World Electronic Industries
Forecast 2012 – 2017

« Les opportunités pour l'Europe »

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Consultant

Journée technique:
Electronique de puissance
Enjeux et solutions innovantes d'un marché en plein essor
Saint-Nazaire, 12 juin 2014

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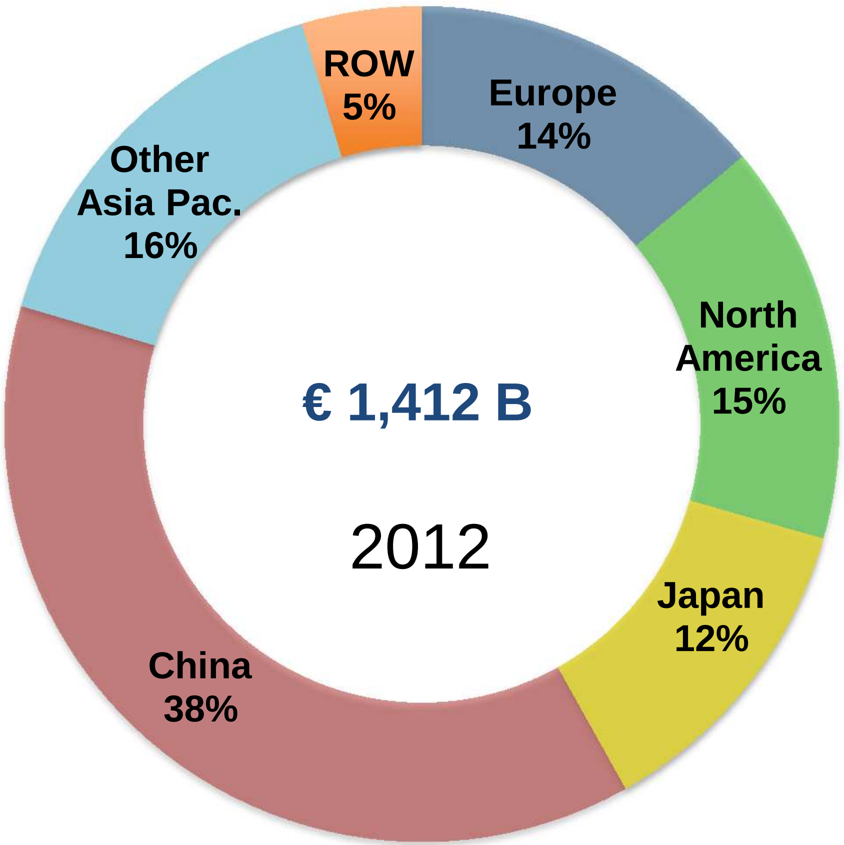
Electronic equipment production by region in 2012



