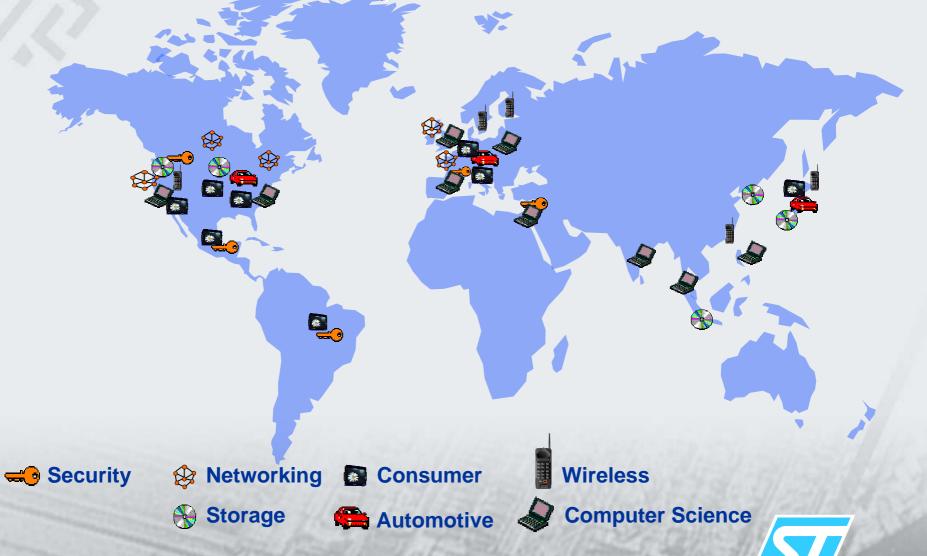
A European Perspective for Electronic Industry in Latin America



François Guibert

Corporate Vice President, Emerging Markets Region General Manager

Electronic, a Global World



Electronic a Wide Variety of Terminals





















Electronic is a key-industry for the wealth of nations

- Most other industries and all services will be unable to operate without electronic.
- Electronic generates more added-value than any other manufacturing industry.
- Electronic Industry controls three times more jobs than it generates.
- Electronic accounts for 30% of the fixed asset investments of the overall industries.
- In the next ten years, the Electronic Industry will continue growing more than two times the global world GDP.

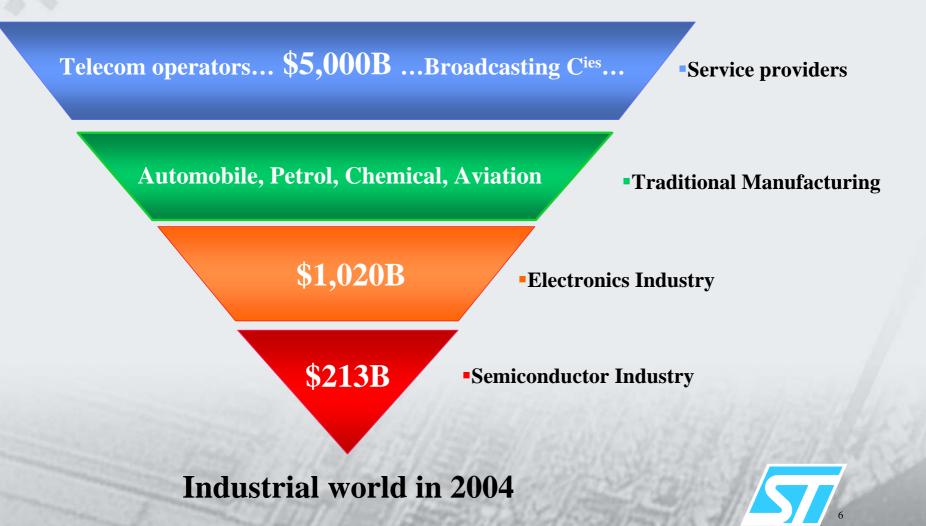


Electronic Industry worldwide represents (\$US):

