

Luc Van den hove

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President and CEO

**SVP** and CTO

imec international

#### CREATING

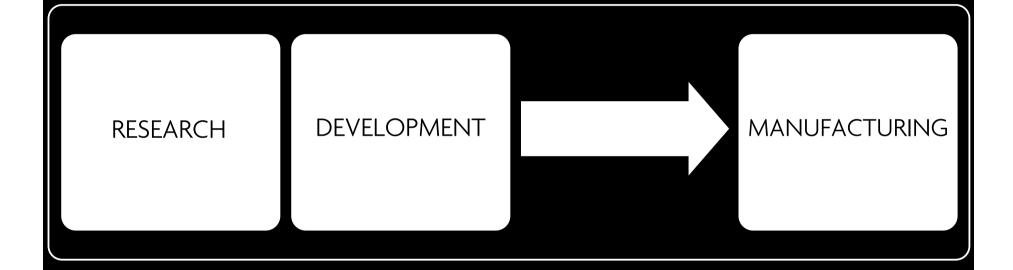
### SUSTAINABLE SOLUTIONS

**TOGETHER** 

# CONNECT COLLABORATE INNOVATE

### OLD INNOVATION MODEL

#### FULLY CAPTIVE MODEL



Luc Van den hove

### CAPTIVE MODEL FOR GENERIC R&D

### UNAFFORDABLE

COMPLEXITY INCREASING

**COST INCREASING** 

NEED FULL **ECO SYSTEM** 

PRE-COMPETITIVE

**RESEARCH** 

DEVELOPMENT

MANUFACTURING



**RESEARCH** 

**OPEN** 



DEVELOPMENT

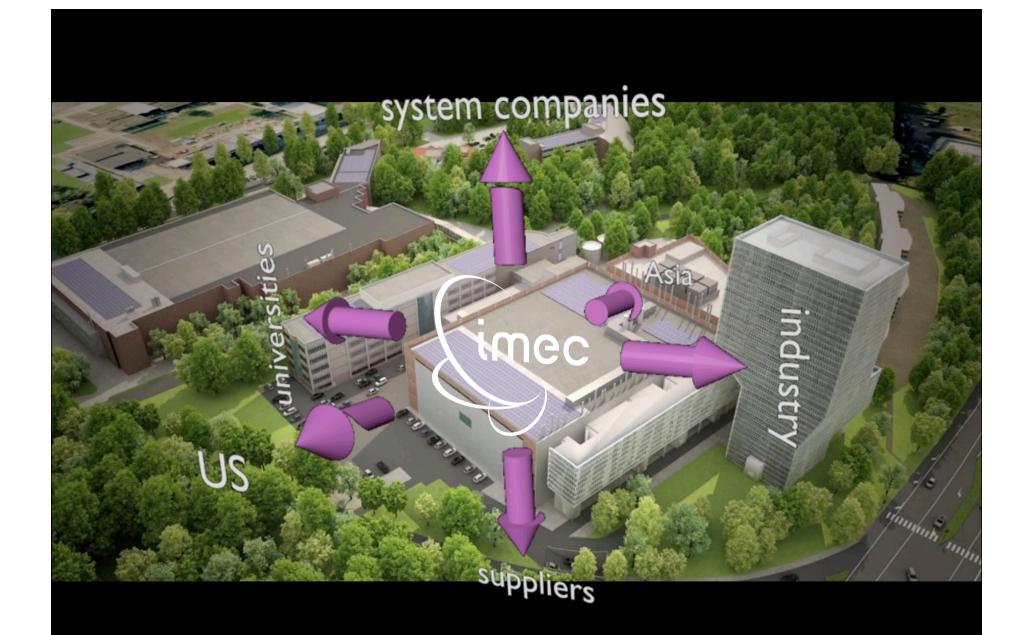
#### CAPTIVE

MANUFACTURING



# INNOVATION MODEL







#### **HISTORY**

- Established by state government of Flanders in 1984
- Independent non-profit organization
- Worldwide reach
- ▶ Initial investment: 62M€
- ▶ Initial staff: ~70



**MISSION** 

- World-leading research in nano-electronics
- Scientific knowlegde with innovative power of global partnerships in ICT, healthcare and energy
- Industry-relevant technology solutions
- **International top talent** in a unique **high-tech** environment committed to provide building blocks for a better life in a sustainable society



**FACTS & FIGURES** 

- Total revenue in 2011 of 300M€, a growth of 5%
- I,773 publications R&D related in 2011
- I32 patents awarded andI33 patents submitted in 2011
- Collaboration with 600 companies & 208 universities
- ▶ 600 residents



