

ADMONT

Advanced Distributed Pilot Line for More-than-Moore Technologies

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The “Advanced Distributed Pilot Line for More-than-Moore Technologies” project (ADMONT) is focused on a powerful and versatile More-than-Moore (MtM) pilot line for Europe expanding the diversification of CMOS process technologies. The combination of existing expertise, technological capabilities and the manufacturing capacitance of industrial and research partners creates a whole new ecosystem within Europe’s biggest silicon technology cluster “Silicon Saxony”. The distributed pilot line utilizes various MtM process technologies in combination with baseline CMOS processes in a unique way and incorporates 2.5D as well as 3D integration into one single manufacturing/production flow. It is supported by advanced design technologies to address the challenges of modelling and simulation of MtM relevant aspects like reliability, deterioration effects, process variability, and IT solution aspects for MtM smart fabrication and data processing to generate a smart infrastructure. The distributed pilot line is working as an open platform and is able to integrate future technologies for autonomous and smart system solutions. The ADMONT project is focused on four main key applications: smart energy, smart mobility, smart health, and smart production. Therefore, it will enable and strengthen the growth of electronic components and systems (ECS) as it is crucial for the future of various European industrial domains depending on leading edge ECS.