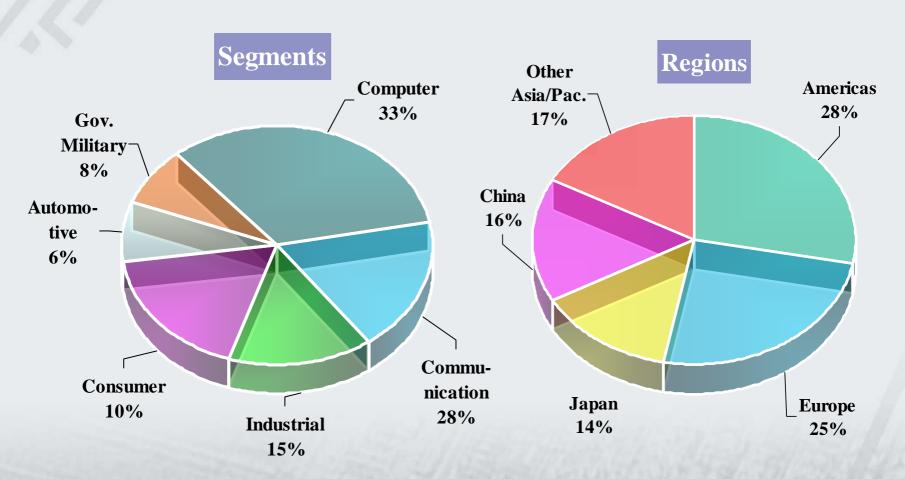
- 4.40 x Oil, Petrol & Minerals
- 2.75 x Chemical & Plastics
- 2.45 x Food, Beverage & Tobacco
- 2.44 x Transportation
- 2.20 x Electricity, Gas & water



Electronic is a key enabler of addedvalue and jobs for the whole industry



Electronic Industry profile in 2004

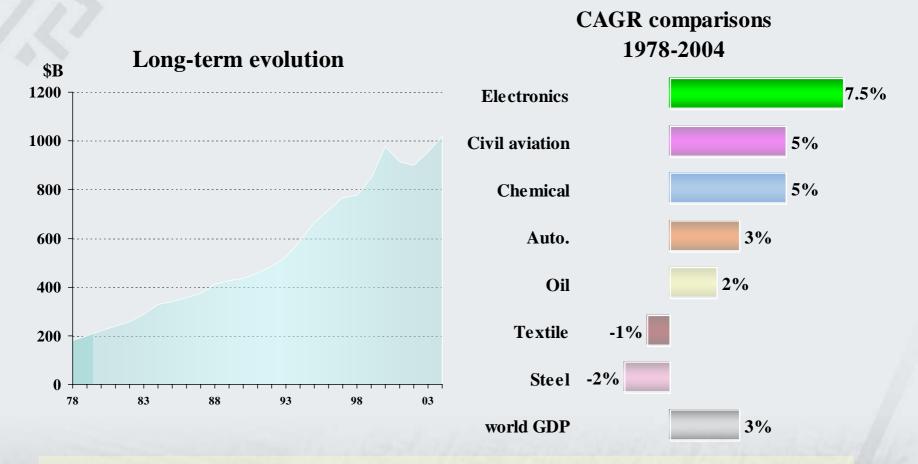


Total: \$1,020B

Source : IC Insights



Electronic Industry production growth



Electronic Industry is the fastest growing industry

Source : IC Insights, ST



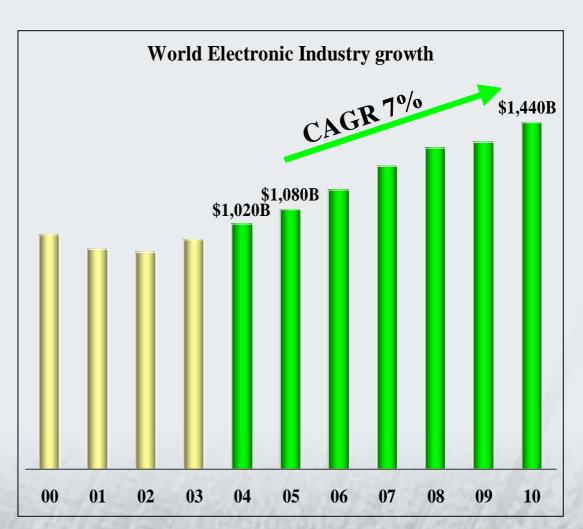
Electronic Industry trends

• Electronic industry growth is driven by:

Development of consumer applications through digitalization.

