



imec

**NANOELECTRONICS AND DIGITAL TECHNOLOGY
ENABLING DISRUPTIVE INNOVATION**

LUC VAN DEN HOVE - PRESIDENT AND CEO

IMEC'S MISSION

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Imec is the world-leading R&D and innovation hub in nanoelectronics and digital technology.

As a trusted partner for companies, start-ups and academia we bring together brilliant minds from all over the world in a creative and stimulating environment.

By leveraging our world-class infrastructure and local and global ecosystem of diverse expert partners across a multitude of industries, we accelerate progress towards a connected, sustainable future.

IMEC'S MISSION

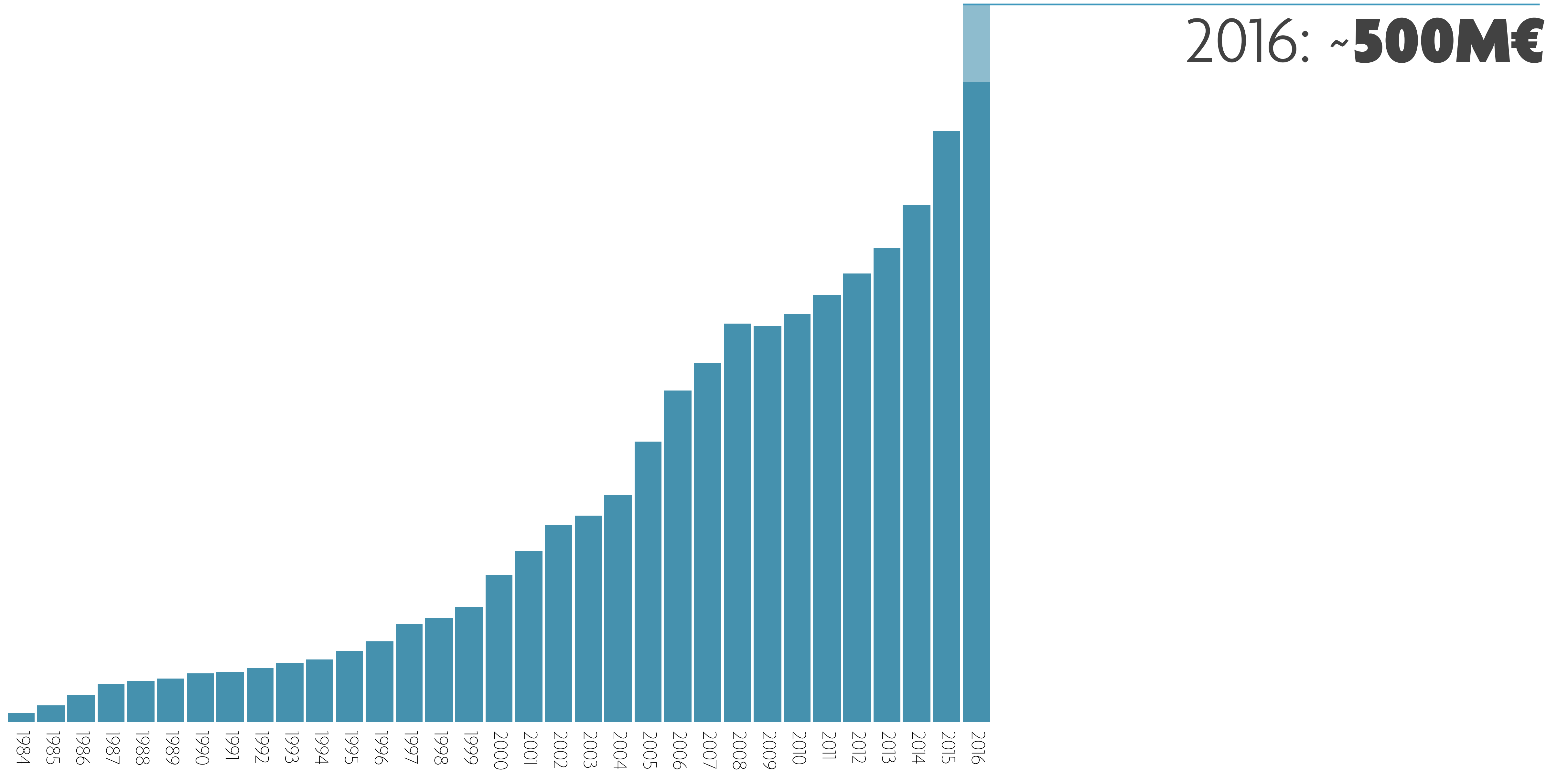


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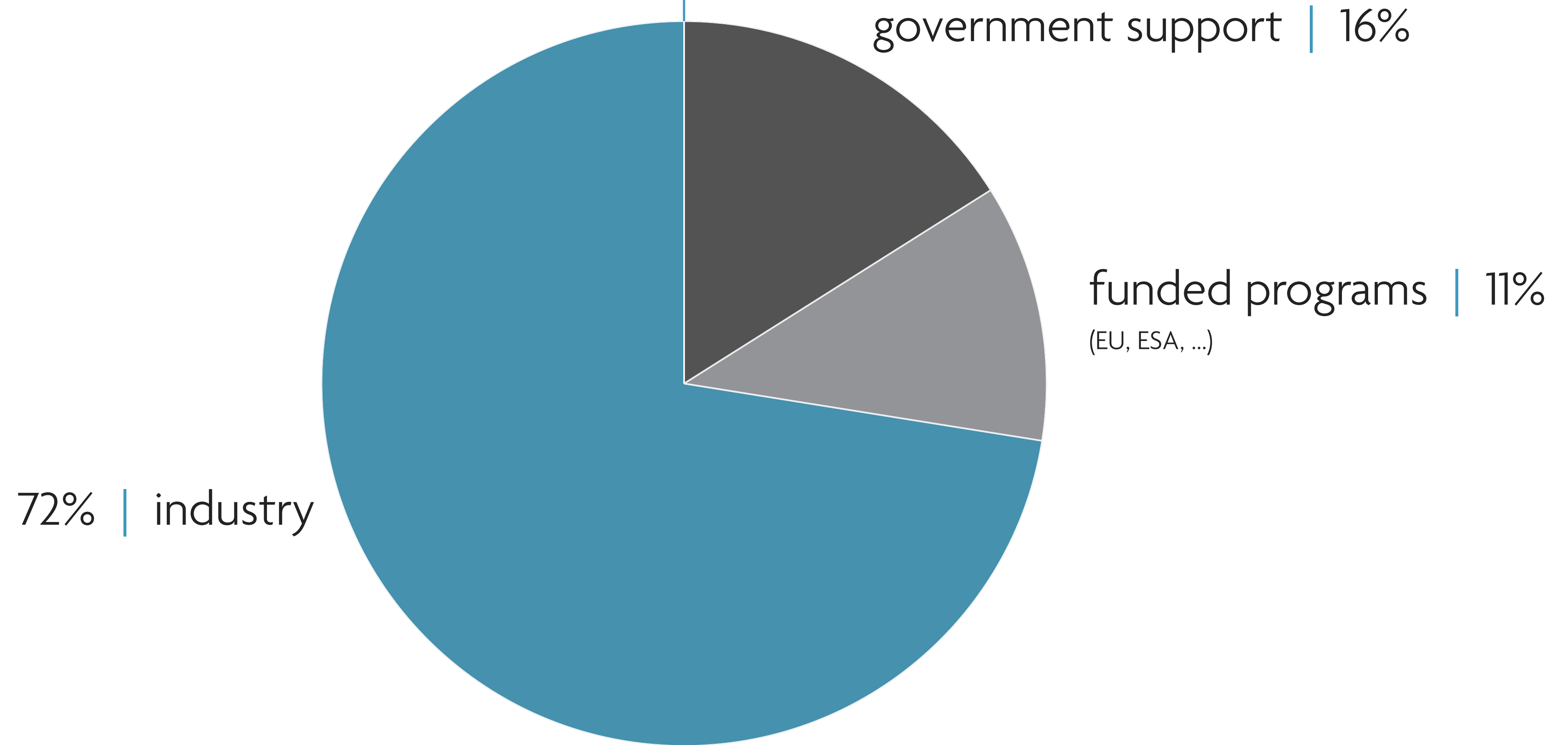
By leveraging our [world-class infrastructure](#) and [local and global ecosystem](#) of diverse expert partners across a multitude of industries, we accelerate progress towards a [connected, sustainable future](#).

