

# Admont



This project has received funding from the ECSEL Joint Undertaking under grant agreement No 661796.

This Joint Undertaking receives support from the European Union's Horizon 2020 research and innovation programme and Germany, Finland, Sweden, Italy, Austria, Hungary."



## ADMONT

# ADMONT Essential Capabilities & Services

Information for potential ADMONT pilot line user

V3.0 Status 09/2015

## Advanced Distributed Pilot Line for More-than-Moore Technologies

## Who is ADMONT?

### Advanced Distributed Pilot Line for More-than-Moore Technologies

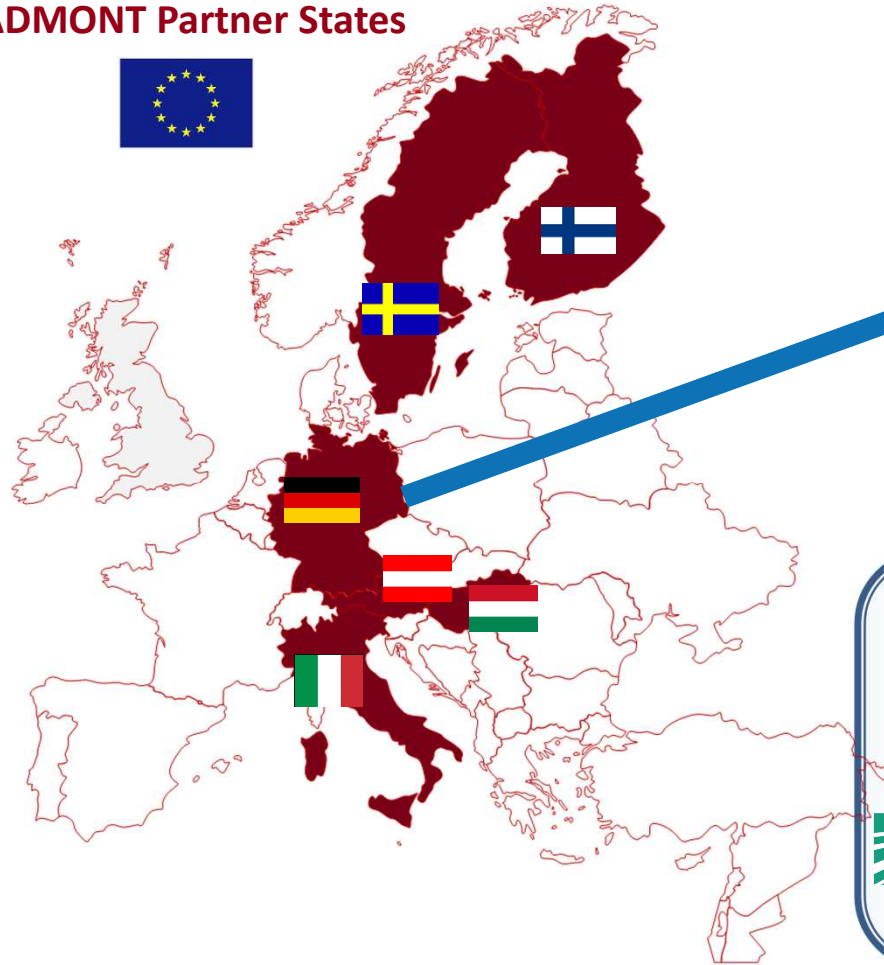
ADMONT is a **multi-KET pilot line** driven by a **combination of technology platforms** in Dresden carried by industry and research institutes serving pilot line clients in Europe


- ADMONT is organised along the **value chain** from wafer material, CMOS wafer, sensor and OLED processing to silicon system integration in one production flow
- ADMONT is an **ECS** (European Electronics Components and Systems) **ecosystem** in **Saxony** for Europe with sustainable impact on economic growth and employment in the European Union
- ADMONT addresses key applications: **smart mobility, smart energy, smart health** and **smart production** in excellent agreement with the **ECSEL Multiannual Strategic Plan**
- ADMONT addresses essential capabilities: **semiconductor process equipment and materials, design technology, smart system integration**

ADMONT as a distributed More-than-Moore pilot line is unique in Europe and worldwide.


## Where is ADMONT?

ADMONT Partner States






**FAB**  
MIXED-SIGNAL FOUNDRY EXPERTS




**Fraunhofer**  
FEP

### ADMONT Pilot Line



**Fraunhofer**  
IPMS



**Fraunhofer**  
IZM

## ADMONT Mission

- The **pilot line** is organized along the value chain from CMOS wafer processing with MtM 0.35 $\mu$ m high and ultrahigh voltage and integrated sensor technologies at X-FAB Dresden, sensor processing and sensor material development at FhG-IPMS Dresden, organic semiconductor materials and OLED processing at FhG-FEP and 2.5/3D silicon-system integration at FhG-IAM.