Development of new regions "BRIC": Brazil, Russia, India, and China.

 CAGR is 4 percentage points above the world GDP growth.





Electronic is a pillar for the industrial strategy of nations

Research Programs

Development and Innovation Programs

Infrastructure Programs

- Energy saving
 - ✓ photovoltaic
- Medical
 - ✓ electronic analysis
- •Etc...

- Buildings
 - √ energy control
 - ✓ security
 - √ access control
- Automotive
 - ✓ security

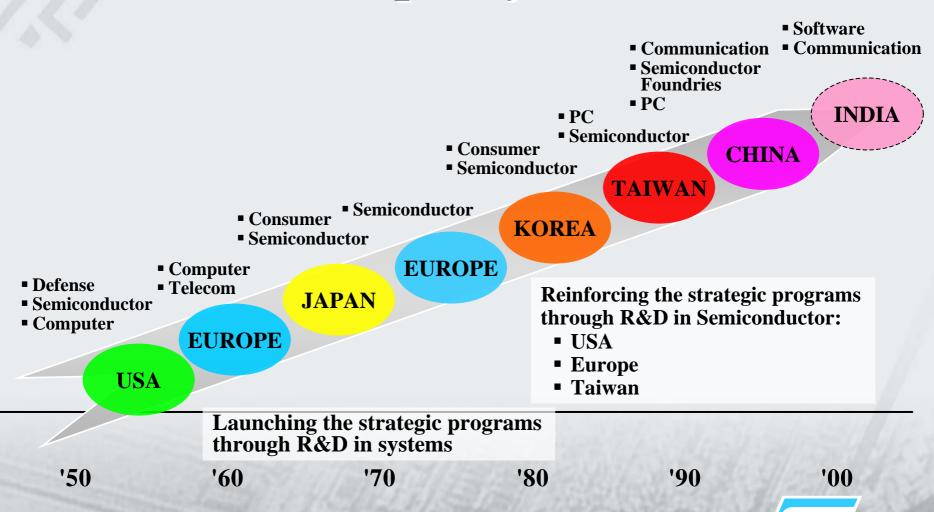
 and intelligence
 - √ hybrid vehicles
- Airplanes
 - ✓ automation
 - ✓ air control
- •Etc...

- City transit
 - ✓ automatic mass transport
- Security
 - ✓ Identity control
 - ✓ Network
- Transportation
 - √ fast train
 - ✓ containers follow-up
- •Etc...

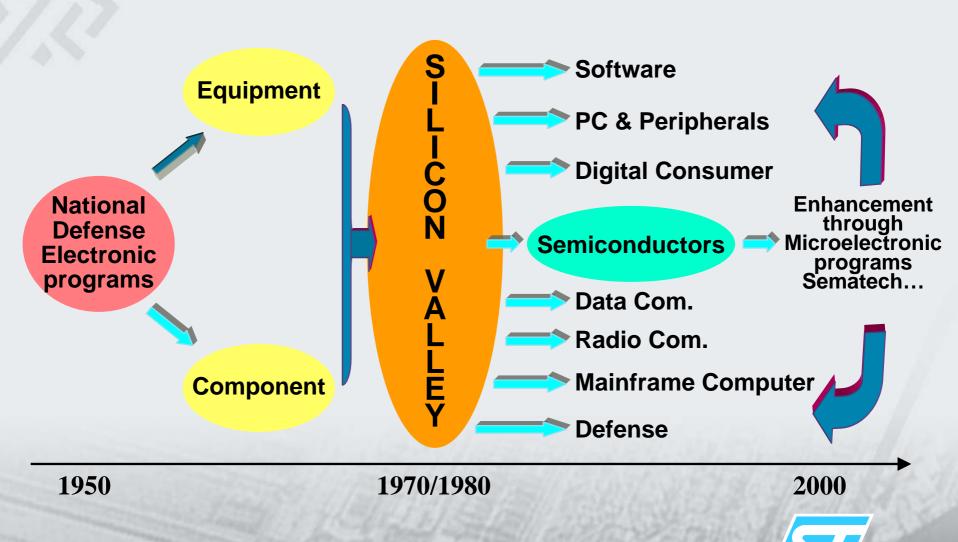
- Internet
 - √ high bit rate
- •TV high definition
- •Medical
 - ✓ electronic network
- •Etc...



