

## Press Release

FOR IMMEDIATE RELEASE

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# MEMS/Microsystems Activities in China – Moving from Low-cost into High-Value

**The fast Development of China's Micro/Nanotechnology Business poses Threats but also offers Opportunities to Western Companies according to the Latest enablingMNT Industry Report**

**Berlin/Germany, Shanghai/China (3<sup>rd</sup> September 2007):** Given the magnificent growth, over the past few years, of the Chinese industry in electronics manufacturing, it is no surprise that the breadth of the MEMS/Microsystems (MST) activities in China is also experiencing a dramatic rise. China now counts over 600 nanotechnology companies, 1500 sensor manufacturers, 60 biochip companies and 150 fabless design houses.

enablingMNT's assessment of the developments indicate that the Chinese MST/MEMS industry is in the first place aiming at: the semiconductors, automotive and telecommunications markets, but efforts to penetrate the medical, industrial and consumer markets are also evident. The analysis demonstrates that there are two strong drivers behind the Chinese MEMS industry, namely:

- (1) foreign companies starting joint ventures or subsidiaries and
- (2) national and regional government investment.

The major areas of interest to those investing companies are in two main areas: manufacturing equipment and components/sensor fabrication. In the later group tire pressure sensors are especially of interest, given the size of the automotive world market but also the Chinese domestic market.

While the existence of organisations developing manufacturing equipment for microsystems as well as an upcoming service industry (e.g. foundries and design houses) are preparing China for future growth, the supply chain is still rather incomplete. Politics do not really encourage the start-up of small and flexible technology-oriented companies in China, thus there remain interesting niches for foreign companies to exploit.

The enablingMNT report "MST/MEMS Activities in China - Industry and Key Research Centres" provides readers with a detailed overview of this growing segment of the MST/MEMS community with profiles of the most important stakeholders in this exciting new market opportunity; it has been published by the enablingMNT team in collaboration with its Shanghai based associate partner Shanghai Titan Consulting and is available now at a low price of only 480 Euros.

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WTC Wicht Technology Consulting (Germany), NEXUS – European Microsystems Association (Switzerland), MEMS Industry Group (USA), MST News (Germany), EnablingM3 (The Netherlands), and 4M2C Patric Salomon GmbH (Germany)

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## **About enablingMNT**

enablingMNT comprises a group of independent experts, with extensive and wide-ranging industrial experience, who advise Micro and Nanotechnology organizations on product commercialization and business development. enablingMNT is a truly international consultancy organization with partners in the UK, Germany and The Netherlands and world-wide links. All partners have a long-standing industrial background with experience gained from their work in companies such as Philips, BAE Systems, OnStream, Memscap, Marconi, Frost & Sullivan and VDI/VDE Innovation + Technik. The team is well versed in all commercialization issues relating to the supply chain of MNT: from concept through to product. With this expertise, the team addresses specific customer requirements, particularly, in relation to: Market Research and Forecasting, Exploitation Strategies, Marketing & Publicity, Partner, Supplier and Customer Identification, and the System Approach to Engineering. This collaborative research of the *enablingMNT team* has, to date, culminated in a series of in-depth intelligence reviews on the supply chain of micro and nano technologies (MNT): *enablingMNT Industry Reviews*.

## **About enablingMNT Industry Reviews**

Driven by user/supplier demands for technology-pull, the reviews in this *enablingMNT series* are focused on all aspects of the micro and nano technology (MNT) product lifecycle; from concept through to production. They describe how a selected topic is linked into the supply chain from product idea, technology development, engineering, prototyping, manufacturing, packaging and test, into volume production. The *enablingMNT reviews* analyze the critical issues encountered during the creation process of MNT-based products and provide guidance with regards to the approaches taken to overcome barriers and challenges. All reviews include a comprehensive listing of services offered in the field (including current contact information). The emphasis is on the provision and availability of fully commercial services, infrastructure, and suppliers considered to be essential for the commercial realization of MNT-based products. It is expected that *enablingMNT industry reviews* will motivate new applications for MNT, enhance confidence in the technology as well as help identify funding sources for research and development. They highlight trends from the facts and the prospects. Supported by significant players in the field, the reviews are produced and edited by the *enablingMNT team*. *enablingMNT industry reviews* are offered at a competitive price of €80 per specialist report (€180 per double report):

- MST/MEMS Activities in China - Industry and Key Research Centres (double report – NEW!)
- Design & Engineering Companies for MST/MEMS 2007 update
- Foundries for MST/MEMS 2005 update
- Suppliers of Processing Services for MST/MEMS
- Test- and Measurement Equipment Suppliers for MST/MEMS
- Suppliers of Materials for MST/MEMS Production
- MNT Web Directories and On-line Communication Channels
- Equipment Suppliers for Nanofabrication
- Back-End Manufacturing Equipment Suppliers for MST/MEMS
- Front-End Manufacturing Equipment Suppliers for MST/MEMS
- Packaging & Assembly Providers for MST/MEMS

Coming soon:

- Packaging & Assembly Providers for MST/MEMS 2007 update
- MNT Design, Modelling, Simulation Tools

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