

Facilities

Integrated Micro and Nanofabrication Clean Room:

- Inaugurated in 1991 (25 years in 2016)
- 1500 m²
- **Open access** large scale facility for:
 - National or international R&D institutions or SMEs
 - R&D projects or small series production of prototypes

Capabilities:

- Integrated devices in CMOS technology
- Microsystem technologies
- Nanofabrication processes
- Wide-Band-Gap technologies for power devices
- Polymer technologies for (bio)chemical transducers



IMB

Contact

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IMB Barcelona
Microelectronics
Institute

CNM National
Microelectronics
Center



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1985-2015

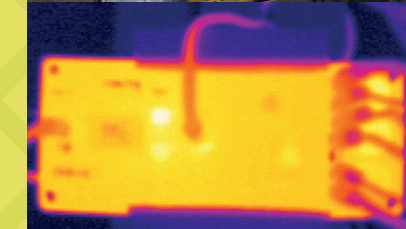
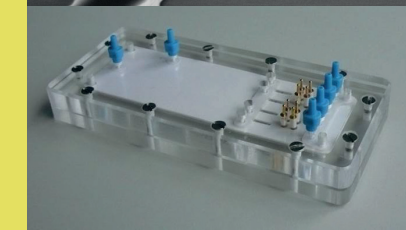
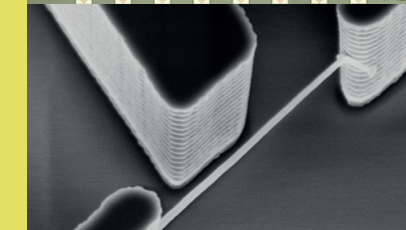
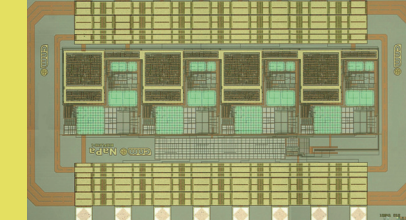
Our Mission

- Fundamental and applied research
- Technology transfer
- Training and continuous education
- Outreach

Micro and Nanotechnologies for the Societal Challenges

Applications on

- Health and well-being
- Food and Environment
- Energy and Smart Mobility
- Smart Cities and Internet of Things



Research Lines

Micro and Nanotechnologies and Devices:

- Advanced Thin Dielectric Films
- Micro and Nano Tools
- Sensors and Actuators
- Radiation Detectors
- Micro Energy Sources

Nanofabrication and Nanostructures:

- 1D and 2D Nanomaterials for Electronics
- Nanolithography and Nano Patterning

(Bio)chemical Transducers:

- Liquid and Gas Sensors
- Lab on Chip

Micro-nano-bio Systems:

- Bio-MEMS
- Organ on Chip

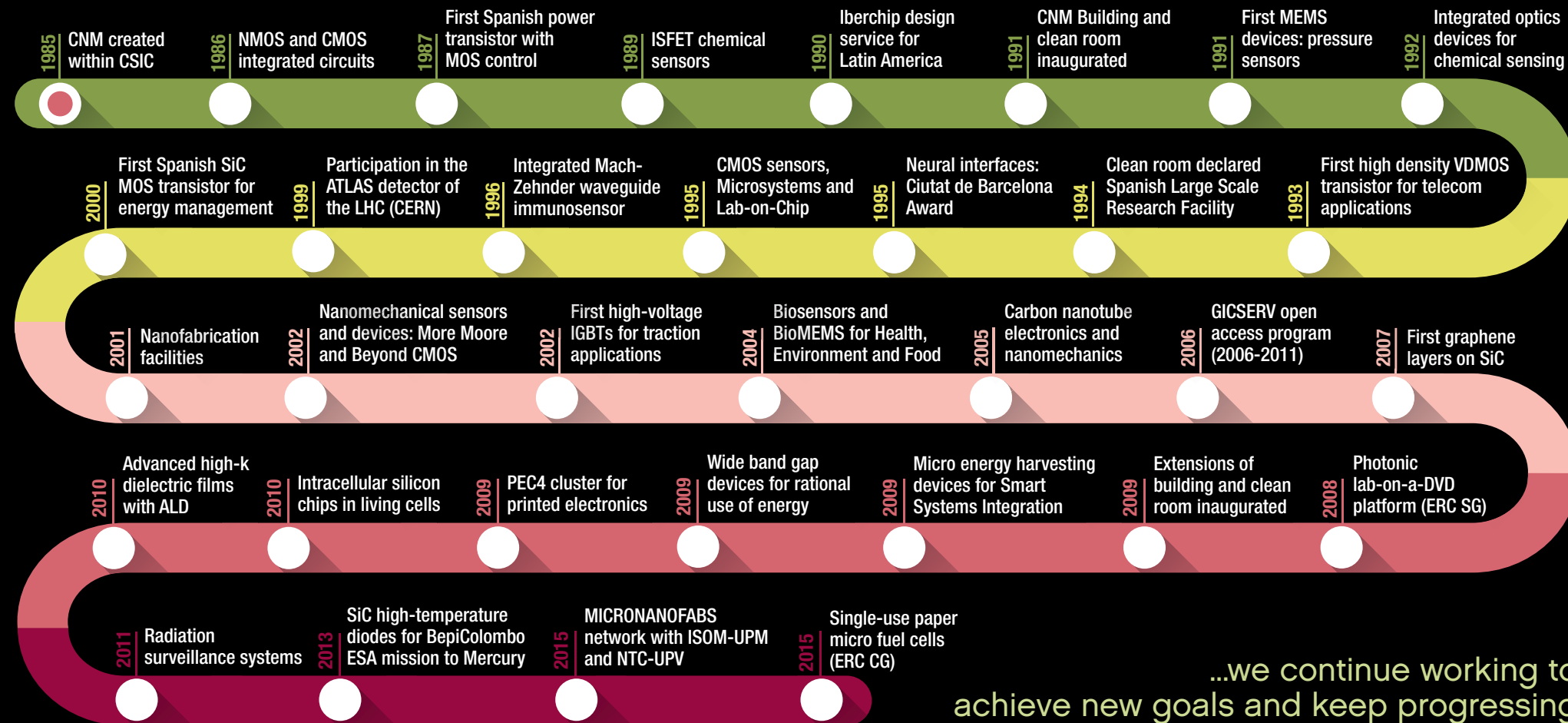
Power Devices and Systems:

- Silicon Power Devices
- Wide Band Gap Semiconductor Devices
- Power Systems Integration & Reliability

Integrated Circuits and Systems:

- Low Power & Low Voltage
- Advanced Digital & System on Chip Design
- Sensors, Circuits and Systems Integration

30 Year Highlights...



...we continue working to achieve new goals and keep progressing

Key Figures

Staff

200 persons (33% women)



Publications

100 scientific papers published in SCI journals per year

120 conference presentations per year

Technology transfer

7 patents per year

5 spin-off companies created in 10 years

Budget

10-12 million euros

50% from competitive projects and contracts (60% of them international)



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