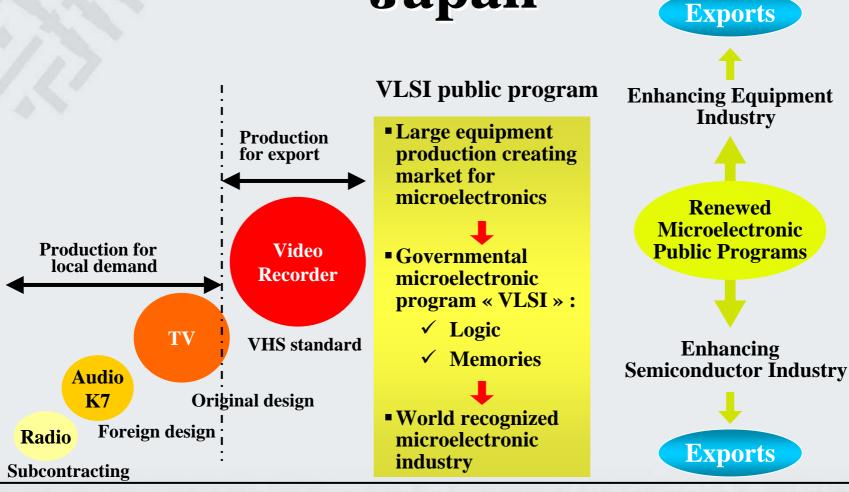
Electronic is at the center of the industrial policy of Nations



