

Infineon

Cheuvreux European IT and
Technology Conference
„Automotive, Industrial & Multimarket“

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Member of the Management Board



Never stop thinking

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Such risks and uncertainties include, but are not limited to the Risk Factors noted in the Company's Earnings Releases and the Company's filings with the Securities and Exchange Commission.

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Global Trends

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Technology, Manufacturing, Customer Focus

Questions & Answers

The Development of The Global Society Will Continue to Provide Solid Profitability and Growth in Our Businesses

AIM Business Drivers

- Innovation for safer and more economical mobility.
- Saving energy, managing electrical power for environmental protection.
- Protection of privacy and investment in the information society.
- Enabling customer visions through IP and technology integration.
- Participation in the growth of the Asian continent.

Fields of Business

- Automotive
- Industry
- Chipcard & Security
- Customer-specific design solutions

Mid-term Goal

- Double-digit EBIT margin and double-digit growth rate.



Global Trends

Automotive Business

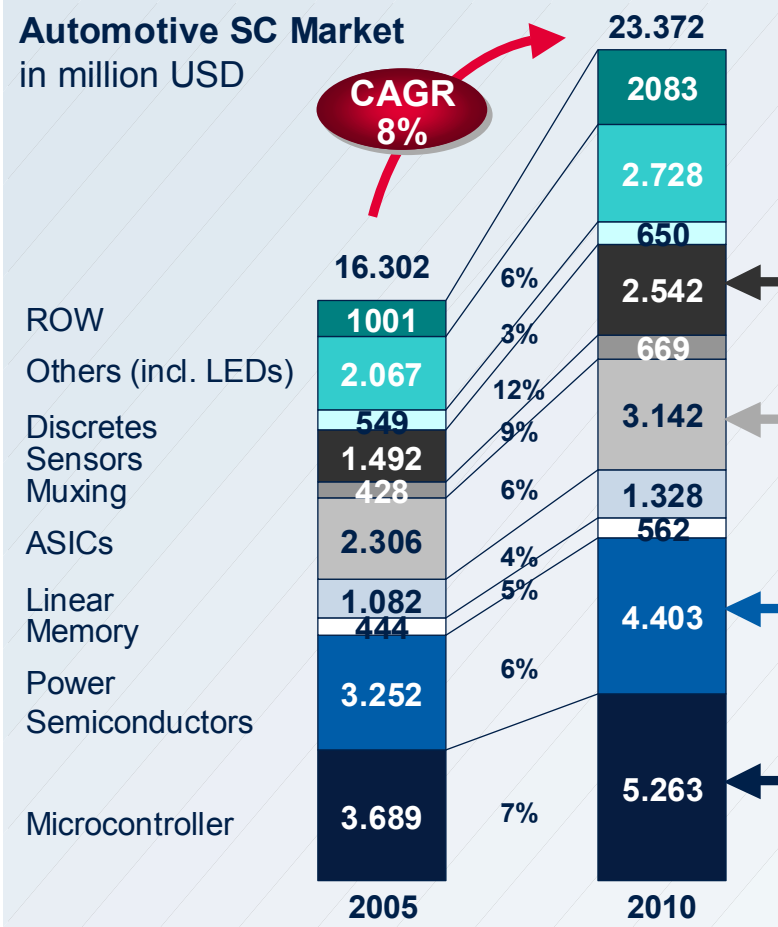
Industrial Business

Chipcard & Security ICs Business

Technology, Manufacturing, Customer Focus

Questions & Answers

Infineon Focuses on the Major Growth Markets in Automotive Semiconductors



What Infineon provides:

Sensors:

TPMS, Radar, Magnetic, Wireless Control, Pressure, Inertia and Temperature.

ASICs:

Offering of customer-specific system ICs using IFX automotive IP and technologies.

Power Semiconductors:

MOSFETs, IGBTs, Regulators Transceivers, Smart Power, System ICs.

Microcontroller:

8/16/32bit microcontroller for all automotive applications using C800, C166 and TriCore + peripherals.

Source: Strategy Analytics, incl. North America, Europe, Japan, S. Korea, China, excl. ROW

Key Innovations:

Engine and Transmission Control Based on TriCore™

Infineon's Tricore 32-bit Controller

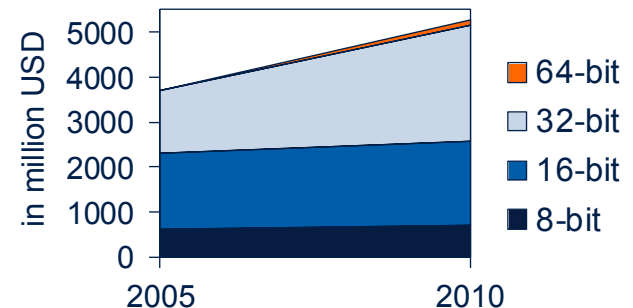


- Highest performing 32-bit embedded Control MCU family in automotive market
- First eFlash in 130nm in volume
- Embedded realtime performance + DSP in one chip
- Extremely fast interrupt response time and highest level of fault tolerance

Application trends

- Reduced emissions
 - Less fuel consumption
 - Better engine behavior and more comfort
- > 32bit performance required!

Auto MCU Market Development



Source: Strategy Analytics

Key Innovations: Electrical Power Steering (EPS)

Application Trends

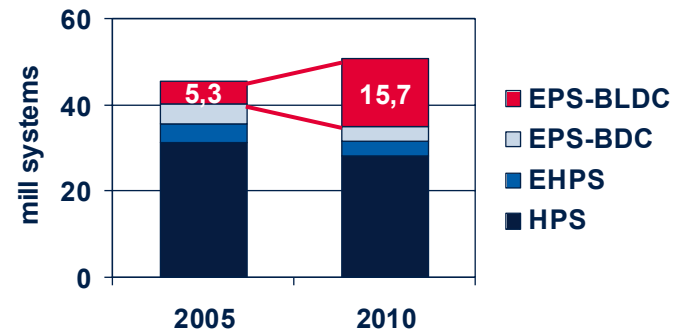
- Reduced installation costs, complete module can be tested at supplier
- Easy adaptation to different cars with software modification, platform approach
- Increased utilization of EPS in smaller and cheaper vehicles
- Progressive steering and other new features can be realized much simpler with EPS



