

**Infineon**

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**Dr. Wolfgang Ziebart**  
CEO Infineon



**Never stop thinking**



# Profitable Growth: Our Measures to Date

**New Strategic  
Positioning**

Carve-out and IPO of Qimonda;  
focus on Logic business

**Consolidation**

- Analysis of business segments
- Sales of fiber optics and optical networks
- Turn-around of promising segments

**Reorganization**

- Organization by Business Groups
- Decision-making time reduced, processes accelerated

**Smart Savings**

- Savings of more than EUR 300 million

## Infineon at a glance

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- Infineon Logic: Revenues of Euro 3 billion in the first nine months of fiscal year 2006
- Approx. 29,100 employees (incl. 5,400 R&D staff)
- Strong technology portfolio with about 22,800 patents and applications; more than 35 major R&D locations worldwide
- Focus on automotive and industrial electronics, security and chip cards, communication solutions
- Majority holding of Qimonda

# Market-oriented business structure

## Business Groups

## Applications

### AIM

Automotive,  
Industrial &  
Multimarket



**Car Electronics** (powertrain, safety management, body & convenience, infotainment),  
**Power control** (distributed power generation, automation / motor control, traction, power supplies),  
**Chip Card & Security** (communications payment, identification, entertainment)

### COM

Commu-  
nication  
Solutions



Mobile telephone systems for major standards (GSM, GPRS, EDGE, UMTS), cordless telephone systems for major standards (WDCT, DECT), RF connectivity solutions (Bluetooth, GPS, etc.), cellular base stations, traditional telecom and enterprise equipment, broadband access solutions for central office and customer premises equipment, home networking equipment (ADSL, VDSL, VoIP).