United States of America



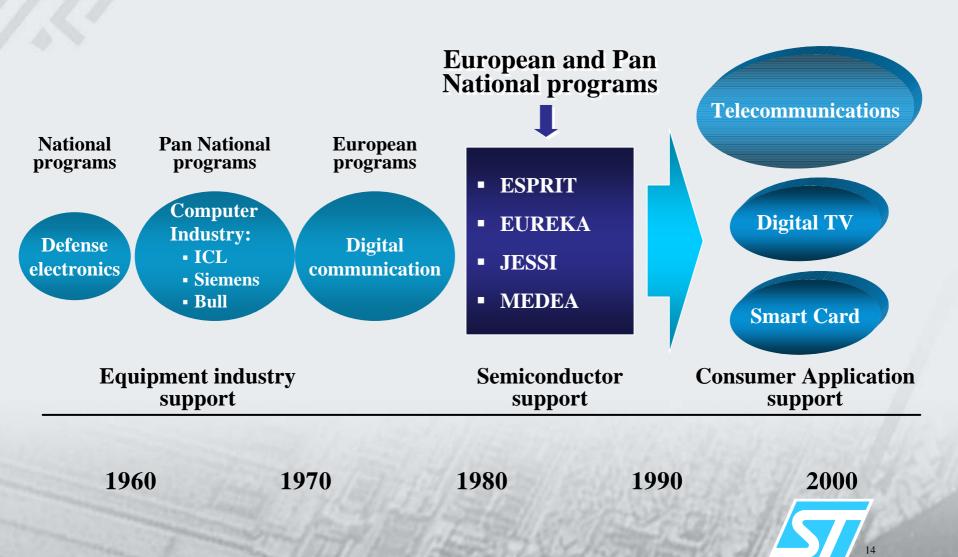
Japan



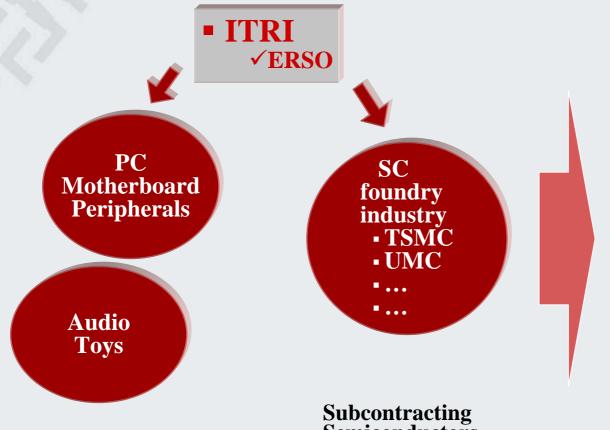
1960 1970 1980 1990 2000 2010



Europe



Taiwan



Diversified Electronic Leadership

- **✓ PC**
- **✓** Consumer

Becoming a Leading **Semiconductor Supplier**

Subcontracting Semiconductors

1990

Hsinchu (High Tech Park)

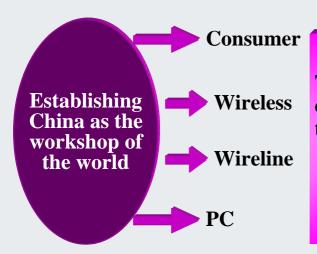
1980

Subcontracting Equipments

2000

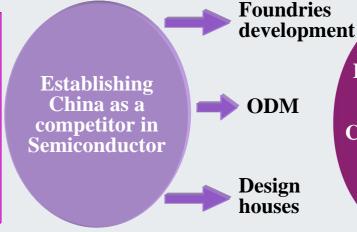
Peoples Republic of China





Thru foreign companies transplant:

- OEM
- EMS



Establishing
China as a
significant
Competitor in
Advanced
Electronic

Creation of areas of competencies

- Shenzhen/Hong Kong: *Consumer/PC*
- Shanghai: Semiconductors
- Beijing: *Telecom*

Mastering Electronic manufacturing science

2000 2010 2020

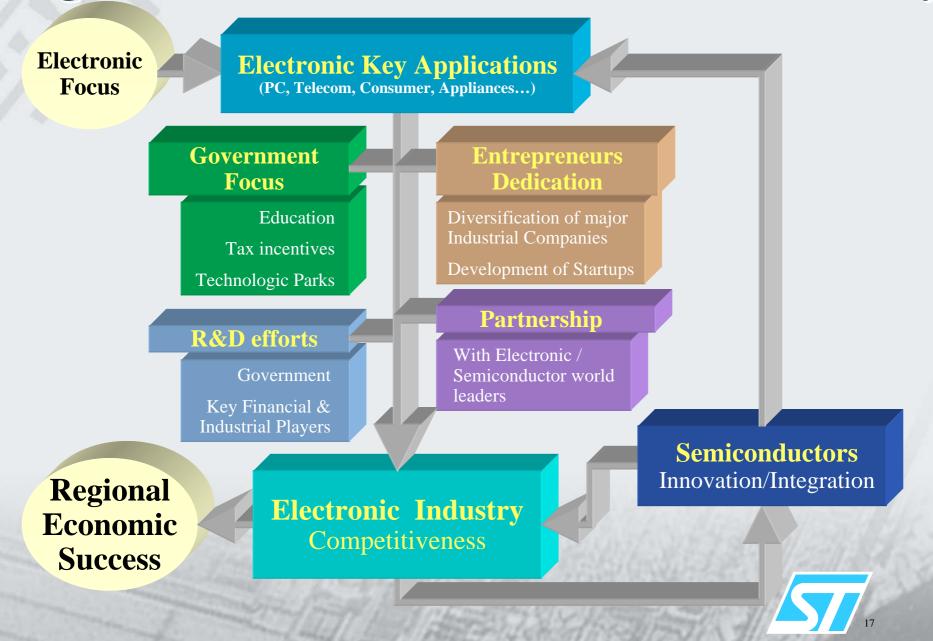
OEM (Original Equipment Manufacturers)

EMS (Equipment Manufacturer Services)

ODM (Original Design Manufacturers)