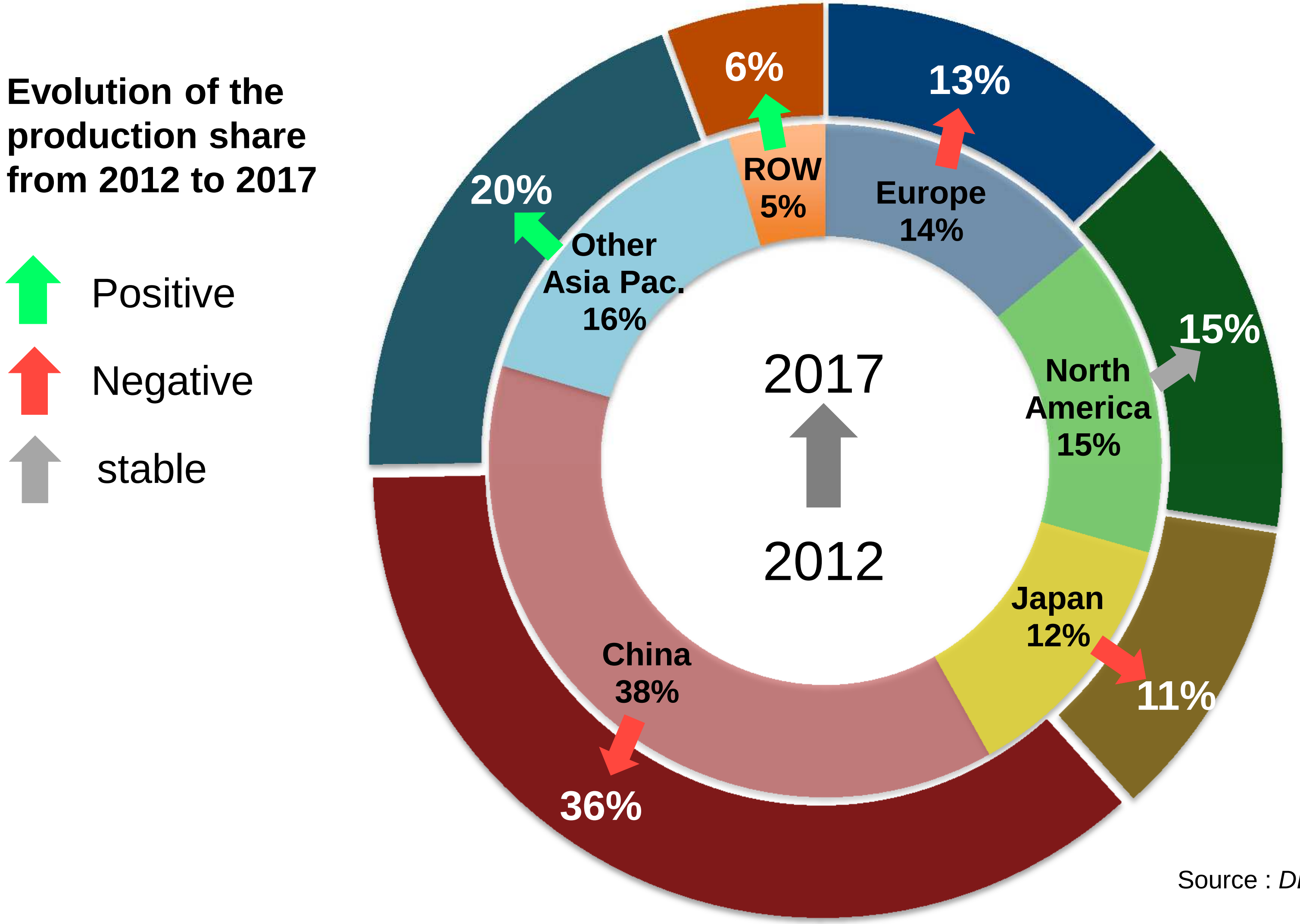
The picture has been rapidly changing since the beginning of the decade:

- Production in Europe became smaller than in N.A. because of the decline of its telecom industry (both infra and handsets).
- Japanese leadership in consumer is challenged by new competitors.
- China gained 5 percentage points in 2 years thanks to huge volume of mass-market electonic goods and low production costs…
- … but 2012 could mark the end of the relentless Chinese growth.
- Only other emerging regions will gain production share in the mid term.

Source : *DECISION*

Electronic equipment production trends by region

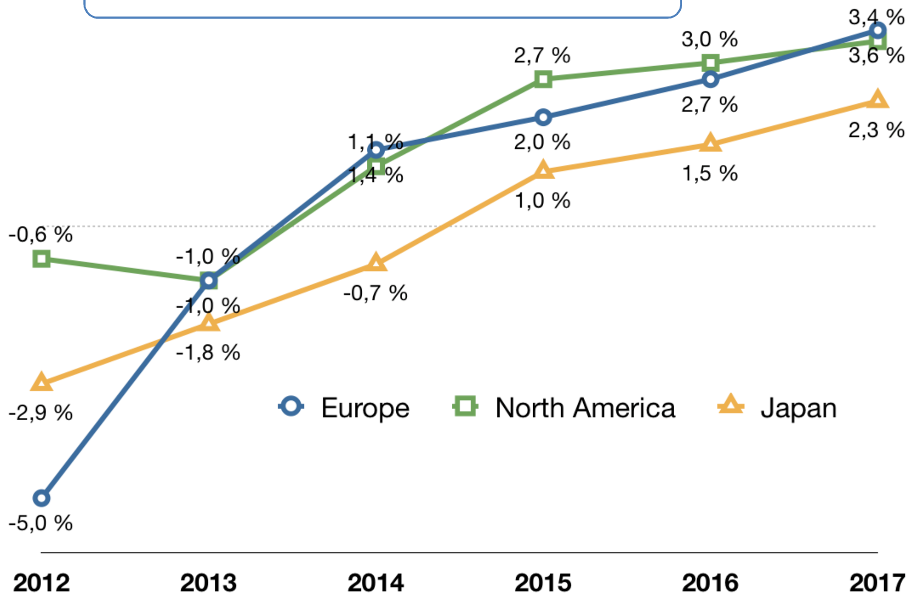
Evolution of the production share from 2012 to 2017