### STATE-OF-THE-ART RESEARCH FACILITIES

#### RESEARCH PROGRAMS FOR FULL ECO SYSTEM



Human++ BAN Life Sciences



Green Radio

Low power

wireless

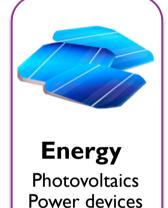
communication



Imaging
Image sensors
& vision systems

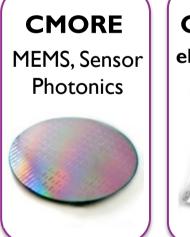


Sensor systems for industrial applications



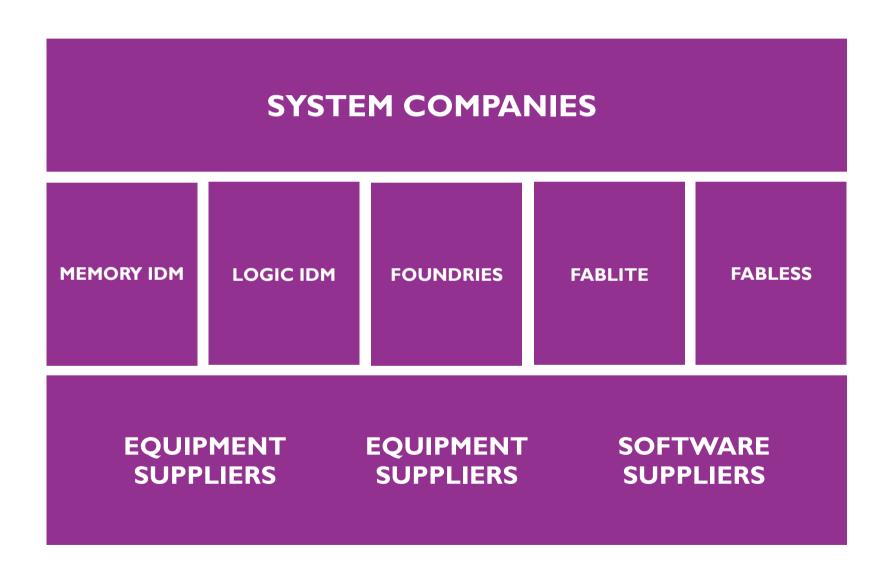
**LEDs** 







#### **GLOBAL NETWORK**





300mm PILOT LINE

- ► Investment > IB\$
- Unique lithography cluster centered around ASML equipment
- Advanced equipment and preproduction tools
- ▶ Ballroom type of cleanroom
- ▶ 4,800m² class 1,000 area

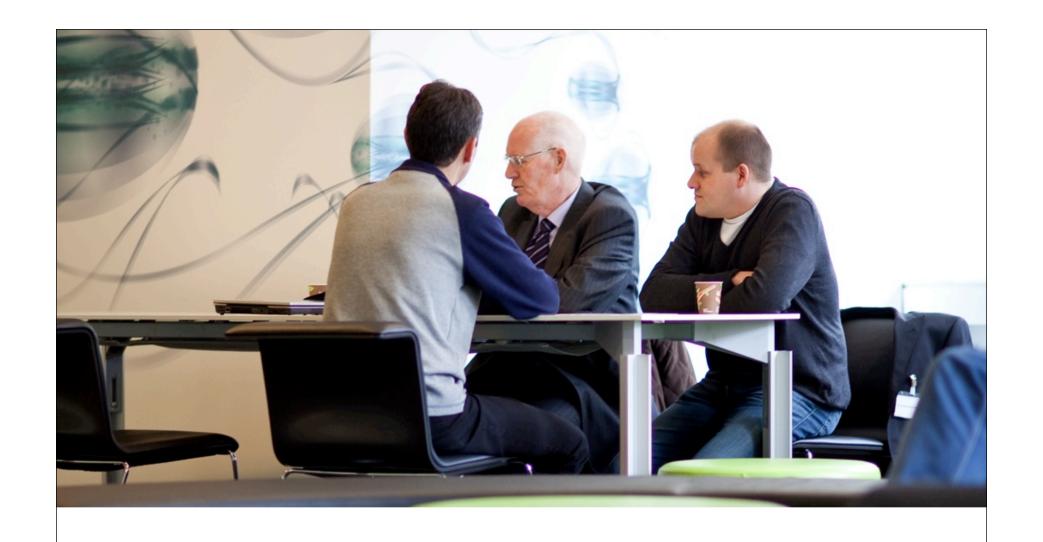


#### 300mm PILOT LINE:

- ▶ Silicon pilot line for (sub-)22nm
- ▶ Semi-industrial operation 24/7, process monitoring, short cycle time

