

# Innovative semiconductor solutions for energy efficiency, mobility and security



Company Presentation  
Nov. 16, 2010



# Table of Contents

■ Market and Business Development 4<sup>th</sup> Quarter Fiscal Year 2010

■ Business Focus

■ Divisions, Products and Technology

■ General Company Information

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- Market and Business Development 4<sup>th</sup> Quarter Fiscal Year 2010

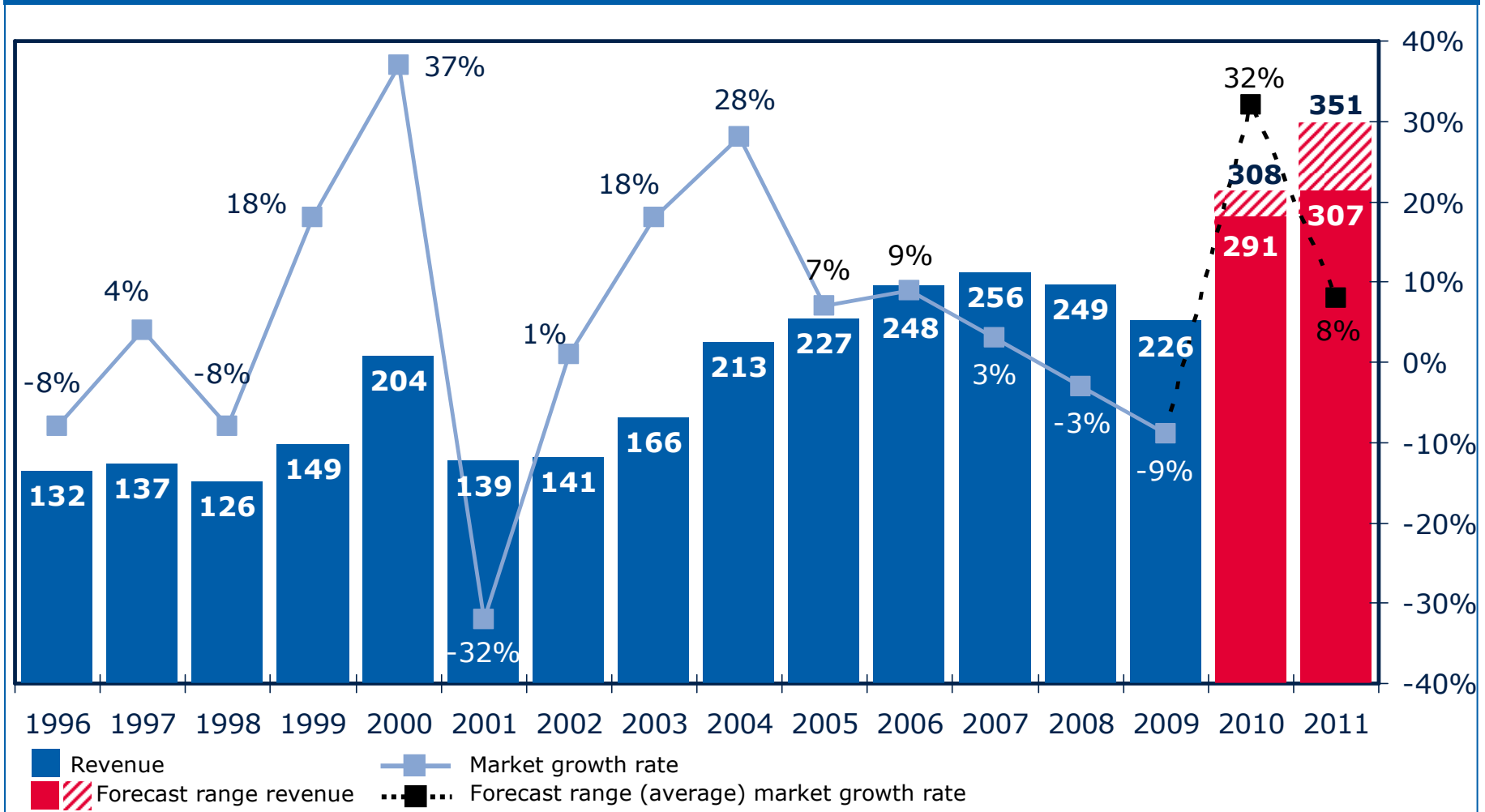
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# Global semiconductor market

## Revenue in US Dollar billion and market growth rate



Source: WSTS for historical data; Forecast: ∅ of Future Horizons, Gartner, iSuppli, IC Insights, VLSI, WSTS; market growth rate year-on-year; October 25th 2010

# Infineon Holds a #1 Position in All Target Markets



**Auto-  
motive**

**#1**

Market  
share

9%

Calendar Year 2009  
Source: Strategy Analytics,  
May 2010

**Power**

**#1**

Market  
share

11%

Calendar Year 2009  
Source: IMS Research,  
July 2010

**Chip Card**

**#1**

Market  
share

27%

Calendar Year 2009  
Source: Frost & Sullivan,  
October 2010

# Infineon at a Glance

## The Company

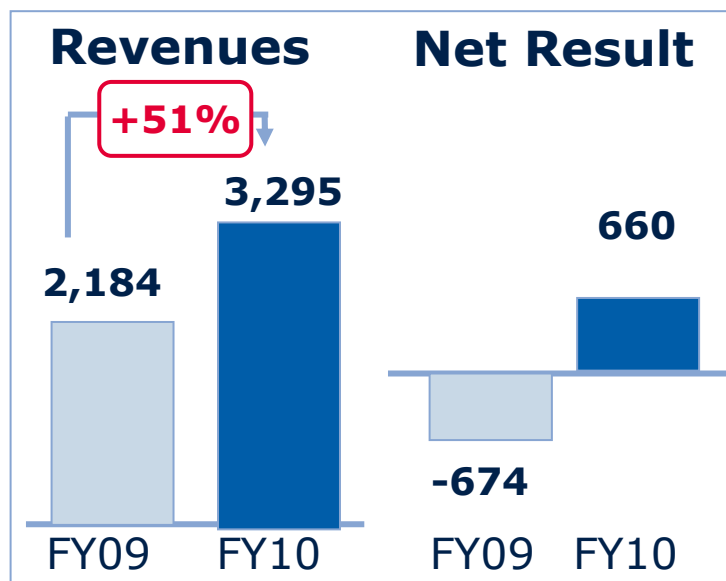
- Infineon provides semiconductor and system solutions, focusing on three central needs of our modern society: **Energy Efficiency, Mobility and Security**
- Revenue in FY 2010<sup>\*\*</sup>: 3.295 billion EUR
- 26,654\* employees worldwide (as of September 2010)
- Strong technology portfolio with about **22,900\*** patents and patent applications
- More than **21 R&D locations**
- Germany's largest semiconductor company

\*Note: Including Wireless as discontinued operations; as of September 30, 2010

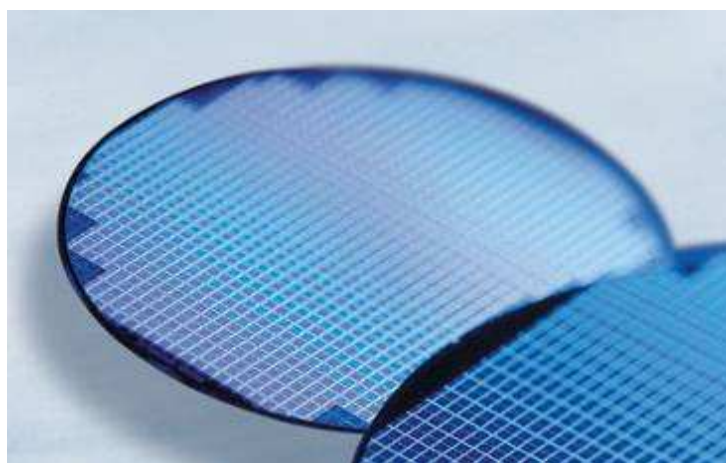
\*\*Note: Figures according to IFRS with Wireline and Wireless as discontinued operations; as of September 30, 2010

# Infineon Group

## Results for FY 2010 vs FY 2009



in € million	2009	2010
Revenues	2,184	3,295
Segment Result	-140	475
SR Margin	-6.4%	14.4%
Net Result	-674	660

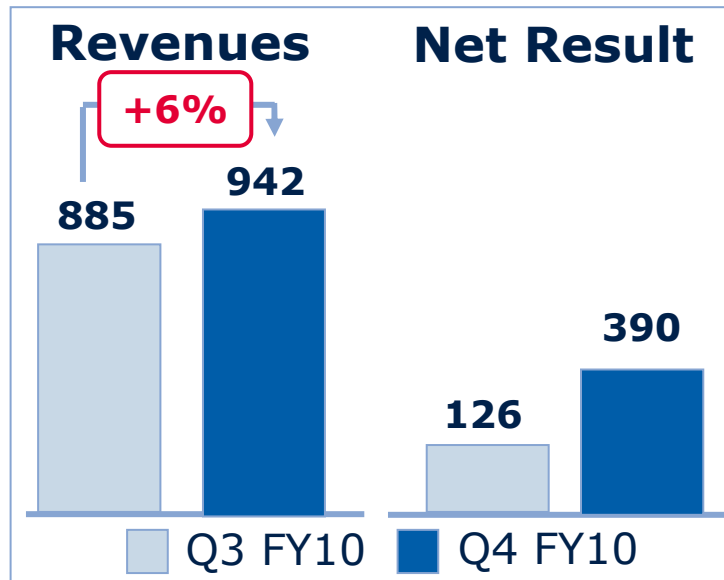


Free Cash Flow	274	573
Investments PPE	96	292
Net Debt/Cash	657	1,331
Market capitalization	~4,200	~5,522

