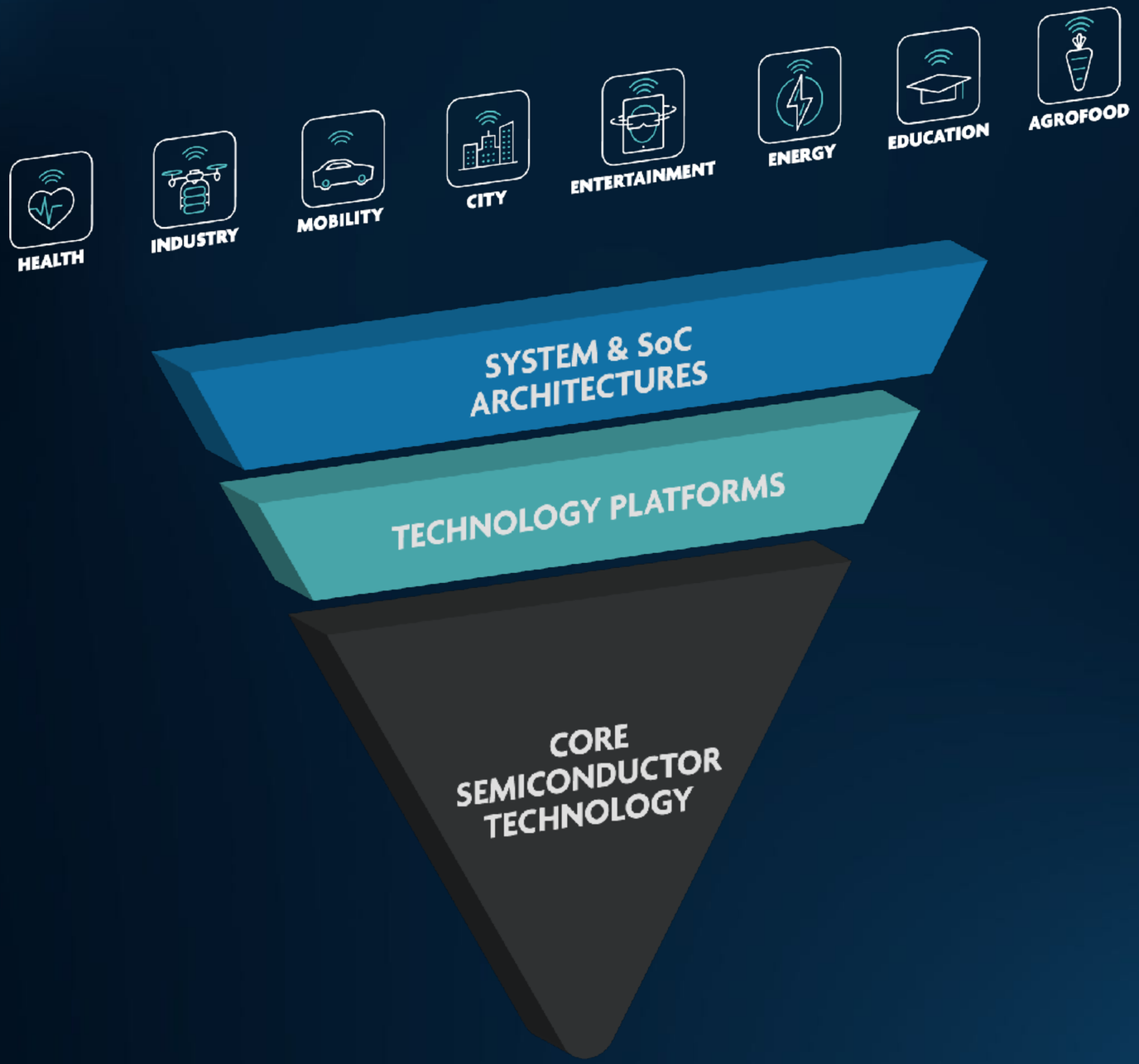



Semiconductor industry will
serve as a flywheel
for the transformation
towards a sustainable society


