

picture credit : Jean-Michel MARTEAU



BA HEALTHCARE
*The shortest path from
Industry to **Healthcare***

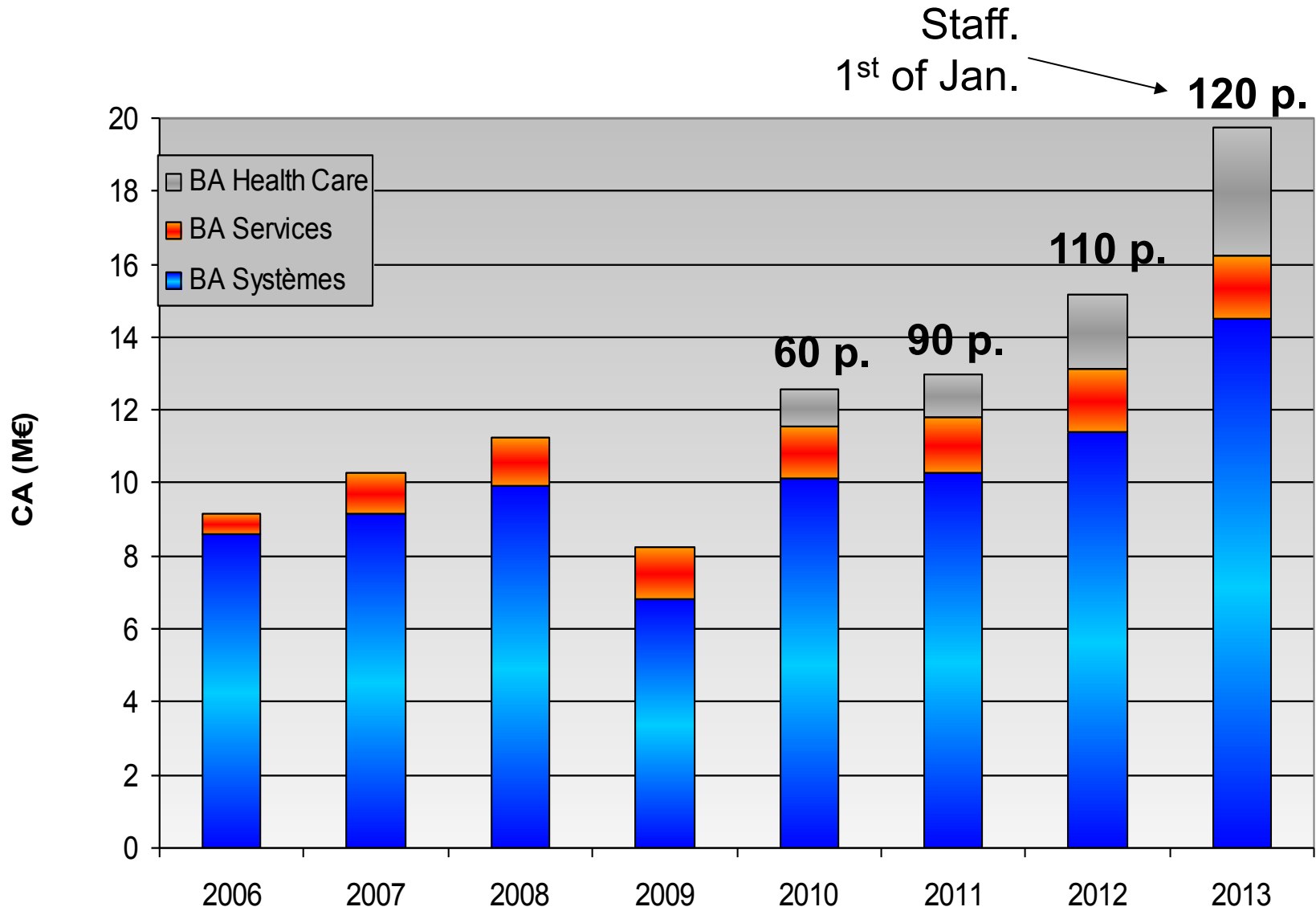
The BA Group



- **ISO 9001**

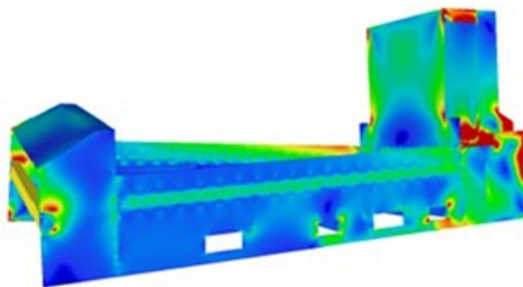
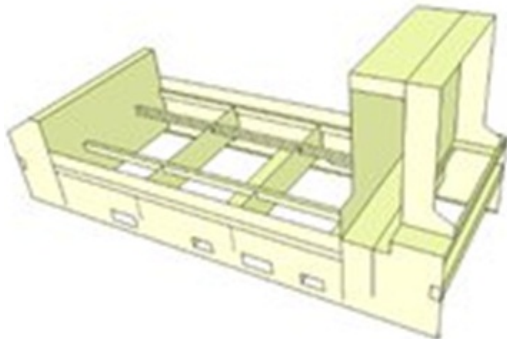
ISO 9001:2008
- **« Organisme de recherche » habilitation**
(Research Organisation)
- **OSEO Excellence**  EXCELLENCE 2013
- **« Entreprise Innovante » label, by OSEO**
(Innovative Company Label)





Opening Innovation

- 15% staff in R&D