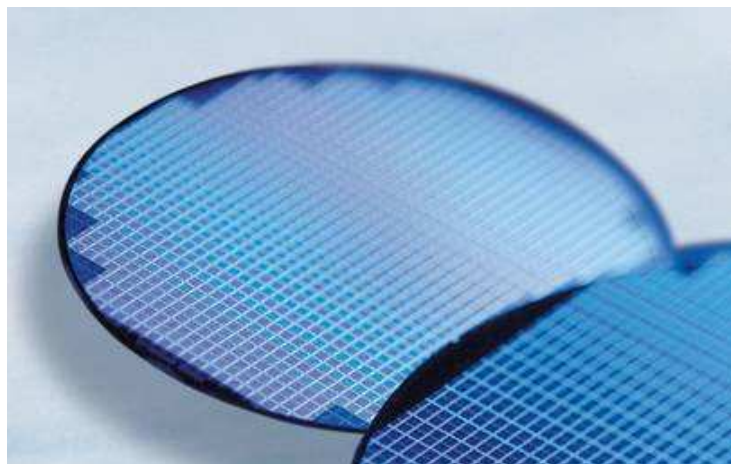
Note: Figures according to IFRS with Wireline and Wireless as discontinued operations; as of September 30, 2010  
11/16/2010

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# Infineon Group Results for Q4 FY10 vs Q3 FY10



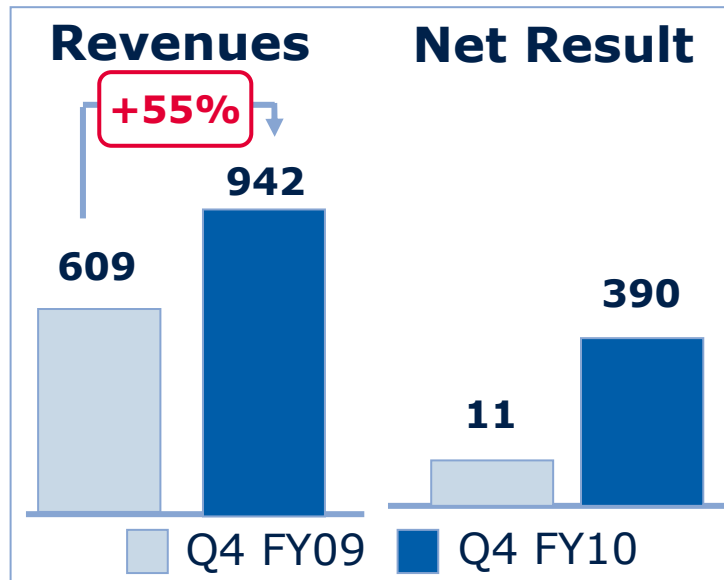
in € million	Q3 10	Q4 10
Revenues	885	942
Segment Result	138	171
SR Margin	16%	18%
Net result	126	390
Free Cash Flow	172	236
Gross Cash Position	1,514	1,727
Net cash	1,108	1,331



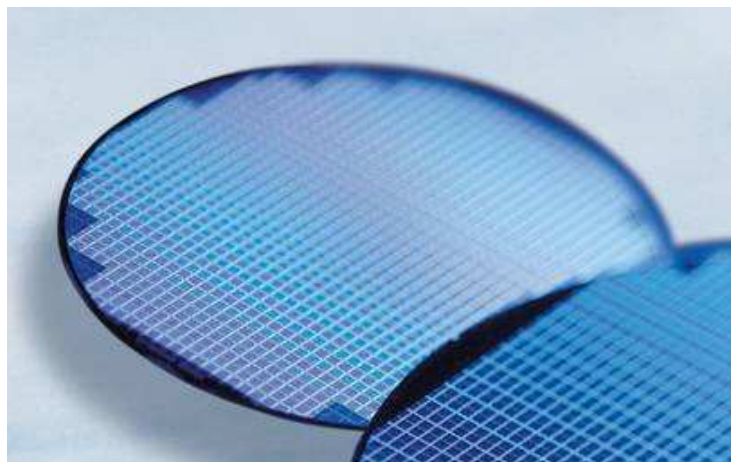
Note: Figures according to IFRS



# Infineon Group Results for Q4 FY10 vs Q4 FY09



in € million	Q4 09	Q4 10
Revenues	609	942
Segment Result	33	171
SR Margin	5%	18%
Net result	11	390

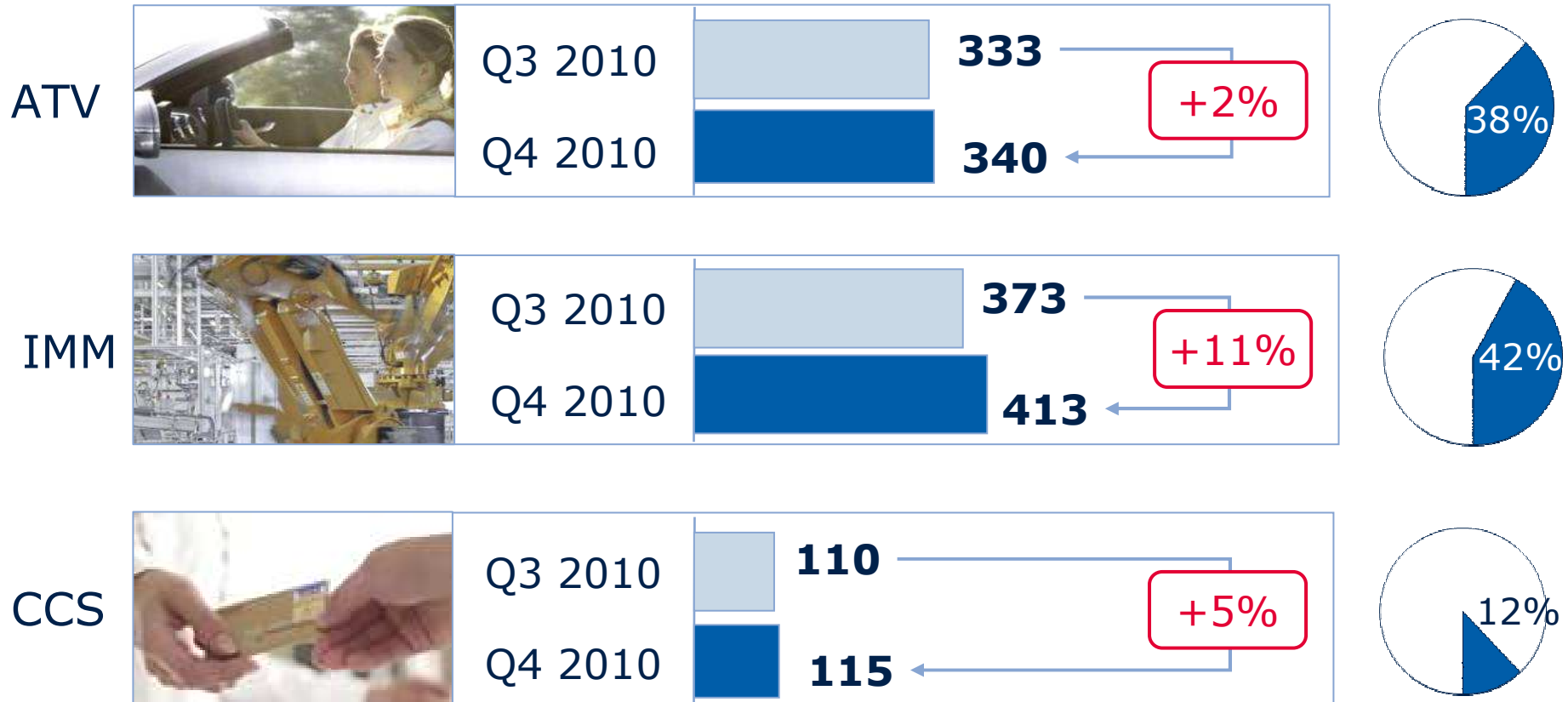


Free Cash Flow	140	241
Gross Cash Position	1,507	1,727
Net cash	657	1,331

Note: Figures according to IFRS

# Revenues Increased in All Division










Revenue\* in € million Share of total



\*: Total Revenue includes Other Operating Segment (Q3 FY10 € 46 m, Q4 FY10 € 48 m), Corporate & Eliminations (Q3 FY10 € 1 m, Q4 FY10 € -5 m) and remaining WLS business (Q3 FY10 € 22 m, Q4 FY10 € 31 m).

