

Infineon

IFX Day 2004

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Manufacturing Update

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Chief Operating Officer



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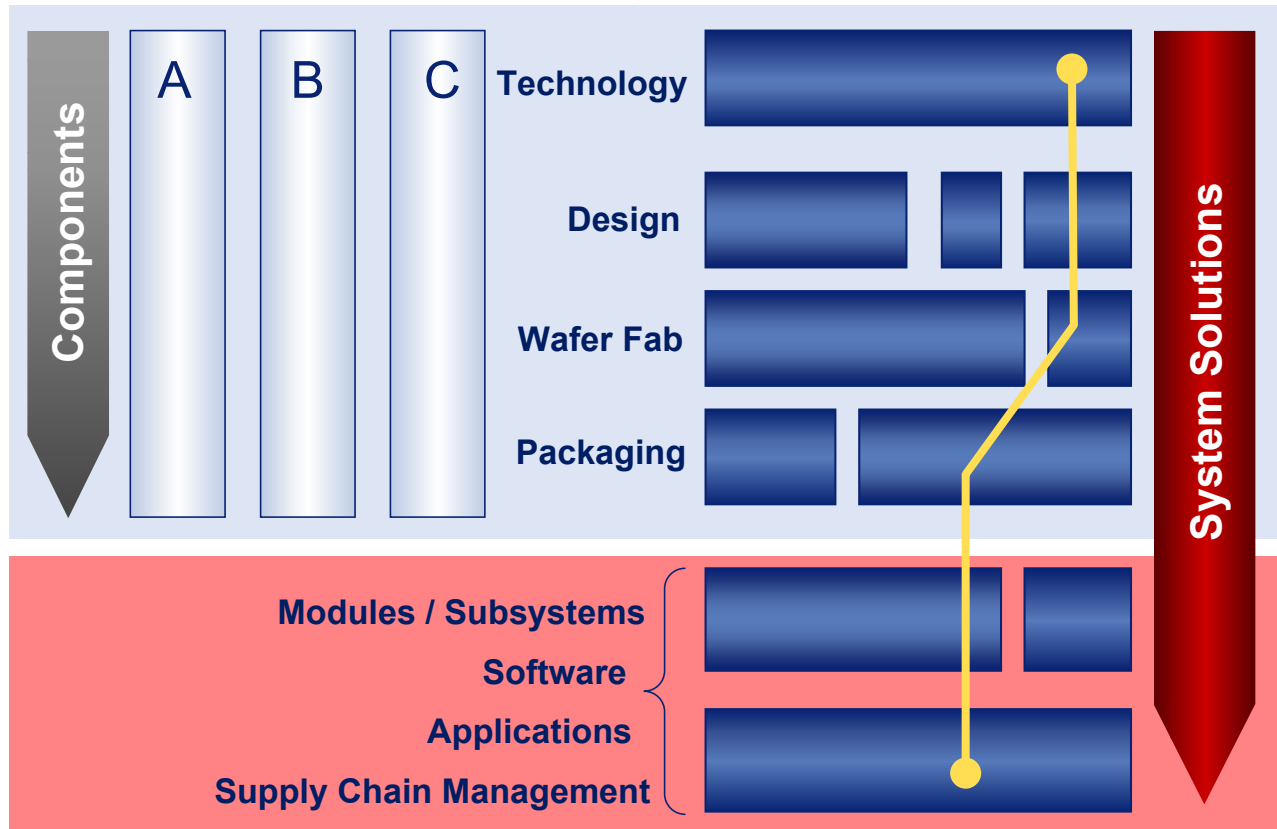
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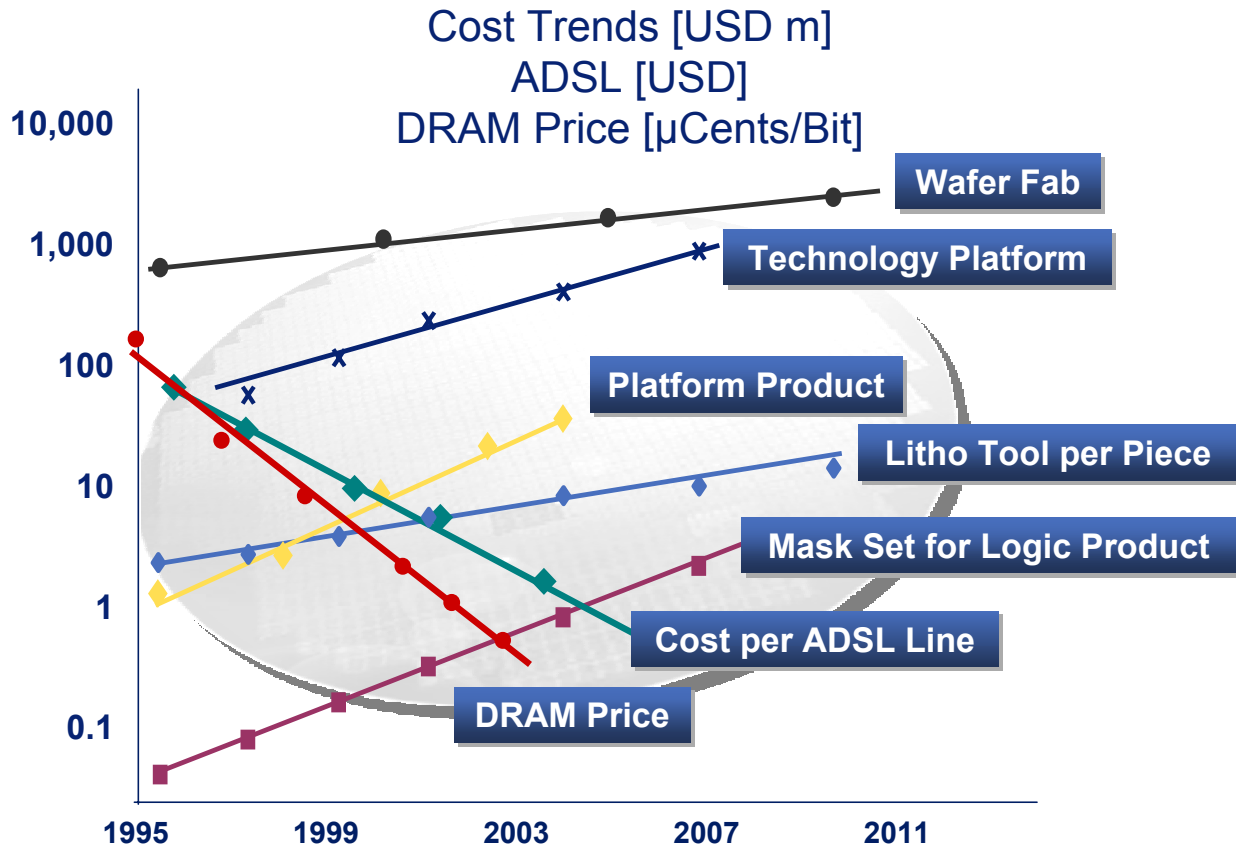