Customers

# Business Group AIM and its 7 Business Units

## Automotive, Industrial & Multimarket

### Automotive



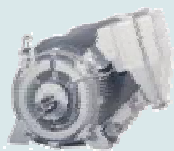
Microcontroller

Automotive Power

Sense & Control



### Industrial & Multimarket

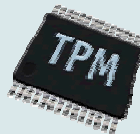


Power Management & Drive

Discrete Semiconductors



### Security & ASICs



ASIC, Design & Security

Chip Card & Security ICs





# Business Group Communication Solutions and its 7 Business Units

## Communication Solutions

### Mobile Phone Platforms



Feature Phones

Entry Phones

Mobile Software



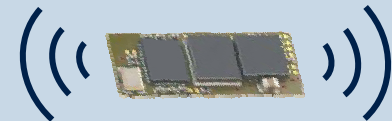
### RF Solutions



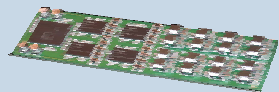
RF Engine

Tuner Systems

Connectivity



### Broadband



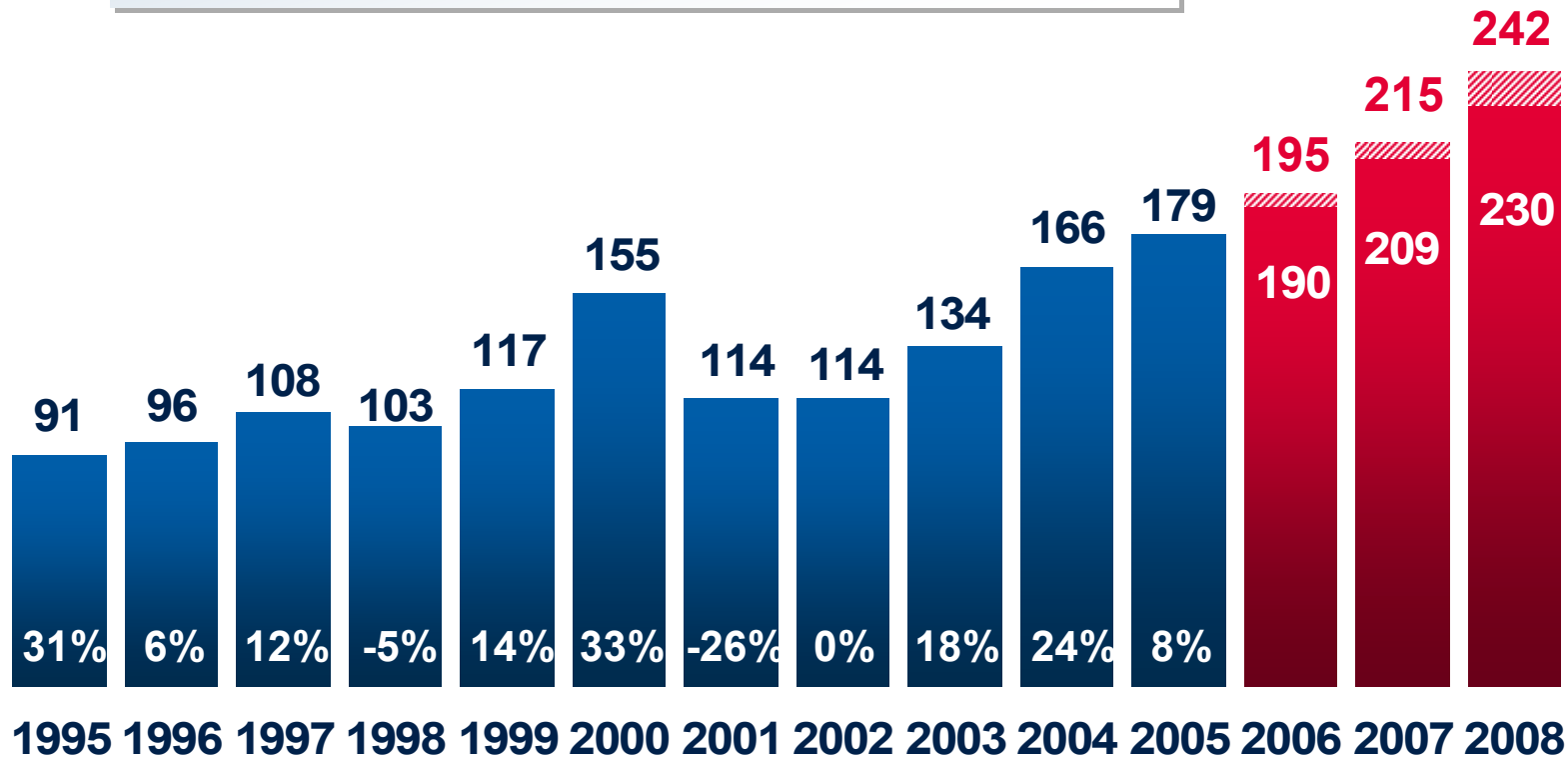
Access & CPE



# Semiconductor market development and forecasts for Logic\*

Forecasts**	2006	2007	2008
iSuppli	+ 6 %	+ 10 %	+ 10 %
Gartner	+ 9 %	+ 10 %	+ 13 %
WSTS	+ 9 %	+ 10 %	+ 13 %

[USD bn]



