Enabling Technologies for Smart Cities

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Abstract

Smart City targets to improve the efficiency of city operations and the quality of life for residents. It involves technology consideration of management platform, network infrastructure and Internet of Things (IoT). In this session, Hong Kong Applied Science and Technology Research (ASTRI) will introduce its major initiatives and efforts in enabling a Smart City. As the largest R&D Centre in Hong Kong, ASTRI takes Smart City as one of its strategic research directions and focuses on developing smart city technologies such as Smart City Technology Platform, next generation network, cyber security, big data analytics, artificial intelligence, etc. ASTRI has also established a number of joint R&D centres with stakeholders of smart city ecosystem such as device manufacturers, infrastructure and platform companies, government, service providers and end users. We also aim to apply a series of ASTRI's technologies to enable a smarter airport. At the same time, we are carrying out a smart mobility project with Energizing Kowloon East Office (EKEO) to enhance drivers and pedestrians experience. Other projects that will be shared in the presentation include health monitoring devices, next generation network standards for low power, low data rate, long range applications, Smart City Technology Platform, GIS solution for smart city navigation and IoT security and privacy.