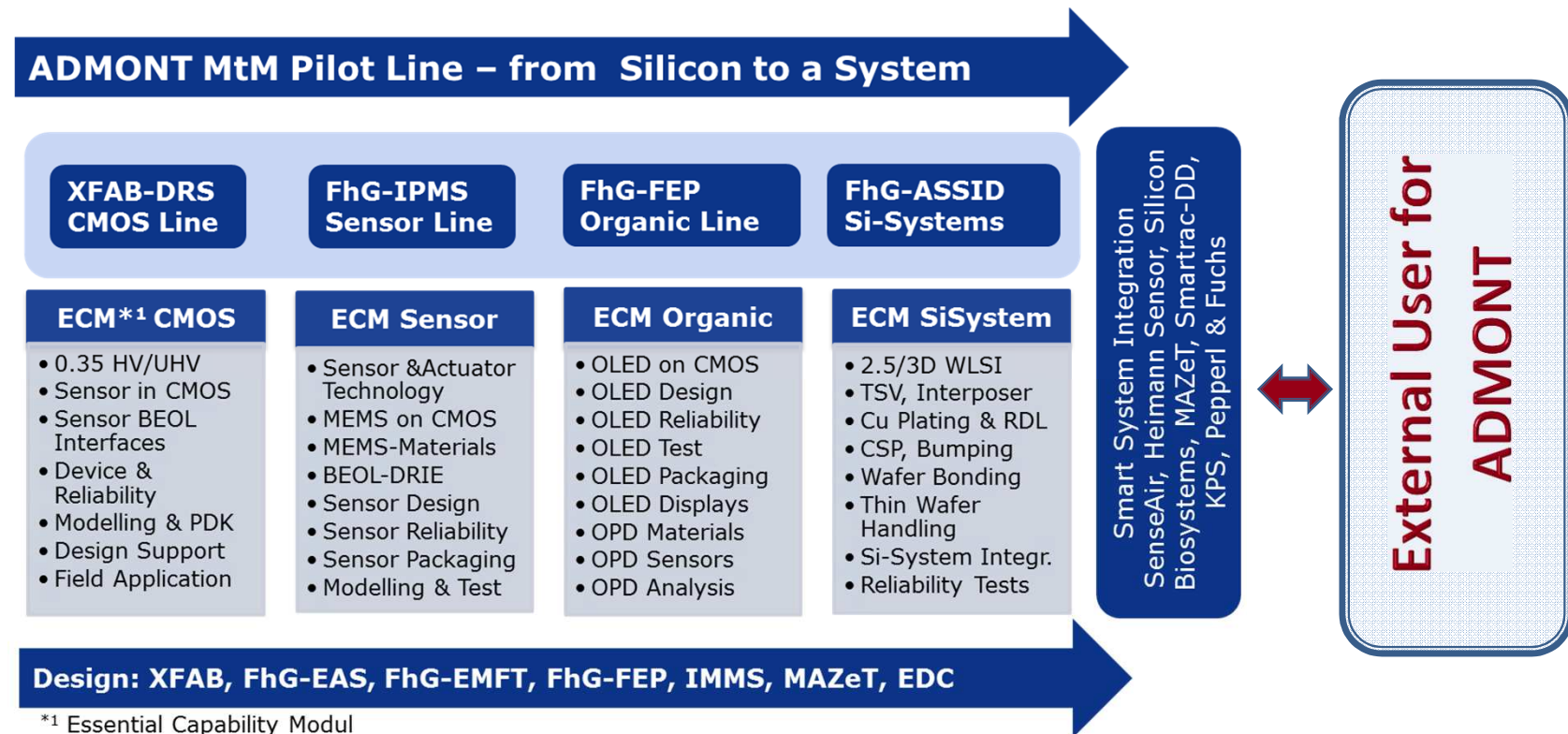


## ADMONT Advantages

- On-stop-shop for from ASIC design support to wafer manufacturing and silicon system integration
- Established material and design flow between partner and their pilot lines (clean rooms are located close together)
- Monitoring of manufacturing status, in-line parameter, PCM parameter and quality parameter across all partner
- Easy access to standard CMOS processes and highly specialized sensor, actuator, organic semiconductor materials processes and modules
- Wafer level packaging and 3D silicon system integration together with thin wafer handling and processing