Ingredients for success in Electronic Industry



Why Europe is the partner of choice

Europe has reached leading position in many keyapplications :

```
Telecommunication (in particular Mobile Phone...)

Digital consumer (SetTopBox...)

Smart Card (telecom, banking, security...)

Automotive (electronic, security...)

Semiconductors (STMicroelectronics, Infineon, Philips...)
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Solid member of the top 10 semiconductor suppliers, key contributor to the European Electronic success and having a strong historical culture of cooperation, **STMicroelectronics** is ready to contribute to Latin America Electronic Industry Development.



Opportunities for Latin America in Electronic

Present Situation

- Market Potential
 - **✓** Regional (around 550M inhabitants)
 - **✓** Worldwide Export opportunities
- Stable and High Growth Economic Prospect
- Available Industry Structure with access to External Technical Cooperation
- Possible Partnership with Key Local Entrepreneurs
- Engineering Educational System

Possible drivers

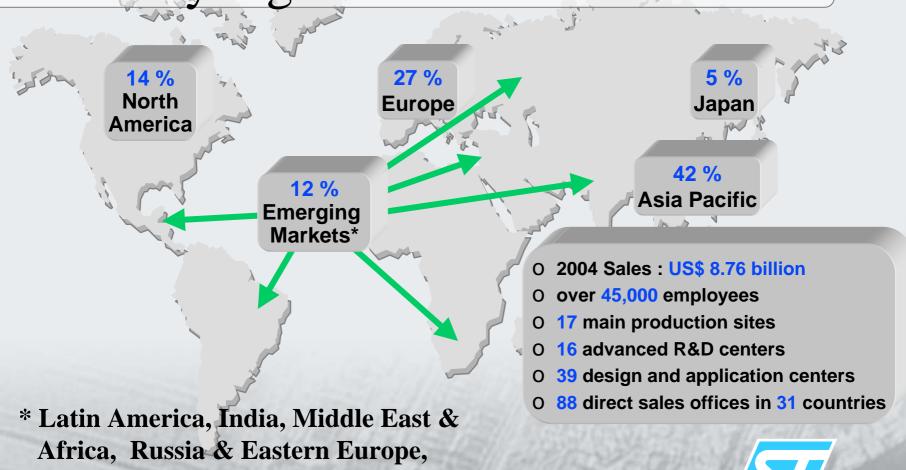
- Digital Set Top Box / HDTV
- Smart Cards
- White Goods (appliances)
- Electronic Meters



STMicroelectronics

a global semiconductor company

Sales by region as % of 2004 sales



Global manufacturing

infrastructure



STMicroelectronics Strategy focusing on Key Programs and Product Lines



- Wireless broadband
 - handsets3G PlatformNomadik
- Wireless LAN
- Wireline broadband
- ComputerPeripheralsStorage & Printing
- Automotive



- Set-Top Boxes
- DVDs
- Digital TVs
 - Shared Platform
- Imaging
- Microcontrollers



- NOR Flash
- NAND Flash

Memory cards

Smartcards



- Discretes
- MOSFET
- VIPower



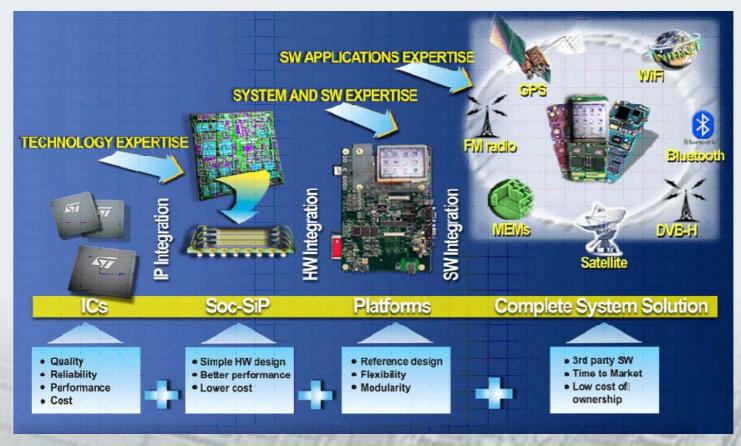
STMicroelectronics Contribution Multiple Product Offerings

From

System-on-Chip System-above-Chip System-in-Package



To PLATFORM SOLUTIONS





« No advanced industrial society can exist without controlled access to an advanced electronics industry, which in turn cannot exist without controlled access to an advanced semiconductor industry »

Pasquale Pistorio

(Honorary Chairman)