From an Integrated Device Manufacturer (IDM) to a Semiconductor Solutions Provider (SSP)

Integrated Device Manufacturer  Semiconductor Solutions Provider



Increasing cost require collaboration to keep development and investments affordable



Source: IC Insights, McClean Report 2002,
Semiconductor Business News 01/07/03

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Business benefits of partnerships and outsourcing

Partnerships

- Access to additional IP, resources, and production capacity
- Cost sharing
- Reduced risks
- Extended portfolio
- Lower capital intensive strategy

Outsourcing

- Flexibility
- Extended portfolio
- No assets



Infineon's network of manufacturing partnerships

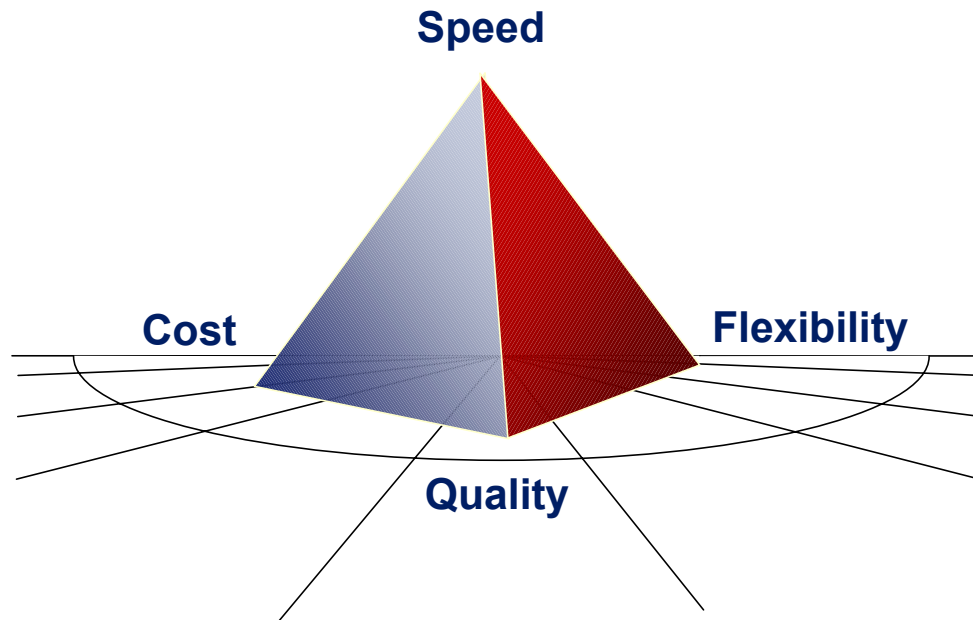
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	Memory Products	Advanced Logic Products	Power & Discrete Products
Technology R&D	 	 	
Mask developm. and fabrication		 DuPont Photomasks, Inc. <i>Perfectly Focused.</i>	
Front-end production	 	 	
Back-end production	 	 	
Modules and solutions	 	 Your Technology Partner	
Supply chain management		 Stinnes Logistics	

Selected examples

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Speed, cost, quality, and flexibility are key success factors for manufacturing excellence



The four key success factors are linked together and can not be optimized independently



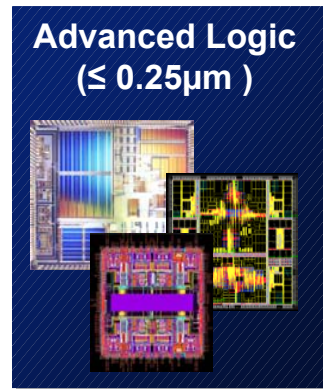
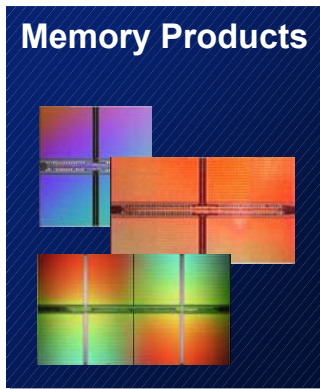
Infineon manufacturing clusters: Memory Products - Advanced Logic - Power Logic



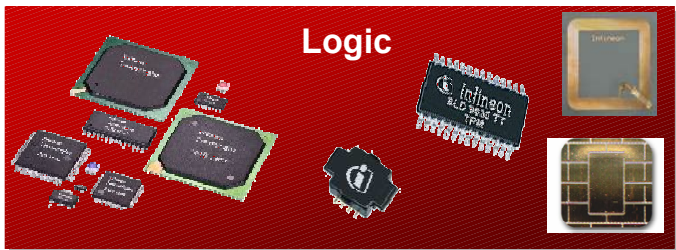
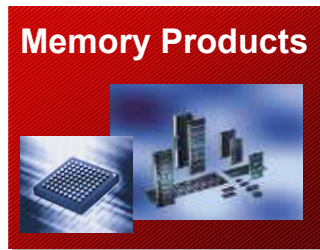
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Infineon Manufacturing Clusters

Front-end



Back-end



One virtual fab to our customers



Memory Products manufacturing cluster



Memory Cluster

Front-end



Identical technology roadmaps

Global process synchronization and quality control

Best-practice sharing and fast ramps

Back-end



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Memory's 300mm production roadmap