Source : *DECISION*

Mature economies vs. Developing economies

Mature economies

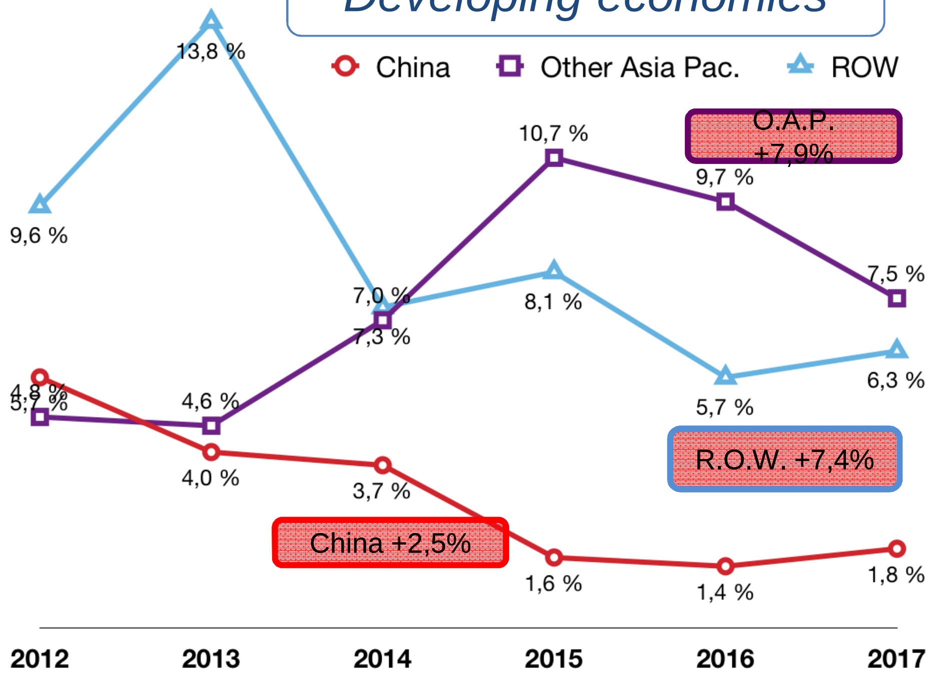


North America +1,9%

Europe +1,7%

Japan +0,5%

Developing economies



Growth of the World electronics production in 2012 and 2013: +2,2%.

