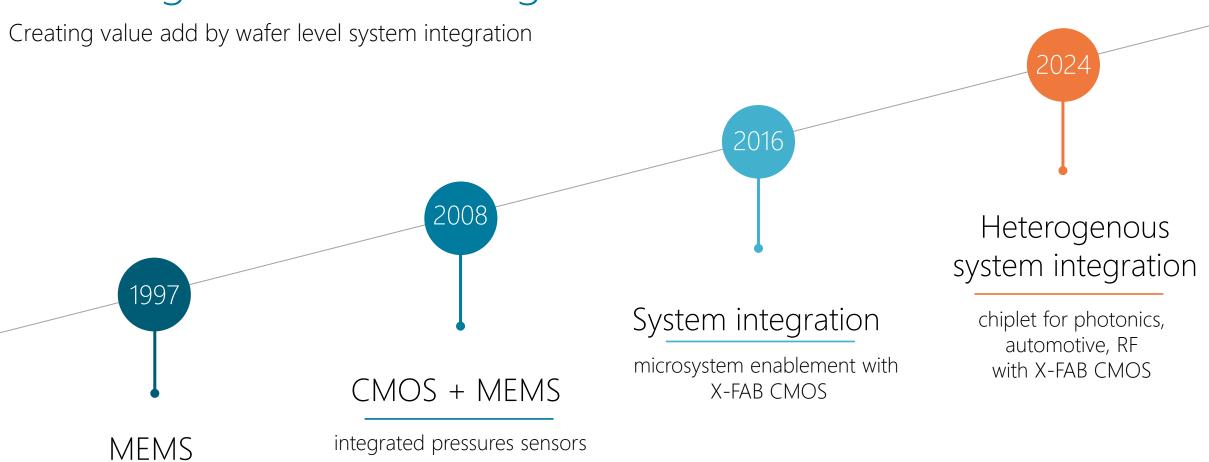


### Specialty business: MEMS Creating value-add for X-FAB CMOS business

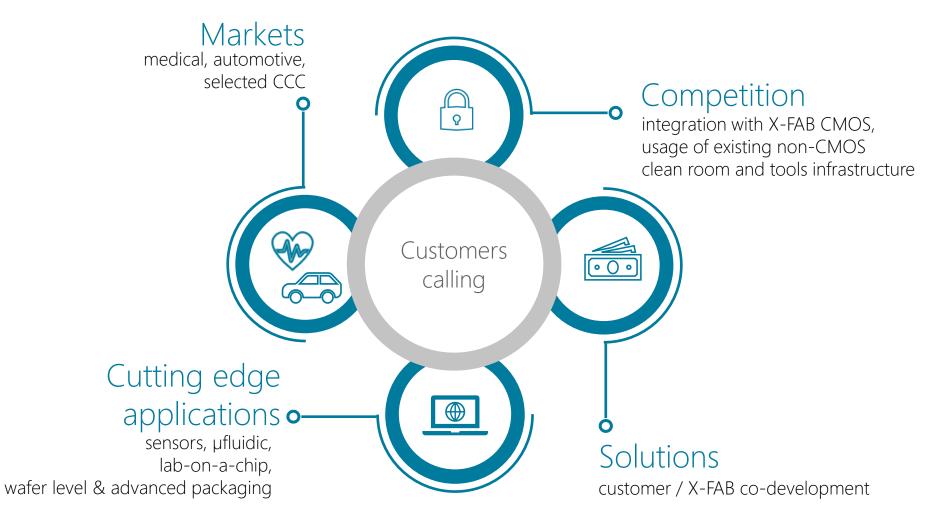
Volker Herbig | VP Business Unit MEMS

## Evolution of the business model is driving MEMS revenue growth



pressure sensor, thermopile

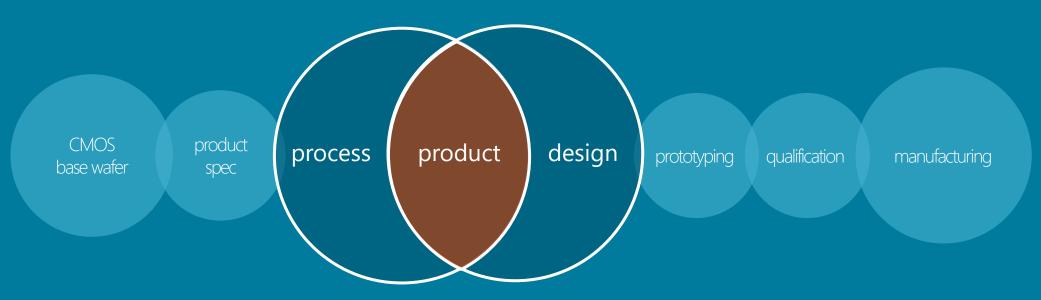
## Operating in the sweet spot creates an ideal business environment