Infineon Solution

- Leading in driver ICs and MOSFETs
- Almost complete coverage of semiconductor BoM (~ 85%); excellent application know-how
- Strong technology roadmap to drive further integration on system level
- Excellent quality & reliability for this safety-relevant application

EPS Market Development

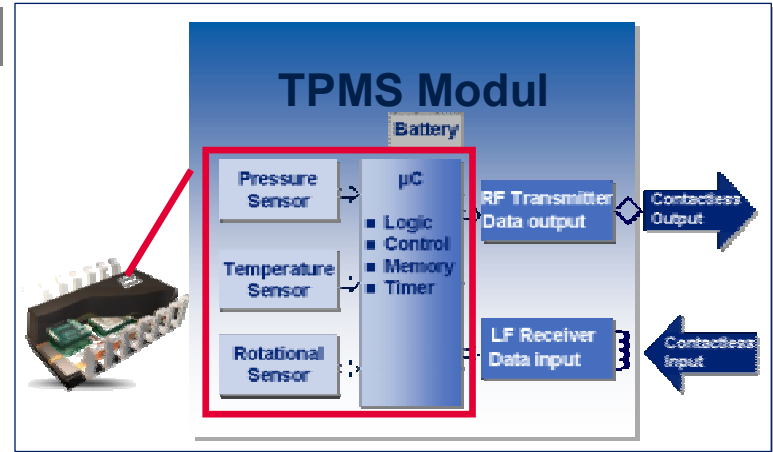


Source: Global Insight, Strategy Analytics, IFX

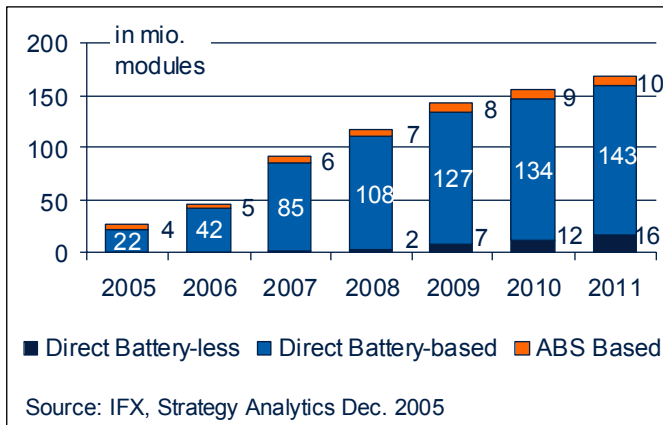
Key Innovations: Tire Pressure Monitoring Systems

Key Trends

- Further integration of functionality through advanced signal processing.
- Increased robustness.
- Standardized signal transmission concepts.
- All new light vehicles in US after Sept. 1, 2007 have to be equipped.




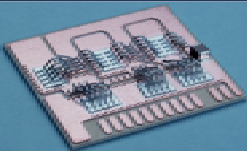
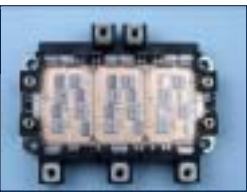


TPMS Market



Infineon Solution

- Leading-edge pressure, temperature and rotational sensors.
- High-performance microcontrollers.
- Broad range of transmitter, receiver and transceiver ICs.

Key Innovations: Hybrid Electrical Vehicles

<p>Power semiconductors</p> <ul style="list-style-type: none"> ■ Leading trench-fieldstop technology (IGBT³) ■ CoolMOS best in class MOSFET 		<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Product Offering</p>	<p>Infineon's value proposition along the value chain</p>
<p>Interconnection technology</p> <ul style="list-style-type: none"> ■ Durable wedge bonding with 30-500µm Al ■ Void-free large area soldering 			
<p>Packaging technology</p> <ul style="list-style-type: none"> ■ Green package molding ■ High power module experience ■ DCB technology 			
<p>System components</p> <ul style="list-style-type: none"> ■ Dedicated driver ICs (SOI/coreless) ■ Full product range microcontrollers ■ Sensors, transceivers, power supply) 			
<p>System know-how</p> <ul style="list-style-type: none"> ■ Experience in automotive industry ■ Dedicated hybrid business group ■ Wide application know-how 			

Automotive Semiconductor Solutions

Combining Sensing, Computing and Actuating

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		Sense	Compute	Actuate
Powertrain <ul style="list-style-type: none"> - Diesel Engine Mgmt. - Gasoline Engine Mgmt. - Transmission Control - Starter / Alternator 		<ul style="list-style-type: none"> ■ Pressure Sensors ■ Hall Sensors 	<ul style="list-style-type: none"> ■ 16 bit μC ■ 32 bit TriCore[®] (μC + DSP) 	<ul style="list-style-type: none"> ■ MOSFETs ■ IGBTs ■ Regulators ■ Transceivers ■ Smart Power ■ System ICs
Safety Management <ul style="list-style-type: none"> - ABS / Traction Control - Suspension - Airbag + Restraint Systems - Power Steering - Tire Pressure Monitoring 		<ul style="list-style-type: none"> ■ Pressure Sensors ■ Hall Sensors ■ RF ICs 	<ul style="list-style-type: none"> ■ 8 bit μCs ■ 16 bit μCs ■ 32 bit TriCore[®] (μC + DSP) 	<ul style="list-style-type: none"> ■ Diodes ■ Transistors ■ MOSFETs ■ Regulators ■ Transceivers ■ Smart Power ■ System ICs
Body & Convenience <ul style="list-style-type: none"> - Light Control - Heating, Ventilation, Air Condition - Door & Seat - Smart Battery Terminal 		<ul style="list-style-type: none"> ■ Hall Sensors ■ Temp. Sensors ■ RF ICs 	<ul style="list-style-type: none"> ■ 8 bit μCs ■ 16 bit μCs 	<ul style="list-style-type: none"> ■ Diodes ■ Transistors ■ MOSFETs ■ Regulators ■ Transceivers ■ Smart Power
Infotainment <ul style="list-style-type: none"> - Telematics - Navigation - Multimedia - Car Audio - Dashboard 		Microcontrollers, Wide Range (GSM/GPRS) and Short Range (Bluetooth, WLAN) communication solutions, GPS, High Frequency ICs, CAN/MOST Transceivers, Plastic Optical Fibres, Multimedia Cards, Power ICs, Security ICs		