HEALTH
INDUSTRY
MOBILITY
CITY
ENTERTAINMENT
ENERGY
EDUCATION
AGROFOOD
SYSTEM & SoC ARCHITECTURES
TECHNOLOGY PLATFORMS
CORE SEMICONDUCTOR TECHNOLOGY

FAB2/3 300mm
FAB1 200mm
Lab and materials research
Support facility

300mm fab

Investment **~3.5B€**

Clean room: **~12,000 m²**

tools: **> 200**

24/7 operation

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Consideration of the month
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ASML
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+ 200 tools
+ 500 professionals
24/7 operation
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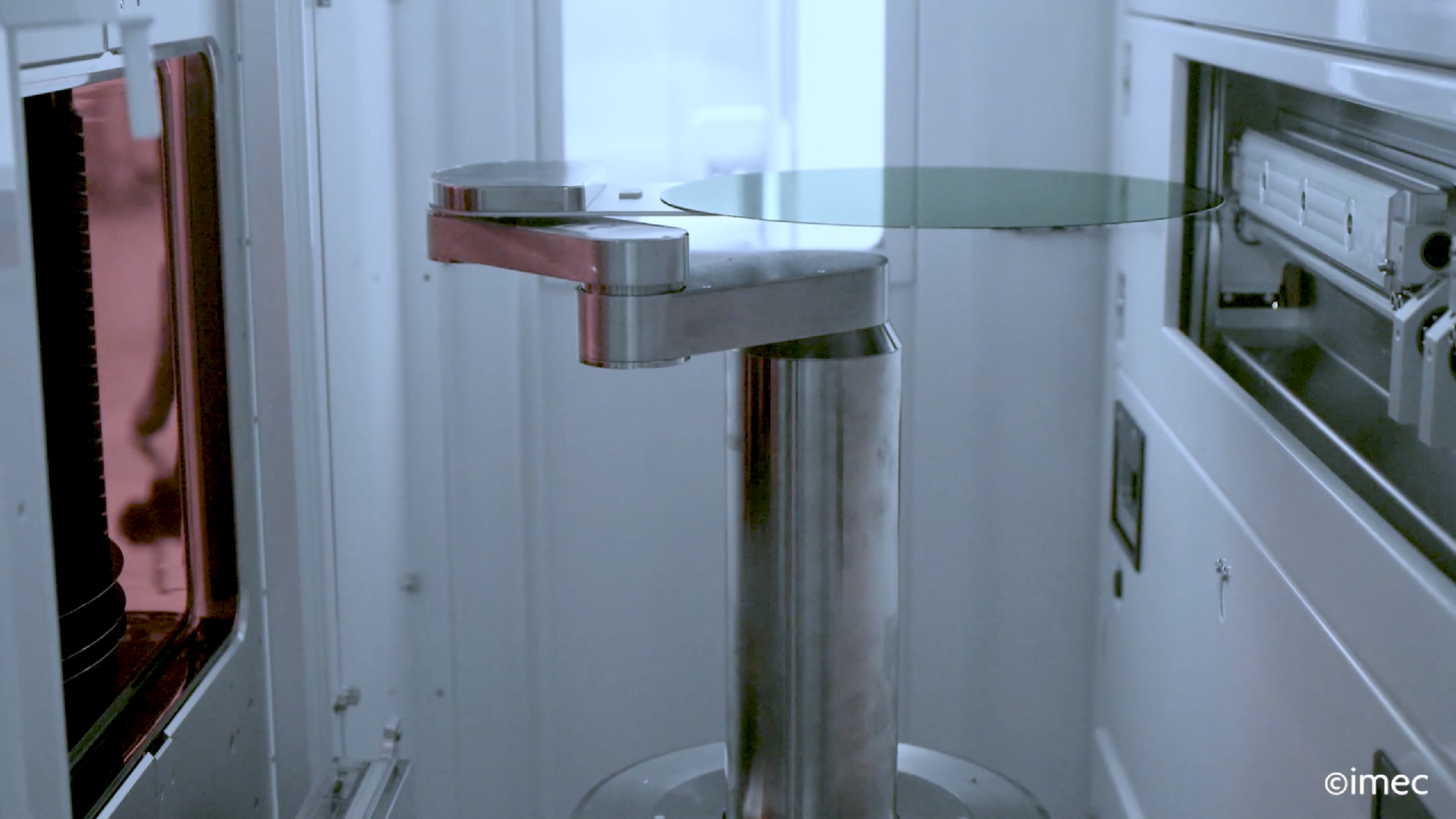
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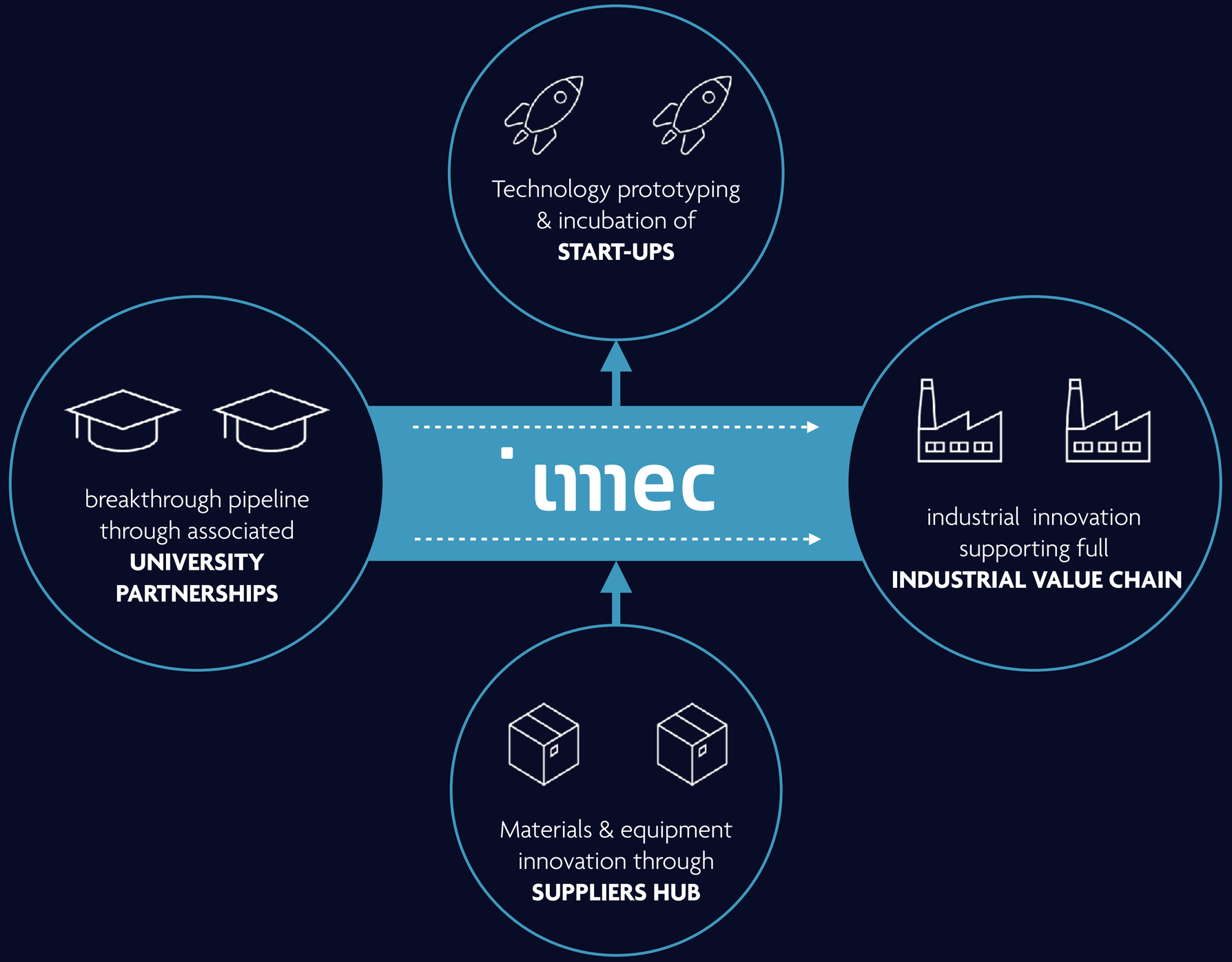
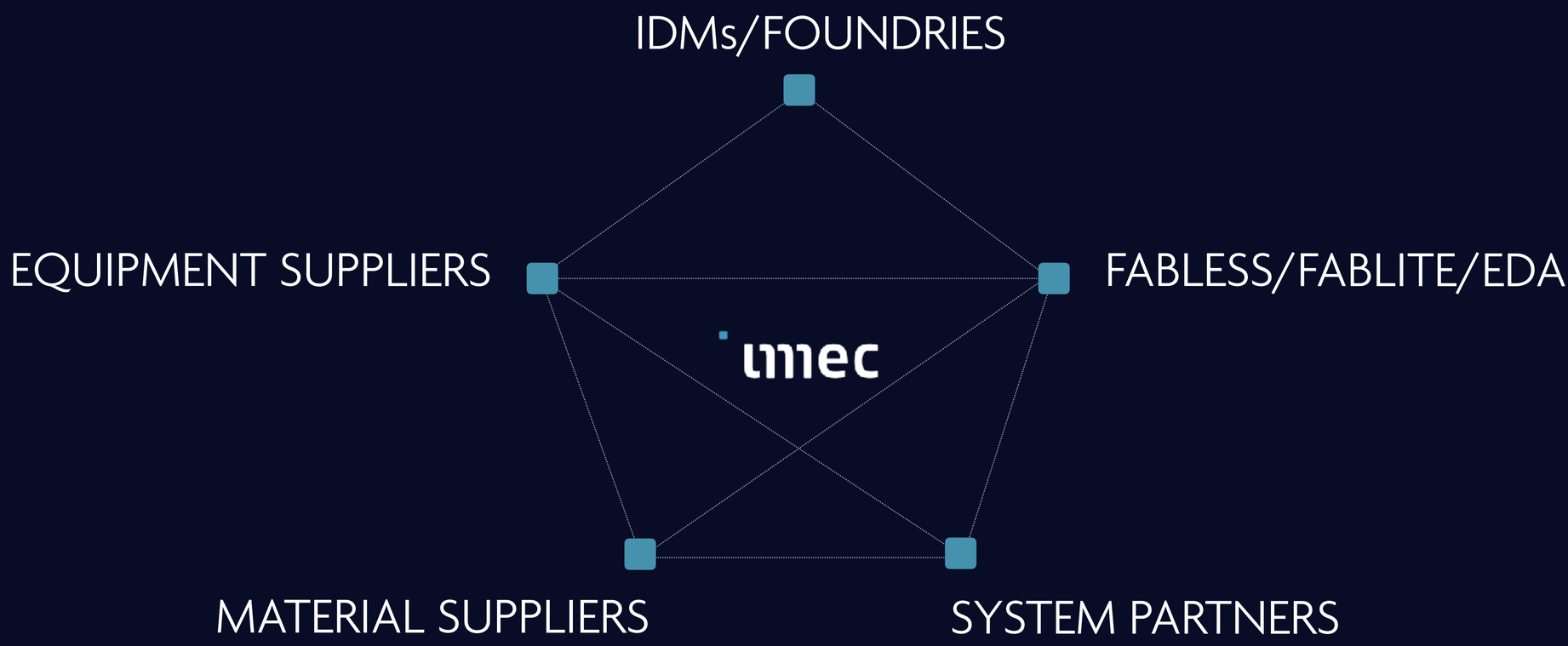
Leveraging **universities**


