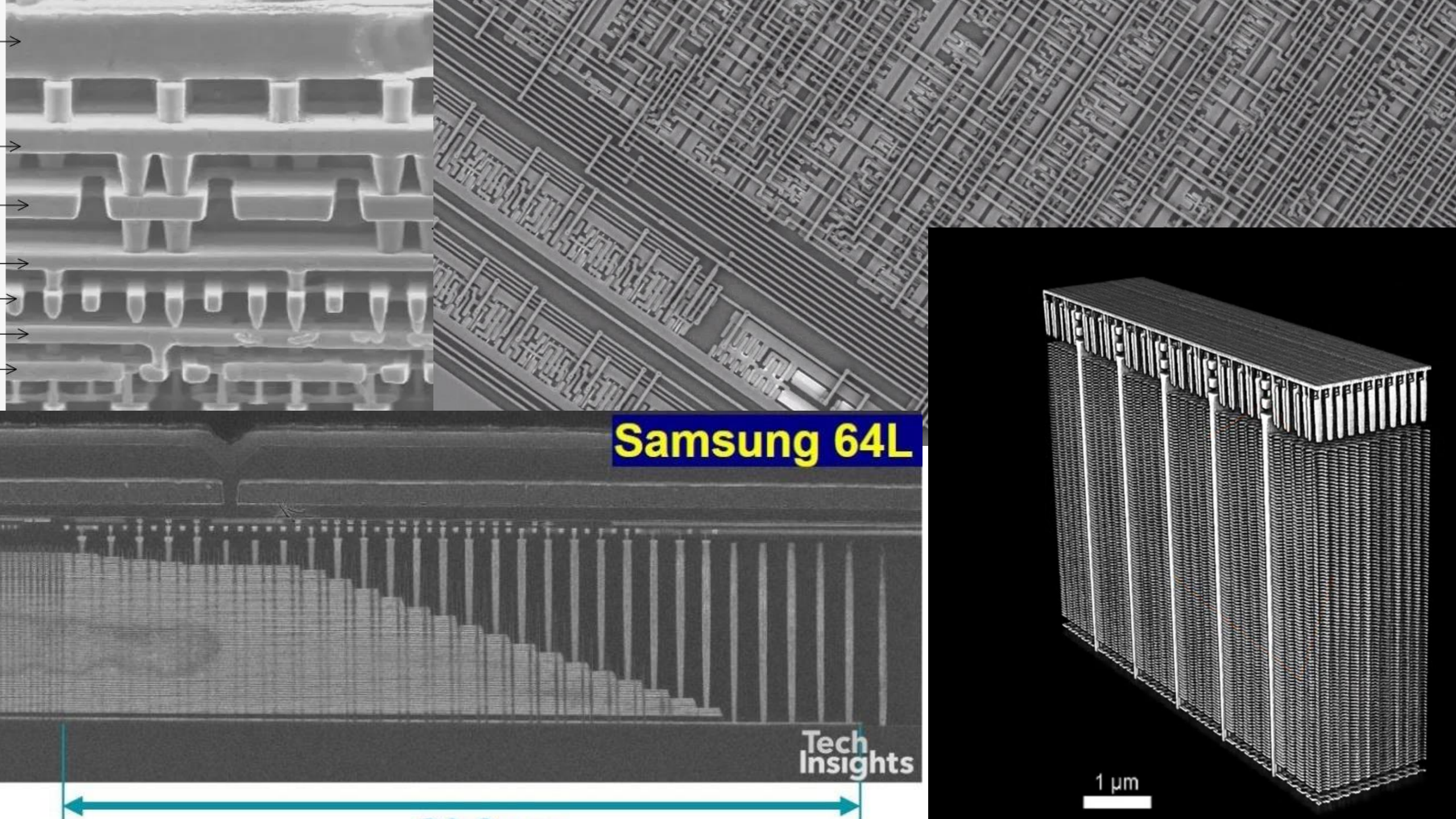