- Global Trends

- Automotive Business

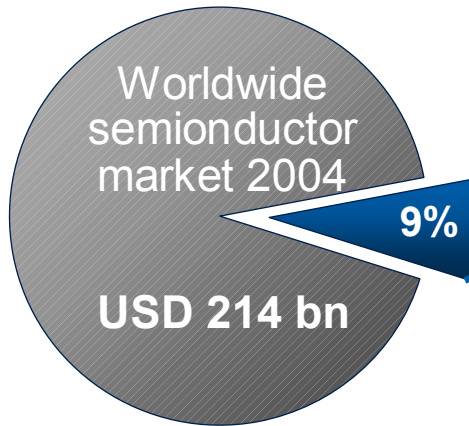
- Industrial Business**

- Chipcard & Security ICs Business

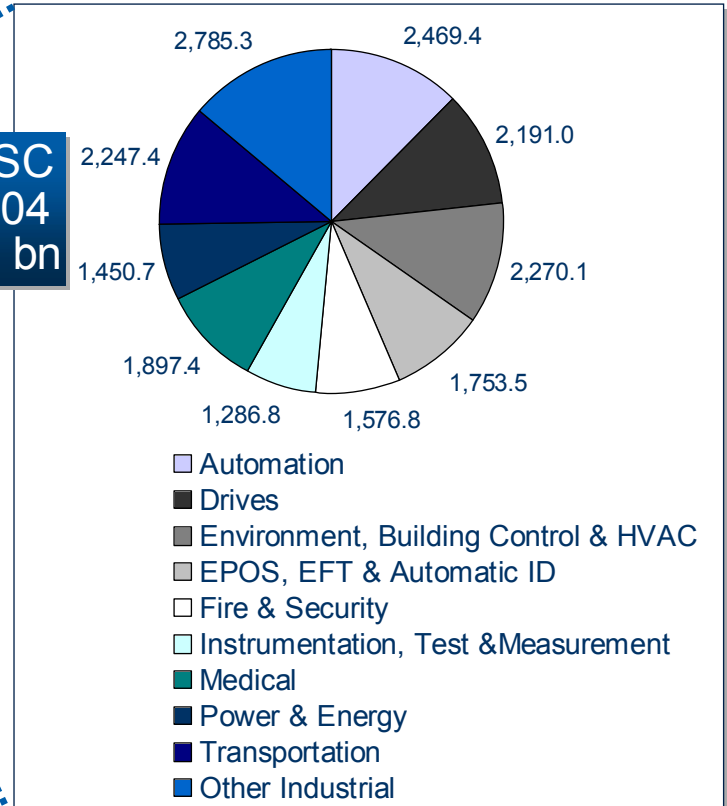
- Technology, Manufacturing, Customer Focus

- Questions & Answers

The Industrial Market is Very Fragmented, Regarding Market Players, Applications and Requirements



Industrial SC market 2004
~ USD 20 bn



Infineon: #4 Semiconductor Supplier worldwide to Industry Segment 2004 (4,7% market share)

Source:
IMS Research, July 2005

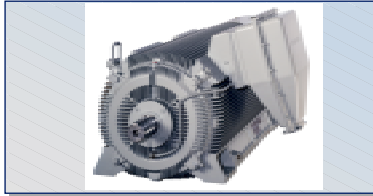
Our Current Microcontroller Portfolio is Well Suited to Address Our Target Markets

Target applications

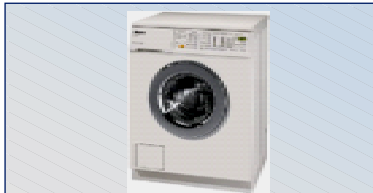
Automotive



Industrial



Home Appliances



Key success factors for target applications

- ✓ **Leading real-time performance**
- ✓ **Outstanding peripherals**
- ✓ **Complete portfolio**
- ✓ **Superior quality**
- ✓ **Ease of use and expert support**

Product families

8-bit

C5xx, C8xx, XC8xx



16-bit

C16x, XC16x



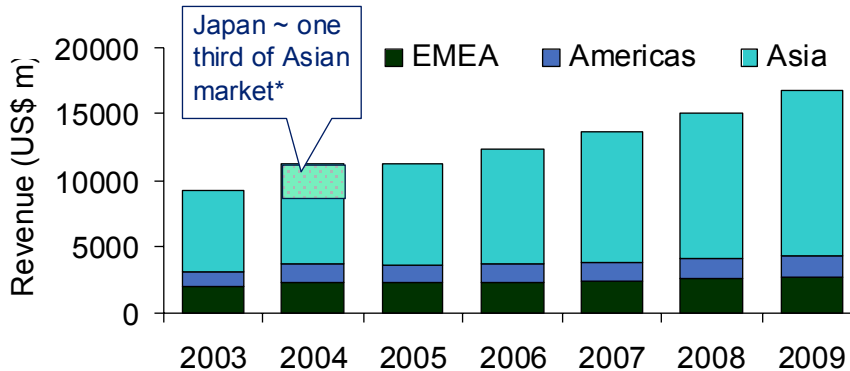
32-bit

TC11xx, TC17xx



Global Power Semiconductor Market: Market Development by Region

Overall CAGR: 8.3 %



Rank 2004	Rank 2003	Supplier	2004	2003	Change
1	1	Infineon	8.4%	8.1%	0.3%
2	2	IR	7.8%	8.0%	-0.2%
3	4	Fairchild	7.7%	7.6%	0.1%
4	3	STM	7.2%	6.7%	0.5%
5	5	Toshiba	6.7%	7.4%	-0.7%

Americas	2004	2003
1. IR	14.9%	15.4%
2. Infineon	11.4%	10.9%
3. ON Semi	9.1%	8.7%
4. STM	7.9%	6.6%
5. Vishay	6.7%	5.5%