Technology prototyping
& incubation of
START-UPS
breakthrough pipeline
through associated
UNIVERSITY
PARTNERSHIPS
imec
industrial innovation
supporting full
INDUSTRIAL VALUE CHAIN
Materials & equipment
innovation through
SUPPLIERS HUB

Networked innovation model



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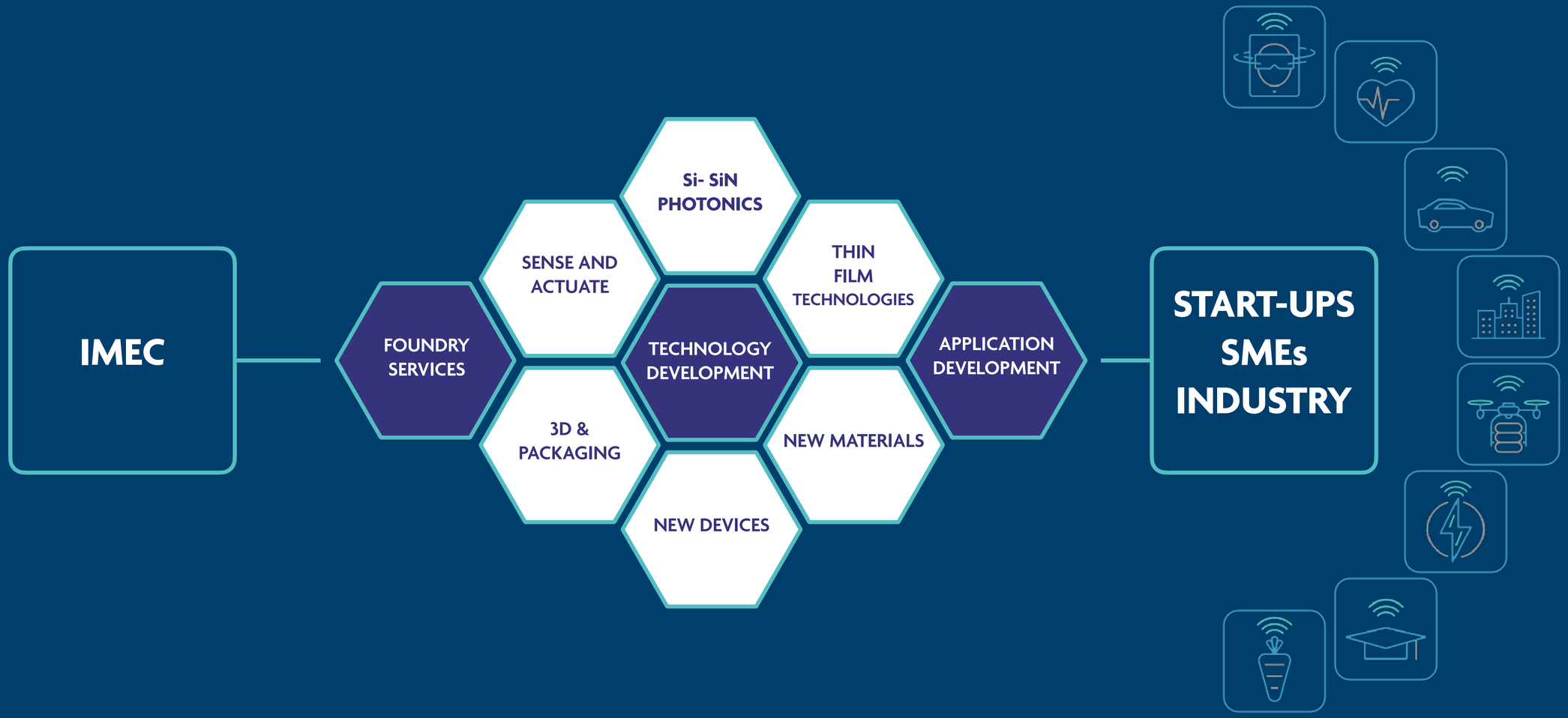
Combining foundry + specialty technologies



Technology **D**evelopment-**A**s-**A**-**S**ervice

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