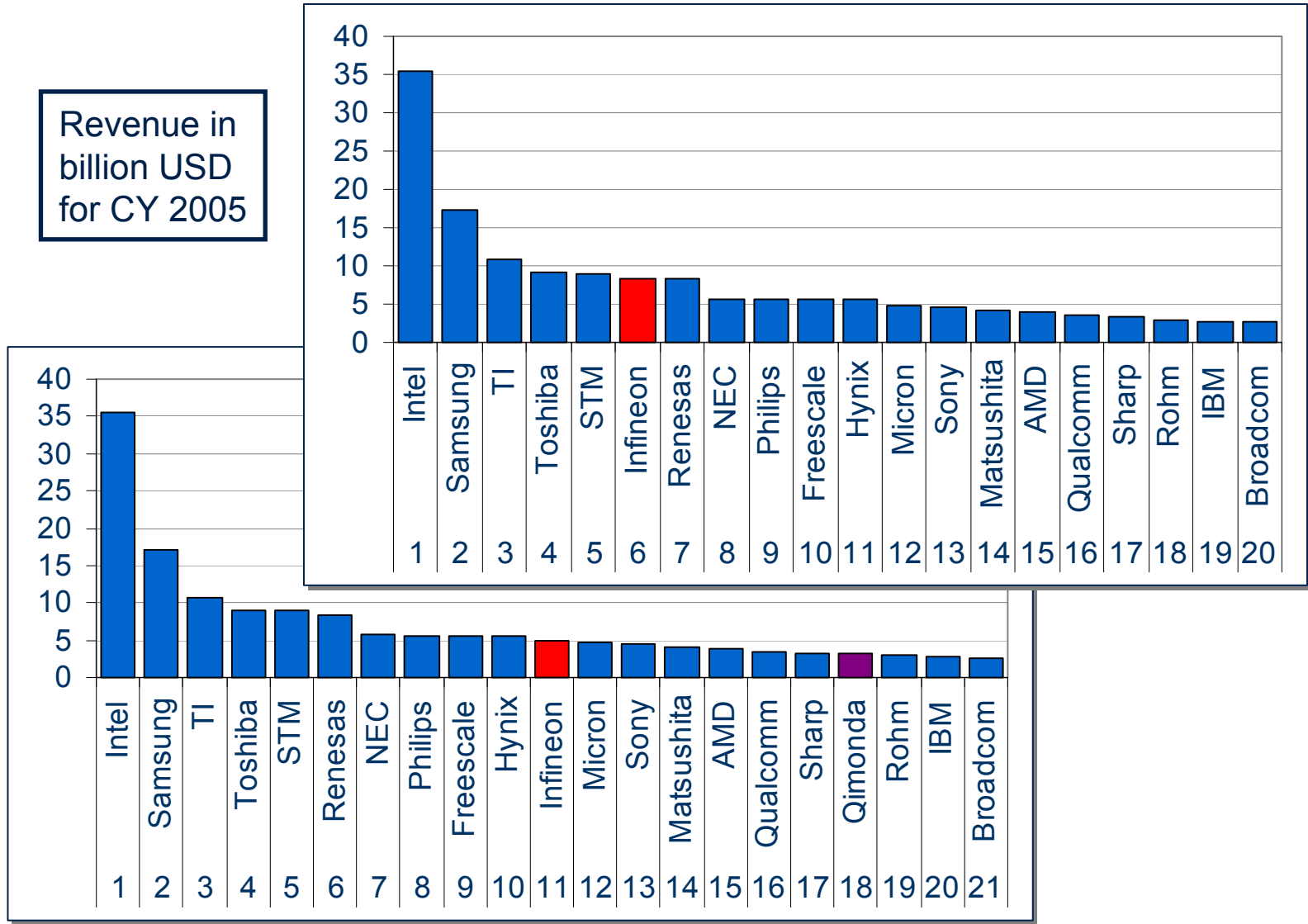
Source: WSTS for historical data

\* Total semiconductor market without memory

\*\* As of July 2006

# Ranking prior and after the carve-out of Qimonda

Revenue in billion USD for CY 2005



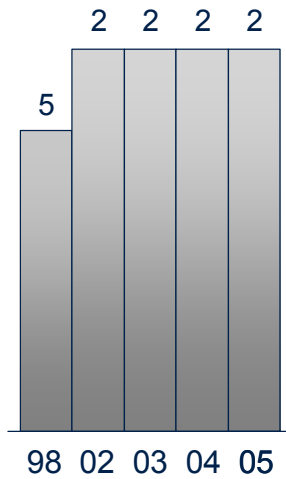
Source: iSuppli 2006





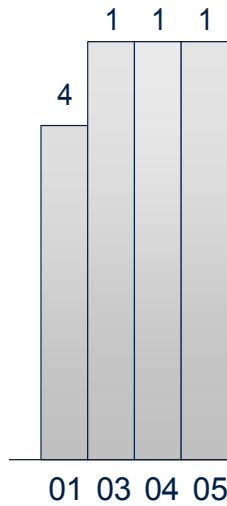
# Ranking in global target markets

## Automotive



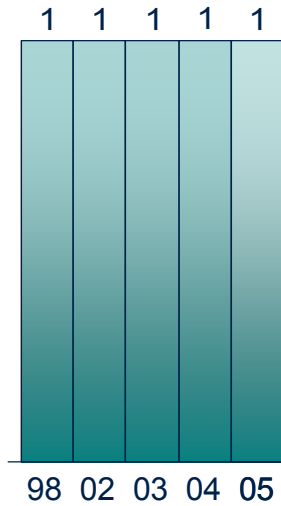
**Market Share\***  
**9.3%**  
 (Strategy Analytics 2006)

## Power



**Market Share\***  
**9.3%**  
 (IMS Research 2006)

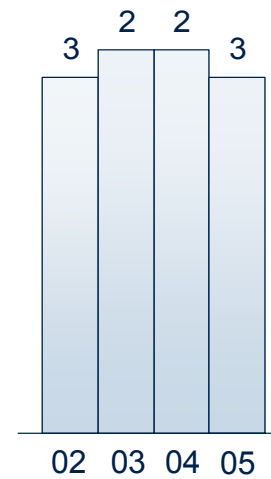
## Chipcard



**Market Share\***  
**35%**  
 (Frost & Sullivan 2006)

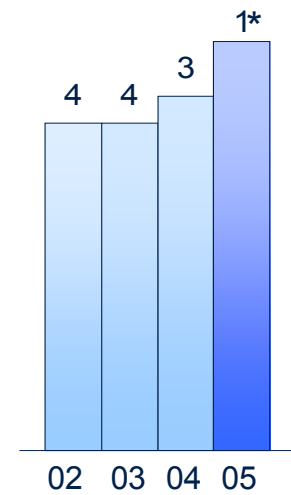
## Communication

### Wireless



**Market Share\***  
**6.7%**  
 (iSuppli 2006)

### Wireline



\*No. 1 in Wireline Access, 19% market share

**Market Share\***  
**19%**  
 (Gartner 2006)

\* Infineon share of total market

# Memory and Logic Business: Two different business models in one company

## Memory Business

### Process-centric Model

- Commodity Type Business Model – with Moore's law as key driver
- Process- and technology oriented innovation model
- Differentiation mainly derived from cost / price and service / logistics – less from products

