

# Operating in a regional innovation ecosystem

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# History of the Brainport Eindhoven Region

The evolution of a single company to a regional innovation hub with global relevance

**Philips** drove the region's growth by creating an ecosystem of expertise, research, and collaboration that nurtured numerous spinoffs and startups.



# ASML makes lithography machines for making chips



# ASML's story begins in a Philips lab in Eindhoven in 1984

Humble beginnings make for a strong can-do culture



Started as a  
joint venture  
by Philips and  
ASM

Just 31  
employees  
with a can-do  
attitude

It took a  
decade of  
perseverance  
to break into  
the market



# Focus, collaborative innovation and perseverance have brought us here

Approximately 24,000 employees in the Brainport Eindhoven region



All major  
chipmakers  
use ASML's  
technology

One of  
Europe's  
biggest tech  
company by  
market cap

Annual R&D  
budget of  
€4.3 Bn

# Collaborative innovation from design to manufacturing

## Customers

- Commit early to innovation path
- Test, qualify, scale lithography
- Drive ecosystem for innovation

## Peers

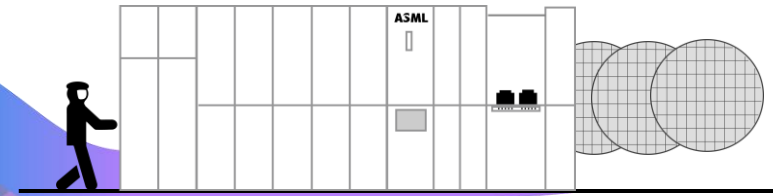
- Deliver critical infrastructure
- Innovate manufacturing process steps

## Academic partners

- Long-term academic tracks yield advances across fields (physics, chemistry, material sciences, etc)