Untill 2017, close to the growth of the world GDP

CAGR 2012 - 2017
Worldwide
+3,2%

Source : *DECISION*

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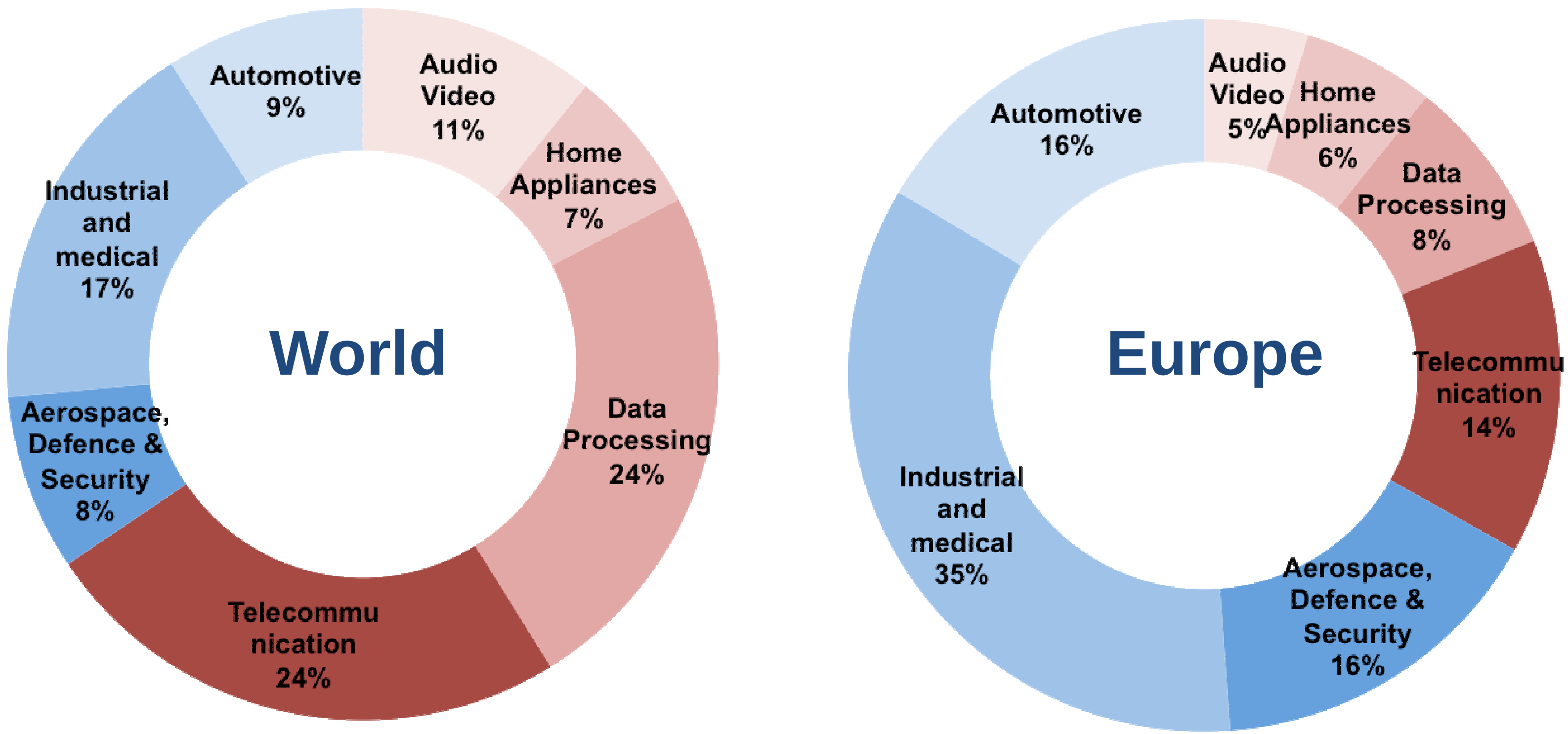
Regional specialisation of the electronics industry