Dresden, Germany



Inotera, JV Taiwan



Richmond, Virginia



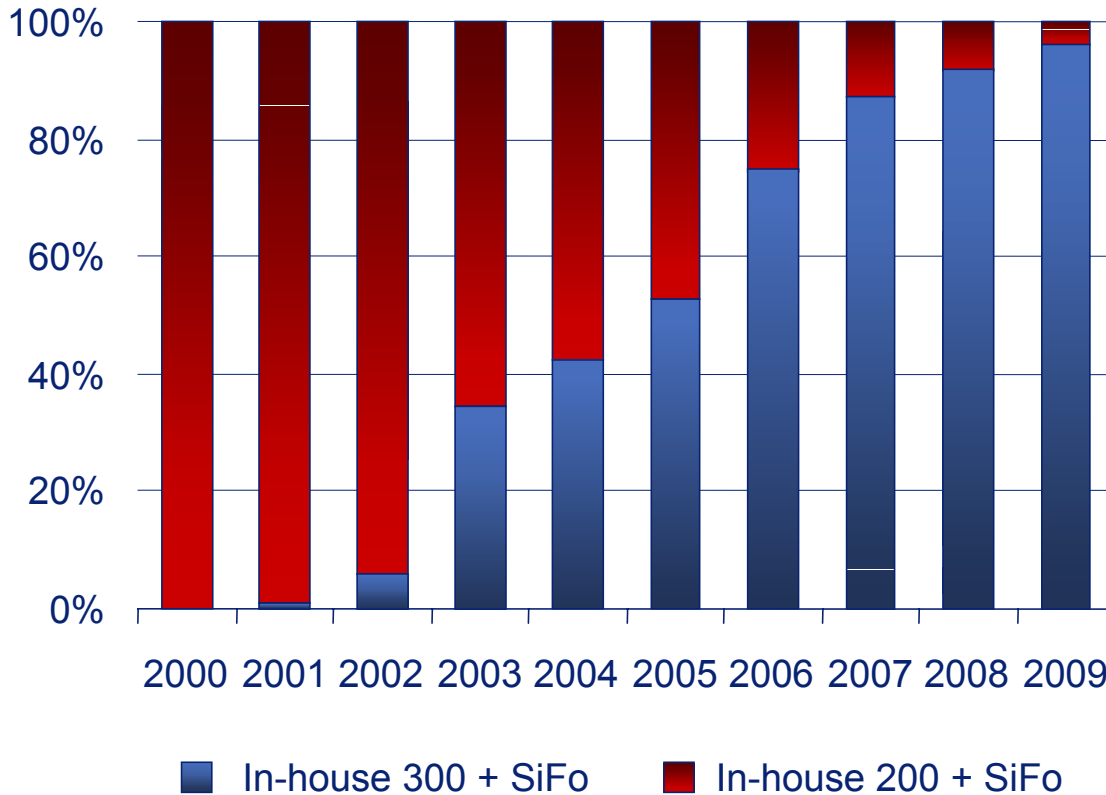
- **Dresden:** Already ramped to > 30k WSPM on 110nm
- **Inotera:** Currently ramping 110nm (act. > 24k WSPM)
- **Richmond:** Currently equipping fab shell (ramp 2nd HY05)
- **Foundries:** SMIC 300 ramping, WIN 300 construction

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Memory manufacturing: Evolution of 300mm volumes



