IFX Day 2004

November 16, 2004 - Munich

Memory Products

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Never stop thinking.



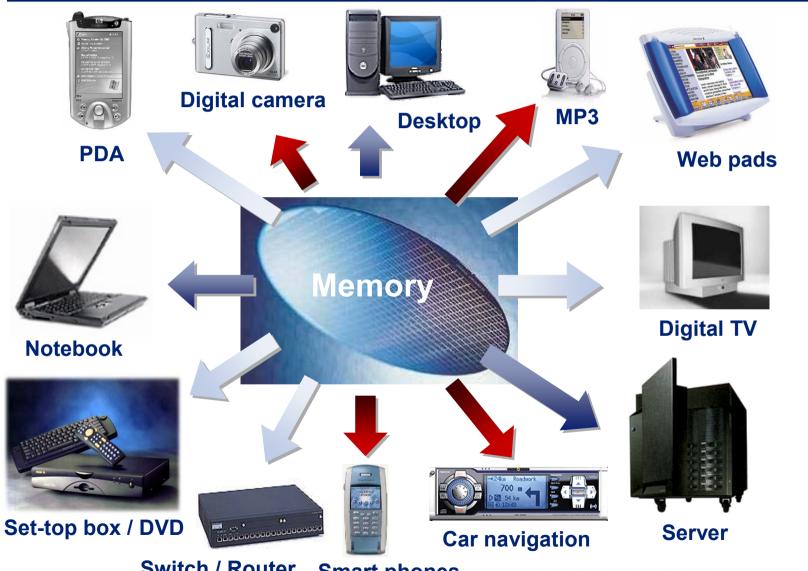
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The universe of memory applications is expanding

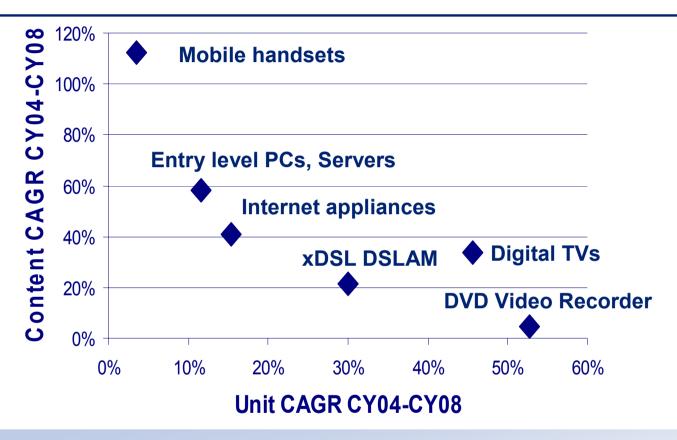


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Switch / Router Smart phones



Opening up a range of growth and value opportunities



Top DRAM supplier's challenge is the right mix of:

- ⇒ Volume products for computing segment
- ⇒ Innovative products for leading-edge applications
- ⇒ Legacy or standard products for upcoming consumer demand

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* Source: iSuppli, Q3 2004



Agenda

- Focus on higher margin segments
- Technology leadership
- Strong partnership network



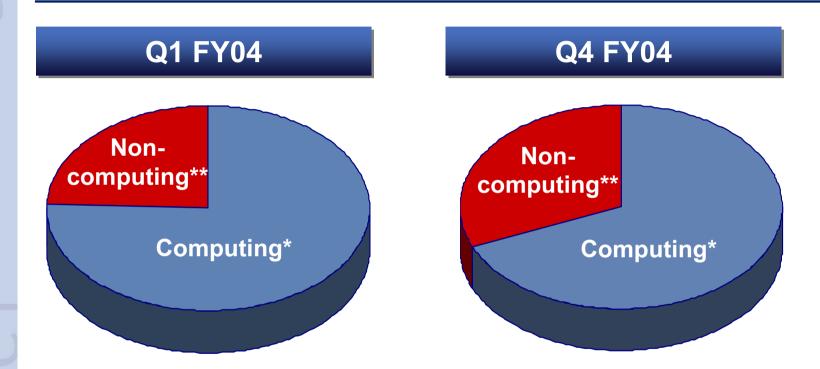
Focus on higher margin segments

Application-specific integration and innovation

- Broaden module portfolio for infrastructure and mobile PCs
- Increase bit-share of specialty DRAMs
- Consumer niches with strong growth potential
 - Check mainstream product supply for consumer segment
 - Extend SDRAM product portfolio
- Market-enabling and cross-selling opportunities
 - Close cooperation with market enablers for future DRAM generations
 - Use other segments' expertise to introduce innovative memory products such as fully-buffered DIMMs