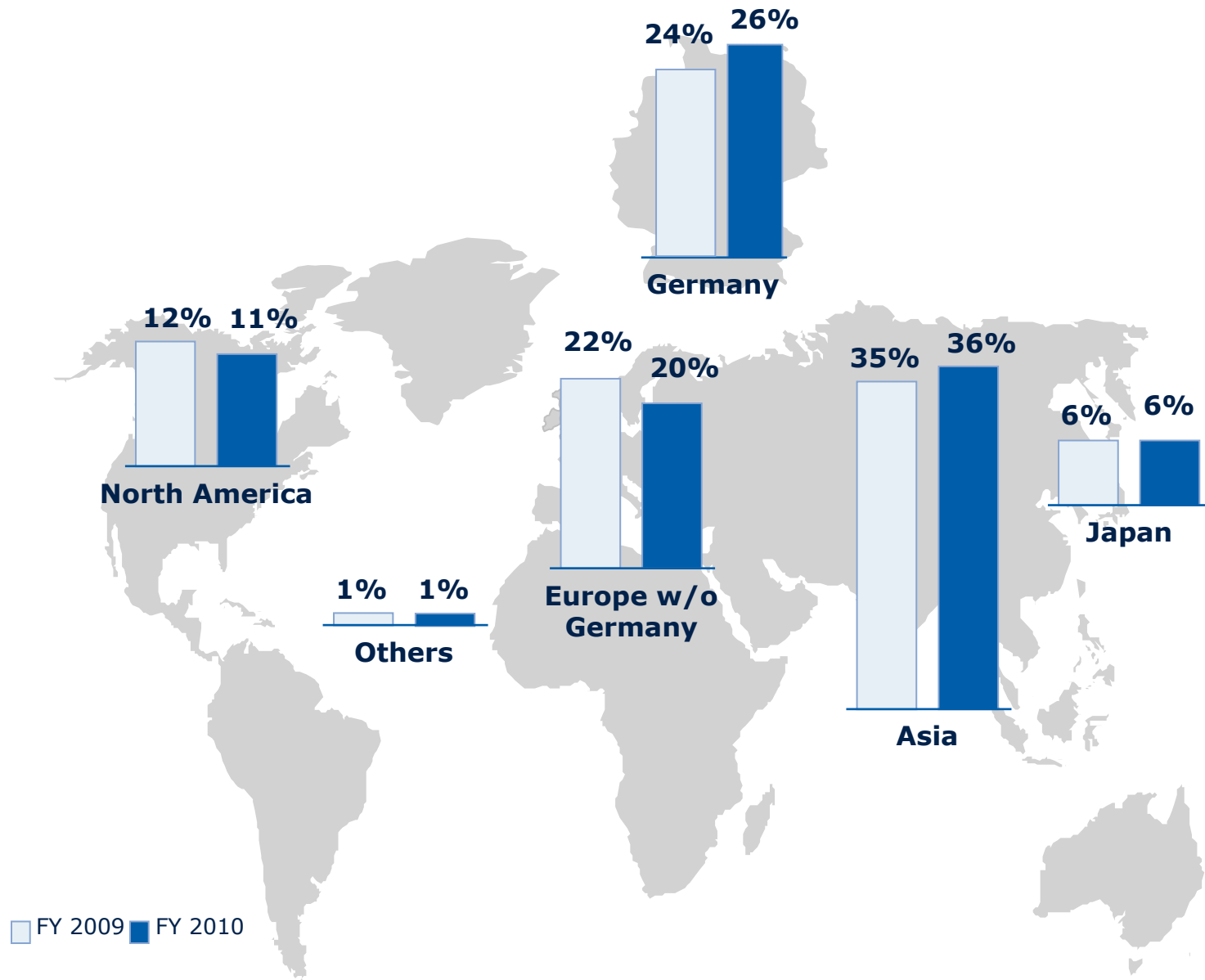
# Segment Results and Margins Increased in All Division



		Segment Result* (SR) in € million	SR Margin
ATV		Q3 2010  <b>52</b>	16%
		Q4 2010  <b>58</b>	17%
IMM		Q3 2010  <b>82</b>	22%
		Q4 2010  <b>98</b>	24%
CCS		Q3 2010  <b>6</b>	5%
		Q4 2010  <b>12</b>	10%

\*: Total Segment Result includes Other Operating Segment (Q3 FY10 € -1 m, Q4 FY10 € 2 m), Corporate & Eliminations (Q3 FY10 € 0 m, Q4 FY10 € -5 m) and remaining WLS business (Q3 FY10 € -1 m, Q4 FY10 € 6 m).

# Proportional Revenue Infineon Group by Regions FY 2009 and FY 2010



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# The Infineon Compass Guides us on Our Way

## Our Purpose

We are the semiconductor innovation leader for energy efficiency, mobility and security. Our solutions help modern society to grow while preserving our environment.

## Our Way

Our people are the foundation of Infineon's unique competitive advantages, strong financial results and high performance. We deliver the best to our customers, employees and shareholders - anywhere, anytime.

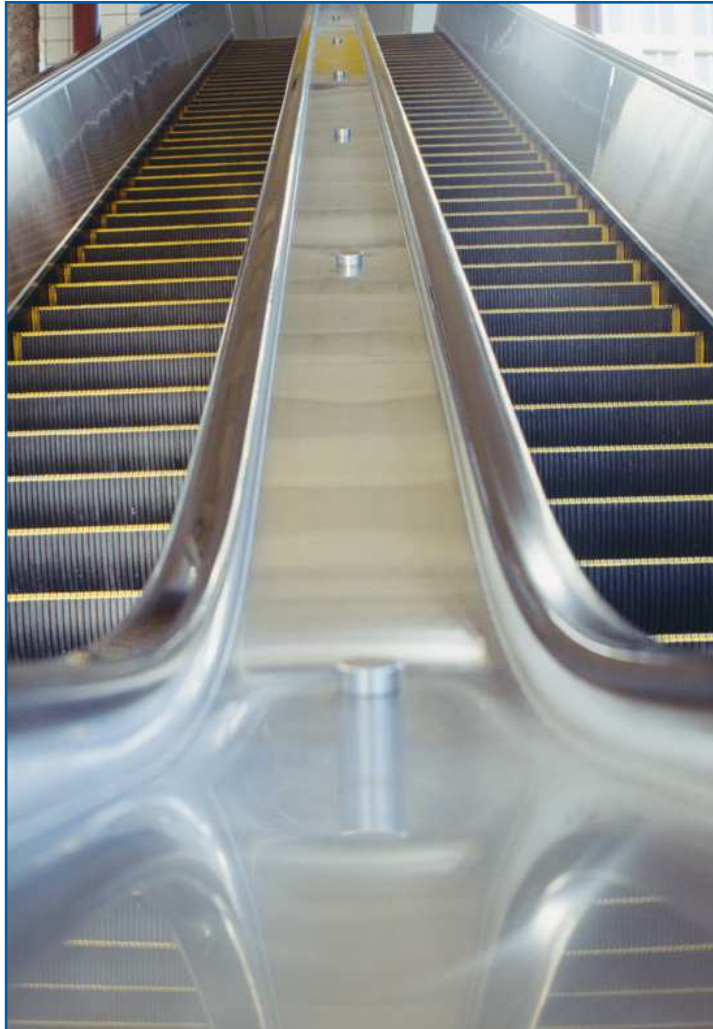
## Our Values

Four core values are the driving force behind our day-to-day execution: we commit – we innovate – we partner – we perform.



# Infineon Compass

# Paving the Way for a High Performance Company



- Successful restructuring by IFX10+
  - Consequent cost reduction
  - Efficiency increase
- Successful refinancing in 2009
  - Repurchase and redemptions of convertible and exchangeable bonds in 2009 (total: € 367 m nominal)
  - New convertible bond issued 2014, gross proceeds of about € 182 m
  - € 674 m capital increase, 100% subscribed
  - Strict working capital management, capex discipline
- Consequent adoption of the Infineon portfolio for all target markets
  - World leading in ATV, IMM and CCS
  - Selling WLC to Golden Capital
  - Selling WLS to Intel
  - Focus on the three major challenges of today's society:
    - ↪ Energy Efficiency
    - ↪ Mobility
    - ↪ Security