EMEA	2004	2003
1. Infineon	21.6 %	20.2%
2. STM	11.5 %	11.1%
3. IR	10,1 %	10,7%
4. Semikron	7.7 %	7.2%
5. Vishay	5.8%	5.2%

ASIA	2004	2003
1. Toshiba	9.3%	9.4%
2. Fairchild	8.9%	8.7%
...
9. Sanyo	4.3%	4.2%
10. NEC	4.1%	4.3%
11. Infineon	3.8%	3.7%

thereof > 8% share in APAC, < 1% in Japan**

Key Innovations: Flat Panel Displays and Computing Products using CoolMOS™

CoolMOS – the ultimate high-voltage power MOSFET

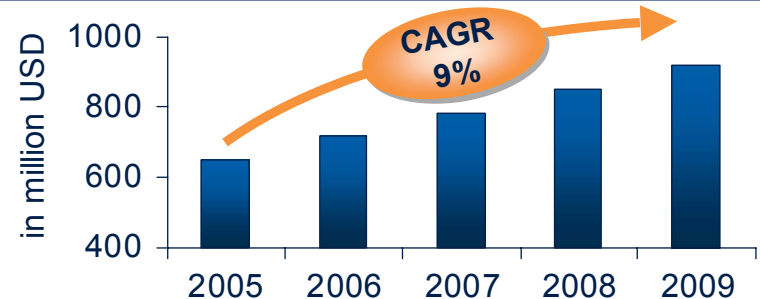


- New technological standard in high-voltage MOSFETs.
- Enables a significant reduction of conducting and switching losses.
- Extremely reduced heat generation.
- Largest range of packaging options.
- Reduced overall system cost with CoolMOS.

Application trends

- Increased output power
 - Reduced size and weight of the power supply
- ⇒ highest conversion efficiency is achieved by combining CoolMOS with thinQ!™ Silicon Carbide Schottky diode!

Market development HV MOSFETs (>500V)



Source: IMS August 2005

Key innovations:

Power Supplies for Graphics Cards with OptiMOS 2

OptiMOS 2 in Graphics Card Applications

High end: 2005

Photo: NVIDIA GeForce 7800 GTX F



10 pieces OptiMOS[®] 2

High end: 2002



4 pieces

Photo: NVIDIA GeForce TI/4800

- Increasing graphics processor performance requires higher power density.
- This requires a high efficient power supply using state-of-the-art MOSFET technologies and packages.
- Power consumption increased from 2002 to 2005 by 30% in high-end segment.
- Infineon OptiMOS 2 offering:
 - performance leadership which offers very high efficiency in application
 - state-of-the-art SuperSO8 package
 - excellent cost / performance ratio
- Infineon's key customers include NVIDIA and ATI.

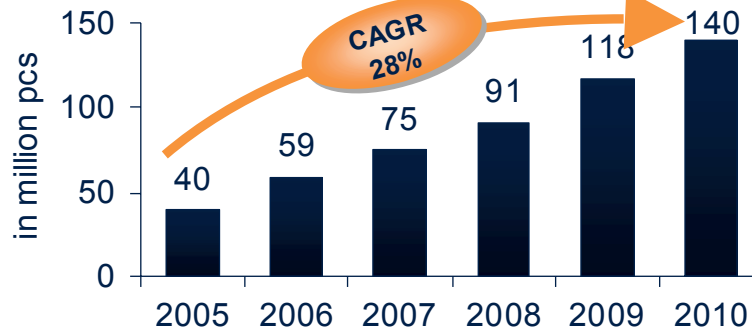
Key Innovations: Induction Heating with IGBT

Induction heating with IGBTs

- Reverse Conducting IGBT
 - IGBT's based on Infineon TrenchStop™ technology with integrated backside diode lead to highest efficiency in induction conduction applications.
- 600-900-1200V families cover all used line voltages in the world.



IGBTs in induction heating market



Source: IMS, Infineon

EMC Technologies







拓邦



Label on the Sunpentown cookers

Controlling Power With Power Semiconductors, Power Modules and Microcontrollers

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Never

		Power Discretes	Power Modules	Power ICs	Micro-controllers
Distributed Power Generation		<ul style="list-style-type: none"> Thyristor & Diodes PressPACK 	<ul style="list-style-type: none"> EasyPIM EasyPACK EconoPACK IHM modules BIP modules Stacks 	<ul style="list-style-type: none"> EiceDrive 	<ul style="list-style-type: none"> 8-bit μCs 16-bit μCs 32-bit TriCore (μC + DSP)
Automation / Motor Control - Industrial Drives - Consumer Drives		<ul style="list-style-type: none"> EmCon Trench Stop IGBTs Fast IGBTs 	<ul style="list-style-type: none"> EasyPIM EasyPACK EconoPACK IHM modules BIP modules Stacks 	<ul style="list-style-type: none"> PWM & PFC ICs EiceDrive 	<ul style="list-style-type: none"> 8-bit μCs 16-bit μCs 32-bit TriCore (μC + DSP)
Traction		<ul style="list-style-type: none"> Thyristor & Diodes PressPACK 	<ul style="list-style-type: none"> IHM / IHV modules Stacks PrimePACK 62mm IGBT modules 	<ul style="list-style-type: none"> EiceDrive 	<ul style="list-style-type: none"> 8-bit μCs 16-bit μCs 32-bit TriCore (μC + DSP)
Power Supplies - UPS - AC / DC - DC / DC		<ul style="list-style-type: none"> CoolMOS thinQ! (SiC Schottky Diode) Highspeed IGBTs OptiMOS 	<ul style="list-style-type: none"> EasyPIM EasyPACK IsoPACK EconoPACK Thyristor- / Diode- modules 	<ul style="list-style-type: none"> PWM & PFC ICs CoolSET Integrated switches Gate drivers EiceDrive 	<ul style="list-style-type: none"> 8-bit μCs 16-bit μCs