Bit shipment share of non-computing applications increased to more than 30% in Q4 FY04



- * Desktop PCs, Notebooks and Workstations; ** Infrastructure, Consumer, Mobile Applications
 - ⇒ A leading supplier to server manufacturers
 - □ Leading with Mobile-RAMs
 - ⇒ Increasing shipments of Graphics RAM
 - ⇒ Increasing share of shipments for set-top boxes



Mobile-RAM: Low power for mobile applications

Portfolio

Features

Target applications



Densities: 128M - 512M Speed: 133 MHz, CL3 Small form factor

⇒ BGA package

Low operating current

⇒ Up to 60% less than
3.3V SDRAM "low
power sort"

Low standby current

⇒ Up to 80% less than
3.3V SDRAM "low
power sort"

Low core voltage
⇒ Down to 1.8V



- Smart Phone PDA
- Feature Phone MP3
- Digital Camera

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Graphics RAM – Performance for desktop and notebook

Graphics segment

Features

Products

High end

Mainstream

Value

High speed:

400 - 500 MHz **BGA** package

Interface width: x32

Low operating current

⇒ 1.8V (notebook)

⇒ 2.0V (desktop)

Mainstream speed:

200 - 250 MHz **TSOP** package

Interface width: x16

Operating voltage 2.5V







Upcoming fully-buffered DIMMs: Take advantage of Infineon's unique in-house skill set

Memory Products

DRAM

Server



Wireline

Buffer chip

Advanced memory buffer

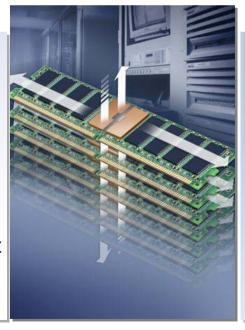


New bus topology:

The parallel multi-drop bus is replaced by serial point-to-point connections

⇒ Allows larger number of DRAM modules per bus

Standard setting and market enabling done together with **Intel at JEDEC**



Features:

- Densities: 256MB 4GB
- Point-to-point connection
- Buffer with up to 6 Gb/s transfer rate per pin

Market expectations:

- 35% share of server modules in 2006*
- 70% share in 2007*
 - * Source: Infineon

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Agenda

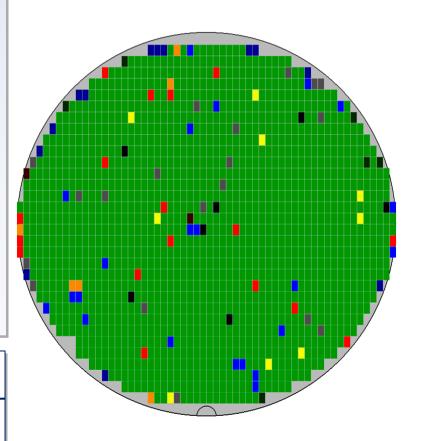
- Focus on higher margin segments
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110nm technology in volume production

- Best wafer yield > 93.9%
- Know-how in 193nm litho extended
- All process parameters well established
- More than 80% of all capacities converted to 110nm by end FY04

Node	Status
110nm	Mass production
	256M DDR 110nm



Green: Fully functional Other: Various defects



110nm: Basis for global 300mm ramp-up in 2005



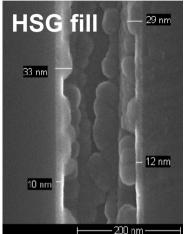


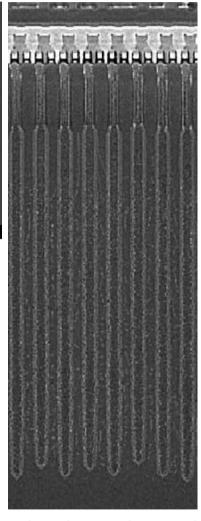
90nm technology functional

Key innovations:

