10-11 NOVEMBER 2020 BRINGING TOGETHER THE CLUSTER COMMUNITY

Ecosystem session: ELECTRONICS

Clusters strengthening ecosystems



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Electronics

Clusters strengthening ecosystems

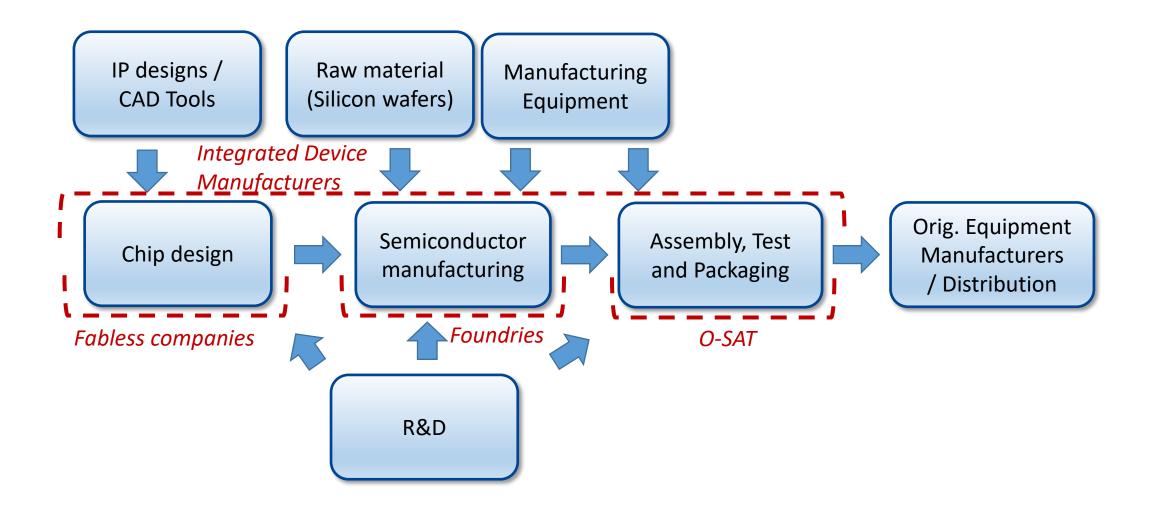
Francisco Ibanez Gallardo - Deputy Head of Unit Competitive Electronics Industry at DG CNECT, European Commission



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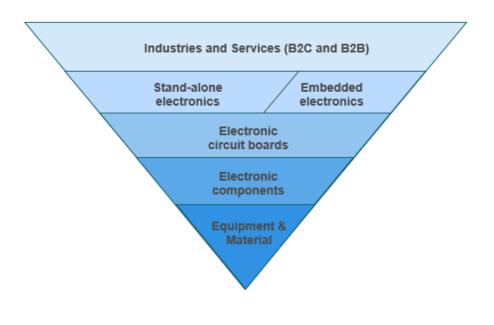
Electronics Components - Value-chain