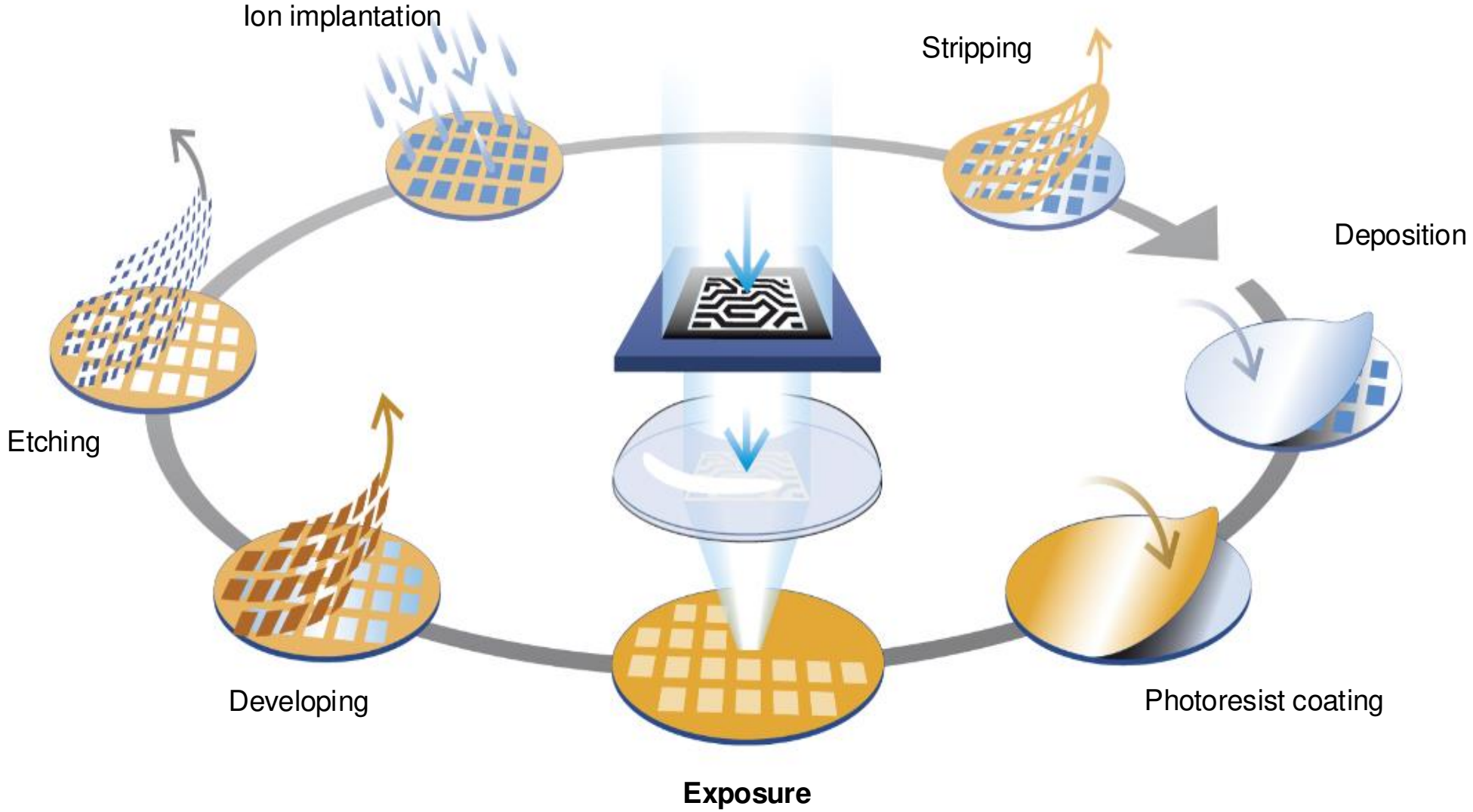
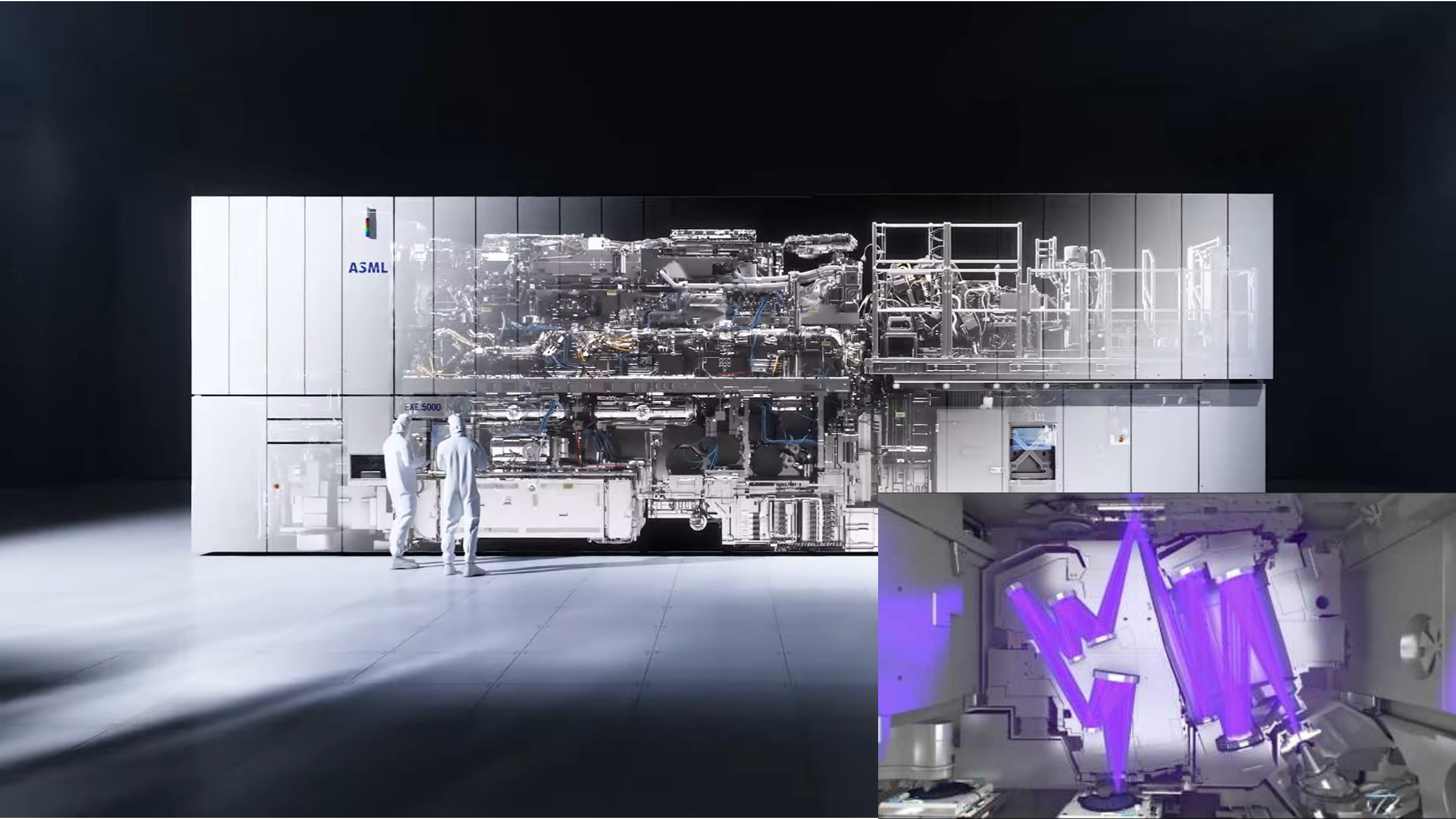
