

Cluster Integration



■ TSMC's 12-inch Fab 14 on FAB P3 Building at the Tainan Science Park

Semiconductor Industry's Investment Rush at the STSP: the Positioning of TSMC and UMC

In 2012, the two leaders of the Semiconductor industry, TSMC and UMC, both increased their investment in building a next wafer generation fab at the STSP with an estimated amount of NT\$740 billion and creation of more than 9,000 new jobs to attract the presence of more upstream, midstream and downstream industries at the STSP making it one of the largest contract chip manufacturing sites in the world.

New Trend in the Optoelectronics Industry Facilitates Cluster Growth at the Park

The production core of the optoelectronics industry at the Tainan Science Park focuses on integrative flat panel display clusters led by Chimei and Hannstar. Along with the increasing demand for smart phones and tablet computers, the number of touch panel makers at the STSP has grown very quickly. The TFT-LCD cluster, including HannsTouch and Chi Mei Touch Panel, has been successfully developed, demonstrating the strong growth in the touch panel industry at the STSP within a relatively short period of time.

Building Taiwan's Most Integrated Biomedical Device Industrial Cluster

In 2012, 11 new approved park enterprises in the biotechnology industry were present at the STSP (with an accumulated approval number of 56 enterprises); most of them are medical device and vaccine producers. The investment scale of existing park enterprises has been expanding, for example, ScinoPharm Taiwan's investment in the expansion of an Injection Plant totaled NT\$1.1 billion.

Additionally, under the "Southern Taiwan Biomedical Device Industry Cluster Development Plan," between 2009 and 2012, 101 projects were ratified with grants of NT\$1.17 billion. 13 academic and research institutes, including the Metal Industries R&D Centre, National Cheng Kung University, and Industrial Research Institute established R&D centers at the STSP. By the end of 2012, the above Plan has approved 38 effective prospects with an investment amount of approximately NT\$5.29 billion. At present, among the medical device enterprises present at the STSP, seven were GMP certified, six with the TFDA, one with the US FDA, one with the PRC SFDA, and one with the TAF laboratory, making the STSP the most important and integrative biomedical device industrial cluster in Taiwan.

Successful Launch of Bull Market Activities for the Medical Device Industry

On February 24, the Bull Market Activities for the Medical Device Industry (national matching activities of employees, technologies, and capital investment) was launched; the demonstration results of the three-year implementation were presented by executive units of the "Southern Taiwan Biomedical Device Industry Cluster Development

Plan." Information on job banks and employment service stations was provided to convene an extensive series of seminars on hiring employees by park enterprises to showcase the unlimited potential and future prospects of the medical device industry.

Personalized Services for the STSP's Japanese Enterprise Cluster

In 2012, the STSP Administration created a one-stop service counter for Japanese enterprises that provides comprehensive investment-related assistance to prospects with representatives that spoke Japanese. By the end of 2012, 17 Japanese enterprises have established a presence at the STSP with an approved investment of NT\$16.475 billion, thereby creating a Japanese enterprise cluster at the STSP.

Stable Development of the Green Energy Industrial Cluster

The STSP has been devoted to the introduction of green energy companies including those in the photovoltaic, LED, lithium battery, and electrical vehicle fields. By the end of 2012, 11 top companies in the solar energy industry were recruited, six LED industry leaders, and two in the automotive industry. In order to strengthen photovoltaic testing and accreditation capacity, the Center for Photovoltaic Concentrator Power - Generation R&D of the Institute of Nuclear Energy Research Institute at the Kaohsiung Science Park was established to build an accreditation system that incorporated international standards. The Telecom Technology Center has also established the Green Communication Lab at the Kaohsiung Science Park to shorten the accreditation time for quality and safety specifications and improve Taiwan's international competitiveness.



■ Bull Market Activities for the Medical Device Industry—National Talents, Capital, and Technologies Matching Conference (February 24, 2012)