BUDGET

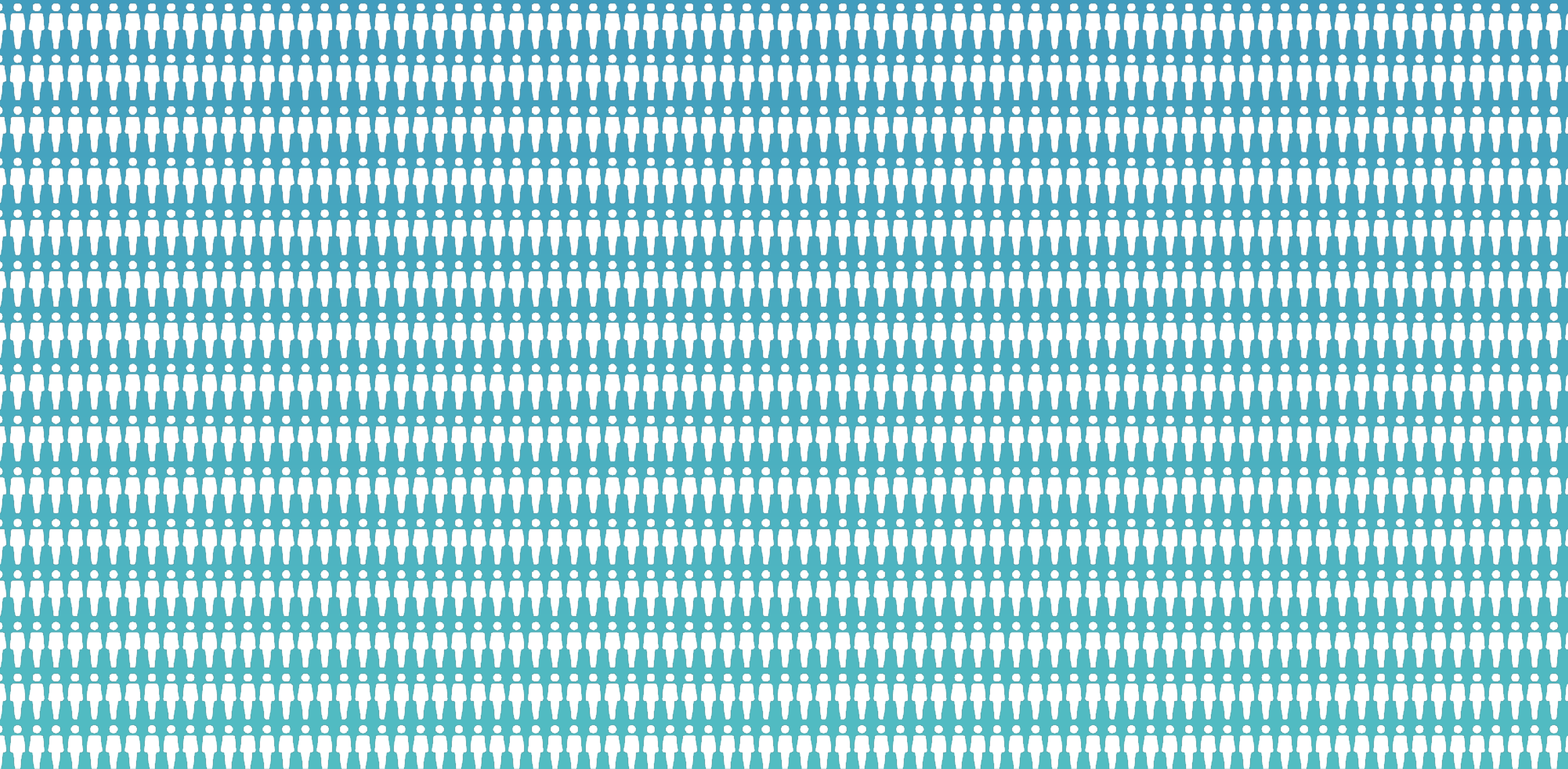


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