

Research Fab Microelectronics Germany

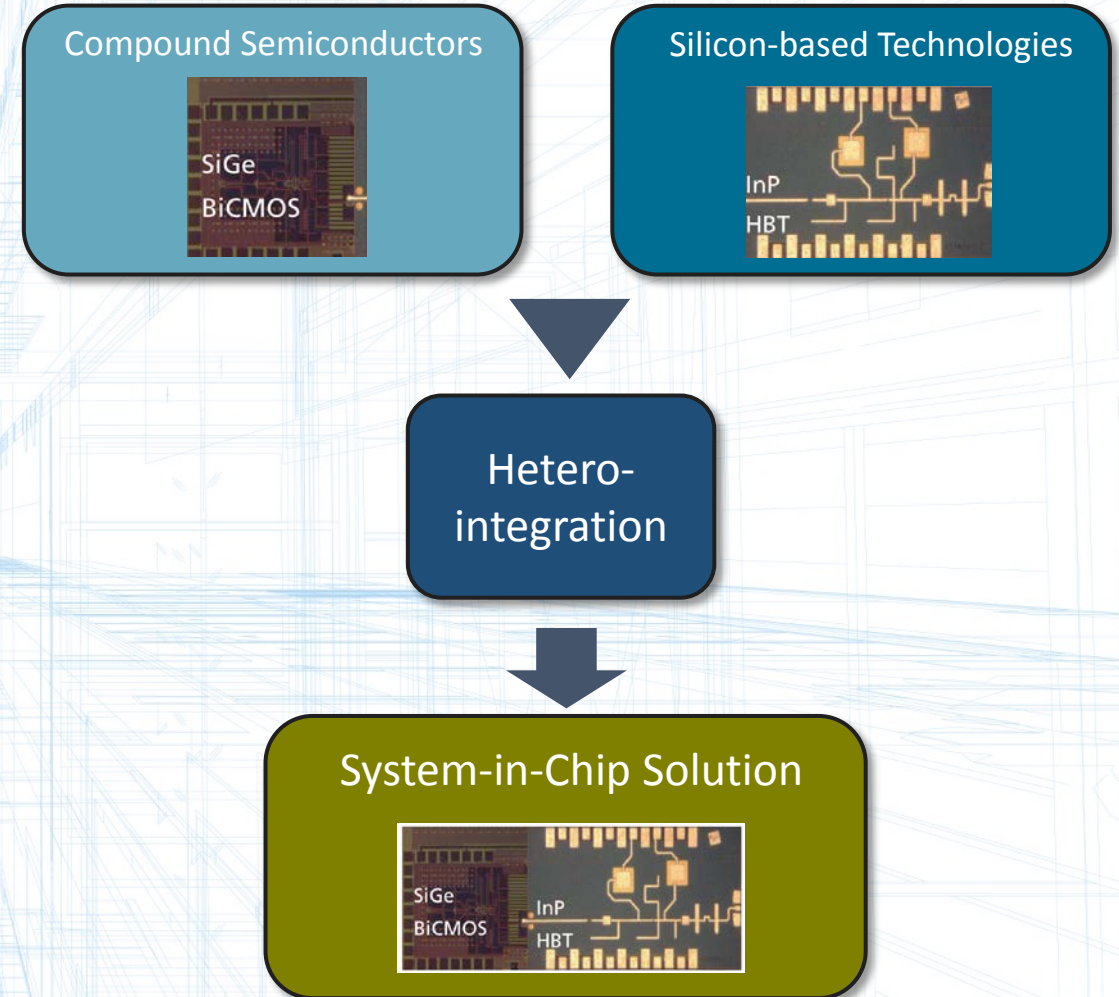
Jörg Amelung, Managing Director

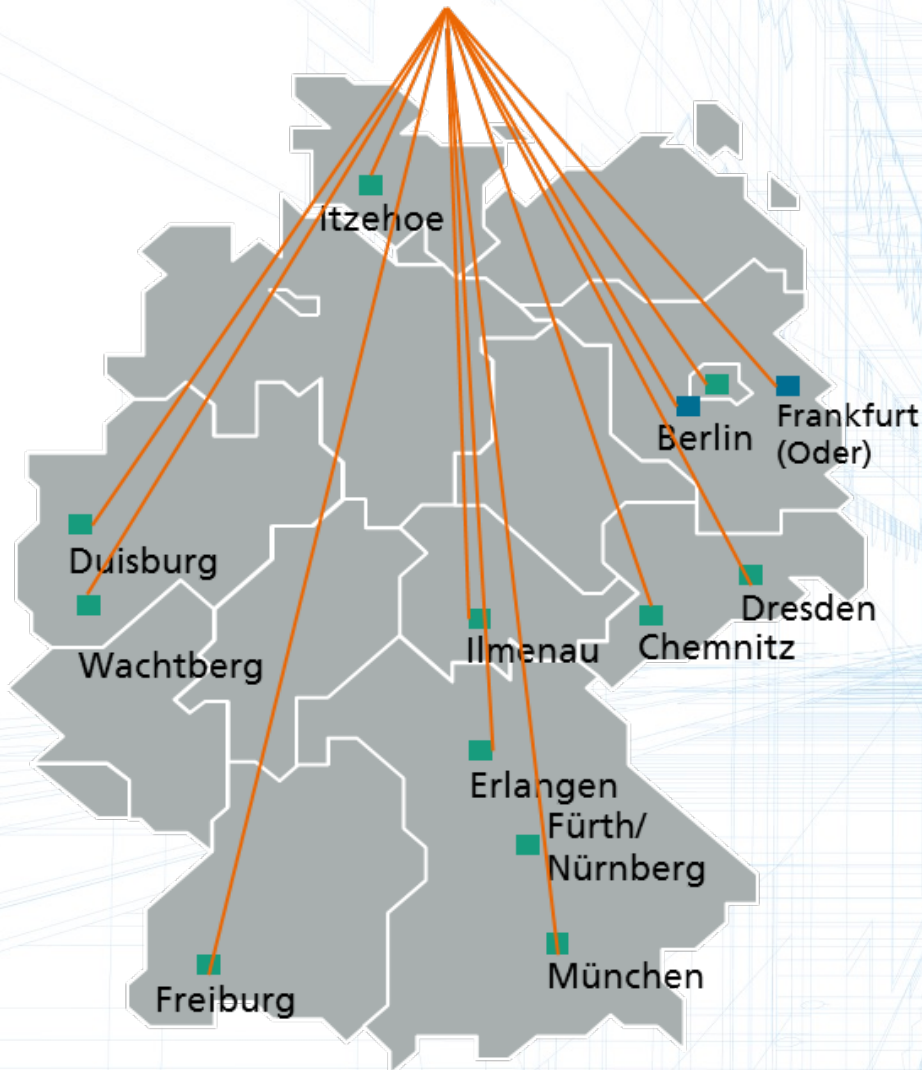
Fraunhofer Group for Microelectronics in cooperation
with Leibniz institutes FBH and IHP

Mircoelectronic development trends

THE RTO INNOVATION SUMMIT

- The development cycles in **Micro- and Nanoelectronics** are decreasing rapidly in the area of leading-edge technologies («More Moore») as well as in the field of microsystems («More than Moore»)
- For complete solutions new requirements are given
 - Crossborder expertises
 - Flexible technologies and infrastructures for customer-specific applications
 - Development from research to pilot fabrication





One-Stop-Shop for developments from wafer technologies to complete systems

- The FMD combines the expertise and infrastructure of 13 Research Institutes (11 Fraunhofer Institutes and 2 Leibniz institutes) to deliver complete developments out of one hand
- The FMD will represent a reorganization of more than 2000 scientists and the necessary equipment (11 cleanrooms) for technological research and development under a single, virtual roof
- To prepare the FMD for future developments additional infrastructure investment of 350 Mio. € is planned
- A central office in Berlin organizes the cooperation
 - Central contact for technology development requests
 - Setup of research and development projects between different institutes
 - Organization of combined prototype and pilot fabrication

Network of competencies and organisation needed

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Quick access, specialized, flexible

Broader knowledge, long term strategy