"Leading Edge Foundry Technology for next generation Smart Systems"

Dr.-Ing. Gerd Teepe GLOBALFOUNDRIES



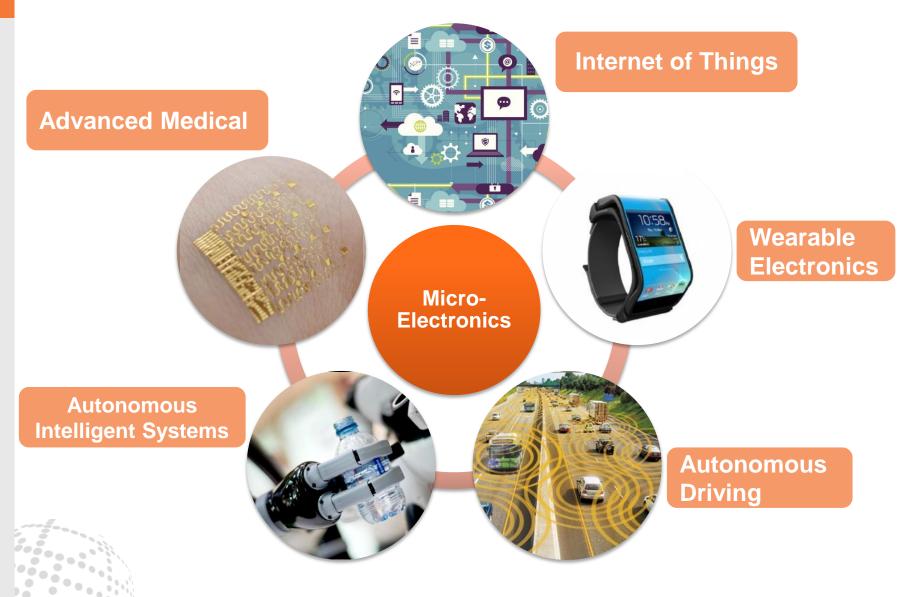
Semiconductors make products competitive

Sector market size, 2013, USD



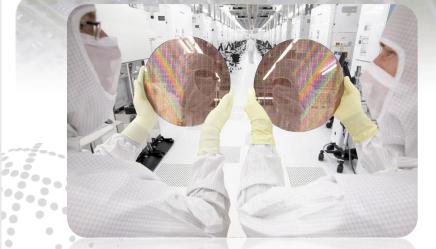
(* Estimate for 2013, WSTS)

New Applications will require even more Silicon



SCALE is driving investments into the Foundry-Model

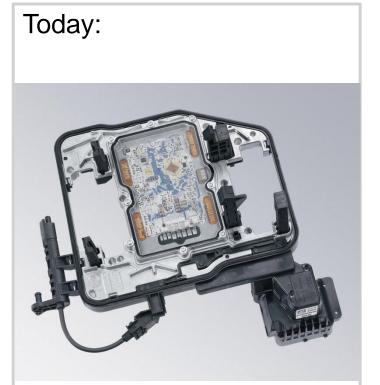




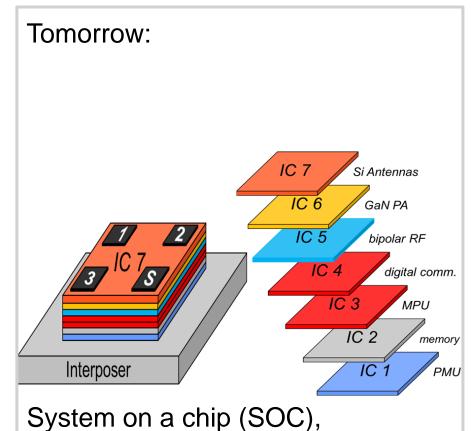
GLOBALFOUNDRIES – some Data

- > 50.000m² clean-room space
- Capacity goal 80,000 Wafer/Month
 1 Million Wafers per Year
- about 3.700 employees (about 1/3 with higher degree)
- Investments since 1996: > 10 B\$

System Expertize and Integration will be Key



System built by components, board, connectors, Software



Chip-on-chip-Assembly, low-power, few Software, high Hardware

New Supply Chains will transform the entire Industrial Ecosystem

Industrial Partitions will change dramatically

Power-footprint will drive many development decisions Hardware will gain importance System-design cannot rely on software – hardware design is a must (Power) Production Networks will become stonger

Access to semiconductors will determine product capability

System houses to enter design-space

Manufacturing Networks will form to secure the supply-chain

Industrial Products to be determined by Microelectronics

TESLA-car (smartphone on weels), Google car (connected to compute-cluster) New System Architectures (cf. Airbus-Electronics, safety&redundancy) Microelectronics: Much more than more than Moore

More Moore is now driven by the Low-Power Agenda

Smart System Integration will harness the integration-task

Europe is attractive for manufacturing of semiconductors

Further growth of the semiconductor industry expected

Semiconductors – critical to the future of the German industry

Thank you





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