

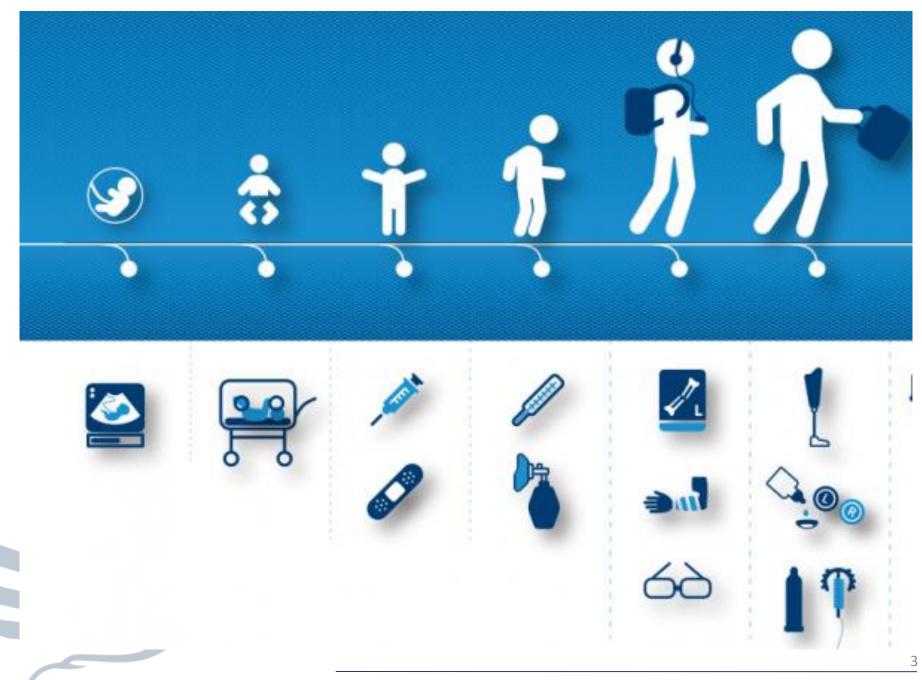
# Medical devices and in-vitro diagnostics: A general introduction to Medical Devices in EU

AmCham EU healthcare breakfast Friday 19 February 2016, AmCham EU

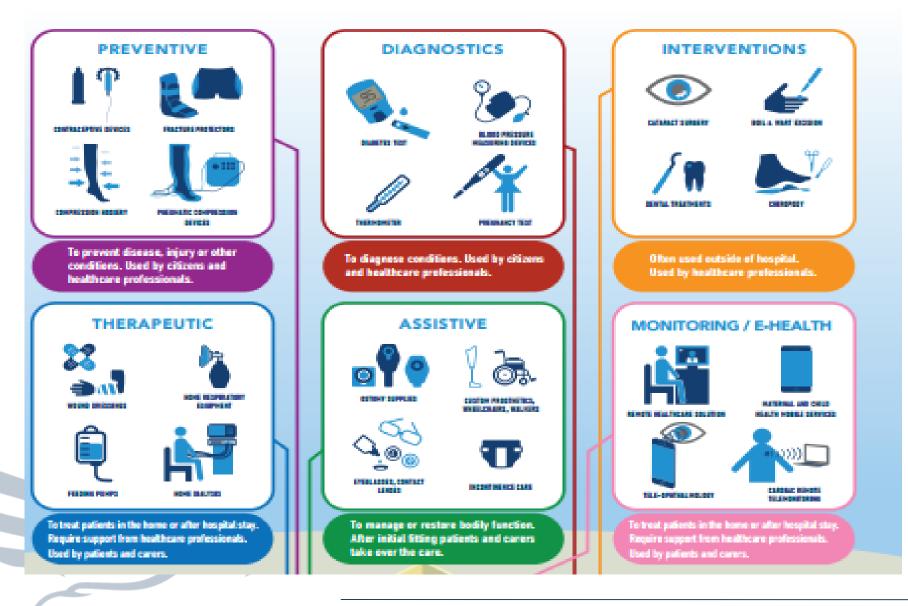
Céline Bourguignon, J&J, Member of the Healthcare Committee

## What is a Medical device ?





# 6 BROAD CATEGORIES OF MEDICAL TECHNOLOGY

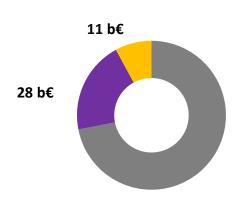


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### Key figures on Medical devices

Based upon manufacturer prices the European medical technology market is estimated to make up 31% of the world market. It is the second largest medical technology market after the US (± 40%)13.