Global Trends

Automotive Business

Industrial Business

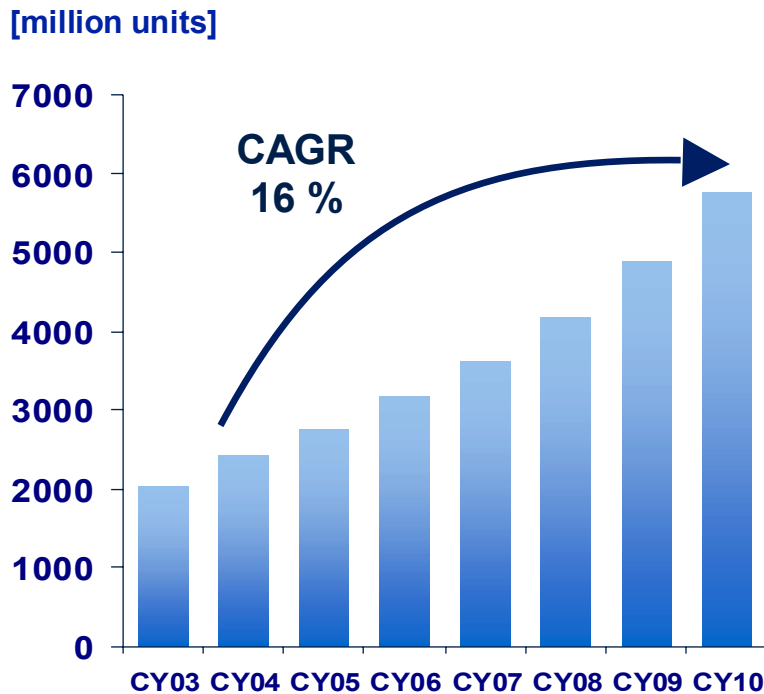
Chipcard & Security ICs Business

Technology, Manufacturing, Customer Focus

Questions & Answers

Total Smart Card Market: Strong Drivers

Smart card market Unit development



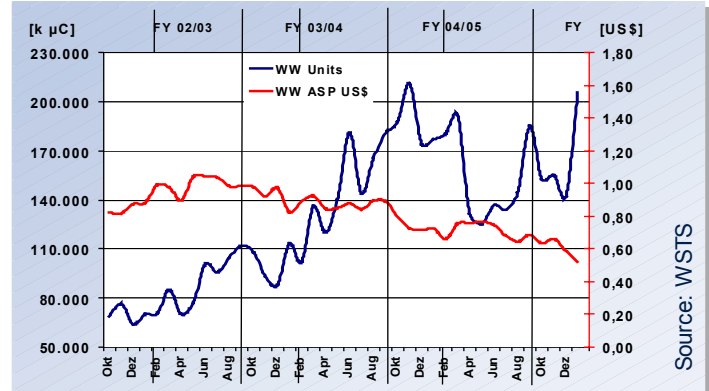
Key market drivers

- Contactless technology is breaking through in more applications and drives potential demand
- SIM cards continue to grow faster than expected
- ePass offer a tremendous growth potential for the smart card industry
- Enhanced value of c'less smart cards, e.g. flexibility, speed, personalization benefits, and convenience promotes its usage

Realization of significant manufacturing cost reduction required for profitability in chip card ICs

Market Situation

- Volumes stable due to seasonal effects; further growth expected in Q2 and Q3.
- Continuing price pressure in the main controller-based product segments: 25 – 40% price decline y-o-y for the main SIM card applications



Chipcard Strength

- Leading in security certification
- 88 state-of-the-art security architecture
- Leading edge NVM technology, 1st in 130nm Flash
- Microslim & FCOS for cost advantage in chips & modules
- Security architecture and low-power design
- Contactless chip and system expertise

MicroSlim technology & FCOS

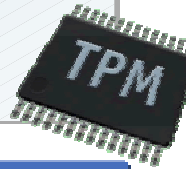
- Continuous execution of the previously announced cost reduction measures of MicroSlim, FCOS and the 130nm product introduction.
- Introduction of new optimized MicroSlim derivatives (scheduled for 2nd half FY 2006).

Key Innovations: Trusted Platform Module (TPM)

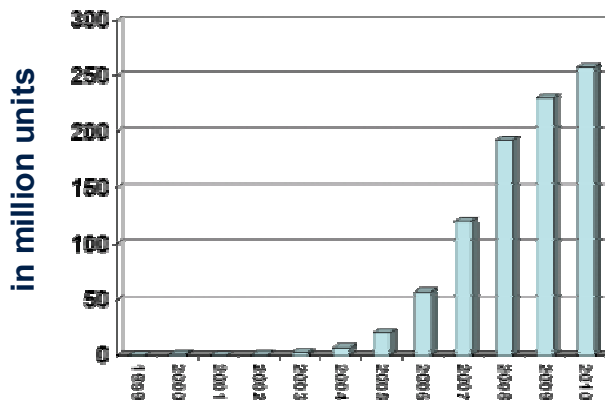


Windows Vista supports full-volume encryption to prevent disk access by other operating systems. It also stores encryption keys in a **Trusted Platform Model (TPM) v1.2** chip.
(Source: <http://www.microsoft.com/windows/vista/basics/security.mspx>)

→ Support for other OS (eg. Linux) in preparation!