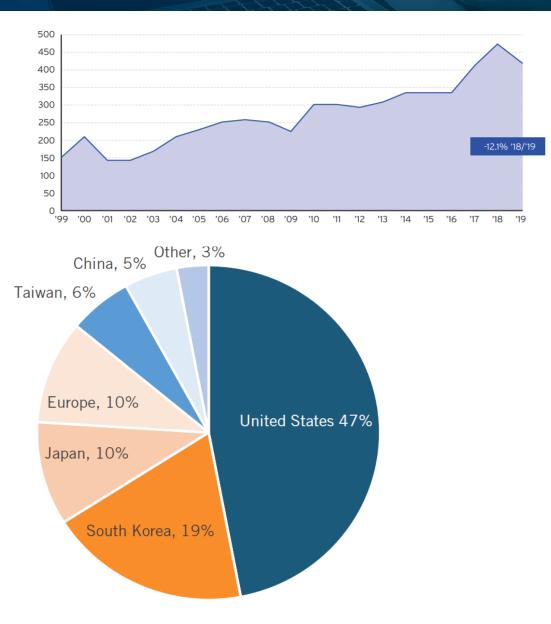


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Microelectronics

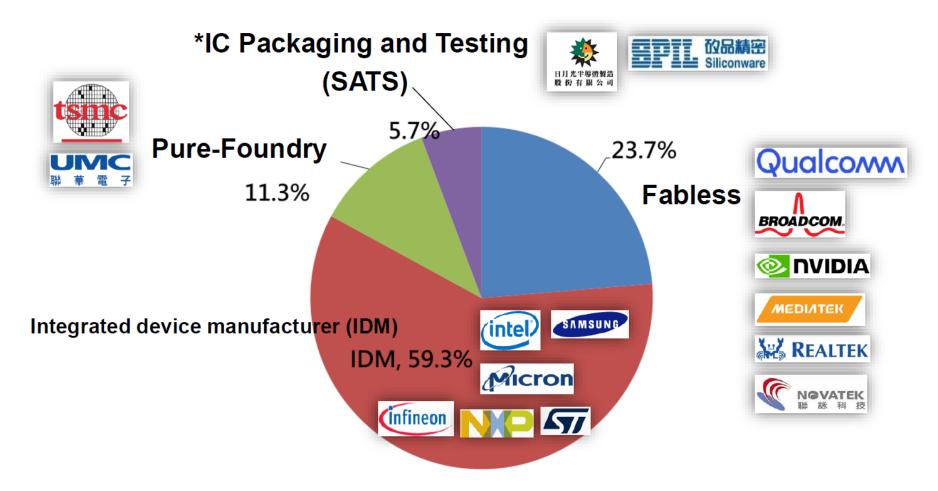
- Est. 2020 ~420B€; slowdown 2019-2020
- CAGR previous 15 years: 8%
- Enabling technology serving all industries
- EU market share ~10%





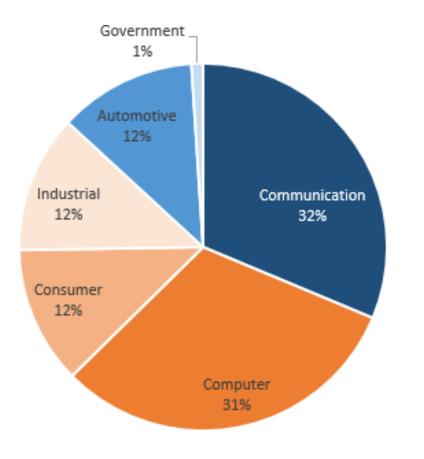
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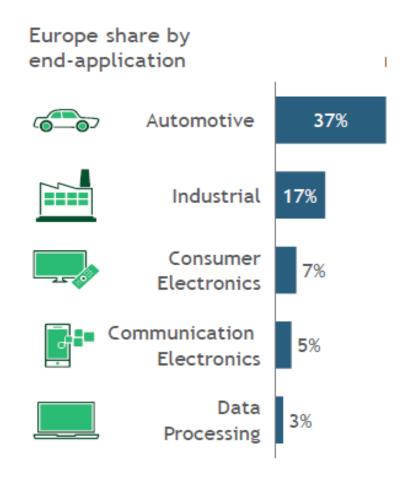
Electronics



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Electronics





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Electronics. Summary

The value of electronic systems produced in Europe directly enabled by semiconductor components is 494 B€.

The semiconductor component industry is worth 412 B€ (2019) globally; in terms of revenues, EU headquartered companies account for 10% (i.e., around 40 B€).

550k jobs directly related to the design, manufacturing and market of electronics components and systems

Europe strengths in specific areas: automotive, industrial, aerospace, health

Europe dependence in processors (general purpose, graphics), userprogrammable devices (FPGA),...

Emerging opportunities: Edge-computing, Artificial Intelligence,...

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http://www.alpha-rlh.com/fre

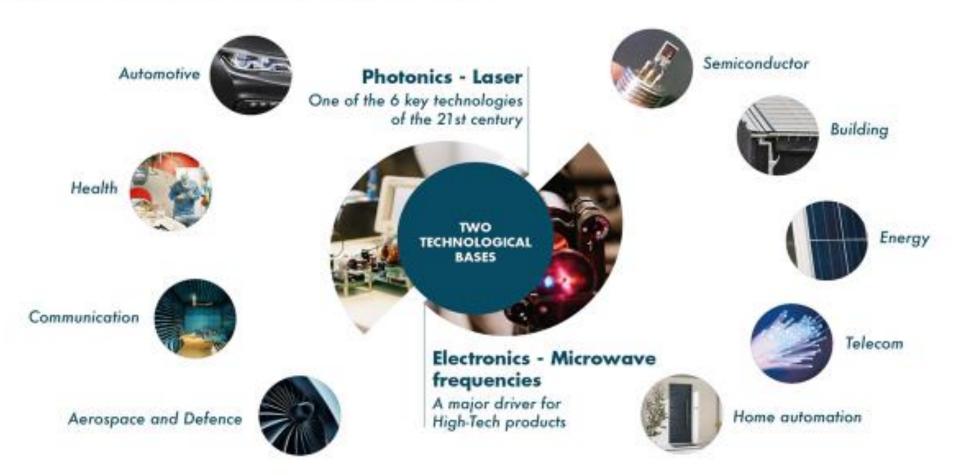


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WIRth.