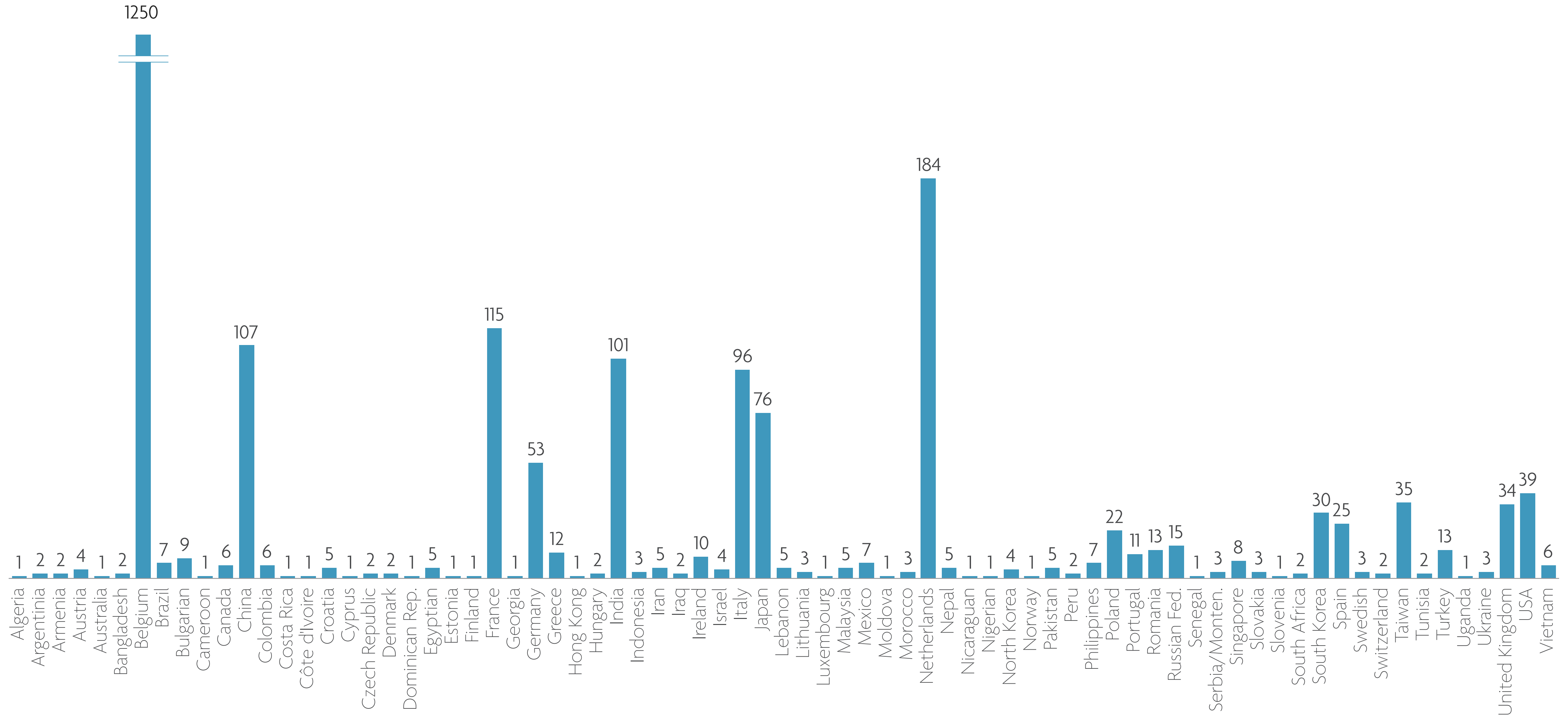
2016: ~**500M€**