Trusted Platform Module Market



Source: IDC

TPM Features

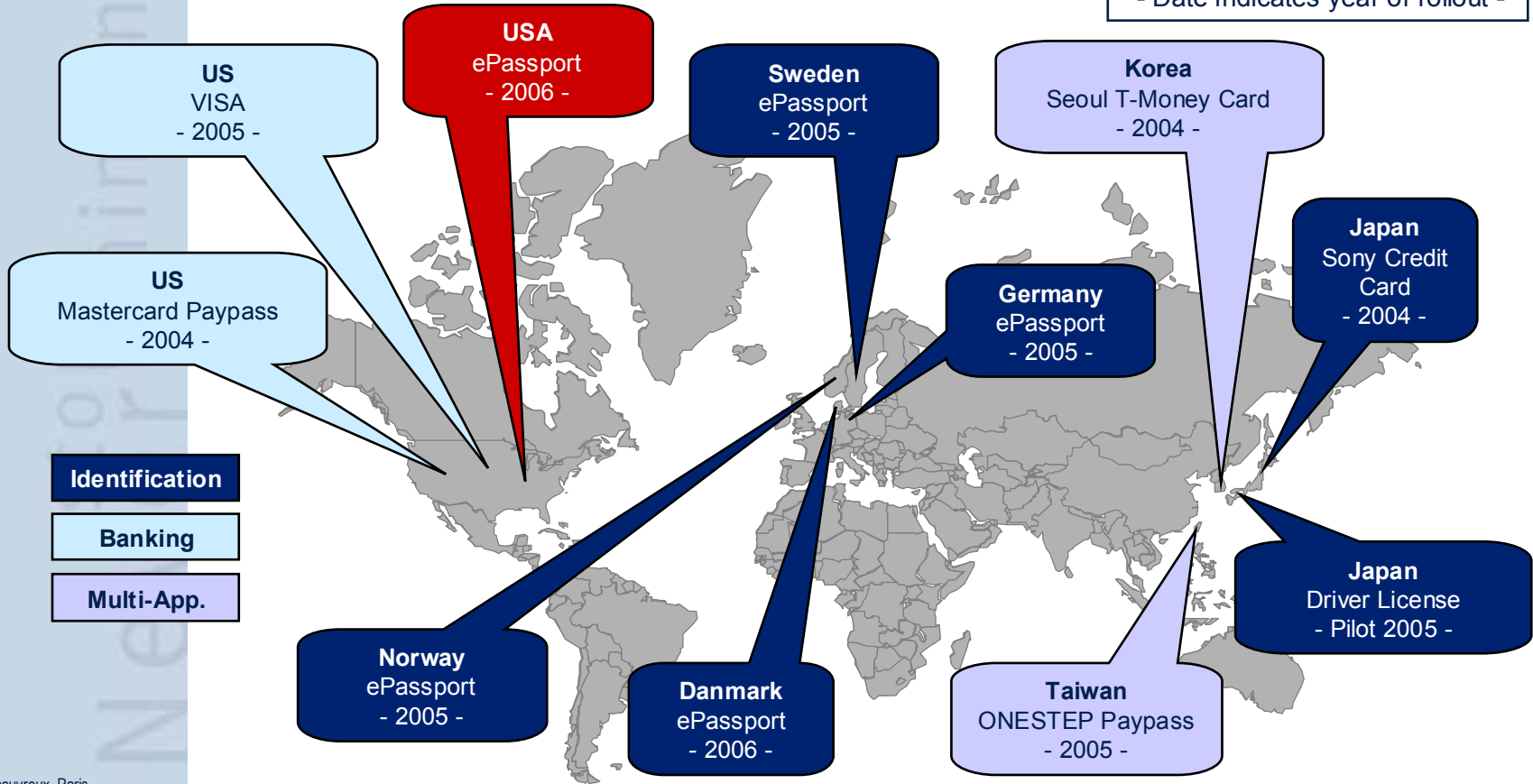
- **Check the system integrity**
What is the status of the hardware and software environment?
- **Authenticate and provide information on the security status of the platform**
Inform user and communication partners (if allowed by user).
- **Secure storage**
Safe environment for customer secret and private data.
- **Ensure the privacy of the user**
Full control of privacy by the user.



Infineon Was Named First Supplier for the U.S. ePassport and is Currently the Only Company With Necessary Security Approval by NIST*

Contactless Reference Projects

- Date indicates year of rollout -



- Identification
- Banking
- Multi-App.

*Note: NIST = National Institute of Standards and Technology, U.S.

Chip Card and Security Applications: Infineon is Well-positioned to Serve Key Growth Markets

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Contact-based
chip cards

Contactless
chip cards, RFID

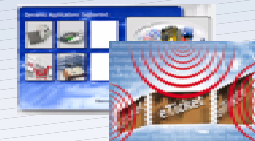
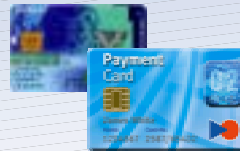
Security ICs



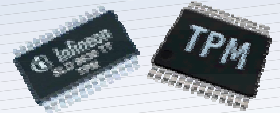
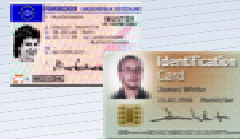
Communications
Prepaid
Mobile