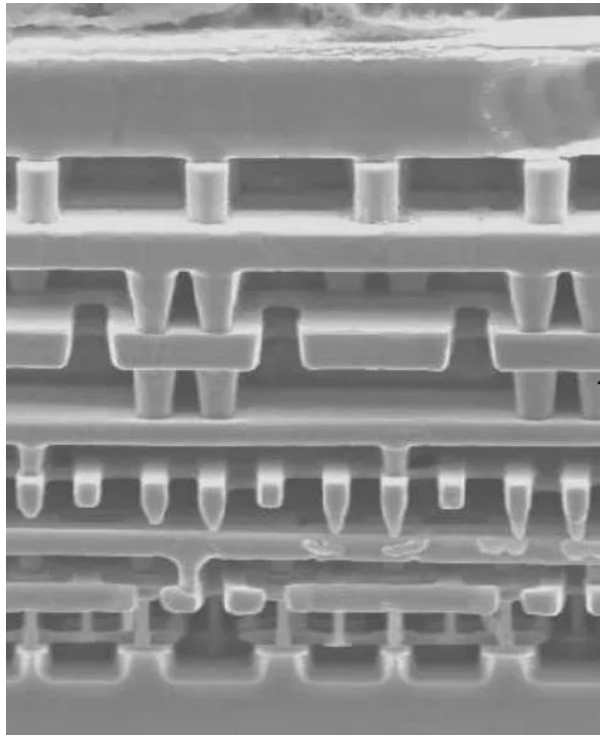