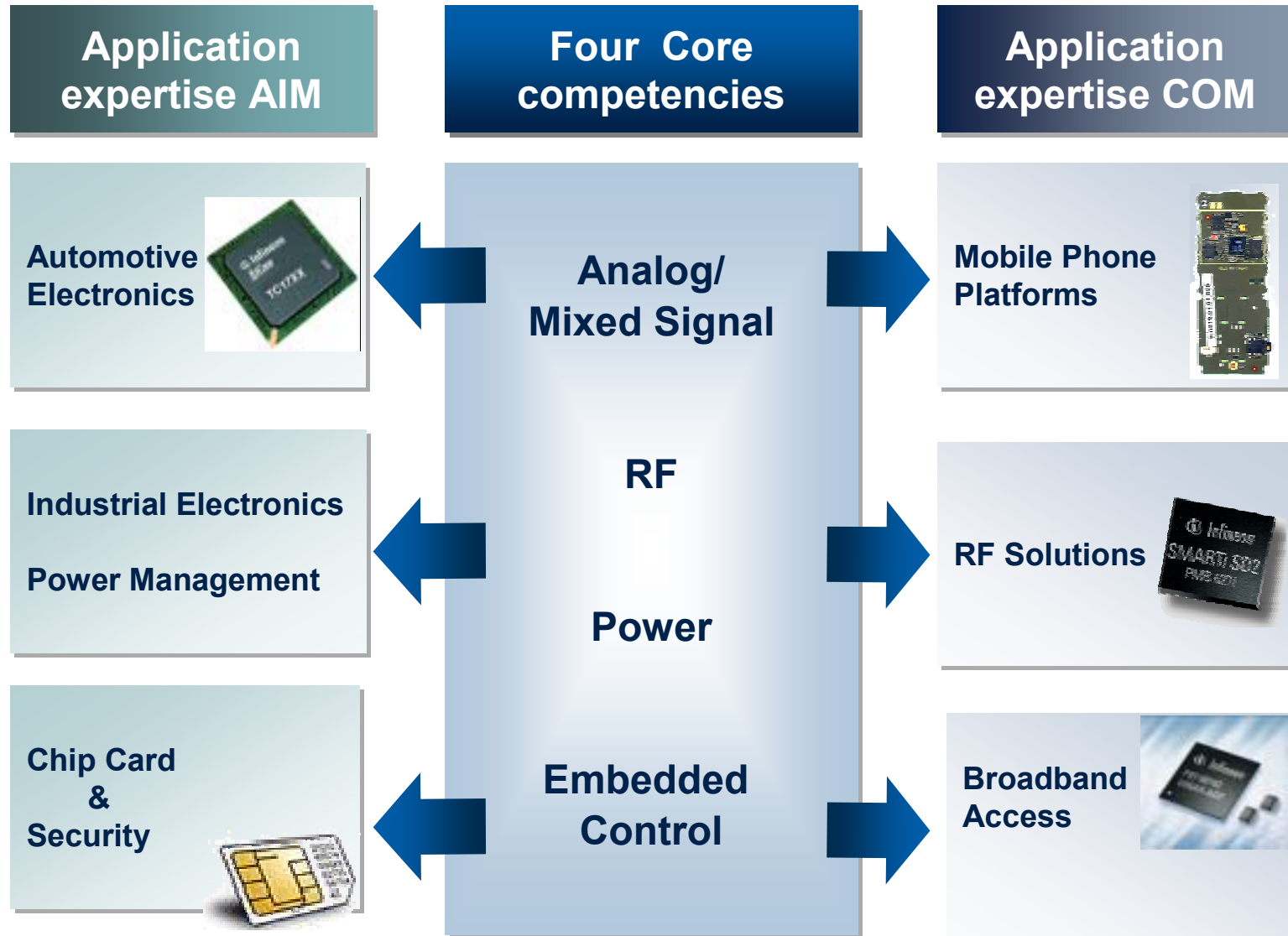


## Logic Business

### Customer-centric Model

- Differentiation by solving customer-specific problems
- Customer-centric innovation model
- Complex optimization of overall system performance and cost leads to competitive advantage

# Core competencies at Infineon



## Efficient energy management - major global trends



### Dwindling Resources Require Efficient Energy Management

- Dwindling energy resources combined with a rising demand for energy worldwide will force us to use energy wisely in our daily lives.
- Saving energy is therefore fast becoming a standard issue for all areas of public and private life, be it industrial, traffic or household applications.



### Higher Pollution, Emissions and Potential Damage to the Climate Require "Clean" Solutions

- Pollution as well as environmental and climate protection have become global concerns.
- Reducing pollution by minimizing energy consumption is fast becoming a standard requirement for all areas of public and private life, be it industrial, traffic or household applications.



### Infineon's Contribution to an Efficient Energy Management and the Effective Reduction of Pollution and Emission



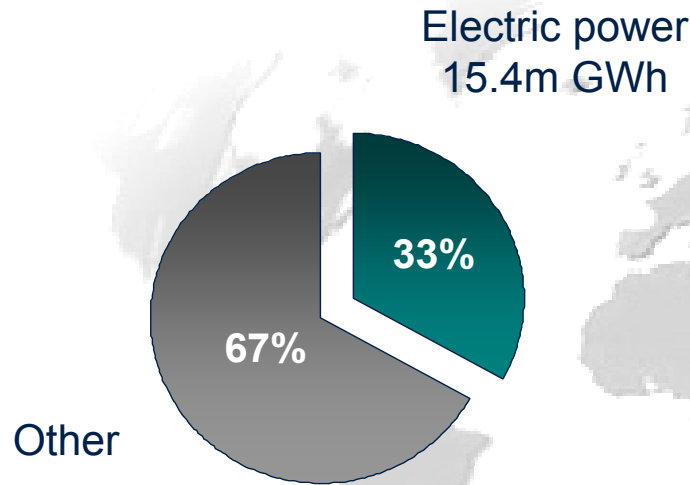
- Infineon delivers innovative high performance solutions with best-in-class technologies that help save energy and reduce pollution.
- Infineon's products are the basis for intelligent and optimal use of energy resources. Infineon helps to use the resources available as efficiently as possible.