# We Focus on Our Target Markets

## Focus Areas

- Energy Efficiency
- Mobility
- Security



## Core Competencies

- Analog/Mixed Signal
- Power
- Embedded Control
- Manufacturing Competence

## Our Target Markets

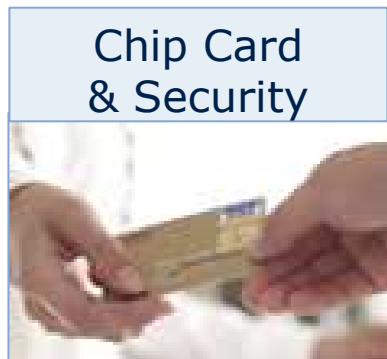
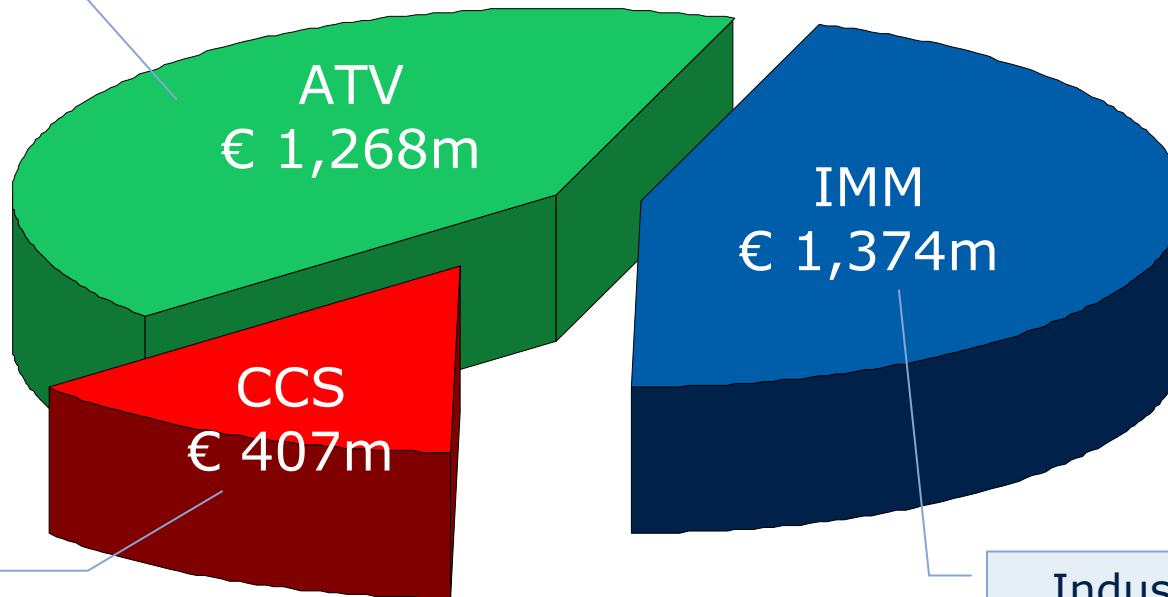
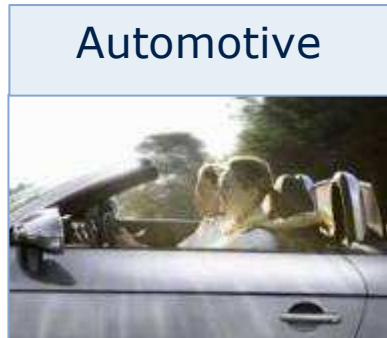
- Automotive
- Industrial Electronics
- Chip Card & Security





# Revenue Split by Division

## 12-months FY 2010 revenue split



We focus on three areas with highly attractive future perspectives



- Automotive
- Industrial & Multimarket
- Chip Card & Security

Introducing the new focus area "Mobility" reflects:

- Our leadership position in Automotive
- Rising importance of new mobility concepts (e.g. electro mobility) and
- Innovative public transportation solutions for traction & electronic tickets

# Energy Efficiency



## Key trends

- Soaring total energy demand across the globe amid dwindling fossil energy resources
- Strong CO<sub>2</sub> policies to achieve climate goals
- Tapping renewable energies as sustainable energy sources
- Electrification of the drivetrain of commercial and passenger vehicles

## Our contribution

- Infineon delivers semiconductor innovations playing a valuable role in minimizing power loss and maximizing power savings along the entire energy supply chain, extending from generation through distribution to actual consumption.
- Our products are the basis for intelligent and optimal use of energy resources in industrial, computing and consumer applications, and in cars.

# Mobility



## Key trends

- Rigid CO<sub>2</sub> regulations and rising oil price
- Increasing rules on safety, focusing on preventive measures
- Rising new requirements in cars for emerging markets
- Urbanization, globalization and demographic change
- Strong investments in local and long distance public transportation systems

## Our contribution

- Leading semiconductor solutions contributing to a more sustainable mobility in terms of reduced fuel consumption/emissions, improved safety and affordability.
- As an innovation driver and supplier of key components for electric and hybrid vehicles, Infineon will actively help to shape the paradigm shift towards electro mobility on the road.
- Innovative public transportation solutions for traction and electronic tickets.

# Security



## Key trends

- Requirements for secure systems are visible in all areas of life
- Secure communication everywhere utilizing mobile phone and internet
- Move to electronic identification of documents and products
- Contactless cards for payment and electronic tickets
- Increased electronics in cars, calling for secure data handling

## Our contribution

- Tailored security according to system requirements, enabling the implementation of transparent security in everyday systems
- Leverage our worldwide leadership in security know-how for smart cards in automotive and industrial applications increasingly demanding security
- Combining both hardware security and cryptography, our products build the basis for privacy and security while maintaining personal freedom and facilitating extended communication capabilities

# We Align to Our Customer Segments



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# Infineon – Market-Oriented Business Structure



## Divisions

## Core Applications





# Automotive Overview



## Core competencies/ Value proposition

- Fully **automotive commitment**: More than **40 years** of automotive **system and application expertise**
- **Complete automotive system provider**
- **Hybrid and E-Mobility**: industry **leading expertise** and product portfolio
- **Worldwide** development, production and support sites for automotive semiconductors
- **Automotive Excellence**: most comprehensive quality program of the industry

## Product range

- **Sensors**: pressure, temperature, magnetic; wireless control ICs, radar
- **Microcontrollers**: 8-bit, 16-bit, 32-bit
- **Power**: MOSFETs, IGBTs, smart power ICs: voltage regulators, bridges, driver ICs, CAN / LIN / FlexRay™ transceiver, DC-DC converter, power system ICs, system-on chip embedded power ICs
- **Hybrid & Electric Vehicle**: HybridPACK™1, HybridPACK™2, gate driver ICs, MOSFETs, IGBTs

## Market positions

- **No. 1** in Automotive semiconductors worldwide
- **No. 1** in Europe
- **No. 2** in NAFTA
- **No. 2** in ROW

Source: Strategy Analytics (April 2010)

\* FlexRay is a trademark licensed by FlexRay Consortium GbR

# We Focus on Future Business

## Example 1: Making Cars Cleaner



### Market trends

- Dwindling energy resources
- Stricter CO<sub>2</sub> emission legislations
- Growing environmental awareness

### Infineon's opportunities

- Infineon components are key for CO<sub>2</sub> reduction: Total improvement of CO<sub>2</sub>-emission ~23 g/km
- We offer Hybrid and electric drivetrain products (HybridPACK™)
- No electric vehicle without semiconductors: electric drive and control, battery management, on-board battery charging and power grid communication

Note: Baseline CO<sub>2</sub> reduction in g/km: 170 g/km on Ø EU cars



# Industrial & Multimarket Overview



## Product range

- Power discretes, modules and stacks
- Power management ICs
- AF/RF diodes and transistors
- Silicon MEMS microphone, TVS diodes
- LED drivers
- ASIC design solutions incl. secure ASICs for authentication and brand protection
- Microcontrollers: 8-bit, 16-bit, 32-bit

## Core competencies/ Value proposition

- High quality products and services
- Leading edge technology and IP portfolio
- System expertise with broad application competence
- Strong worldwide presence with local sales and application support
- Dedicated account teams & distributors

