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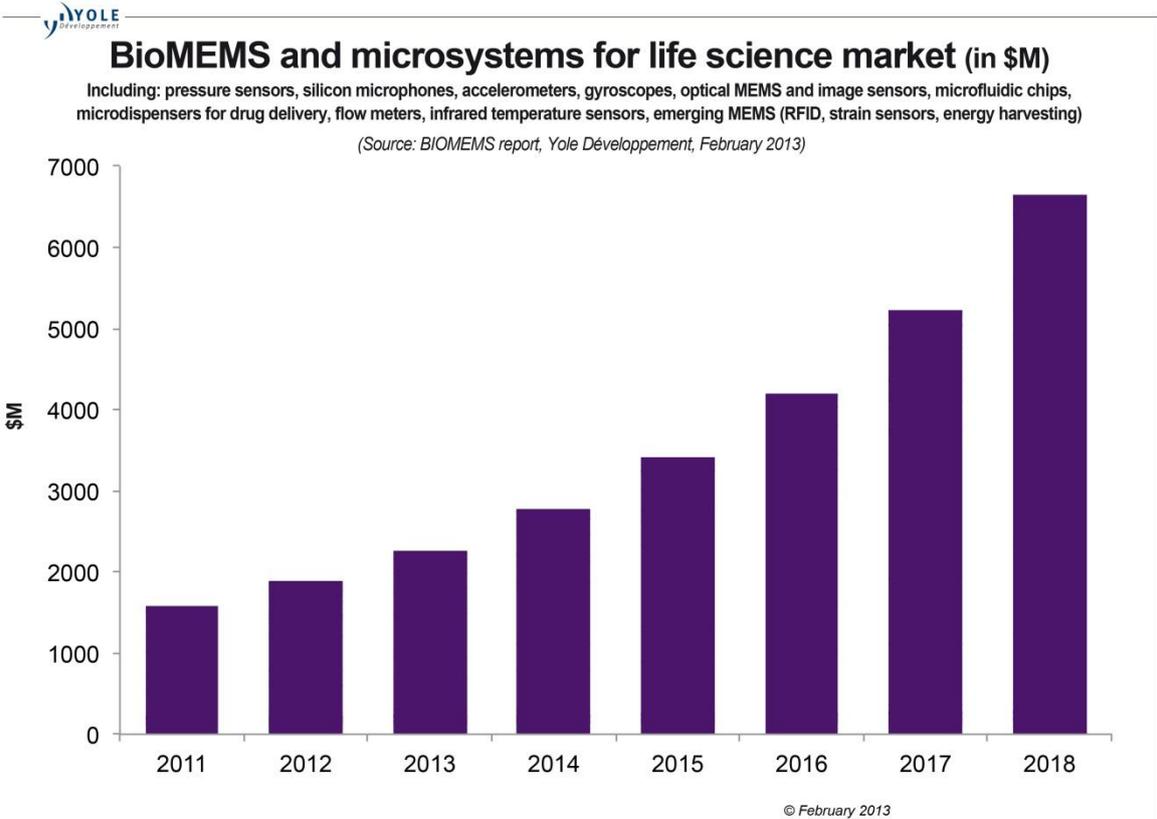
“The BioMEMS market will almost triple in size over the next five years...”, announces Yole Développement

BioMEMS, a technology & market report from Yole Développement

Lyon, France – January 29th – Yole Développement announces its report “**BioMEMS**”. In this new edition, Yole Développement has gone a step further in its forecasts by splitting each general application into more detailed sub-applications. For example, “Blood Pressure applications” is separated into “blood monitoring disposable” and “blood monitoring equipment”. Moreover, compared to the previous edition, the company added the latest market data for each device category explored and specific case studies.

“The BioMEMS market is expected to grow rapidly, from \$1.9B in 2012 to \$6.6B in 2018”, announces Benjamin Roussel, Technology & Market Analyst, Microfluidics & Medical Technologies at Yole Développement. According to him, microsystems integration is fast becoming a key added-value for system manufacturers...

The BioMEMS market will almost triple in size over the next five years, with mobile care applications contributing significantly to this impressive growth!



Microsystem devices have become increasingly visible in the Healthcare market by serving as solutions adapted to the requirements of various applications. The usefulness of these devices is

two-fold: for one, they improve medical device performance for the patient; and secondly, they offer competitive advantages to system manufacturers. For example, the introduction of accelerometers in pacemakers has revolutionized the treatment of cardiac diseases.

The microsystem technologies market for healthcare applications looks promising, and should reach \$6.6B by 2018. Yole Développement has followed this market's innovations and key players for the last several years, and based on an accurate analysis of the market's last three years, this new report consolidates market data for 2010-2012 and provides forecasts for 2012-2018.