- New cell layout
- Trench with HSG fill
- Bottle-shaped trench

Node	Status
110nm	Mass production
90nm	Customer samples from 200mm line
	Transfer to 300mm line started
	Ramp-up expected to start mid 2005
	512M DDR 90nm





Bottle-shaped trench

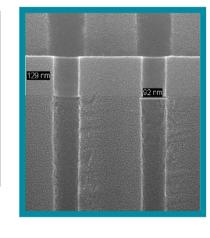
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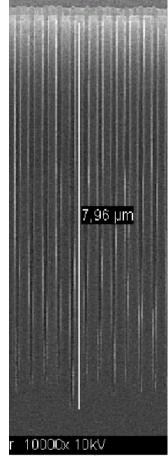


First demonstrators for 70nm produced

Key innovation:

■ High- κ fill in trench





Node	Status
110nm	Mass production
90nm	Customer samples from 200mm line
70nm	First demonstrators on 300mm line
	512M DDR2 70nm

High aspectratio etch

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Agenda

- Focus on higher margin segments
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MP's partnership strategy

Generate mutual benefits

- Share risks but also opportunities: Margin-sharing principle
- Improve economy of scale for manufacturing and development

Reduce risks

- Significant capital expenditure savings
- Restricted licenses or limited technology transfer for partners that do not participate in technology development
- Semiconductor technologies are outdated fast, and without special know-how, they are very hard to evolve

Relationship management

- A core competency of MP
- MP has a long track record of successful partnerships



MP's alliances: Share risks and benefits and optimize economies of scale

MP alliance model today

Joint development partnerships

Manufacturing partnerships

Secure mask technology development



Production of worldwide DuPont Photomasks, Inc. leading edge masks

Co-development of 90nm and 70nm DRAM technology



Joint manufacturing in Taiwan using 300mm technology

Joint venture with Saifun on flash memory business



Development and production of data flash and code flash

Joint development of specialty DRAM products



License 110nm and 90nm DRAM technology in exchange for capacity





Development of MRAM

Foundry agreements for 8" and 12" capacities

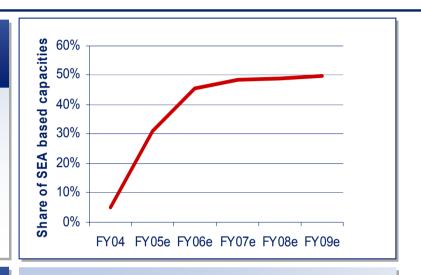




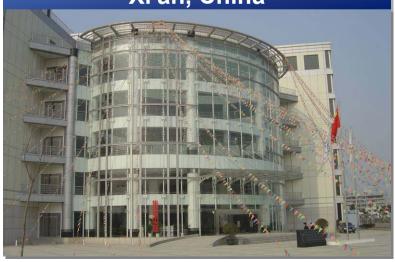
Add resources in South East Asia

Capacities in South East Asia

Based on the additional capacities from SMIC, Inotera and Winbond we plan to increase the share of capacities SEA from around 5% in the current fiscal year to up to 50% in FY07



Development center in Xi'an, China



- More than 1,000 engineers planned by 2007
- Close cooperation with local universities for improved know-how transfer
- First product development activities started for memory products



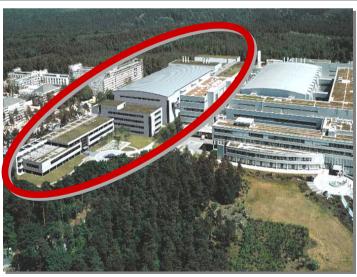
Benefit through alliances with partners



- Investment of about USD 2.2 bn
- Capacity of 24,000 WSPM reached
 2 months ahead of schedule in
 October 2004
- 300mm capacity of up to 54,000 WSPM by end of 2005
- First products: 256M DDR and 512M DDR2 in 110nm technology
- Largest DRAM manufacturing module worldwide when completed end of 2005

Memory development center in Dresden

- Approximately 400 employees including 50 from Nanya
- Technology: DRAM 90nm and 70nm
- Focusing development in 300mm line



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