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R&D Demo Validation

- Real-environment testing without CAPEX
- Process validation before investment
- Fast development iterations

Ideal for NPI phases and investment decisions

Services

Analysis & Feasibility

- Technical concept evaluation
- DFM / DFT (design for manufacturing & test)
- Risk identification
- Roadmap definition

Process & Technology Development

- Definition of industrial architecture
- Technology and equipment selection
- Parameter tuning
- Test iteration

Test & Validation ("Test Before Production")

- Testing in Smart Demo Center
- Test program development
- Functional and process validation
- Technical results analysis

Prototyping & Iteration

- Prototype manufacturing
- Fast iterations
- Continuous design improvement

Advanced Engineering

- Process PFMEA
- Modelling and optimization
- Applied AI (prediction, optimization, analysis)
- OT/IT integration

R&D Demo Validation

Key Technology Development

- Microelectronics (chips, sensors)
- Smart PCB
- Advanced processes
- Materials and consumables
- Industrial software and digital platforms

Industrialization

- Prototype → production scaling
- Line definition
- CAPEX support
- Performance optimization

Service organization (structured R&D)

Each project is managed through a multidisciplinary structure:

- R&D management: strategy, coordination, funding
- Industrial engineering: development and industrialization
- Microelectronics team: chip design and validation
- Software & AI: digitalization and optimization
- External partners (e.g., Deloitte): public funding

Ensures complete and controlled execution