# Global electricity consumption 2004: 15.4 million GWh

## USA and China are the biggest consumers

**1/3 of all energy consumed worldwide is electricity**

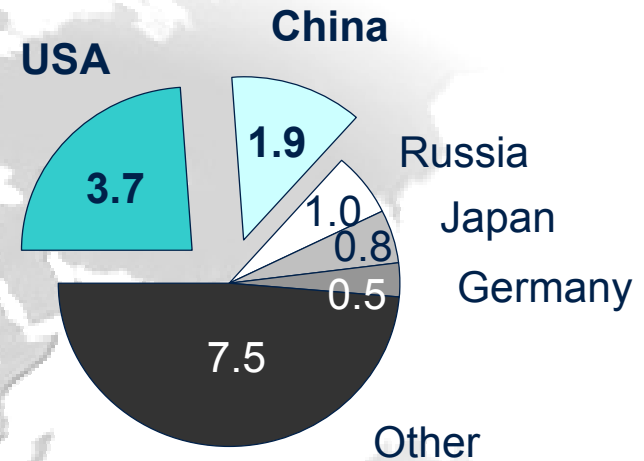
**Global energy consumption 2004**



**USA and China are the biggest consumers**

**Global electricity consumption 2004**

Total: 15.4m GWh



**The biggest power consumers by application**



Motors ~40%



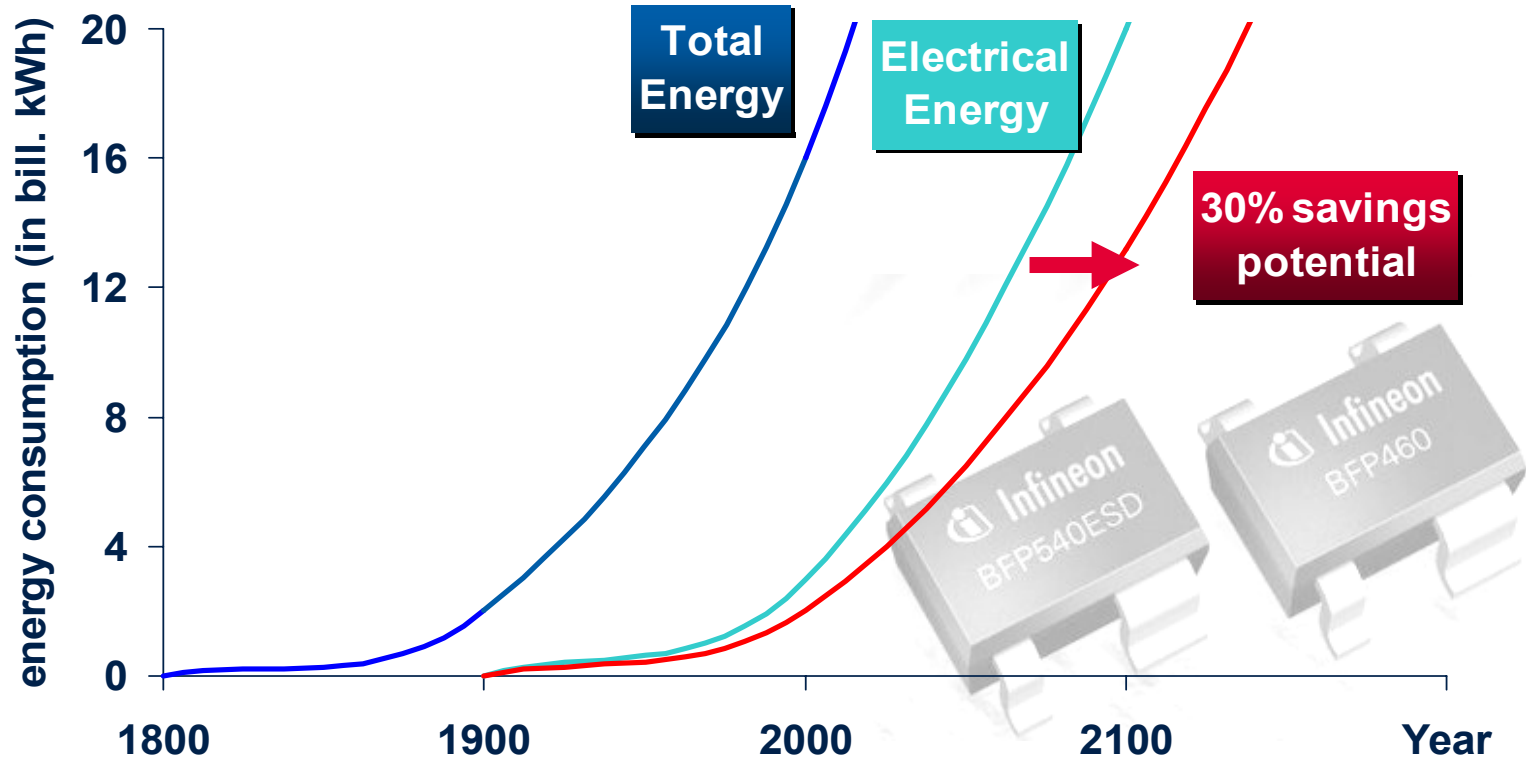
Lighting ~15%



Power supply ~6%\*



# Electricity Demand & Consumption: 25-30% Potential Savings



**According to several surveys  
using power electronics  
25-30% energy savings are possible**

25% savings from current electrical energy consumption equivalent of 250 power plants ww