- At the crossroad of a leading research network in robotics : CEA, INRIA, IRCCYN
- Dedicated process to *Open Innovation*
Special SME-adapted method to spread innovation



Leader in intralogistics systems

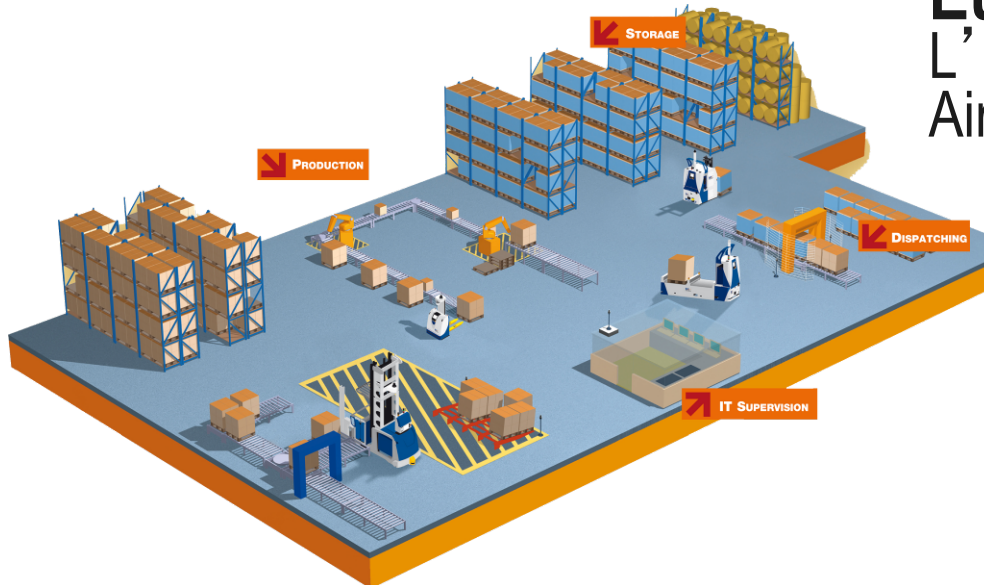


- **European leader in intralogistics automated systems**

Automatic handling and storage systems by AGV (Automated Guided Vehicles)

- **250 sites commissioned in Europe**

L'Oréal, Ovest France, Clairefontaine, Air France, Heineken, Sodebo...