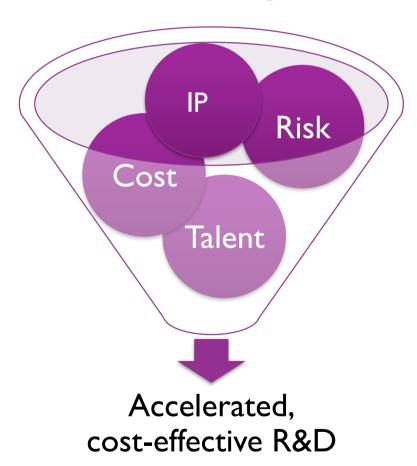


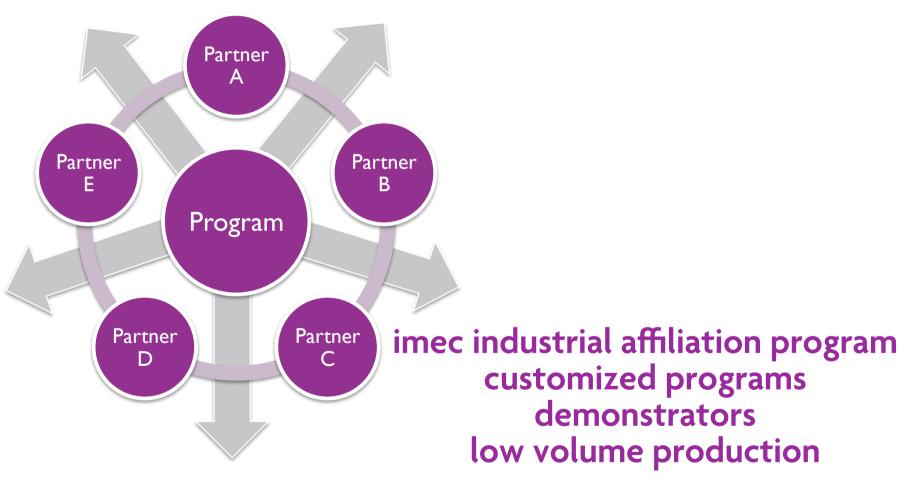
- ▶ Funding Flemish Government
- ► Towards Europe's innovation engine

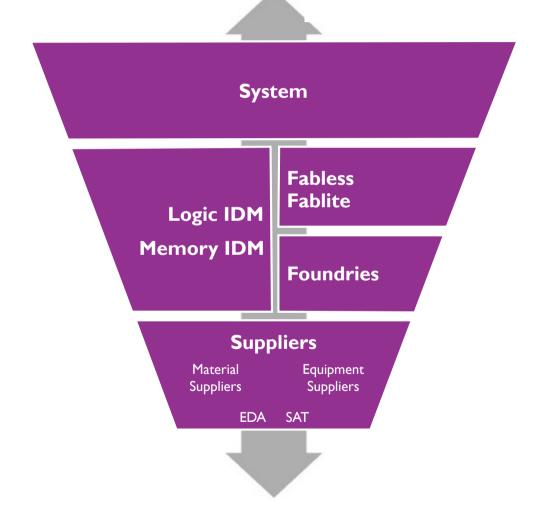


#### IMEC OPEN INNOVATION OFFERING

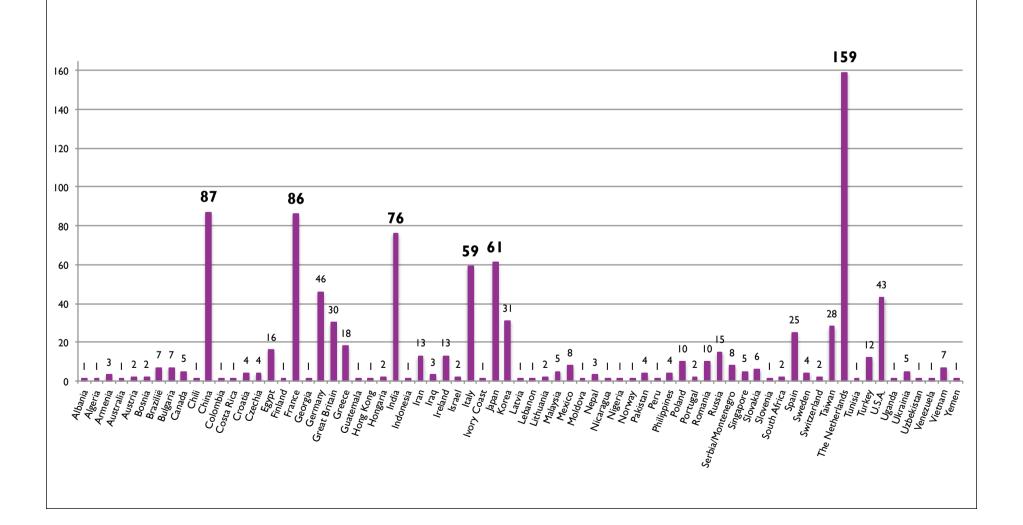
**Services Training Transfer Spin-offs** & licenses Joint R&D