Electronic Production in 2012



€ 1,412 B | **€ 197 B**

Source : *DECISION*

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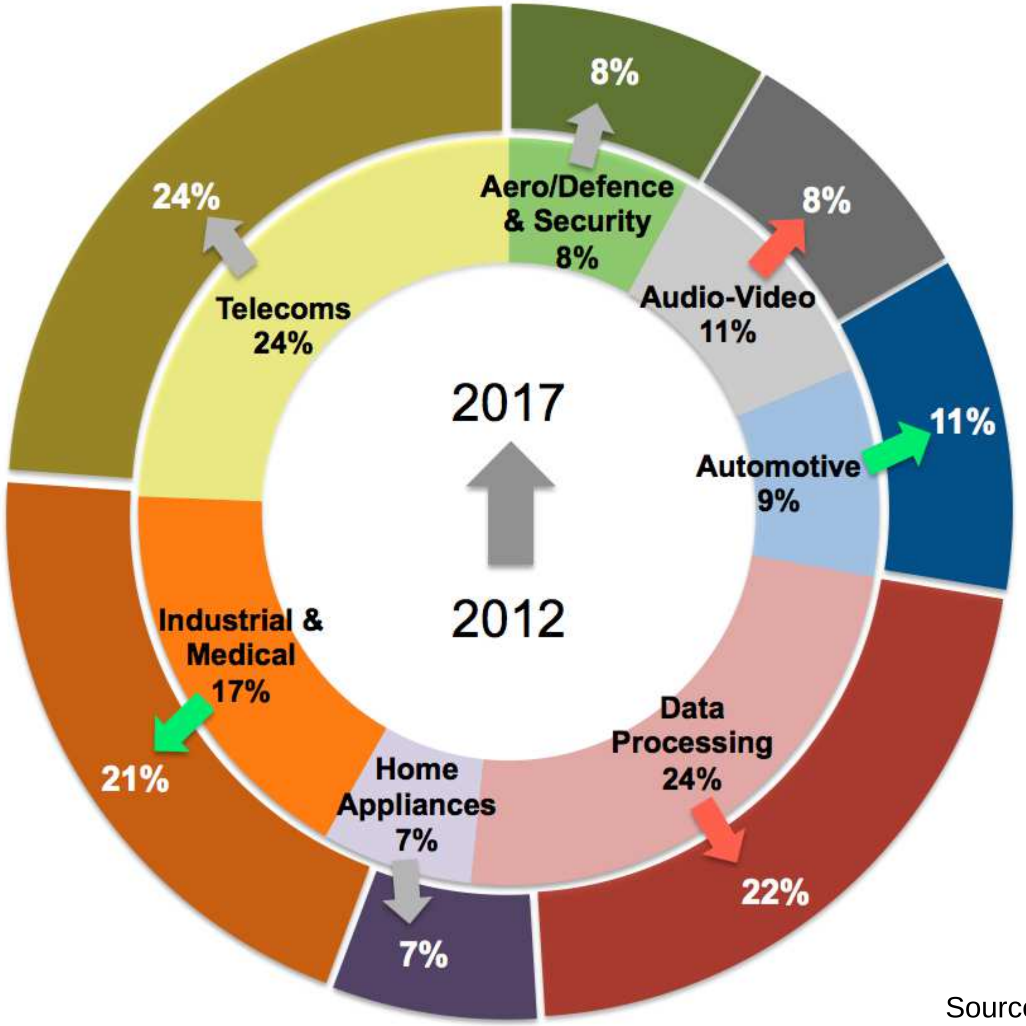
Worldwide electronic equipment production
Trends by sector

Evolution of the production share from 2012 to 2017

Positive

Negative

stable



Source : *DECISION*

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Growth by sector
A chance for Europe? Yes!

Annual Growth of the World Electronic Production

	2012	2013	2014	*CAGR 2012-2017*
Audio & Video	-8,7%	-1,0%	-4,3%	-2,0%
Home Appliances	6,4%	3,5%	3,5%	3,5%
Data Processing	2,5%	-0,3%	3,2%	1,1%
Telecommunication	5,2%	3,5%	2,1%	2,8%
Aerospace Defence & Security	1,7%	2,6%	3,0%	4,3%
Industrial & Medical	2,6%	3,5%	7,8%	6,5%
Automotive	4,9%	5,0%	6,1%	7,0%
TOTAL	**2,2%**	**2,2%**	**3,2%**	**3,2%**

Source : *DECISION*

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What are the electronic sectors driving the European production ?

Sector	Share in 2012	CAGR 2012 - 2017	Share in 2017
Total Europe	*197 B€*	***+ 1,7%***	*215 B€*
Automation	19,8%	**+ 4,9%**	23,1%
Automotive	16,4%	**+ 3,6%**	18,0%
Power Electronics	4,7%	**+ 6,4%**	5,8%
Aerospace	4,5%	**+ 6,9%**	5,8%
Medical	4,8%	**+ 4,4%**	5,4%
Security	2,9%	**+ 4,3%**	3,3%
Transportation	1,4%	**+ 3,2%**	1,5%
Smart Cards	1,1%	**+ 6,7%**	1,5%
=> Aggregated	55,6%	**+ 4,8%**	64,3%

Source : *DECISION*

An exemple of “pervasion”: Towards the More Electric Aircraft

- Similar to the automotive challenge: More Electric Aircraft ➔ new control and actuation architectures

- In old-generation civil aircraft, on-board electronics represents around 6% of the price of the jet. In MEA aircraft (B787/A350), this share jumps to 11% !