Samsung 64L
Tech Insights
1 µm


Ion implantation
Stripping
Deposition
Etching
Developing
Photoresist coating
Exposure


ASML
EXE:5000

ASML makes “projectors” and microscopes (and more ….)

Scanner: prints structures



YieldStar metrology tool: measures on printed structures

KU LEUVEN

imec

Stanford University

2010-2015

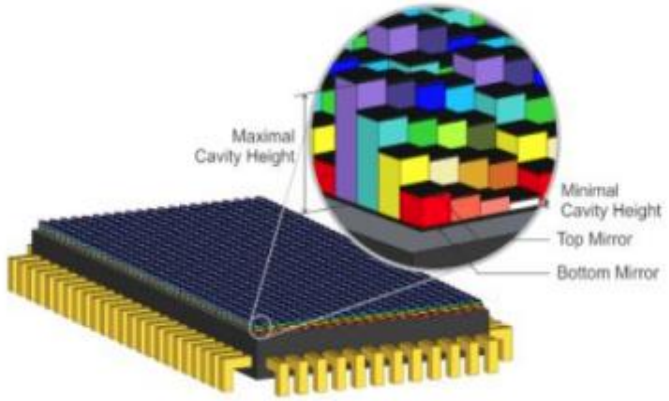
B.Sc. in Computer Science

M.Sc. in Mathematical Engineering

2016-2020

PhD Electrical Engineering

Physics of hyperspectral camera and thin-film optics

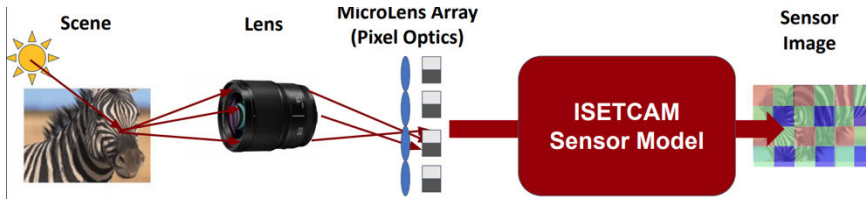


Courtesy of imec

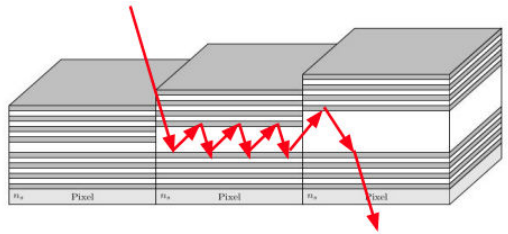
2020-2022

Google

Smartphone camera simulation

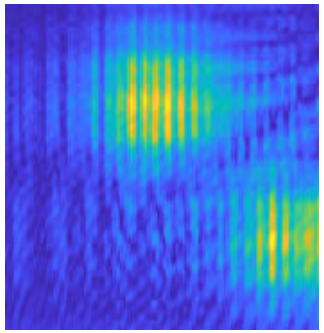


More Thin-film filters…



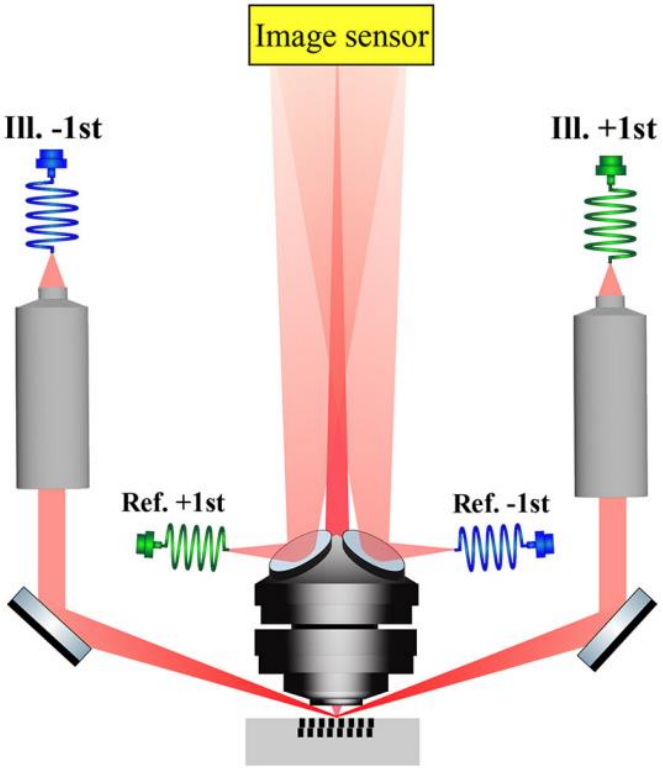
ASML

ASML
Research

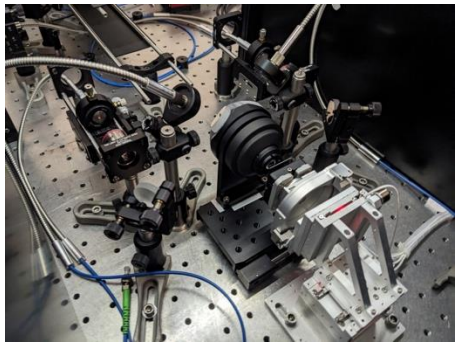


Theory:

Develop autofocus
Model the physics



(b)



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Experiment building

Build digital holographic microscope in cleanroom

MATLAB

python

Experimetal Data analysis

Software development

Writing software library for data analysis

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ASML at a glance

1984

Year founded

42,416

Total employees (FTE)

144

Nationalities

>60

Locations

2023 annual figures

ASML

Research

2023 | 2024 | ….?

Metalens inverse design

Physical modeling of Yieldstar

Theory:

Autofocus Algorithm for DHM

Physics

Experiment

Build digital holographic microscope in cleanroom

Software development

Writing software library for data analysis


ASML
A fly-through of
High NA
EUV