

# Crucial Projects at Present and in Future

## Asia Pacific Gateway (APG) submarine cable project

The APG is a collaborative project between CAT and international telecommunication agency to construct an international submarine ten-pair optical cable system. Each pair can support 137x40 Gbps (5.48 Tbps/pair). The project has landing stations in Thailand, Japan, South Korea, China, Taiwan, Hong Kong, Vietnam, Malaysia, and Singapore. The project increases Thailand's intra-ASEAN telecommunication capacity and supports the forthcoming ASEAN Economics Community (AEC). This project has operated since 2012.

## FTTx project

The digital subscriber line (DSL) technology is unable to fulfill the high throughput requirement of some contents and applications. Therefore, CAT has deployed an entirely fiber optic cable network connecting the core network to the businesses and residence in Bangkok and its vicinity and the regional areas. The fiber to the x (FTTx) technology is implemented to deliver high-speed data communication and Internet services. The FTTx customers can choose transmission speed up to 2.5 Gbps.

## HSPA Mobile project

CAT has migrated its mobile phone network from CDMA to HSPA technology in order to provide the nationwide 3G coverage, support simultaneous voice and data communications, and respond to the demand of high-speed wireless internet and multimedia. CAT delivers the service to both wholesale providers who do not have their own network and retail customers.