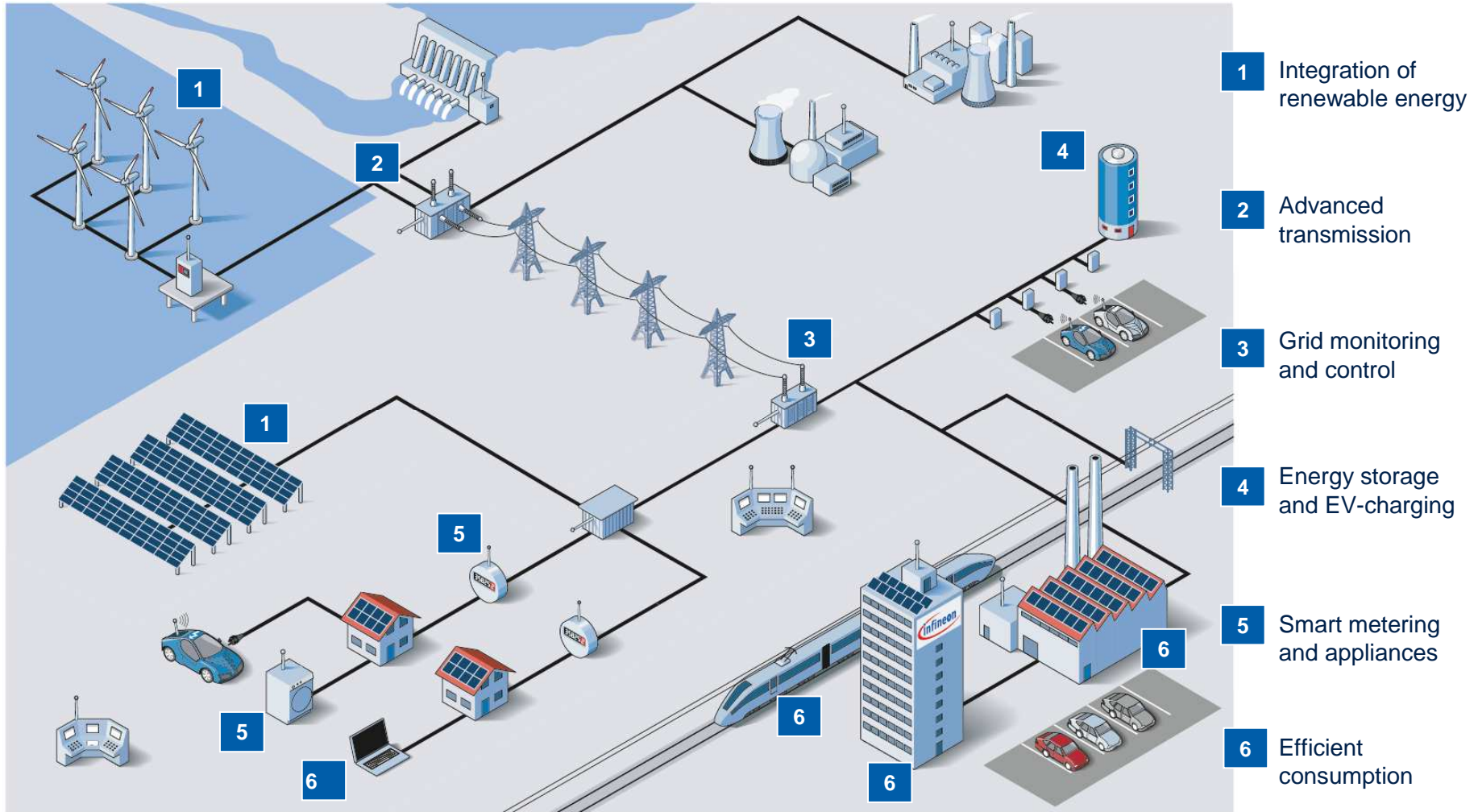
## Market positions

- No.1 in Power Semiconductors for seven consecutive years
  - No.2 in Power Modules with 20.5% share
  - No.1 in Power Discretes with 8.2% share

Source: IMS Research, July 2010

# We Focus on Future Business

## Example 2: Smart Grid



# Chip Card & Security Overview



## Product range

- Contactless and contact-based security products for Communication, Payment, Government ID, Personal & Object ID, Entertainment and Platform Security
- Extensive packaging and service portfolio
- Innovative solutions from basic security RFID and memories to high-end security controllers (including the award winning SLE 78 family)

## Core competencies/ Value proposition

- Tailored security: right level of security at the best cost-performance ratio
- Contactless excellence: focus on interoperability and dual interface
- Embedded control: right trade-off between computing power, power consumption, level of security and cost

## Market positions

- No. 1 in the Chip Card IC market for 13 years with a market share of 27%<sup>1</sup> by revenue
- Market leader in Government ID and Payment
- Roughly every second Government ID document issued in 2009 incorporated a security chip of Infineon (without China ID)
- Supplier for the two world's biggest electronic passport projects USA and China

# We Focus on Future Business

## Example 3: Protecting Privacy



### Market trends

- Trusted Platform Modules (TPM) on 70% of enterprise notebooks and desktops; Windows 7 support
- Data protection: Encryption of files, folders, disks, messaging, digital signatures
- Strong authentication: Network access protection and additional authentication factor

### Infineon's opportunities

- No. 1 supplier for TPM solutions
- Infineon's TPM security chips are first to receive global TCG and Common Criteria Certification and UK government approval



# Infineon – Partner of the Worldwide Electronics Industry



## Key Customers

### Automotive

- Autoliv
- Bosch
- Continental
- Delphi
- Denso
- Hella
- Hyundai
- Kostal
- Lear
- Mitsubishi
- TRW
- Valeo

### Industrial & Multimarket

- ABB
- Alstom
- Cisco
- Convertteam
- Dell
- Delta
- Emerson
- Ericsson
- HP
- LG Electronics
- Microsoft
- Nokia
- Panasonic
- Philips
- RIM
- Samsung
- Schneider Electric
- Siemens
- SMA Technology
- Sony

### Chip Card & Security

- Beijing Watch Data
- Cisco
- Gemalto
- Giesecke & Devrient
- Oberthur
- Sagem Orga
- US Government Printing Office

### ■ Main channel partners

(distributors):

Arrow, Avnet, Beijing Jingchuan, Rutronik, Tomen, Toyotsu, WPG Holding

### ■ Electronic Manufacturing Services (EMS):

Celestica, Flextronics, Foxlink, Hon Hai, Jabil, Sanmina-SCI

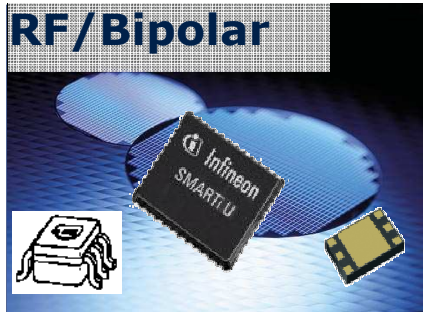
# Infineon Semiconductor Technology Portfolio



## Technology portfolio fits needs of logic and power applications



**Digital CMOS:** 800nm – 28nm Technology Nodes (Platform <180nm incl. RF, AMS)  
**Analog/Mixed Signal:** 500nm – 180nm Technology Nodes (CxNA)  
**eNVM:** EEPROM: IMEMR, C9FL  
 OTP: C5OP (Automotive)  
**eFlash/EEPROM:** 250nm – 65nm CxFL (Chip Card), CxFLA, CxFLN (Automotive)



**RF BICMOS:** 25GHz – 100GHz: B6HFC, B9COPT, B10C  
**Bipolar IC:** NF-IC,  
 2GHz...200GHz RF-Bipolar: BxHF  
**HiPAC:** Al/Cu Integrated Passives  
**Bipolar/Discretes/MMIC:** P7Mxx, P7Dxx, P8Mxx, P9Mxx  
**RF-Transistors** NF-TR; BxHF(D/M)  
**Power Amplifier:** LD MOS, LDxM, LDxIC, LD9AB  
**Diodes:** NF-DI, Tuner: DxT, Schottky: DxS  
**SiGe:** B7HFM, B7HF\_SLC, B7HF200  
**RF Switches:** C7NP, C11NP  
**SiGe:** B7HFD/M, B7HF\_SD  
**RFMOS:** HFM  
**PIN:** DxP



**Analog Bipolar:** DOPL, Ax, BIPEP, B4C  
**Analog BICMOS:** B6CA, B6CA-CT, B7CA, SPT170  
 500 - 350nm HV-CMOS-SOI  
**Smart Power :** 1200-130nm BIP/CMOS/DMOS  
 SPTx (Automotive, EDP) (BCD)  
**Smart :** CMOS/DMOS, SMARTx,  
 (SmartMOS) MSMARtx, SSMARtx Opto-TRIAC  
**DMOS:** KSPx, PFET (p-channel)  
 (OptiMOS) KSNx, EH4, SFETx (n-ch.)  
**HV-DMOS:** EH5/6, EHATx,  
 (CoolMOS) EHATDx, EHCx, EHCxD  
**IGBT:** IGBTx, LightMOS, ZIGBT  
**Fast Recov. Diodes:** FRSTD (ECxxx)  
**SiC Devices:** Diode; MOS/JFET  
**all of them adopted for automotive and industrial requirements**



**Analog ICs:** B6CA, B7CA  
 Coreless Transformer  
**Magnetic:** BxCAS, C9FLRN\_GMR  
**Opto:** OP-DI, OP-TR, OP-C9N,  $\mu$ -modules  
**Pressure:** BxCSP, TIREPx  
**Microphone:** DSOUND



