

**Successful Trials of R&D results in the Public Sector**

- The Hong Kong R&D Centre for Logistics and Supply Chain Management Enabling Technologies has developed ‘E-Lock-Based Enabling Technology for Container Cargo Transshipment Process’ for the Customs and Excise Department (C&ED) to monitor the movement of the vehicles and ensure cargo security with a view to enhancing operational efficiency. Since 2011, the system’s trial runs have been successfully completed at the cargo terminals of the Hong Kong International Airport and Lok Ma Chau Control Point. The C&ED has proposed extending trial runs to various control points, and the new phase of trial run will be launched in mid-2013. As China Customs has also expressed interest in the system, the customs authorities on both sides of the border are now discussing the relevant arrangements, including upgrading the E-Lock technology so that the same E-Lock system can be extended from Hong Kong to various parts of Guangdong with a view to facilitating speedy cargo customs clearance.
- The Hong Kong Research Institute of Textiles and Apparel has collaborated with the Hong Kong Sports Institute in a R&D project on high-performance sportswear, and the newly developed materials of the project have been used in the production of the sportswear for the Hong Kong cycling athletes participating in the 2012 London Olympic Games for training purposes, and are being applied by the relevant manufacturers in their production lines through licensing agreements.
- The Hong Kong Applied Science and Technology Research Institute (ASTRI)’s home-grown LED road lighting facilities have been provided to the Highways Department (HyD), the Housing Department (HD) and the Hong Kong Science Park for trial use. The HyD will install 50 additional sample LED streetlamps in addition to the trial use of 6 sample LED streetlamps at one of its depots. Moreover, ASTRI has also provided sample LED lightings to the HD for trial use at its housing estates in Tsz Wan Shan and Ma On Shan for corridor lighting purposes.

- The Nano and Advanced Materials Institute has installed a 10kW solar cell demonstration system at a local hospital. The demonstration system has been in service since 1 March 2012.
- The Hong Kong Polytechnic University (PolyU) and ASTRI have conducted R&D on various intelligent home systems and equipment. Working with the Hong Kong Housing Society, PolyU and ASTRI have set up in Yau Ma Tei a demonstration centre showcasing a residential apartment integrated with services and healthcare technologies to assess the elderly people's needs for intelligent home and to provide information with a view to enhancing the quality of living of the elderly.
- PolyU has provided nearly 200 sample high-performance nanofibre masks to two local hospitals for trial use. Not only can the sample masks effectively filter out suspended particulates and other harmful substances not smaller than 50 nanometres, they also have very good air permeability.