## Suppliers

- Drive innovation and cost roadmap
- Share risk and reward



**ASML**

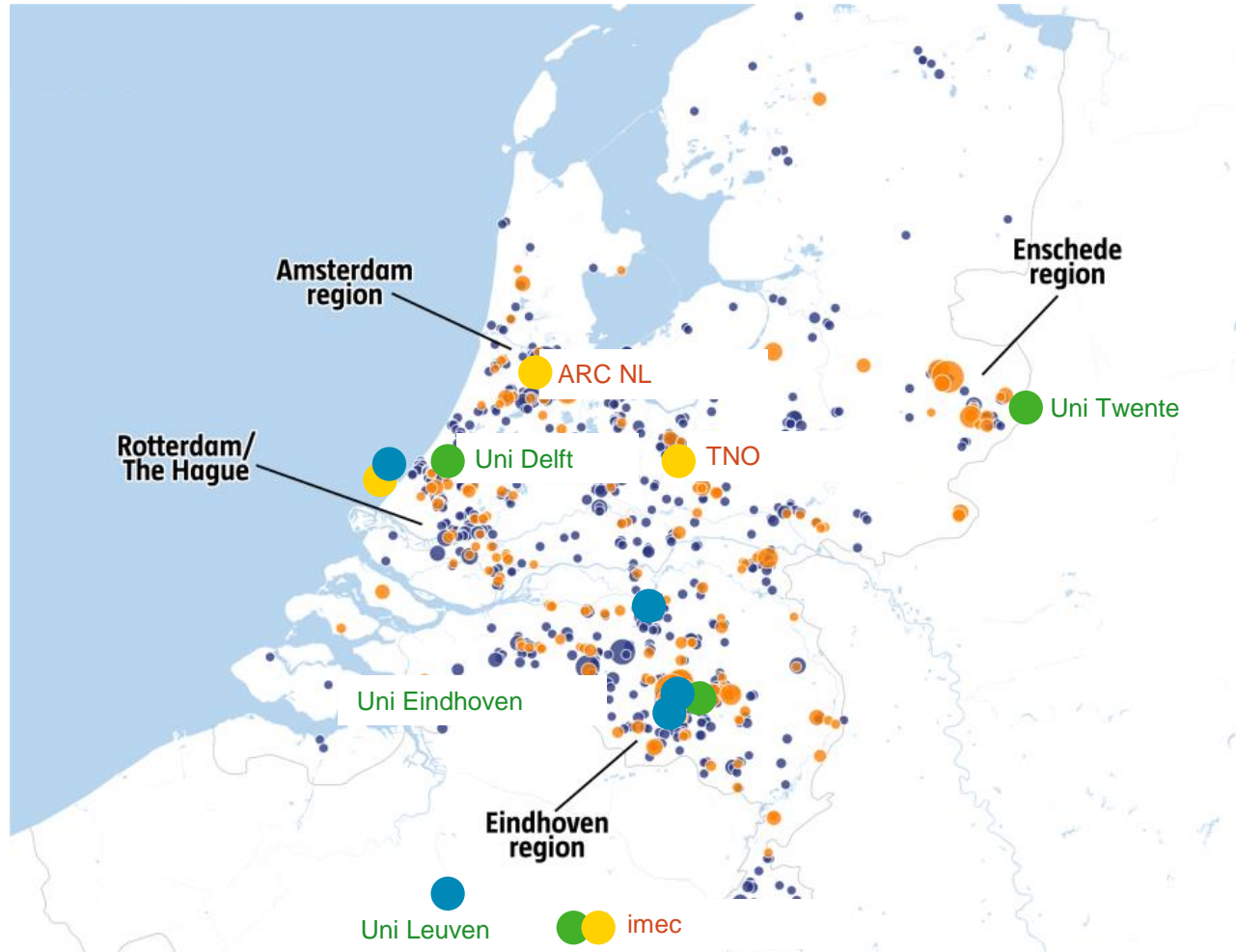


# Sharing risks & rewards with long-term partners in our ecosystem



# Zooming in on our regional ecosystem

We see ourselves as system architects & integrators



● ● Suppliers

Approximately **80%** of the bill of materials of our machines is **manufactured by suppliers**

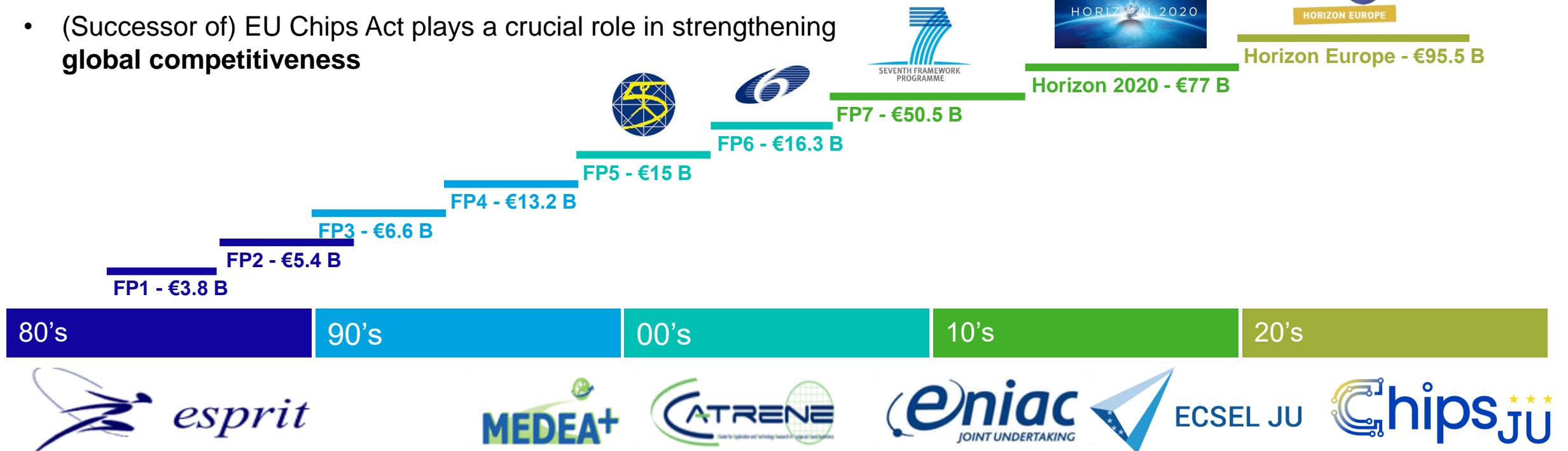
● Universities  
● Research institutes  
● Government



# How framework programs strengthen the innovation ecosystem

Draghi - [The future of European competitiveness](#)

- FPs 1-3 were an essential part of **ASML's survival** in the 80's & early 90's
- **EUV lithography technology development** supported by FPs in 90's & 00's
- **Facilitates and expedites R&D collaboration** within the ecosystem
- (Successor of) EU Chips Act plays a crucial role in strengthening **global competitiveness**





# We have a collective duty to ensure that we stay on the path of innovation

How can we continue to realize the potential that we have built?

## Improve competitiveness



## Invest in (STEM) talent



## Invest in R&D







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**Eindhoven, HTC**