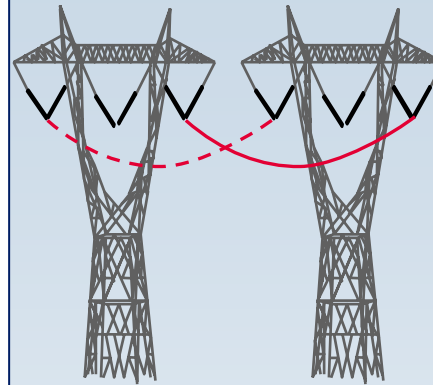


# Infineon supplies products for efficient energy management along the entire power supply chain

## Generation



## Transmission



DC Tower DC Tower



## Consumption

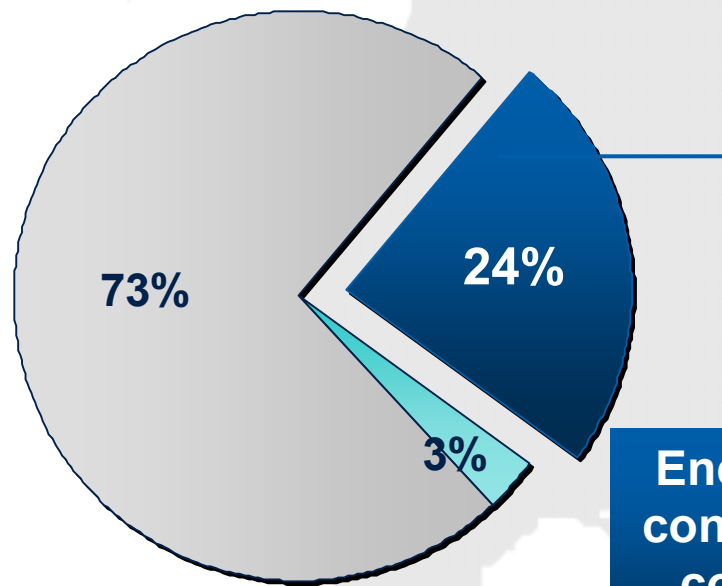


Never stop thinking

# Standby operation uses enormous amount of power in USA

**Total US electricity flowing through power supplies**

**207 billion kwh/year worth about \$17 billion/year at least 6% of US electricity use!**



■ Standby ■ Sleep ■ Active

**Energy loss reduction of 90% due to consequent use of standby efficiency controllers would result in ~3.7 bn US\$ cost savings in the USA**

Source: Chris Calwell and Travis Reeder, Ecos Consulting; Carrie Webber, LBNL at Power Supply Workshop PEC hosted by Pacific Gas & Electric (PG&E), the Environmental Protection Agency (EPA), Lawrence Berkeley National Laboratory (LBNL), and the Natural Resources Defense Council (NRDC), San Francisco, CA January 14, 2002.



# Broad portfolio of dedicated components for Hybrid Electric Vehicles offered by Infineon

## Motor Control Unit:

- Power supply
- Transceivers

## DC/AC Converter

- Driver IC's
- Power modules – IGBT's, diodes
- HAL-Sensors (position & current) Microcontroller (e.g. TC1766)
- Safety Micro (e.g. XC800)

## DC/DC Converter

- Microcontroller (e.g. XC164)
- Discretes - CoolMOSTM
- Driver IC's

## Battery Management:

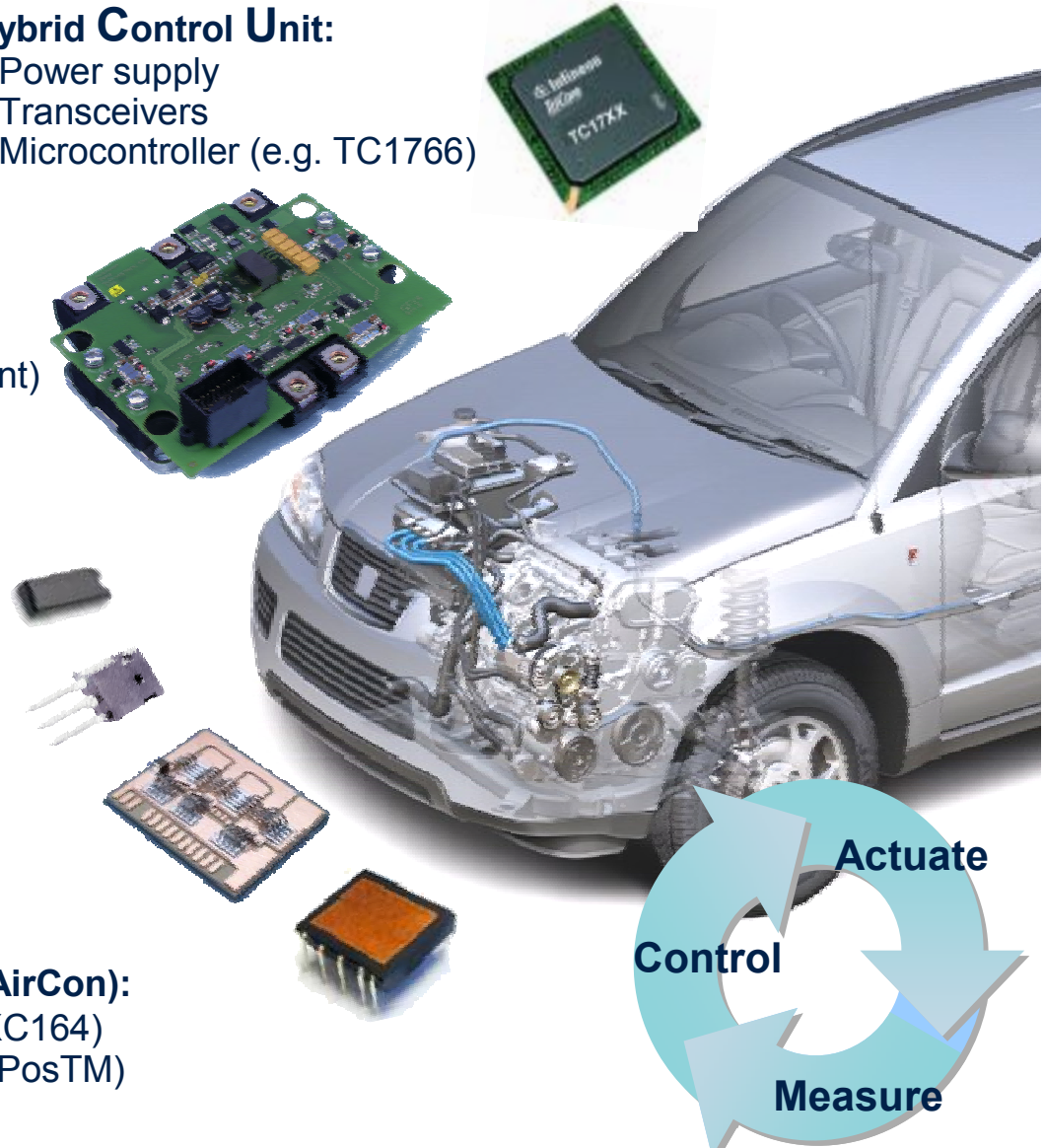
- Power supply
- Transceiver Microcontroller (e.g. XC164)
- Smart battery switch