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Advanced Logic Cluster



Dresden 200mm



Altis JV / Essonnes



UMC



UMCi 300mm



IBM EFK 300

250nm Al

Synergy from cooperation in R&D and manufacturing

180nm Cu

Common technology platforms

130nm Cu

Reduced investment and mutual sharing of capacity

90nm Cu

Mutual compensation for fluctuating logic demand

65nm Cu

Best-practice sharing and fast ramps

Power logic front-end cluster



Power logic cluster



One organisation for R&D and in-house manufacturing

Common technology platforms

Reduced investment and sharing of capacity

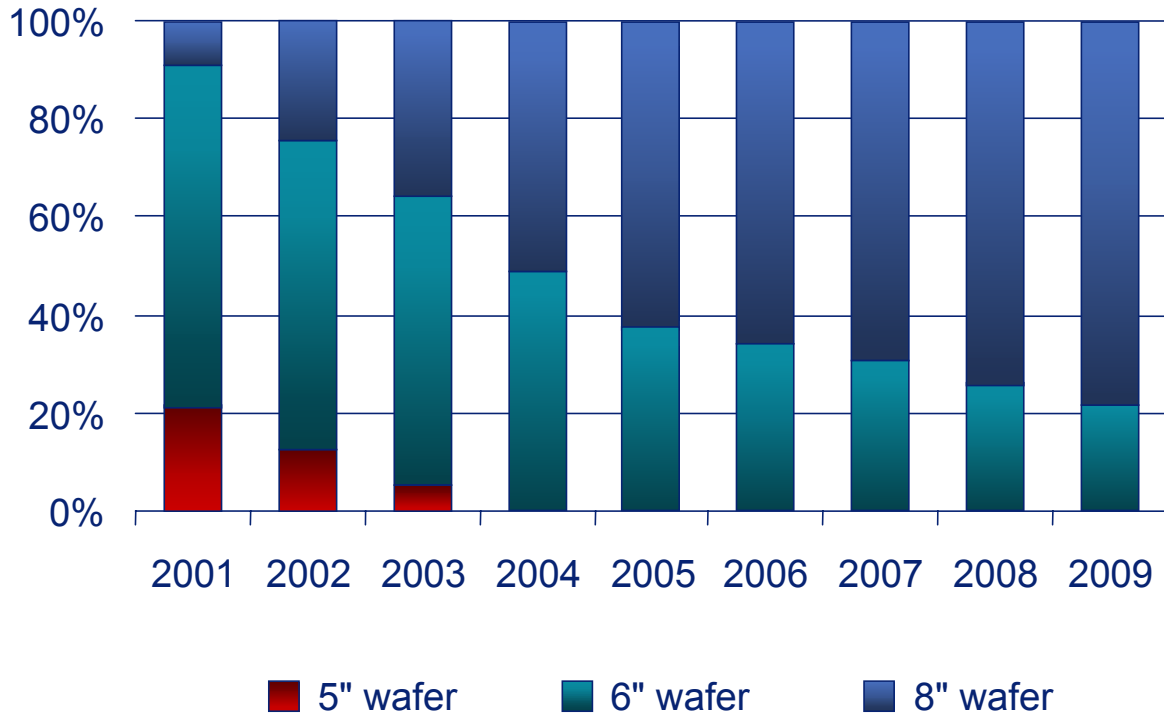
Cost efficient manufacturing

Best practice sharing and fast ramp-ups

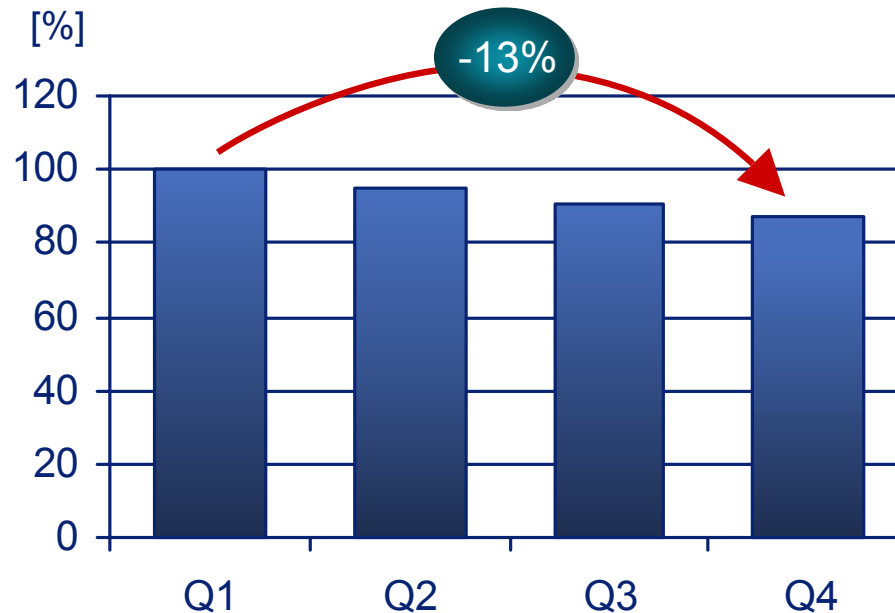
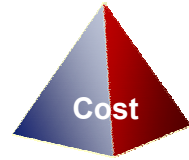
Power Logic: Evolution of wafer diameters