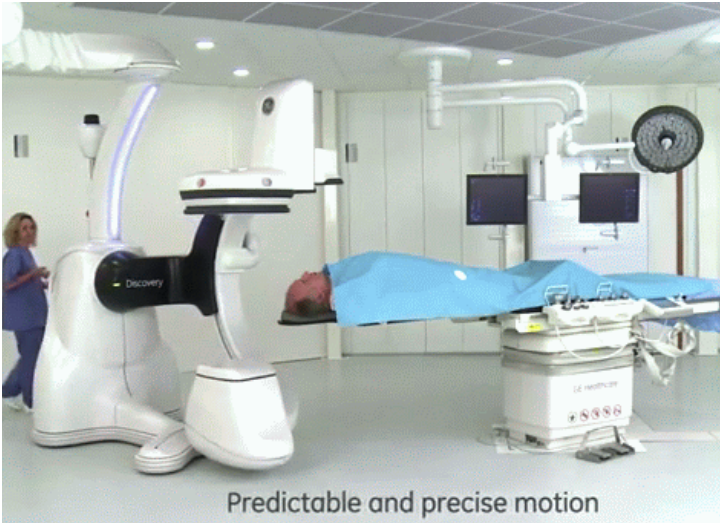


Designed to last long



- **High reliability**
 - Operating 24/7
 - 10-15 years life cycle
- **Fieldproven security**
 - Safe interactions with human workers
- **Well-tried components**
 - Field-tested sensors and actuators' usage
- **Technologies mastered**
 - Motion control
 - Localization, w/ several techniques (vision, lidar, magnets, wireguided)
 - Mobile robotics

An opportunity for BA SYSTEMES and GE HEALTHCARE



Predictable and precise motion



GE' s major findings about BA SYSTEMES

- Special skills in accurate motion control
 - No european equivalent
- Skills integration : engineering, manufacturing, operating conditions maintenance



Key advantage in partnering with BA SYSTEMES

- Time to market decrease -3 years compare to inhouse development



Partnership with GE

- BA HEALTHCARE is established



Core business

Expertise

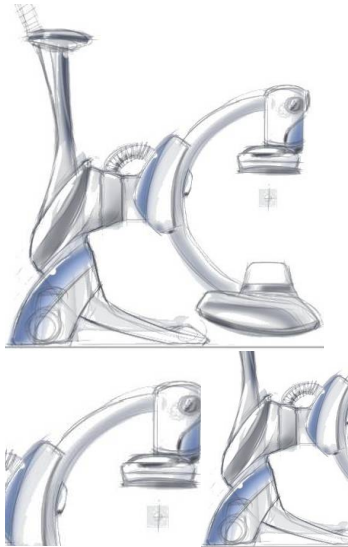
Business model

Core business



- **Design new Medical Devices (MD)**
 - **Industrialization & manufacturing innovative MD**
- ➔ **According to medical standards**

Our Expertise : Mobile Robotics

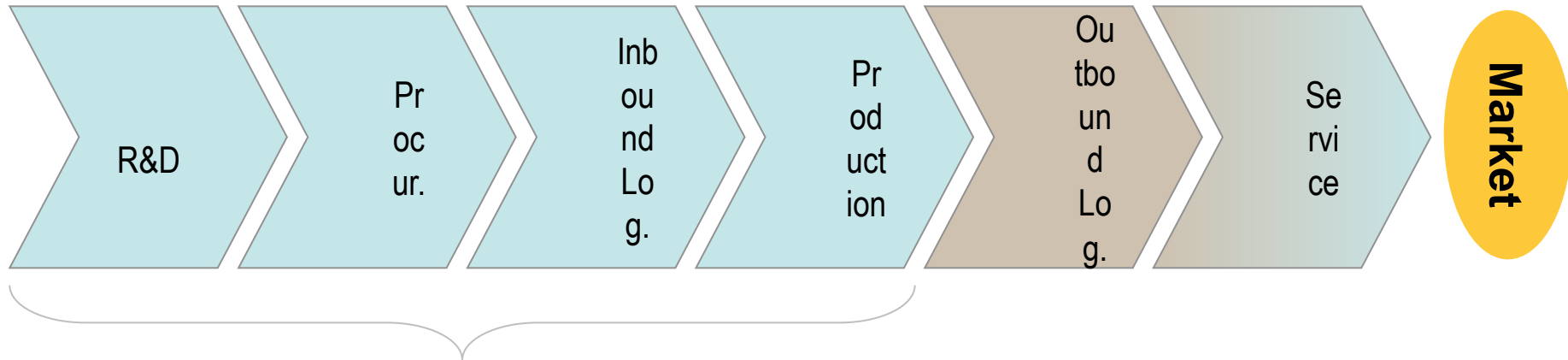


Reliability

Motion control

Localization

From Research to Production



- Developing innovative healthcare solutions
- Producing medical devices
- Partnering to go to the market



■ Mobile robot for walk rehabilitation

Design an adaptative omnidirectonnal platform to neurologic related walk deficiencies, as strokes.

■ 3-years project

■ 6 partners

Movea, CEA LIST, CHU Rennes, CMRRF de Kerpape, CRPCC LAUREPS, BA Systèmes

■ FUI13 framework



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