# Infineon Package Technology Portfolio

IC				Power			
Wafer Level Packages, Bare Die	Laminate based Packages	Leadframe based Packages	Chip Card	Discretes	Sensors	High Power	Power
<p><b>Surface Mount Technology (SMD)</b></p> <p><b>Wafer Level</b> w/o redistribution</p> <ul style="list-style-type: none"> <li>▪ WLP (fan-in)</li> </ul> <p>w/redistribution</p> <ul style="list-style-type: none"> <li>▪ WLB (fan-in)</li> <li>▪ eWLB (fan-out)</li> </ul> <p><b>Bare Die</b></p> <ul style="list-style-type: none"> <li>▪ Wirebond</li> <li>▪ Flip chip</li> </ul>	<p><b>SMD</b></p> <ul style="list-style-type: none"> <li>▪ BGA</li> <li>▪ LBGA</li> <li>▪ xFBGA</li> <li>▪ xFSGA</li> <li>▪ xFKBGA</li> </ul> <p><b>Flip chip</b></p> <ul style="list-style-type: none"> <li>▪ FCxBGA</li> <li>▪ xF2BGA</li> <li>▪ xF2SGA</li> </ul>	<p><b>Through Hole</b></p> <ul style="list-style-type: none"> <li>▪ DIP <sup>2)</sup></li> </ul> <p><b>SMD</b></p> <ul style="list-style-type: none"> <li>▪ TSSOP</li> <li>▪ TQFP</li> <li>▪ LQFP</li> <li>▪ MQFP</li> </ul> <p><b>Leadless</b></p> <ul style="list-style-type: none"> <li>▪ xSON</li> <li>▪ VQFN</li> <li>▪ WQFN</li> <li>▪ O-LQFN <sup>1)</sup></li> </ul>	<p><b>Mold on LF</b></p> <ul style="list-style-type: none"> <li>▪ P-MCCx</li> </ul> <p><b>Mold</b></p> <ul style="list-style-type: none"> <li>▪ P-Mx.x</li> </ul> <p><b>Chip on Flex</b></p> <ul style="list-style-type: none"> <li>▪ FTM</li> </ul> <p><b>UV Globe top</b></p> <ul style="list-style-type: none"> <li>▪ T-Mx.x</li> </ul> <p><b>PRELAM</b></p> <ul style="list-style-type: none"> <li>▪ PPxx</li> <li>▪ Inlay</li> </ul> <p><b>Flip Chip</b></p> <ul style="list-style-type: none"> <li>▪ S-MFCx.x</li> </ul> <p><b>Wafer</b></p> <ul style="list-style-type: none"> <li>▪ Bumped</li> <li>▪ Diced</li> </ul>	<p><b>SMD leaded</b></p> <ul style="list-style-type: none"> <li>▪ SOT</li> <li>▪ SOD</li> </ul> <p><b>Flat lead</b></p> <ul style="list-style-type: none"> <li>▪ TSFP</li> <li>▪ SC</li> </ul> <p><b>Leadless</b></p> <ul style="list-style-type: none"> <li>▪ TSLP</li> <li>▪ TSSLP</li> <li>▪ TSNP</li> </ul> <p><b>Wafer level</b></p> <ul style="list-style-type: none"> <li>▪ WLP</li> </ul>	<p><b>Through Hole</b></p> <ul style="list-style-type: none"> <li>▪ PSSO</li> </ul> <p><b>SMD Leaded</b></p> <ul style="list-style-type: none"> <li>▪ DSO</li> <li>▪ SC</li> <li>▪ TSOP</li> </ul> <p><b>Open cavity</b></p> <ul style="list-style-type: none"> <li>▪ DSOF</li> </ul>	<p><b>Power Modules</b></p> <ul style="list-style-type: none"> <li>▪ Easy</li> <li>▪ 62mm</li> <li>▪ Econo</li> <li>▪ Econo PACK+</li> <li>▪ PrimePACK</li> <li>▪ IHM</li> <li>▪ IHV</li> <li>▪ Hybrid PACK</li> </ul>	<p><b>Through Hole</b></p> <ul style="list-style-type: none"> <li>▪ TO, DIP</li> </ul> <p><b>SMD</b></p> <ul style="list-style-type: none"> <li>▪ TO</li> <li>▪ DSO</li> <li>▪ SSOP</li> </ul> <p><b>Leadless</b></p> <ul style="list-style-type: none"> <li>▪ TDSON</li> <li>▪ TSDSON</li> <li>▪ CanPAK</li> <li>▪ SON</li> <li>▪ QFN</li> </ul> <p><b>SIP Low Power</b></p> <ul style="list-style-type: none"> <li>▪ IDC</li> </ul> <p><b>SIP Medium Power</b></p> <ul style="list-style-type: none"> <li>▪ CIPOS</li> </ul>

1) for specialities only 2) phase-out

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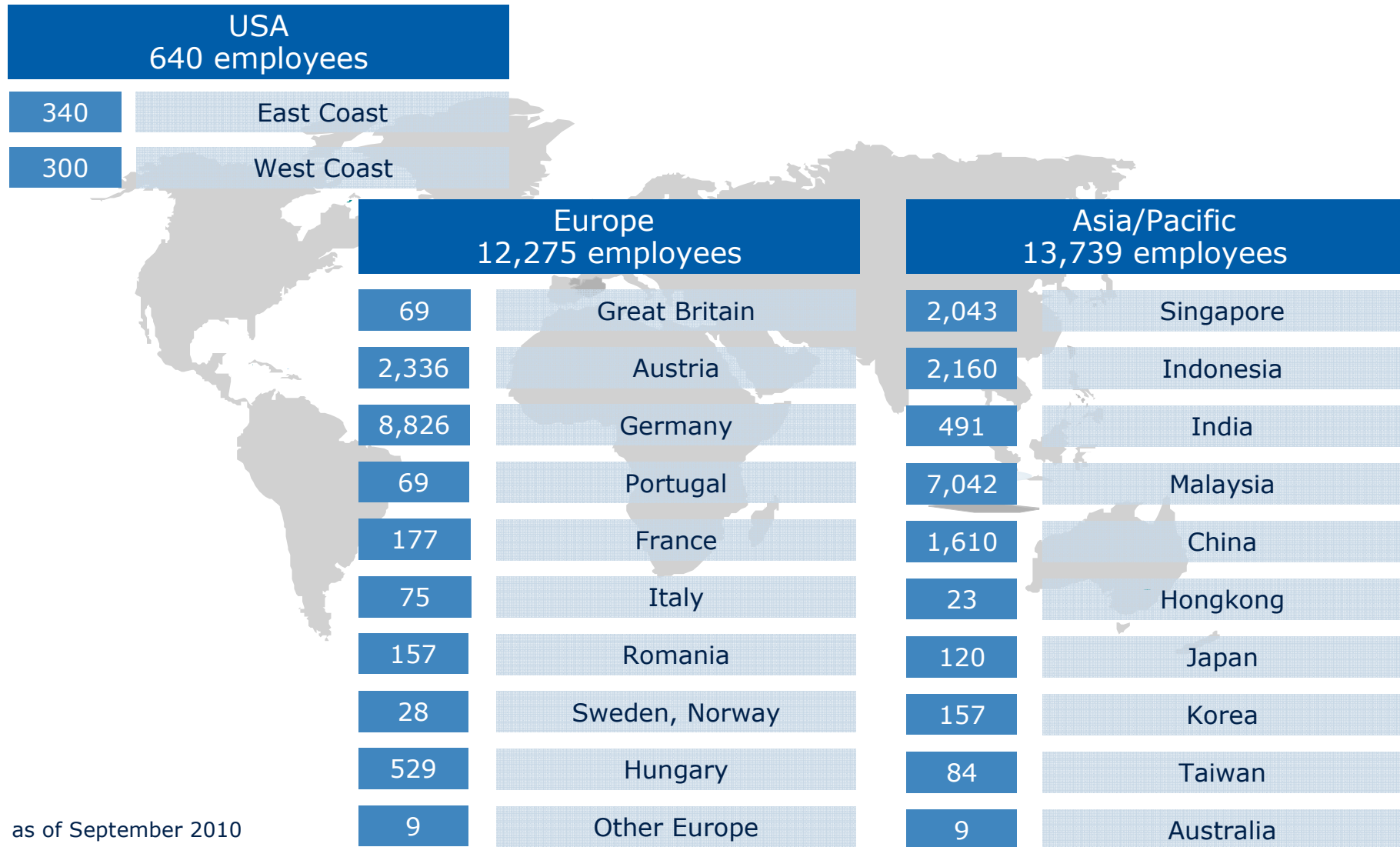
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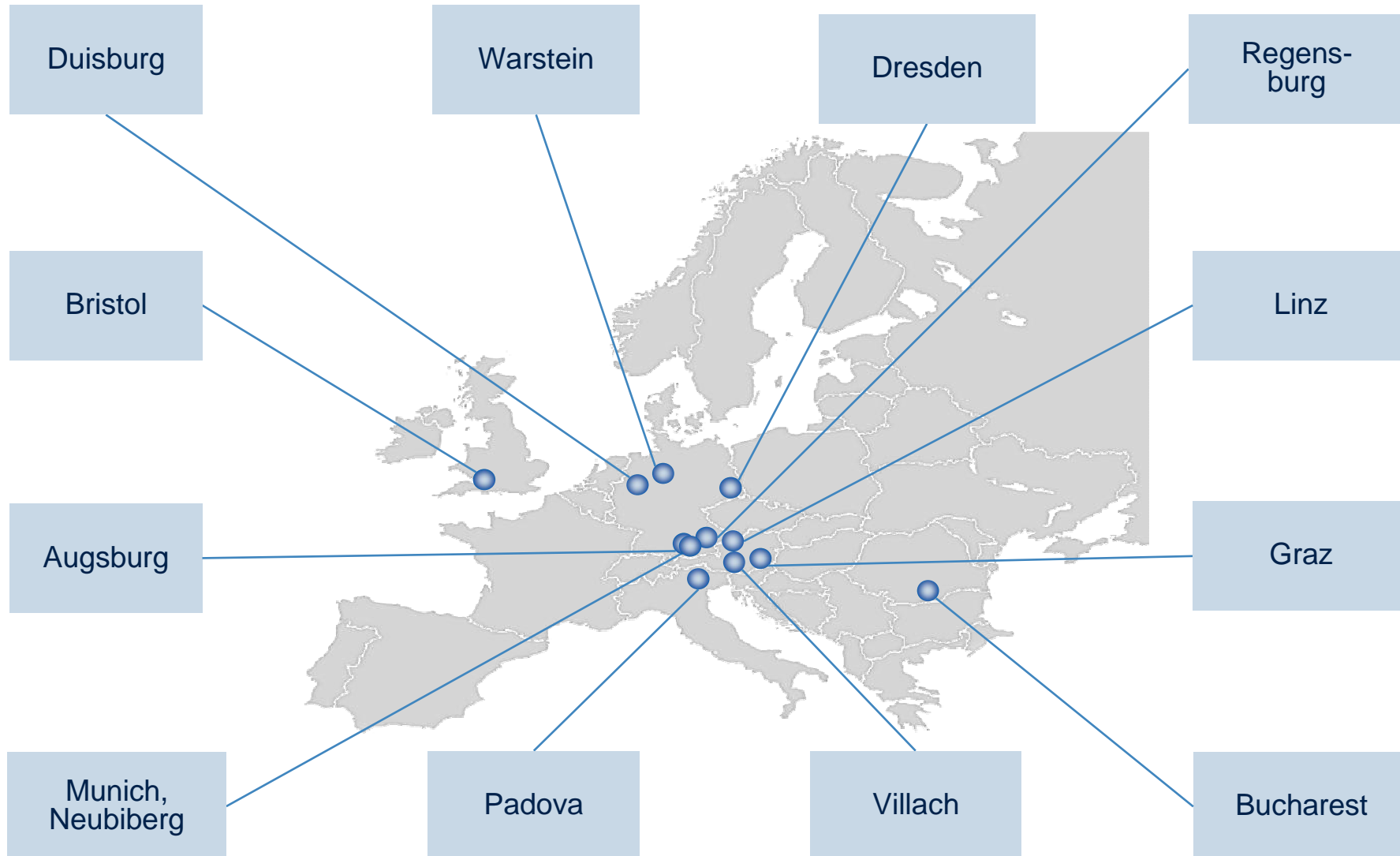
# Infineon: 26,654 Employees Worldwide