## Auxiliary Drives (e.g. AirCon):

- Microcontroller (e.g. XC164)
- Power module (e.g. CiPosTM)

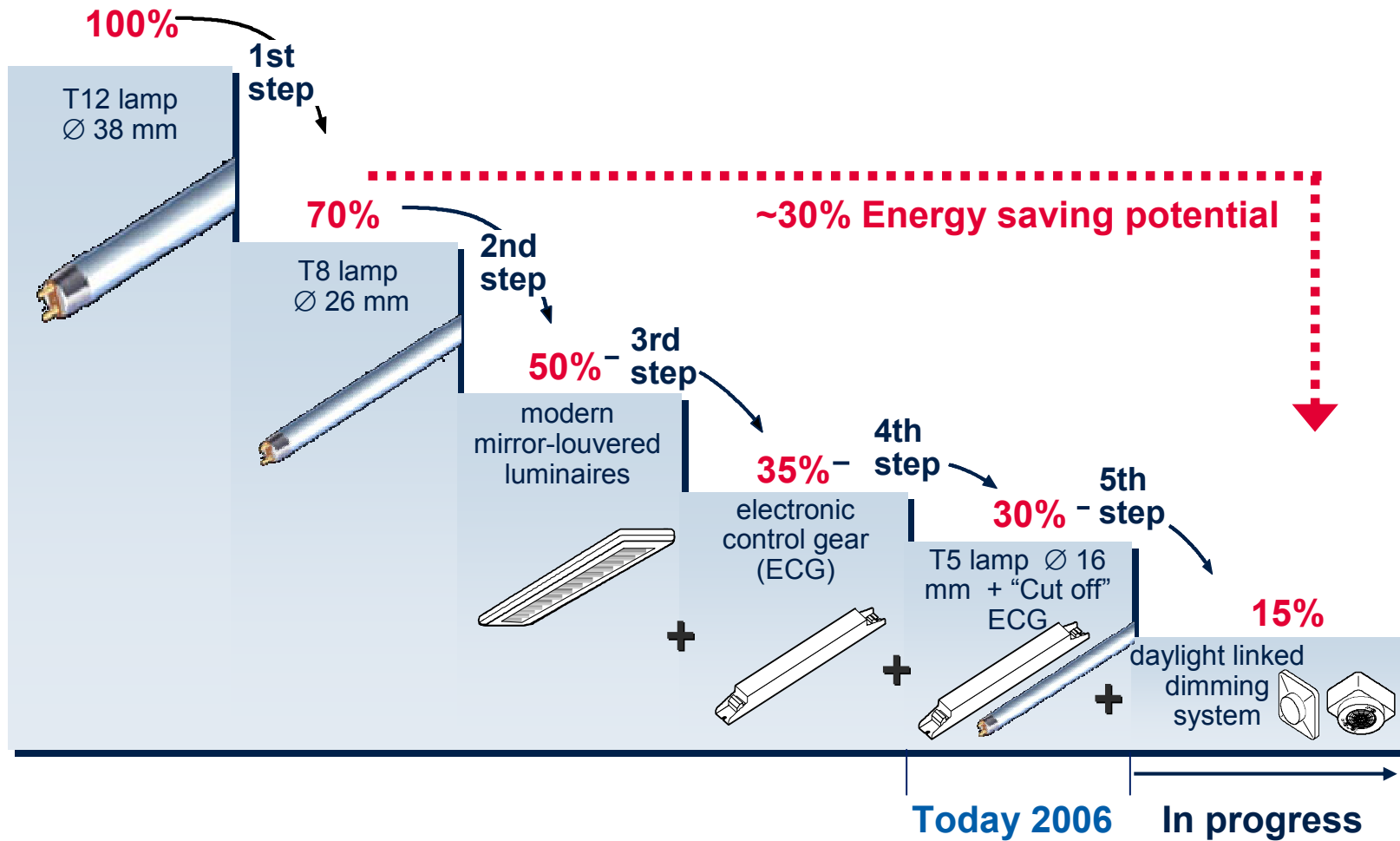
## Hybrid Control Unit:

- Power supply
- Transceivers
- Microcontroller (e.g. TC1766)