Payment
Credit/Debit, e-purse
Transport, Ticketing



Identification
ePassport, national ID
Social, Access
RFID, e-Government



Entertainment
Pay-TV, Gaming
Video/Audio



Global Trends

Automotive Business

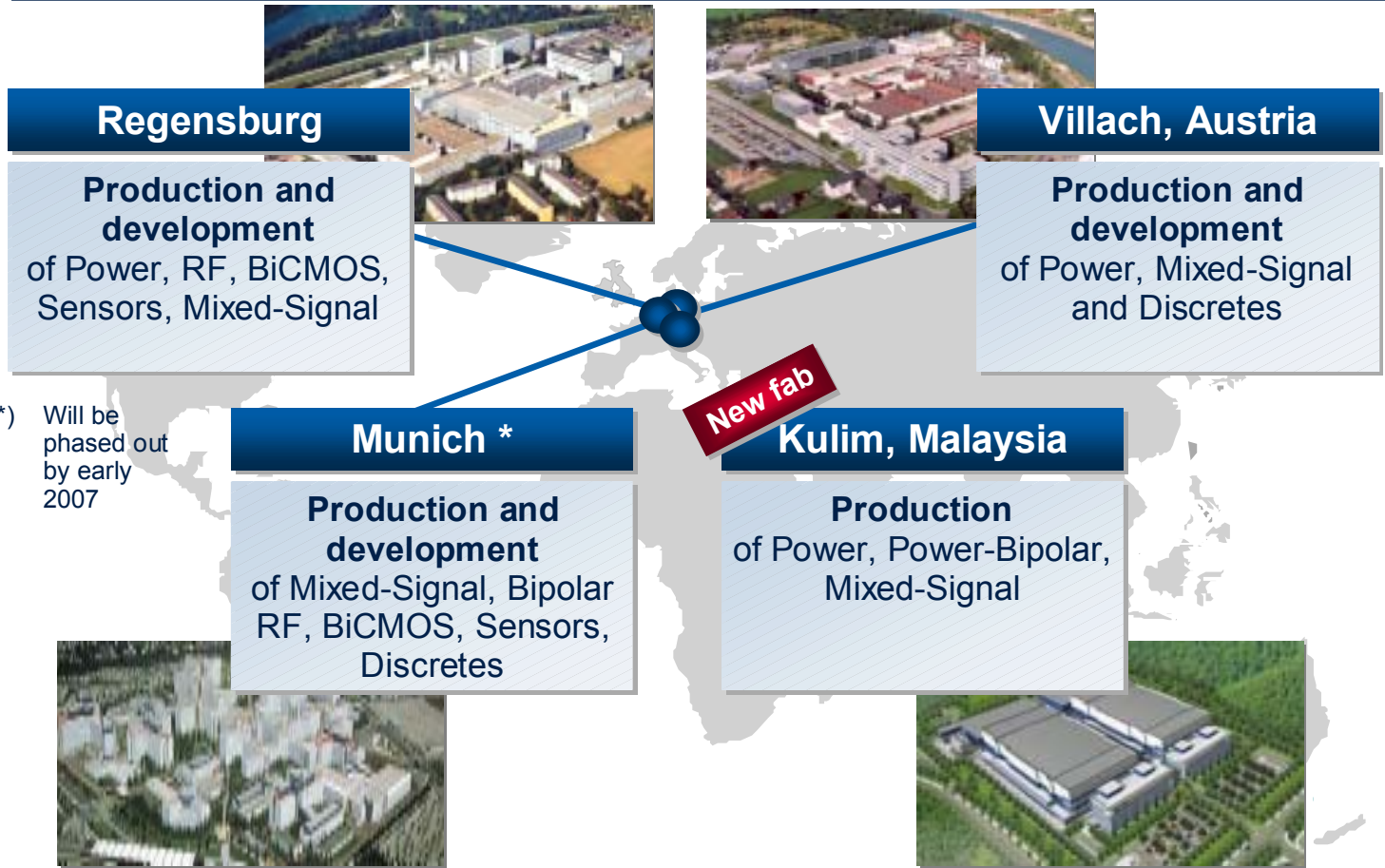
Industrial Business

Chipcard & Security ICs Business

Technology, Manufacturing, Customer Focus

Questions & Answers

Infineon's Frontend Fab Locations for Power Logic: Global Technology and Manufacturing Competence



*) Will be phased out by early 2007

Additional capacities at silicon foundries: ASMC, Chartered, TSMC and ZMD

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Package Development and Manufacturing Core Competence