as of September 2010

Note: Employees worldwide with Wireless as discontinued operations; as of September 30, 2010

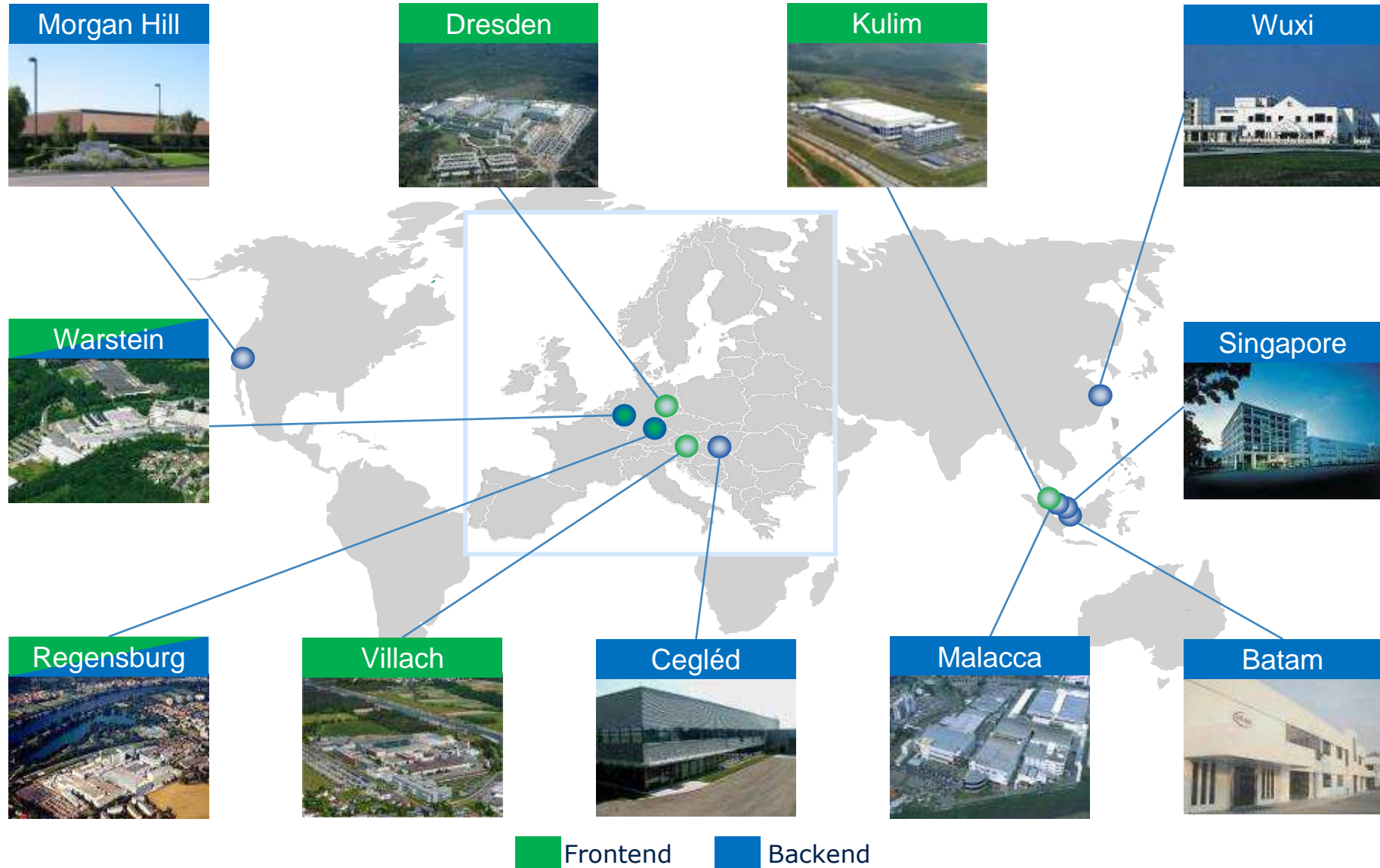
# Infineon – R&D Network in Europe



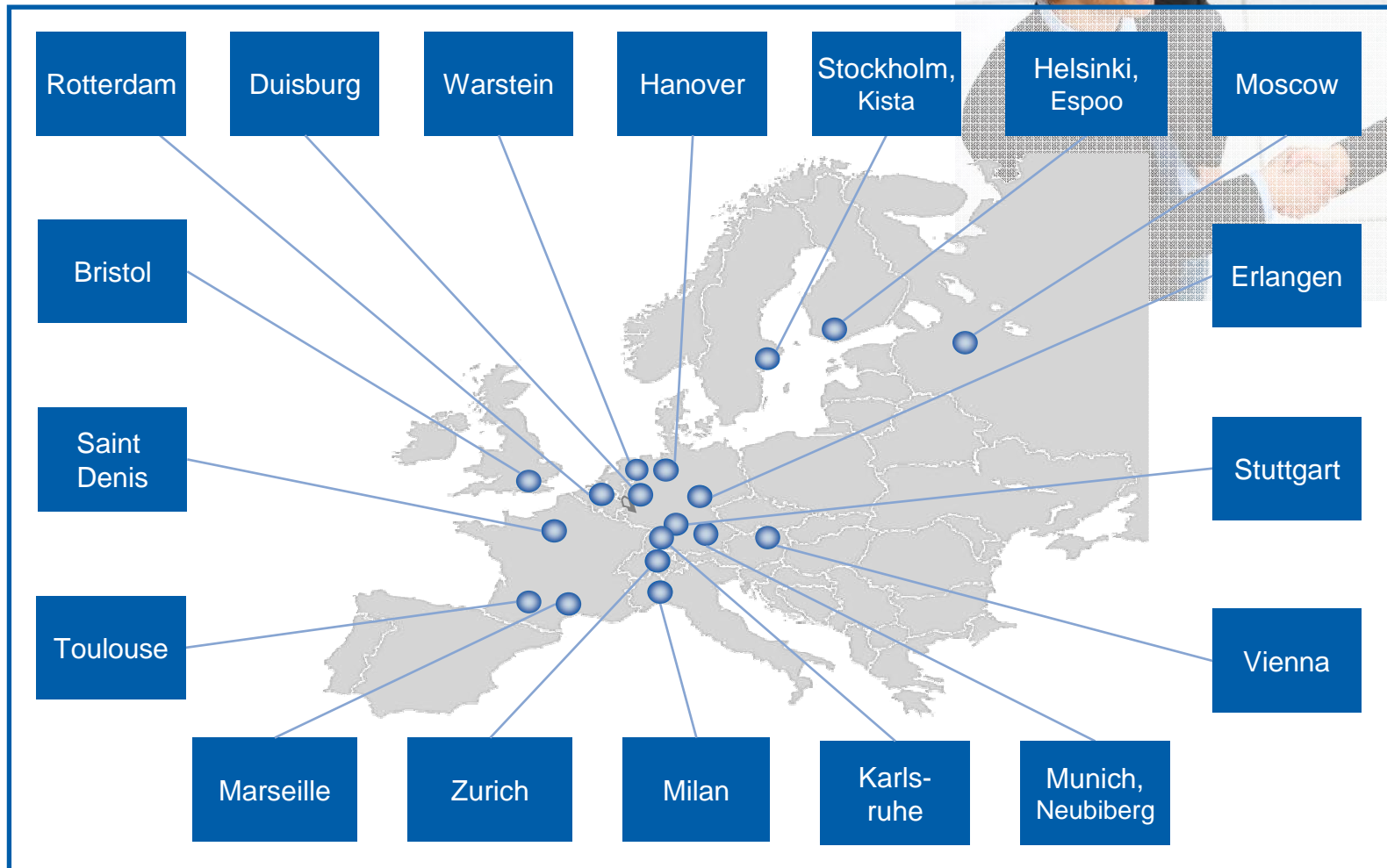
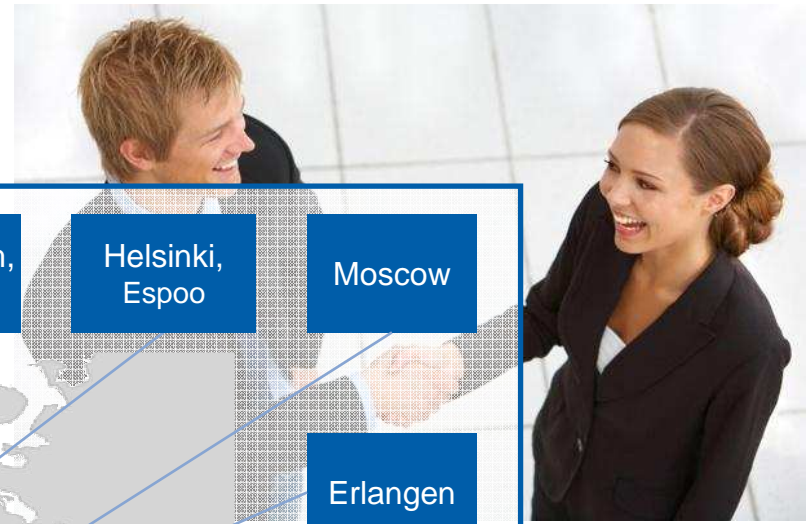
# Infineon – Worldwide R&D Network (Excluding Europe)