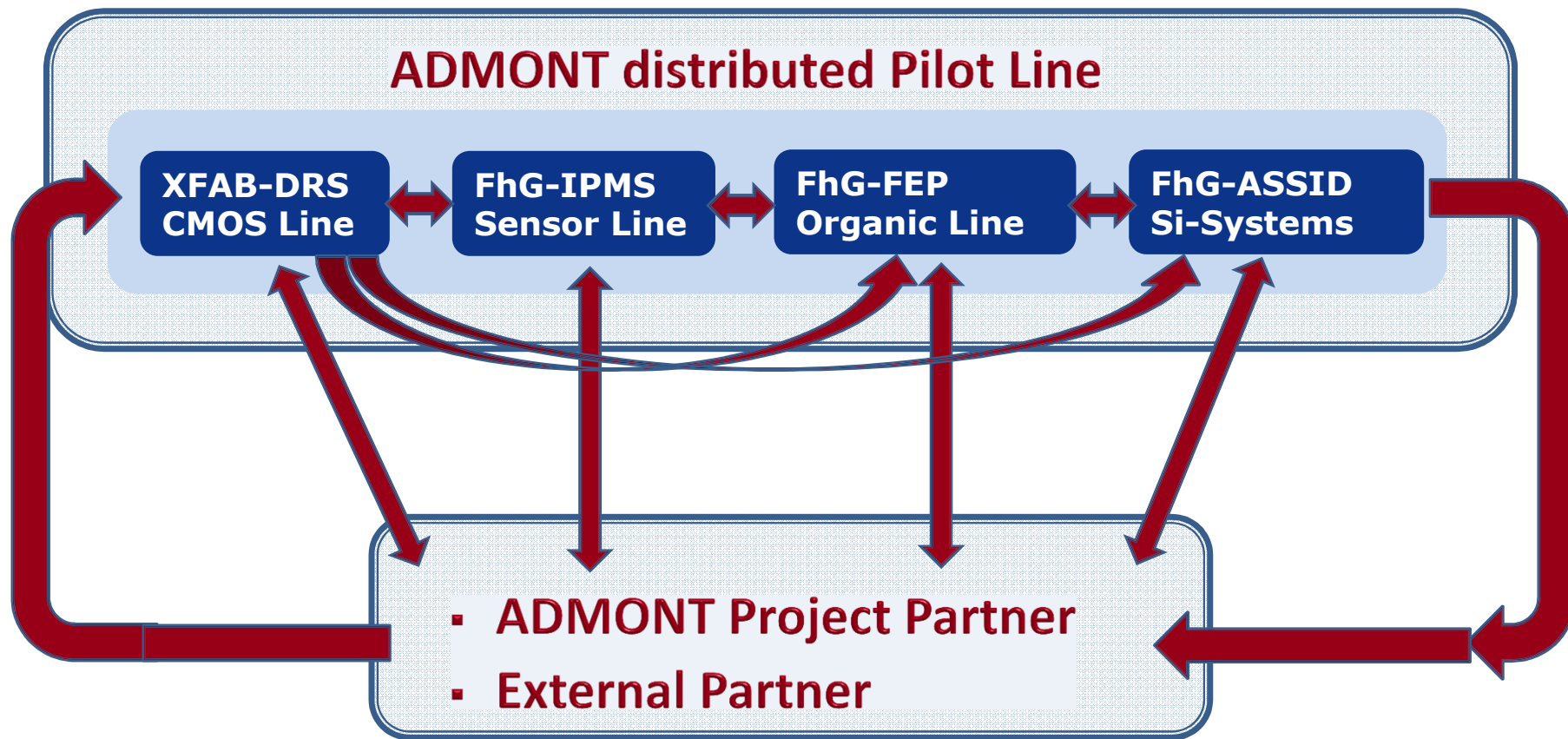
## ADMONT Concept & Capabilities

- ADMONT pilot line concept, structure and excellences



- Detailed Information are available under (Link: XFAB, IPMS, FEP, ASSID)

## ADMONT Business Model, Work Flow & Data Flow



## Open Platform for Micro- & Nanotechnology

## ADMONT Services

- The ADMONT pilot line includes prototyping, testing, demonstrating, piloting and silicon system integration between TRL4 and TRL8 (TRL = Technology Readiness Level)
- ADMONT is working like an classical silicon foundry with subcontracting services between line partner.
- The ADMONT pilot line is working as an open platform and customers can select and use single processes or technology modules or combinations of it from all capabilities for smart silicon system integration.
- ADMONT pilot line delivers typically data like: process, in-line, SPC, quality, optical inspection, wafer maps, .....



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## ADMONT Grant Agreement No. 661796

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