

# ST MEMS characterization

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March 11th, 2014





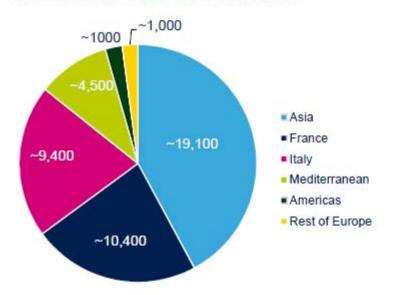
- A global semiconductor leader
- The largest European semiconductor company
- 2013 revenues of \$8.08B
- Approx. 45,000 employees worldwide
- Approx. 9,000 people working in R&D
- 12 manufacturing sites
- Listed on New York Stock Exchange, Euronext Paris and Borsa Italiana, Milano





## People are our Foundation...

#### Present in over 35 countries



Manufacturing	~ 65%	
Research & Development	~ 20%	
Marketing & Sales, Divisional Functions, Administration & General services	~ 15%	

...working everyday to increase the quality and experience of life for all





### Flexible and Independent Manufacturing



technology R&D centers around the world Approx. 9,000 people working in R&D and product design

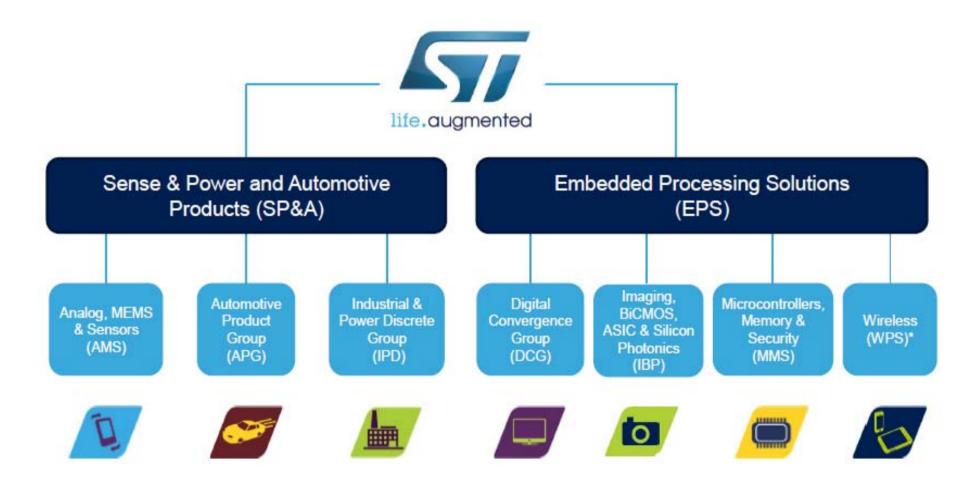


#### Partners with our Customers worldwide





# **Product Segments**



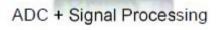


#### WHAT'S MEMS?

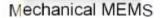
- MEMS = Micro Electrical Mechanical System
- MEMS uses mechanical structures in standard integrated circuit technology to create additional functionalities
- Movement of mechanical parts is detected by changes in capacitance/resistance

MEMS component is always a set of MEMS sensor + ASIC for

processing the signal

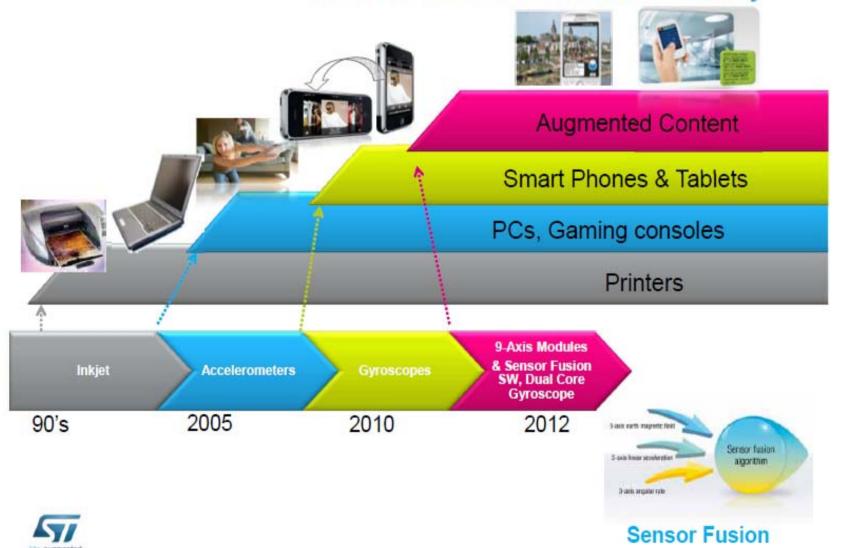








#### MEMS in ST: A Success Story



# Characterization team tasks

Lab development		Product development		Q&R support		Marketing support	
Hardware	Software	ASIC Debug	Standard Measurement			customer pling	
New equipment spec def.	Bench test program design and implement ation	•	-driven rement	• •		Preparing report to customer	
Designing and realizing HW for new equipment		Support in automatic test program development and certification		Support to reliability team with exotic setup		Support to Application Team with setup/measurements using app board	
					Q&R in data ring ramp-up		