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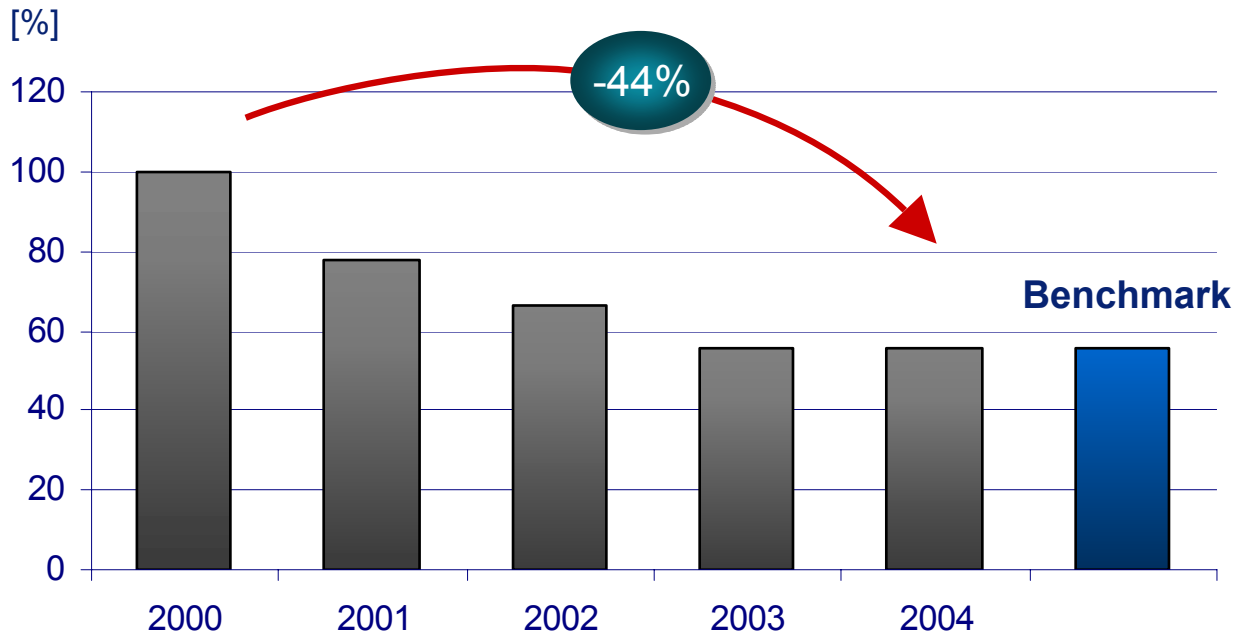
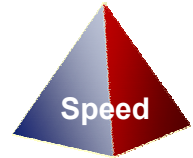
Evolution of 8" cost per mask layer in logic front-end production in FY03/04



Cost reduction due to

- Increased logic share in Dresden 200mm
- Productivity improvements in power logic fabs and Altis