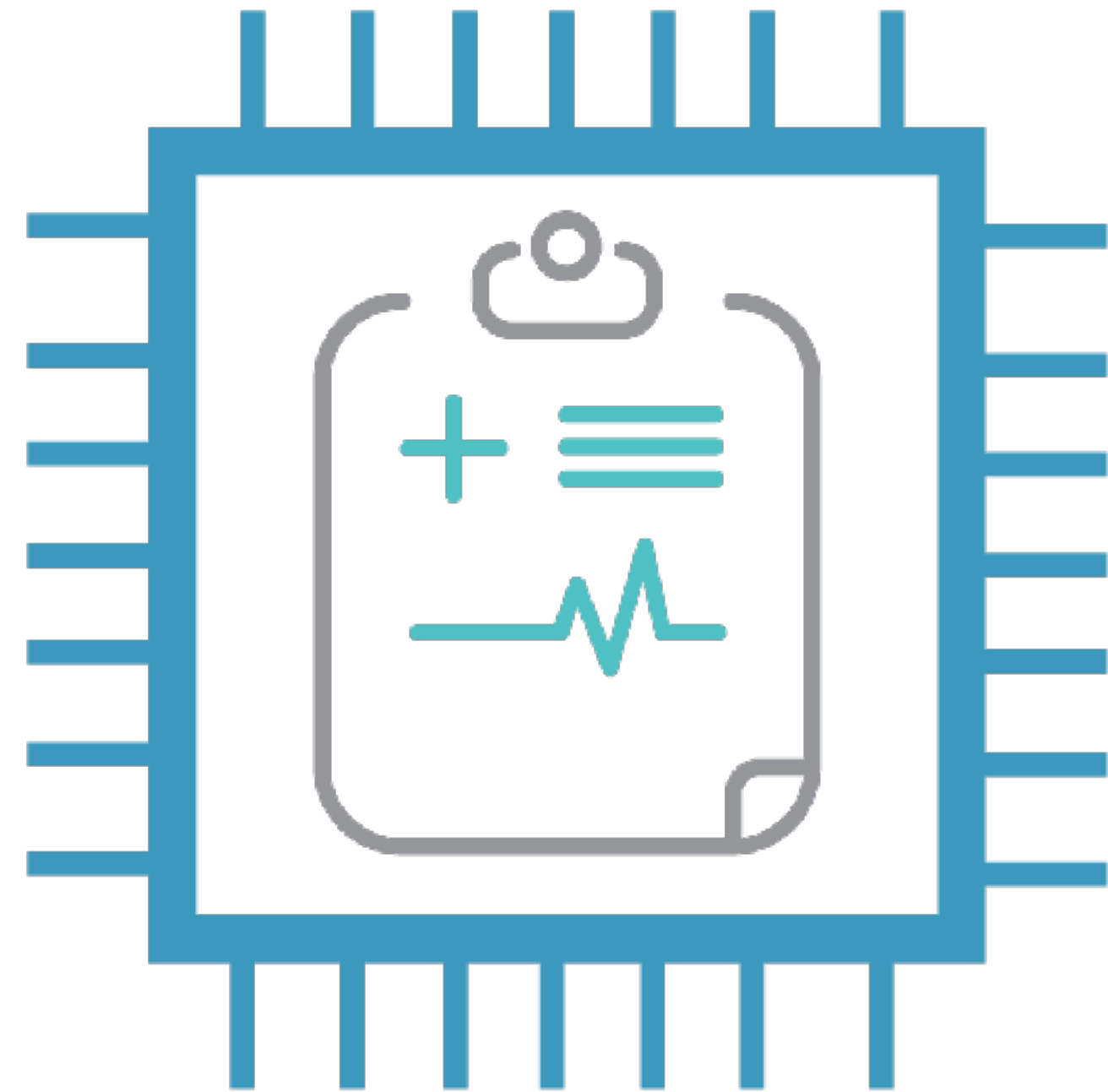
~3,500 RESEARCHERS



75 DIFFERENT NATIONALITIES



MOST ADVANCED MICROCHIP TECHNOLOGIES



SMART HEALTH



SMART MOBILITY



SMART CITIES



SMART INDUSTRIES

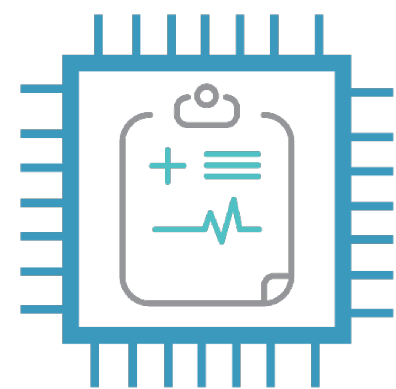


SMART ENERGY

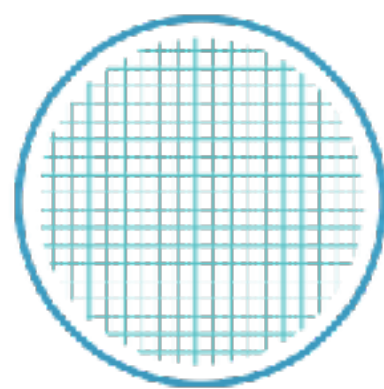


SEMICONDUCTOR TECHNOLOGIES & SYSTEMS

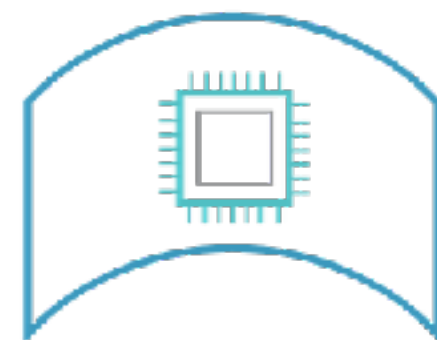
CORE CMOS



SENSOR TECHNOLOGY



FLEXIBLE TECHNOLOGY



DIGITAL TECHNOLOGY PLATFORMS

NETWORKING



DIGITAL PRIVACY & SECURITY



DATA SCIENCE AI





wearables & diagnostics
healthcare within everybody's reach



smart mobility
connected driverless cars



smart manufacturing & logistics:
where humans and robots work together



smart cities:
Europe's largest smart city lab



sustainable energy generation & storage
smart energy systems

FLEXIBLE BUSINESS MODELS

JOINT R&D - OPEN INNOVATION
PRIVATE OR DEDICATED R&D
TRANSFER & LICENCING
PROTOTYPING SERVICES
TRAINING - IMEC ACADEMY
VENTURING - START UP