Production of electronic equipment (in billion euros)	2012	2013	2017	CAGR
Civil aeronautics	9,045	9,731	13,355	8.1%

Source: DECISION (extract from the World Electronic Industries 2012 – 2017 Forecast report)

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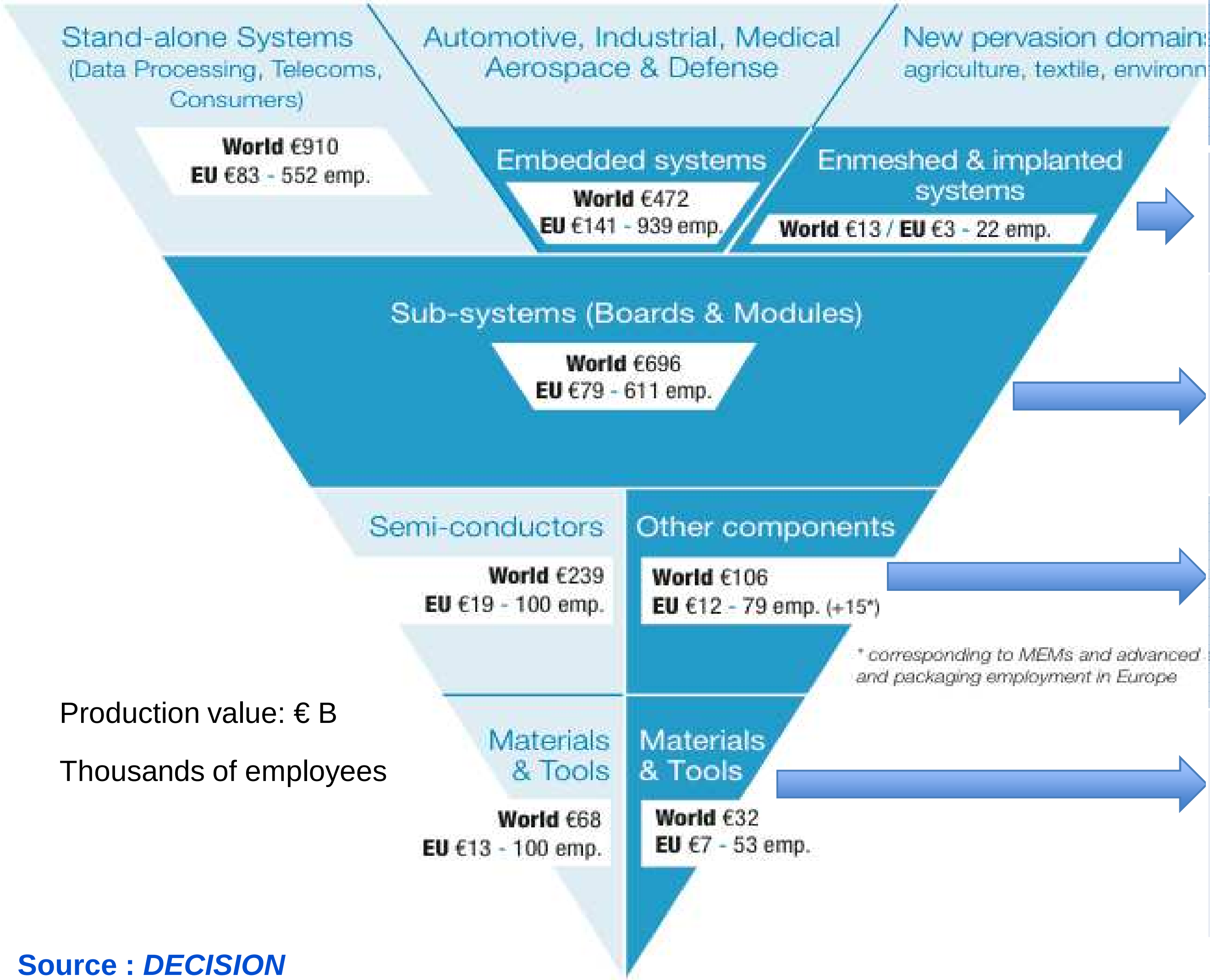
Europe in the electronics value chain

World electronics industry value chain, 2012



	PROD. EUR. (€B)	% EUR. / World
Level 4: *Systems*	**227**	**16%**
Level 3: *Boards & Modules*	**79**	**12%**
Level 2: *Compo-nents*	**31**	**9%**
Level 1: *Equip-ment & Materials*	**20**	**20%**

Source : ***DECISION***

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Thanks for your attention

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