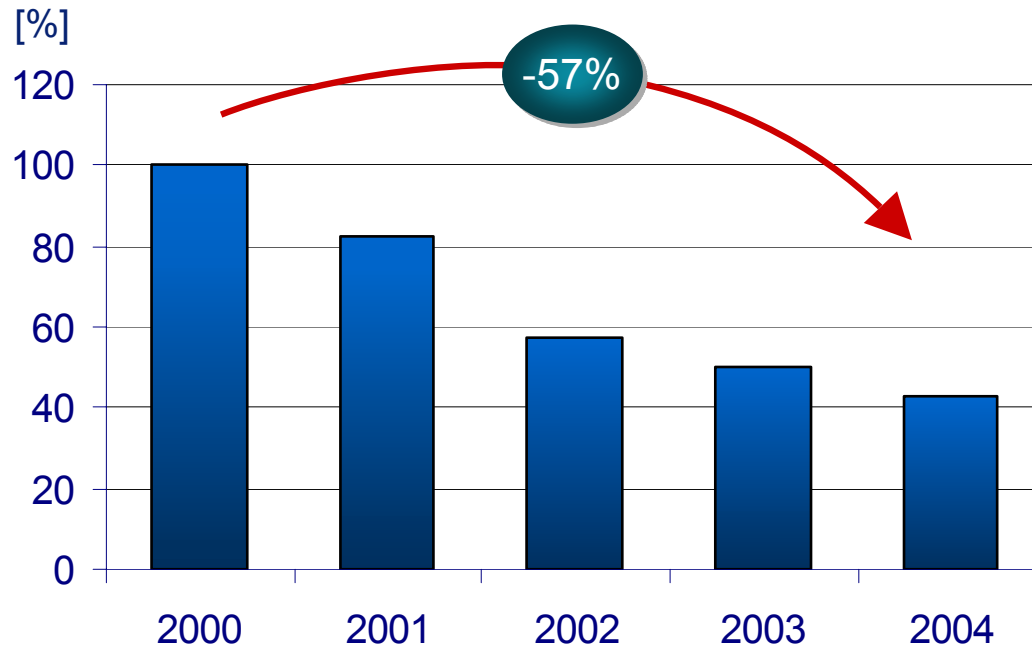
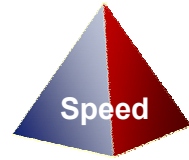
Speed: Evolution of cycle-times in logic front-end production



Reduction of cycle times by ~2x compared to 2000

- Faster yield learning
- Increased delivery flexibility: "Serve the Market"

Speed: Evolution of range in back-end production



Reduction of BE range by > 2x compared to 2000:

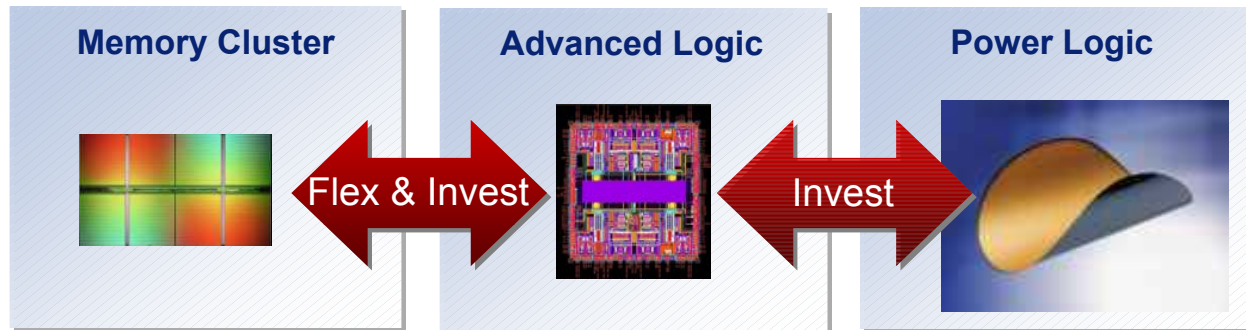
- Reduced stock levels
- Faster cycle time and increased delivery performance

Integrated manufacturing to maximized flexibility and minimized cost



Maximize: Opportunities during market upturns
Minimize: Impact of downturns and investments

- Internal flexibility: Between MP and Advanced Logic Cluster
- External flexibility: Silicon foundries and subcontractors
- Cost optimization: Reuse of depreciated equipment for power technologies

