For Immediate Release:

Evaluate the Manufacturing Cost of MEMS Devices
MEMS CoSim+ V3.0: A new MEMS manufacturing cost simulation tool from System Plus Consulting


With MEMS devices providing mission-critical functionality in many applications, such as medical instruments, car security systems, mobile phones, tablet PCs and navigation systems, there is a rapidly-growing market for extremely efficient MEMS sensors. Due to their non-standard manufacturing process, the cost of MEMS devices can be difficult to estimate. To understand the costs of accelerometers, pressure sensors, micro mirrors, gyroscopes and inkjet heads, System Plus Consulting, together with Yole Développement, the leader in the analysis of MEMS applications and market, has introduced a new costing tool to calculate the main cost drivers for different types of MEMS sensors.
The MEMS CoSim+ V3.0 cost simulation tool can be used to understand cost structures, identify cost drivers, make competitive analyses, estimate supplier margin and perform cost evaluation of different technology options. It can also define business models, such as fabless, fablight and manufacturing. MEMS CoSim+ V3.0 is perfect for Marketing Executives who need to know price structure, Process Managers and R&D Engineers who analyze economic feasibility, and Purchasing Managers who want to understand costs.

MEMS CoSim+ V3.0 is easy to install and features an Excel interface for maximum usability. Final results can be modified and ported, and reports can be created like in any Excel workbook.

Advantages of MEMS CoSim+ V3.0 include the following:

- Complex project setup takes only a few clicks, thanks to processes and operations libraries
- All project and reference data is stored in a sharable database
- Each project is built on a hierarchically-defined Bill of Material, which includes any number of MEMS, ASICs and passive components
- Front-end processes can use several wafers, each of them having its own front-end process
- Each process can use multiple fabs, with individually-defined cost and overhead parameters
- Easy project data import/export functions allow multi-site data sharing

The outputs of MEMS CoSim+ V3.0 are:

- wafer cost breakdown
- wafer equipment cost breakdown
- wafer material cost breakdown
- die cost breakdown
- cost of package assembly
- cost of component
- estimation of selling price

About the author:

Olivier Bru is R&D Senior Engineer at System Plus Consulting, in charge of the development of costing and simulation tools. He has 20 years experience in electronic development, production process and tests, and computer science. He holds an Engineering Degree in Electronics from the Ecole Nationale Supérieure de l’Electronique et de ses Applications of Cergy, France.

About System Plus Consulting:

System Plus Consulting specializes in the cost analysis of a wide variety of electronics, from semiconductor devices to electronic systems. System Plus Consulting has developed an exceptional suite of costing tools to provide in-depth production cost studies and estimation of objective selling price, and is continuously improving its range of services. System Plus Consulting’s product offer
consists of on-demand reverse costing studies, standard cost analysis reports, costing tools with software, costing models and cost simulation tools.

The company excels in the following areas:

- **Studied products:** ICs, ASICs, MEMS, ECU, electronic boards, power components & modules, and full electronic systems.
- **Applications:** Automotive, Solar Energy, Infotainment, Gaming, Smart Cards, Handset Receivers and Mobile Phones.

System Plus Consulting is a sister company of Yole Développement. Since 1998 Yole Développement has 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 and microfluidics, Advanced Packaging, Compound Semiconductors, Power Electronics, LED, and Photovoltaics. 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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