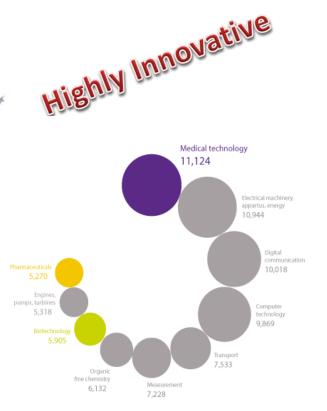
Medical technologies ICT & Imaging IVDs € 100 billion

Europe has a positive medical technology trade\* balance of  $\leq 14$  billion (2014). This is less than in 2013 ( $\leq 15.2$  billion), but still represents a twofold increase since 2006. In comparison, US medical technology trade surplus is at  $\leq 5$  billion. Compared to 2012, the main European medtech trade partners remain the same: the US, China and Japan.13

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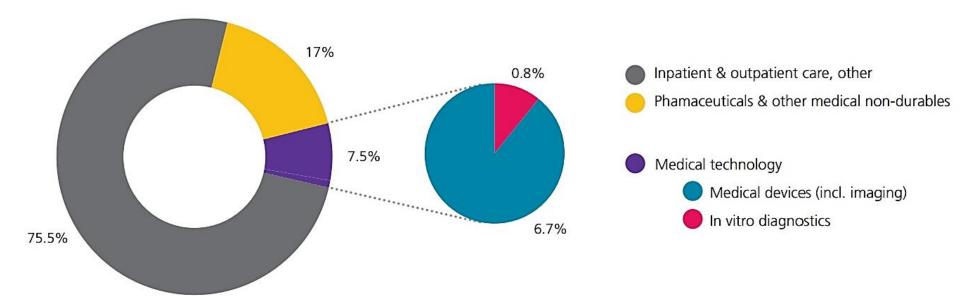
#### > 80% SMEs

> 575,000 employees



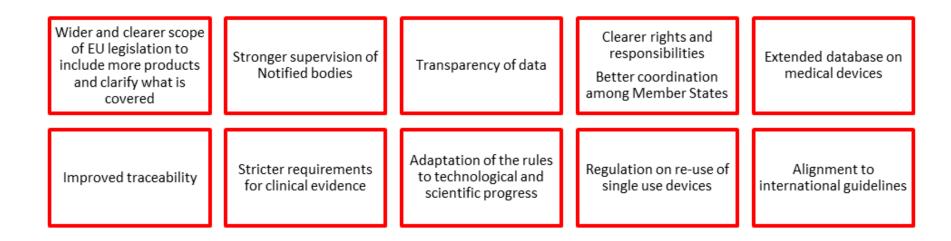
R&D investments range from 8% to 12% of the revenues

### Health expenditures & Medical devices



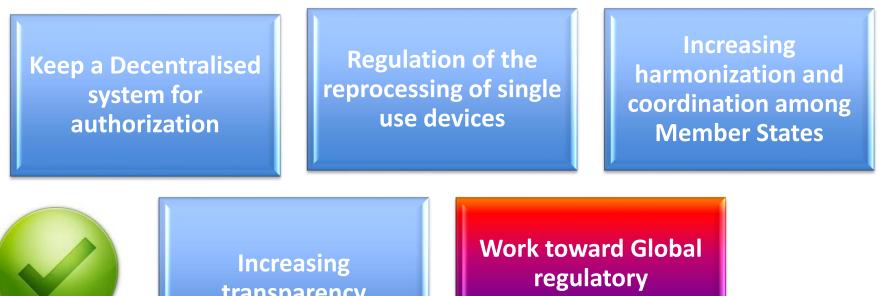
In Europe, an average of 10.4% of gross domestic product is spent on healthcare. Of this figure, around 7.5% is attributed to medical technologies

### Medical Devices : designing a safer system ?



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### Critical elements of a future proof system



convergence

transparency

### **Clinical evidence**

Clinical evidence	<ul> <li>Fit for purpose</li> <li>Good balance between pre and post-market requirements</li> <li>Demonstration of efficacy/Randomized Control Trials ?</li> <li>Clinical equivalence restriction for Class III and implants</li> <li>Get it right for existing implants and high risk devices A Call for Randomized Clinical Trials of Parachutes </li> </ul>	
		In the tight-sphinctered world of academic medicine, it's always delightful to find a journal that still has a sense of humor. The following satirical paper from the British Journal of Medicine made me laugh and laugh. Smith GCS, Pell JP. (2003).

Case by Case approach Common Specifications Well-established technologies In a nutshell, this paper rightfully points out that no one has ever done a randomized, controlled trial (RCT) on the efficacy of parachutes. Furthermore,

challenge: systematic review of randomised controlled trials. BMJ, 327

(7429), 1459-1461. DOI: 10.1136/bmj.327.7429.1459

Research Blogging

Advocates of evidence-based medicine have criticised the adoption of interventions evaluated by using only observational data.

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Parachute use to prevent

death and major trauma related to gravitational