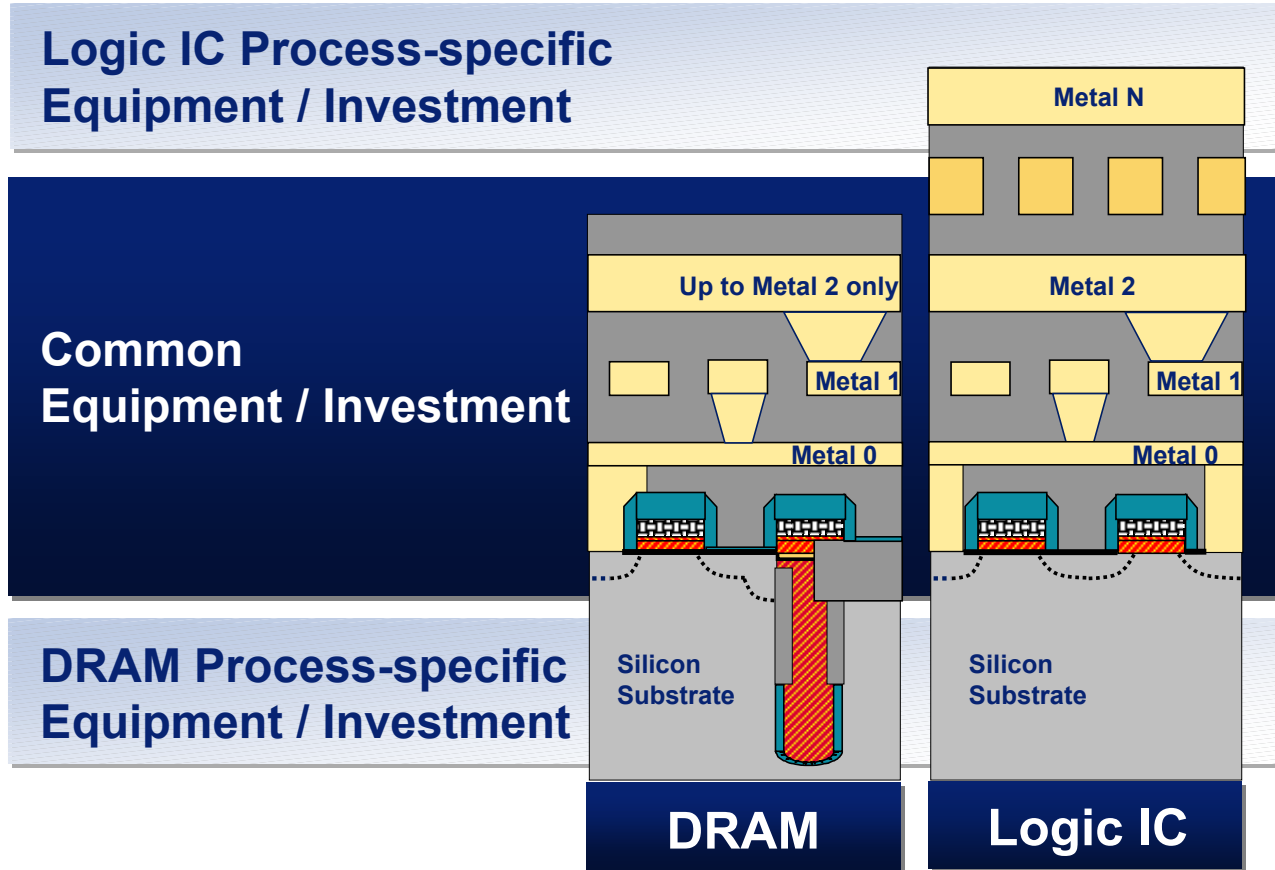


Flexibility: Silicon foundries and subcontractors

Flexibility: Extended equipment sharing between Memory and Logic Manufacturing



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Flexibility between memory and logic as an operational and strategic concept



Operational advantages

- Memory as a forerunner in lithography and advanced tool learning
- Memory as ramp-up and volume vehicle with excellent debug capabilities to tune and stabilize processes (logistics, equipment, utilization, technologies)
- Memory production optimizes manufacturing processes:
Ramp-up of new manufacturing sites and teams
- Memory volume buffers fluctuations in logic IC demand, and improves capital efficiency of our fabs
- Flexible and gradual cascading of fabs from memory to logic IC fabrication (currently 200mm in Dresden)
- Cascading of depreciated equipment from memory and Advanced Logic to Power Logic Fabs reduces capex required for growth



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