The devices considered in the BioMEMS 2013 report are pressure sensors, silicon microphones, accelerometers, gyroscopes, optical MEMS and Image sensors, microfluidic chips, microdispensers for drug delivery, flow meters, infrared temperature sensors, emerging MEMS (RFID, Strain sensors, Energy Harvesting).

For each of the above, Yole Développement's report provides a market description, the main device and system manufacturers, current market data, and forecasts. Additionally, main technological trends are reviewed.

Yole Développement's analyst, Benjamin Roussel, also takes a look at the microsystem devices dedicated to cell phone applications. Though mobile care is still in its infancy, we believe this market will grow significantly in the coming years.

Furthermore, specific case studies (including technology and player-specific overviews, innovative developments, supply chain data and patent information) have been included to better address two of the industry's hottest topics: microfluidic chips and retinal implants. Indeed, these two micro devices possess the largest growth opportunity for the coming years.

Regulation overview

The regulation particulars for medical device development, included organisms and process overview, are described for five different regions: Europe, North America, Japan, China and India. This section is particularly important for microsystem device and systems manufacturers.

A complete description of different healthcare markets and applications

Microsystem devices have applications in four key healthcare markets: pharmaceutical, in-vitro diagnostics, medical devices and medical home care. Each of these markets has its own unique dynamics, players and global drivers. Motivation for the acceptance of BioMEMS technologies is highly dependent on each individual market. Whereas the acceptance of microsystems is linked to sensibility and automation constraints in the Pharmaceutical market, in the in-vitro diagnostic market it's all about portability and cost reduction; while the Medical Devices market is focused on addition of functionalities. Concerning the Home Care market, the motivations are to increase system safety and connectivity. Yole Développement's report reviews all four of these markets in a detailed manner.

Yole Développement's experts have identified a number of applications for each device type. These applications can be placed into five groups: patient monitoring, patient care, medical imaging, in-vitro diagnostic testing and drug delivery. For each of these groups, the report provides an overview of devices and key market drivers, along with market data.

The BioMEMS 2013 report also pays particular attention to Chinese microsystems players, as a number of new players have recently entered the market.

- **Author:**

Benjamin Roussel, is a Market Analyst in Microfluidic and Medical Technologies fields. He holds a State qualification as a Doctor of Pharmacy from the University Claude Bernard Lyon, complemented by a master degree in Technology and Innovation Management from EMLyon Business School.

- **Catalogue price:** Euros 5,590.00 (multi user license) - Publication date: February 2013.

For special offers and the price in dollars, please contact David Jourdan (jourdan@yole.fr or +33 472 83 01 90).

- **Companies cited in the report:**

Abbott, Akustika, Analog Devices, Baxter, Becton Dickinson (BD), Bluechiip, Boehringer Ingelheim Microparts, Boston Scientific, Caliper Life Science, CapitalBio, Cepheid, CleveMed, Dalsa, Debiotech, Dolomite, e2v, ELA Medical, Endevco, Excelitas, Fluidigm, Freescale, GE Sensing, Given Imaging, Golden Elephant of XinXiang, Hamamatsu, Handylab (BD), Heimann, Honeywell, HSG-IMIT, Huiqin, IMEC, IMS-chips, Insound Medical, Integrated Sensing Systems, Intuitive Surgical, Invenios, KarlStorz, Knowles Acoustics, Kodak, Lepu Medical Group, LifeTechnologies, Magnotec, MEAS, Medspray, Medtronic, Melexis, Micralyne, Microfluidic Chipshop, Microlife, Micron, Micronit, Nanopass, NeuroIZ, Nicera, Olympus, Omron, Oticon, Philips, Phonak, QINMING Medical, Respitronix, Roche, Sensimed, SensorDynamics, Shanghai BioChip, Shanghai HealthDigital, Shanghai YuLong BioTech, Shanxi LifeGen, Sony, St Jude Medical, STMicroelectronics, TDK EPCOS, Terumo, Texas Instrument, Landwind, ThinXXS, Tianjin BioChip Corp, TNO, Trixel, Tronic's Microsystems, United Gene, VTI, Widex, Yongsheng, YUYUE Medical Equipment

About Yole Développement – www.yole.fr

Beginning in 1998 with Yole Développement, we have grown to become a group of companies providing market research, technology analysis, strategy consulting, media in addition to finance services. With a solid focus on emerging applications using silicon and/or micro manufacturing, Yole Développement group has expanded to include more than 50 associates worldwide covering MEMS, Microfluidics & Medical, Advanced Packaging, Compound Semiconductors, Power Electronics, LED, and Photovoltaic. The group supports companies, investors and R&D organizations worldwide to help them understand markets and follow technology trends to develop their business.

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