IMEC ECO SYSTEM



IMEC ECO SYSTEM

APPLICATION PARTNERS

FABLESS & FABLITE

IDMS & FOUNDRIES

SUPPLIERS

IMEC ECO SYSTEM

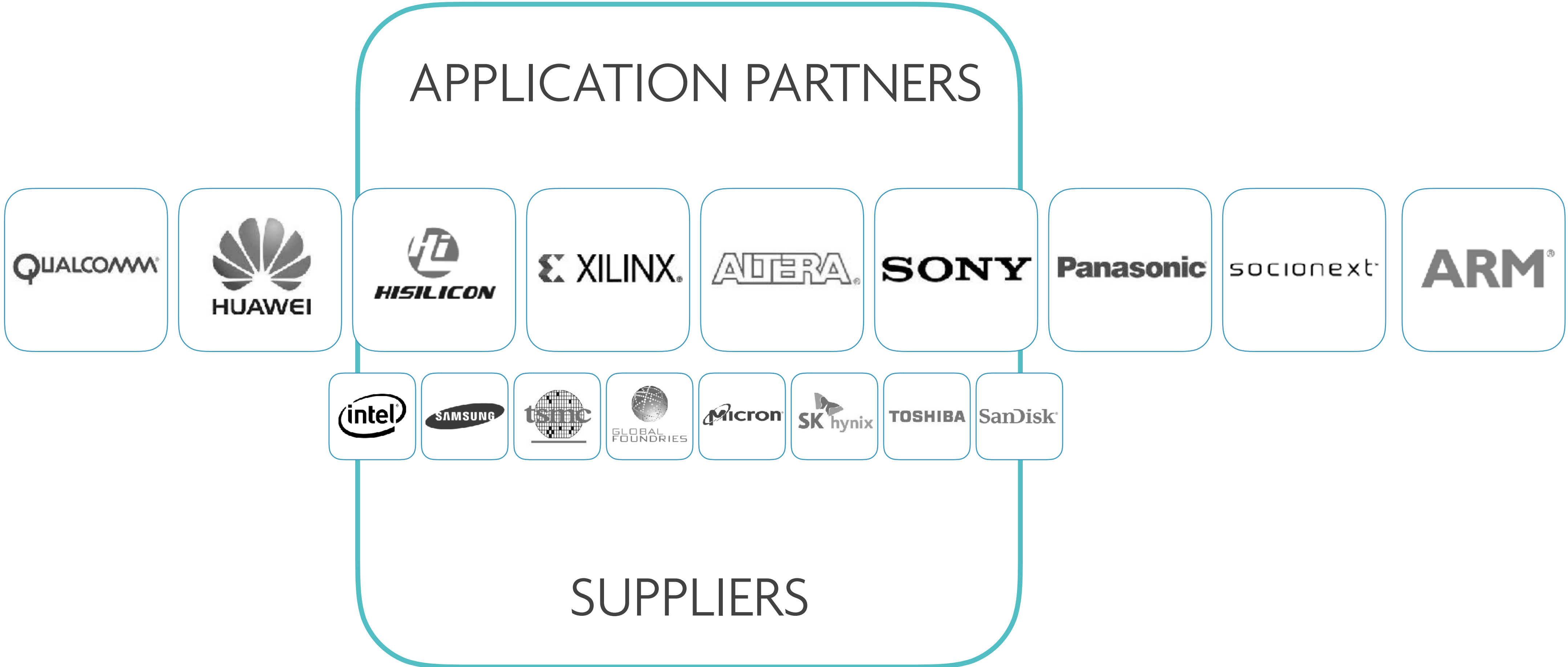
APPLICATION PARTNERS

FABLESS & FABLITE

SUPPLIERS



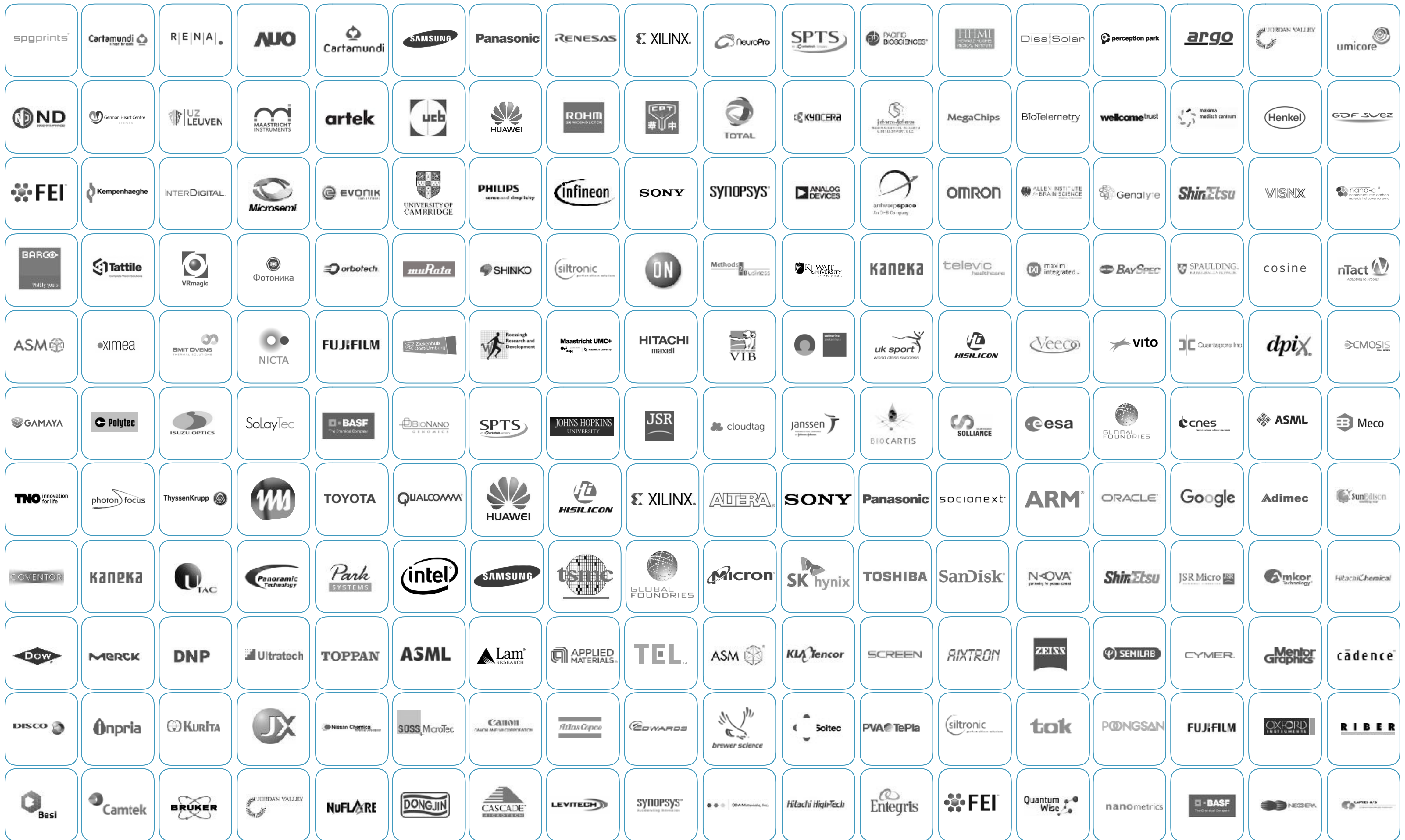
IMEC ECO SYSTEM



IMEC ECO SYSTEM

APPLICATION PARTNERS





IMEC OPERATIONS



USA
SAN FRANCISCO



USA
ORLANDO



BELGIUM - HQ
LEUVEN



THE NETHERLANDS
EINDHOVEN

CHINA
SHANGHAI



HSINCHU

JAPAN
OSAKA



JAPAN
TOKYO

investment ~2B€



COLLABORATIONS WITH **CHINA**

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SHANGHAI HUAHONG GROUP (上海华虹集团)



- ▶ 2002: 0.18um & 0.13um CMOS technology cooperation
- ▶ 2010: 65nm-55nm CMOS technology cooperation

CETC (中国电子科技集团)



- ▶ 2004: Flash Memory Technology transfer
- ▶ 2013: 3D process technology cooperation, phase one
- ▶ 2014: 3D process technology cooperation, phase two
- ▶ 2015-... : MEMS technology cooperation

COLLABORATIONS WITH CHINA

SMIC (中芯国际)



- ▶ 2003: 0.13um CMOS technology transfer
- ▶ 2015: 14nm and below CMOS technology cooperation

HUAWEI (华为)



- ▶ 2012: Wireless communication technology cooperation
- ▶ 2013-...: Silicon Photonic technology cooperation
- ▶ 2014-...: Core partner of IMEC for CMOS technology program

TRAINING FOR CHINA

IC DESIGN AND PROCESS TECHNOLOGY

- **CITEF (中国国际人才交流基金会)**

 - From 2006-2014: 9 times 3-month classes reaching over 150 Chinese university professors

 - From 2015: merged with MIITEC training program

- **MIITEC (工信部)**

 - Started in 2014: frame agreement signed, 1 class of 1 month at imec

 - Grows exponentially

 - 2017: over 2'000 industry and executive people trained, totaling >45'000 contact hours

 - Twenty 3-day domestic courses and three 30-day overseas hands-on courses at imec

- **DUT (大连理工大学)**

 - From 2006-2014: various training courses at DUT for DUT professors and students

- **FUDAN university (复旦大学)**

 - From 2017: Extensive cooperation program set up for dual degree master training, dual degree PhD training, guest lectures, staff exchange, joint technical workshops, etc.

 - Will be expanded to other top-ranked Chinese universities



mtec

embracing a better life