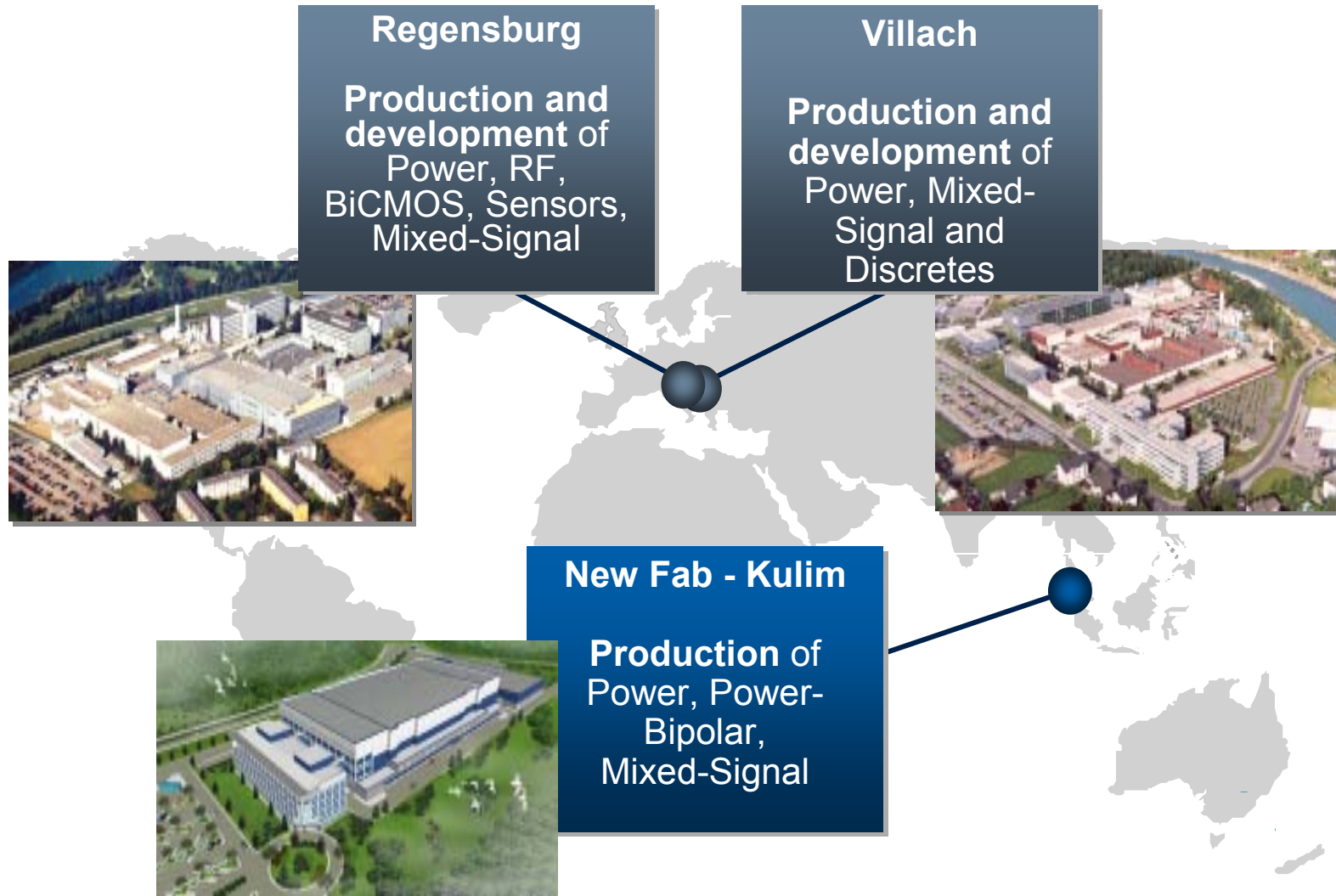


# Large reduction potential with new lamp types and ECGs - Saving potential in lighting applications

## Relative Energy consumption



# Infineon's power logic fab locations



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

# Infineon's first front-end fab in Asia is based in Kulim

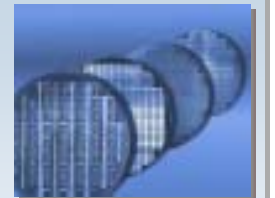
## Technology

- Power and Logic Chips used in Industrial and Automotive sectors



## Capacity & Facility

- Capacity of 100,000 Wafer Starts Per Month (WSPM) for 8" wafer
- 2 modules, each 5,000 m<sup>2</sup> Class 10 clean room with Class 1 Lithography
- Targeted 1,700 employees at full capacity (Approx. 70 % direct functions; approx. 30 percent engineers and admin)



## Site

- Kulim Hi-Tech Park, Kedah, Malaysia
- Size of landplot 260,000 m<sup>2</sup> (26 hectares)



## Investment

- Total investment of RM 3.8 billion (USD 1 billion)



## Timeline

- 8 Dec 2004 Announcement of Infineon's expansion in Kulim Hi-Tech Park
- 27 Jan 2005 Incorporation of Infineon Technologies (Kulim) Sdn Bhd
- Feb 2005 Groundbreaking at Kulim Hi-Tech Park
- 24 Aug 2005 Signing of Lease Agreement with Kulim Technology Park Corporation Bhd
- Feb 2006 Equipment move-in and start of transfer
- Aug 2006 Productive ramp-up



# Infineon: Energy, Mobility and Security

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## Automotive, Industrial & Multimarket

### **Energy efficiency**

Infineon provides solutions for the secure, energy-conscious use of different energies. In wind energy, solar or other power plants, in power transmission lines, in household power supply, in power supplies for kitchen appliances or other electrical equipment.

## Communication Solutions

### **Mobility & Connectivity**

Infineon provides solutions for all types of mobility. We make people, data and goods mobile. In mobile communications or broadband networks, in the car or in public transport: neatly hidden from view, chips from Infineon supply safe, energy-conscious mobility.

### **Safety & Security**

Infineon provides solutions for secure communications, for safe cars, for forgery-proof identity documents and for the safe utilization of all types of energy.

## Priorities for the Next 12 Months

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**Successful turn-around of the Chipcard Business Unit**

**Successful turn-around of the loss making COM Business Group**

**Stronger growth than the market in profitable areas and continued expansion of leading market positions**



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