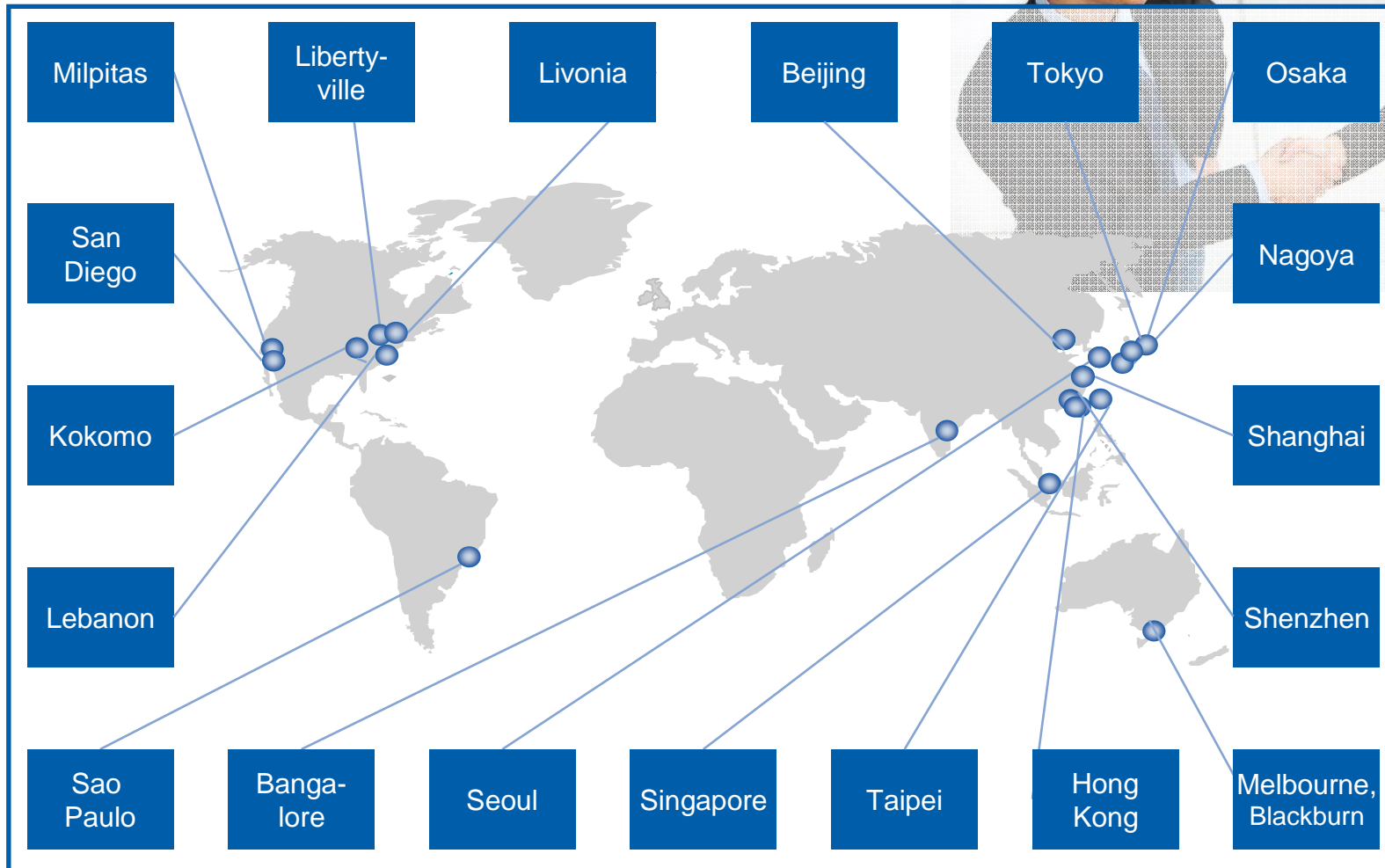
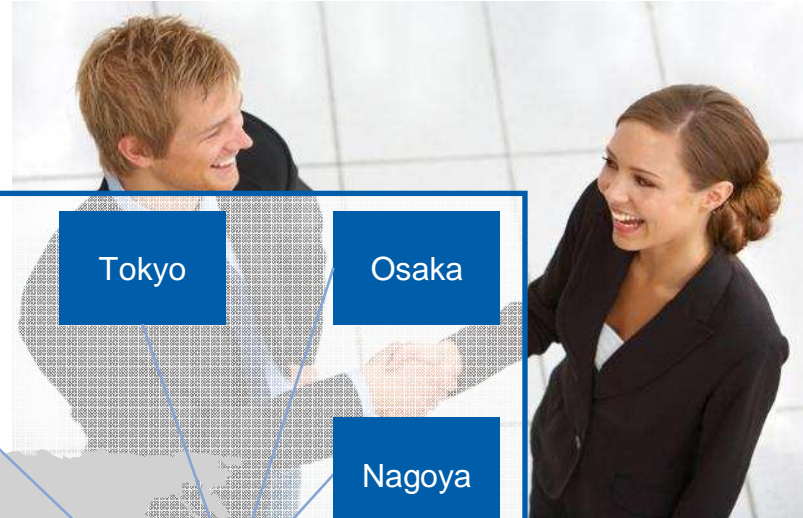
# Infineon – Worldwide Production Sites Frontend and Backend



# Infineon Sales Offices in Europe



# Infineon Sales Offices Worldwide (Excluding Europe)





# Sustainability For Human Beings and the Environment



**ISO 14001 / OHSAS  
18001 certification**

**Dow Jones  
Sustainability Indexes  
Member 2010/11**

**Voluntary agreements**

**Global Compact  
participant**

**Partnerships**

**Sustainability**

**Comprehensive and advanced  
concept at Infineon**

# Sustainability For Human Beings And The Environment



## IMPRES\*): Synergy between responsibility for humans & environment and economic success

### EN ISO 14001 and OHSAS 18001 multi-site certification



**Efficient resources management** for environmental protection, **high safety** and **health standards**


**Voluntary commitment** to reduce greenhouse gas emissions

**Intelligent concepts** for minimization of waste and emissions

**Responsible acting** accompanies our products and is part of our supply chain management

**For Infineon, responsibility and sustainability are more than just the fulfillment of legal requirements**

\*Infineon Integrated Management Program for Environment, Safety and Health



**We have one of the most advanced sustainability concepts in the world**

## Our Occupational Safety

- ... accident rate is benchmark compared to the German Institution for Statutory Accident Insurance and Prevention in the Energy, Textile and Electric Sectors – even our accident counting method is more strict.

## Our Products

- ... are enablers for energy efficient end-products and applications.
- ... are subject to an unique life-cycle analysis approach for the optimization of the environmental footprint.
- ... are drivers of green Product development.

## Our Manufacturing

- ... saved electricity equal to the annual consumption of a city with 1.5 Million inhabitants, (e. g. more than Munich has) or equal to one coal-fired power plant for more than 1.3 years.
- ... achieved our voluntary agreement to reduce Kyoto-Gases (PFC) three years earlier than the global target of our industry.
- ... is considered benchmark in terms of resources efficiency.

# Integrated Business Continuity Management





# ENERGY EFFICIENCY MOBILITY SECURITY

Innovative semiconductor solutions for energy efficiency, mobility and security.