# Open innovation with global talent





### International network of R&D sites and representation offices Unity of IP policy and IP use in programs Unity of management through imec International



#### Contribution to regional economy

PERFORMANCE INDICATORS

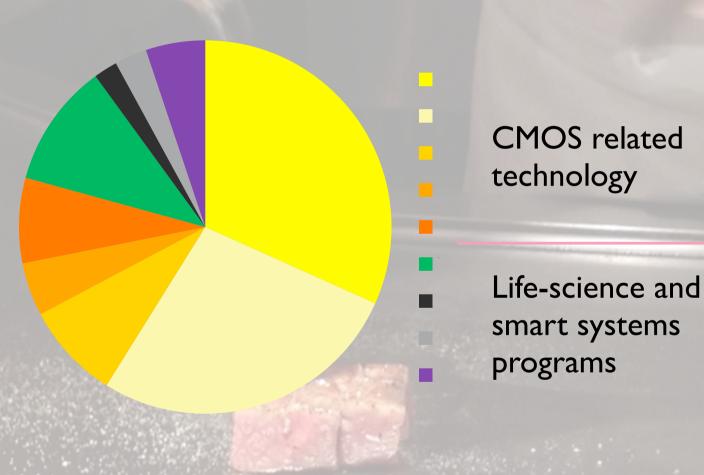
International excellence: Leading international R&D partnership Long term vision: university collaboration and teaching Local impact: enhancing regional participation and innovation



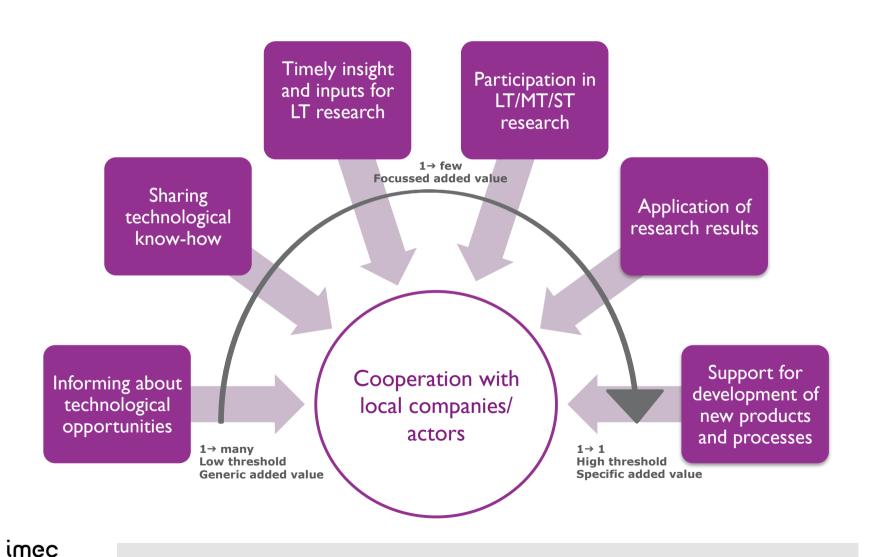
### imec partnership with Japanese companies 2000 - 2012



### imec partnership with Japanese companies 2000 - 2012



### COOPERATION WITH LOCAL COMPANIES/ACTORS



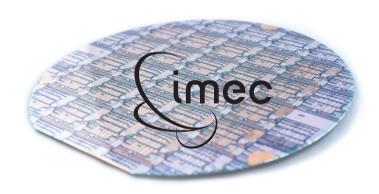
#### **EXPANSION MODEL FOR LOCAL INDUSTRY:**

#### MICROELECTRONICS FOR BENEFIT OF OTHER SECTORS







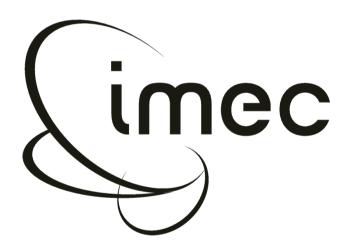












**THANK YOU**