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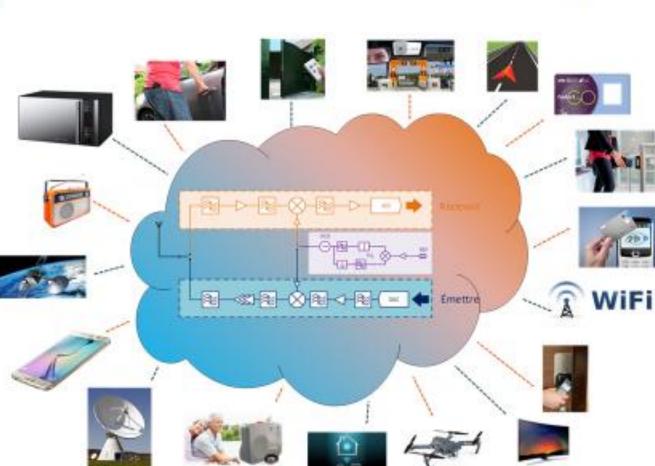
A unique position in Europe and an extended range of applications/markets



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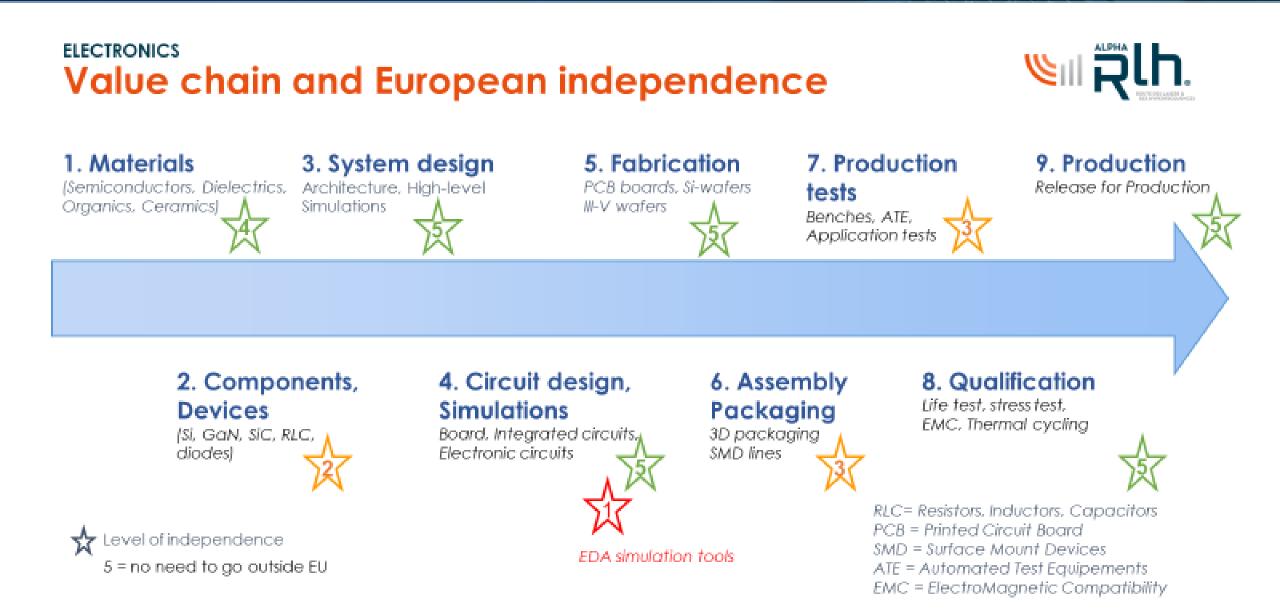
ELECTRONICS - MICROWAVE TECHNOLOGY Keep growing through a wide range of applications and markets

- An enabling technology addressing well established industries (defense, aerospace, telecom, automotive, agrofood, healthcare, building...)
- Solutions to answer many societal challenges
- A worldwide market of 1 140 B€ in 2008
- A projection of 2 500 B€ in 2020 with 40 B€ for military communications



Blh.

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ALPHA-RLH strengthening the European electronics industrial ecosystem and economy



Technological independence / sovereignty

Supporting SMEs in ECSEL and IPCEI programs (for instance NANO-2022 projects)

- ITAR-free electronic components & equipments design Contributing to guidelines towards SMEs
- Support in electronic manufacturing services (EMS)

Promoting innovative SMEs' expertise to the regional ecosystem and beyond

- Accelerating use of 4.0 technologies in SMEs (Robotics, IoT, IA, Cybersecurity)
 Organising events like 'The IoT Journeys by ALPHA-RLH'
- Accelerating the innovation transfer towards industry

Bringing together research laboratories, technology transfer centers and industry



3D-Packaging technologies