Power

Plants

- Malacca

Main Products

- Power discretes
- ICs and multi-chip packages



Discretes

Plants

- Malacca
- Wuxi
- Regensburg

Main Products

- Transistors
- Diodes



Sensors

Plants

- Regensburg
- Malacca
- Skoppum

Main Products

- Hall sensors
- Temp. sensors
- Pressure sensors
- Rotational sensors



High Power

Plants

- Warstein
- Cegléd

Main Products

- IGBT modules
- IHM/IHV mod.
- Diodes/Thyrist.
- Stacks
- Driver Boards



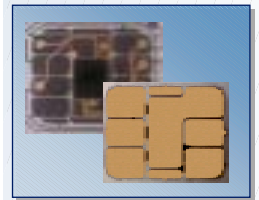
Chip Card

Plants

- Regensburg
- Wuxi

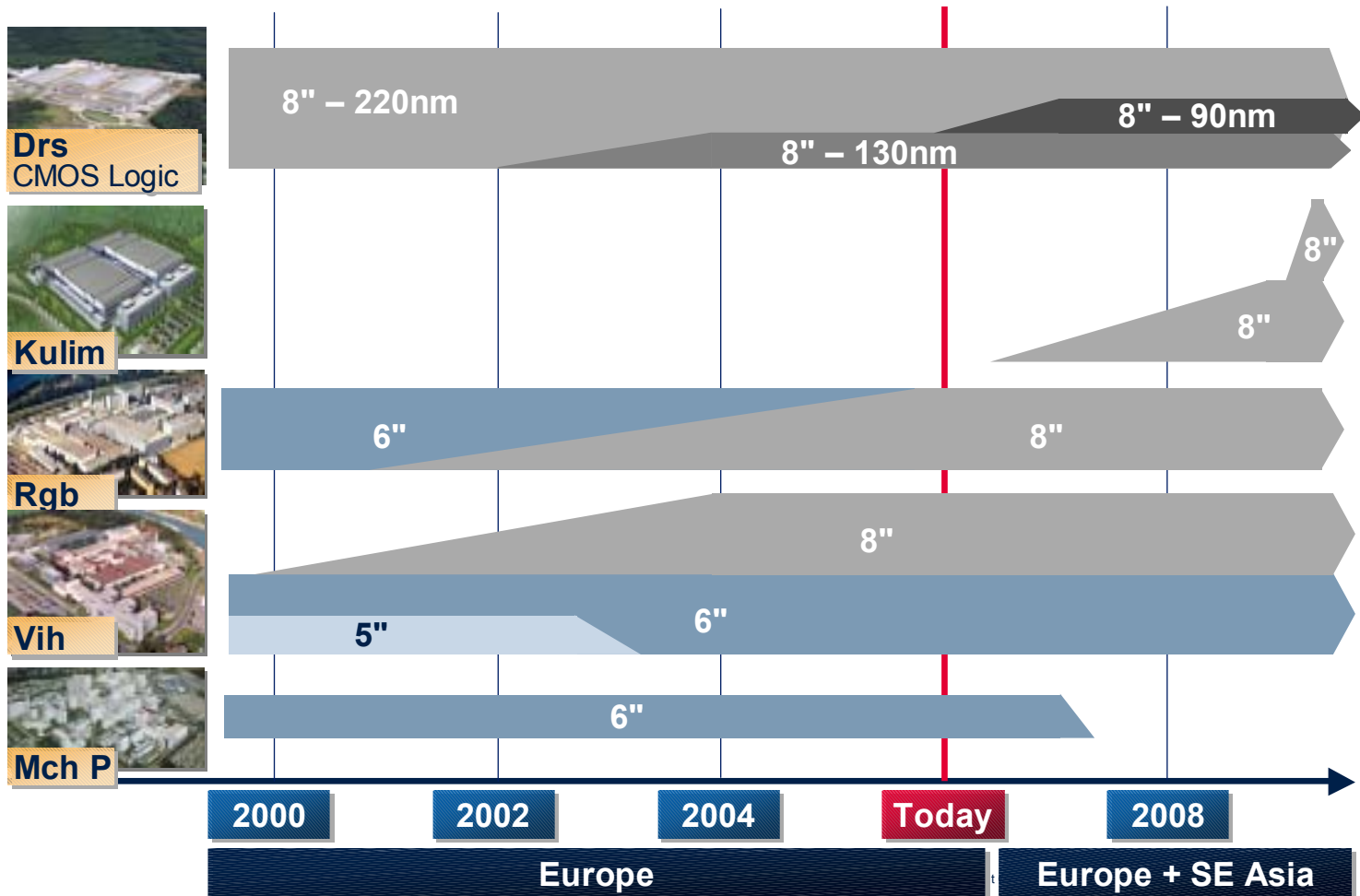
Main Products

- Contact-based Chipcards
- Contactless Chipcards
- Security ICs

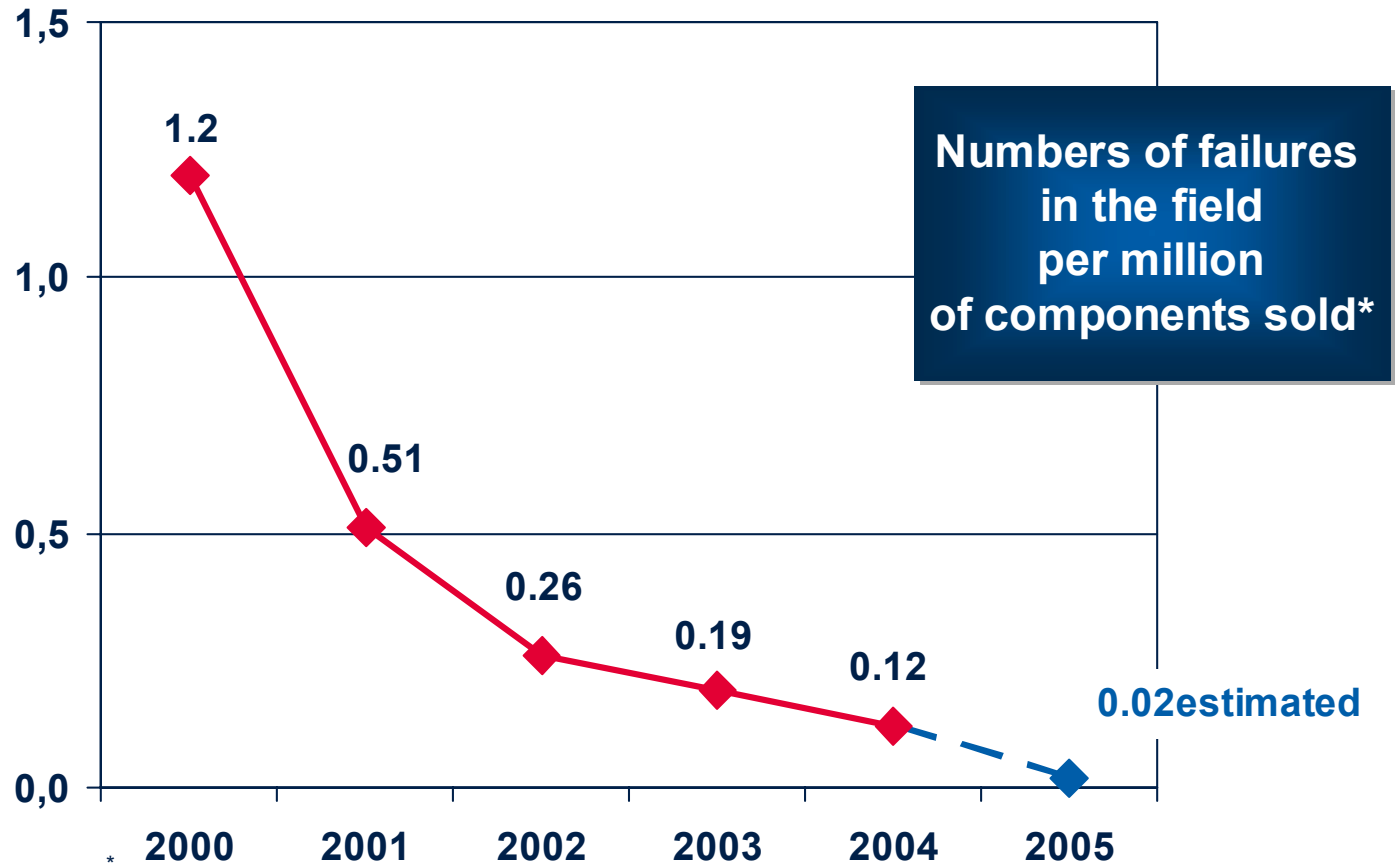


Site Development AIM Manufacturing Landscape

Continued Consolidation from 6" to 8"



AIMs Automotive Excellence Program Drives Strong Quality Focus



Examples of Recent Customer Appreciation



Supplier of the Year 2004 Award

for Quality, Logistics, Flexibility.

First semiconductor company ever receiving this award.

Best Supplier Award 2005

for Technology, Quality, Response time, Delivery and Cost among 153 suppliers.



Best Supplier Award

for Quality, Price, Logistics, Innovations.

Certificate of Recognition

for Support of the Astec Zero Defect Plan in 2004.



Preferred Supplier Award 2005

for Logistics, Innovation, Price and Customer Relations.

Cornerstones of the AIM Strategy



- Global Trends

- Automotive Business

- Industrial Business

- Chipcard & Security ICs Business

- Technology, Manufacturing, Customer Focus

- **Questions & Answers**



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