#### Value-add is enabled by process customization

Customer & X-FAB collaboration space





Co-development is increasing product **value** 

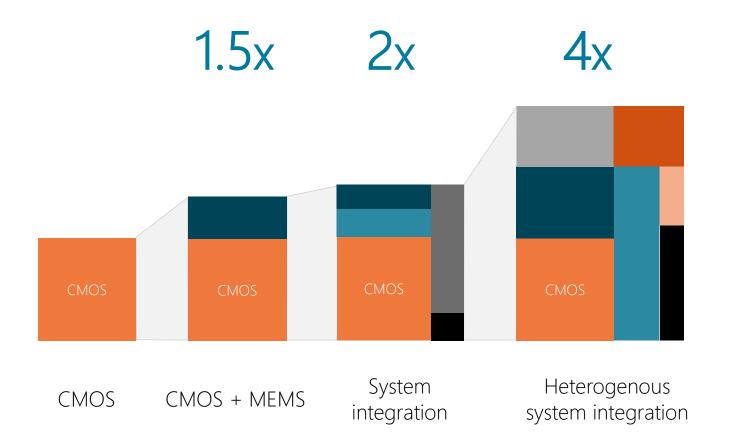


Fewer projects but with higher reward and substantial customer commitment



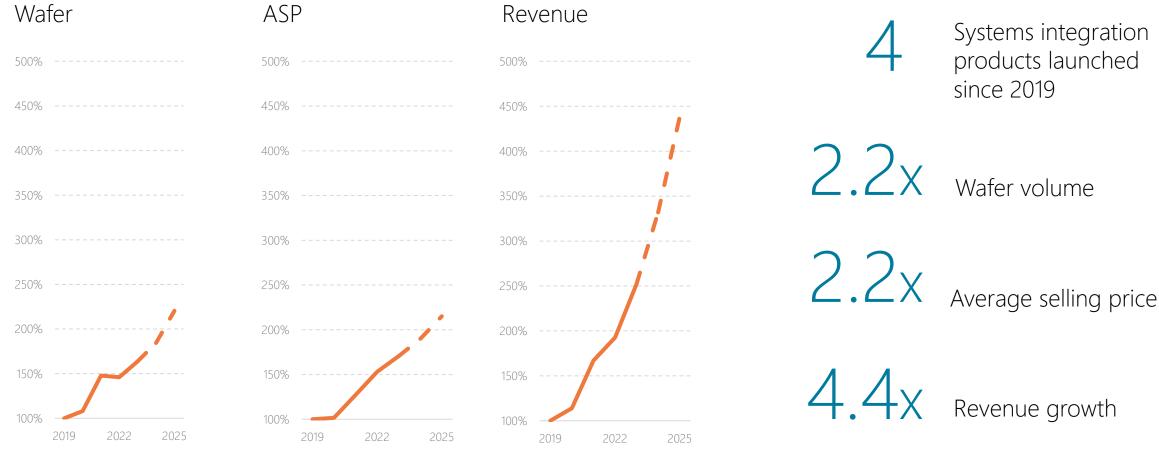
#### Value-add is increasing CMOS ASP up to 4x

Wafer-level system integration is creating high value on CMOS



#### Fewer but **high-value** MEMS process layers

# Average selling price and volume expansion are driving growth



### Applications enabled by wafer level system integration

#### xfab





High density automotive head lights



### Applications enabled by wafer level system integration

#### xfab

Ultra high brightness in- and outdoor displays



Smart guide wires for in situ stroke clot analysis



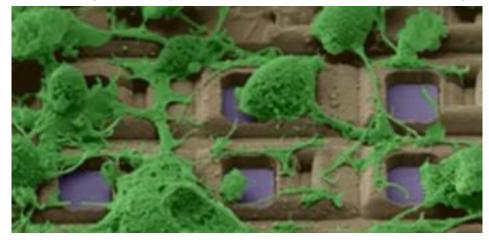
### Applications enabled by wafer level system integration

#### xfab

#### Fast human genome sequencing



In vitro high-density electrical cell interaction recording



#### xfab

#### MEMS applications

#### The most accurate pressure sensor ever made



Microdroplet spray device for drug delivery and beauty



Thank you.

(in ) (f) (a) xfab.com

