

## China Unicom: Innovative Industry Application of Smart City — Safe City

Smart City is an advanced state of city development supported by a new generation of information technology, involving technologies such as mobile Internet, cloud computing and the Internet of Things. Smart City is based on infrastructures such as broadband ubiquitous Internet and data centers, and its main concept is the innovation of a knowledge-based society and intelligent fusion application. At the national level, Smart City has been elevated to the level of a key national strategy. Many ministries and commissions directly under the State Council of China have conducted extensive studies and formulated relevant policies to ensure the smooth development of Smart City, guaranteeing its continuous funding and unified technique of implementation.

As operation and application providers, telecom operators are playing a more and more important role in the industrial chain, as the model of “government + service providers + content providers” in the industrial chain of a smart city is widely recognized. China Unicom, one of China’s telecom operators which put forward the “Smart City” strategy at an earlier stage, has been contributing to the construction and perfection of the Smart City concept.

By the end of November, 2012, 18 000 projects had been approved for the construction of the key Smart Cities by China Unicom, and the total number of users has surpassed 16 million. Of this number, the number of users involved in monitoring and supervision application, which falls under the category of safe city and environmental monitoring, is more than 2.7 million, that of mobile office application, which falls under the category of smart office and mobile enforcement, is more than 7.5 million, the campus application, which falls under the category of safe campus and intelligent school buses, has covered more than 4 600 schools, and the number of users of the automobile information application, which falls under the category of intelligent automobiles and buses, is more than 0.7 million.

China Unicom’s “Smart City” strategy is aimed at helping the government improve the efficiency with which cities are managed by means of information technologies and the creation of a secure, harmonious and green city environment. At present, China Unicom has deployed the intelligence monitoring application for safe city in more than 300 cities. The advantages offered by 3G and fixed network convergence afford an integrated monitoring solution integral to the creation of a safe and harmonious environment.

In Shanghai, China Unicom has had a variety of successful cases involving the deployment of the “Safe City” intelligence application in areas such as mobile police office, ATM remote monitoring and safe campus. The first trial of the “Police Patrol Commander” system has begun in the Changning Police Station in Shanghai, and has assisted public security firms to significantly enhance their capabilities in the areas of rapid reaction, cooperative combat and criminal investigation by utilizing mature 3G technologies in emergency command platform and crime prevention and control system.

In Xiaogan city, Hubei Province, video monitoring is one of the most important applications of “Safe City”. Focusing on the complicated city environment, Xiaogan Unicom set up a street-centered wireless monitoring system for security and protection purposes, which was the core of Safe City in Xiaogan. The system has been mainly applied in crowded commercial streets with relatively high crime rates, as well as on busy main roads that are prone to traffic accidents. Since the video monitoring system was put into operation on January 18, 2009, it has assisted the security forces to apprehend nearly 30 suspected criminals and has provided more than 350 clues that have assisted in the investigation of various cases. It has also led to the solving of about 190 criminal cases of various kinds. The video monitoring system has gradually boosted the ability of the security forces, leading to a decrease in crime and an improved clear-up rate of current cases.

## 中国联通智慧城市创新型行业应用推荐——平安城市

智慧城市是以移动互联网、云计算、物联网等新一代信息技术为支撑，以宽带泛在互联网和数据中心等基础设施为基础，以知识社会的创新和智能融合应用为主要内容的城市发展高级形态。在国家层面，智慧城市已经上升到国家战略高度，多部委都对智慧城市发展进行了深入研究，并制定了相关政策，来保障智慧城市的发展方向、资金投入及技术统一。

智慧城市产业链中“政府+服务提供商+内容提供商”的建设模式已被广泛认同，通信运营商作为智慧城市运营和应用提供者的角色已经成为产业链中的主体力量。作为我国通信运营企业中较早提出“智慧城市”战略的企业，中国联通一直致力于智慧城市的建设和完善。

截至 2012 年 11 月底，中国联通重点智慧城市类已签约项目达 18000 个，用户规模总数超过 1600 万。其中以平安城市、环保监控等为主的监测监控应用类用户规模超过 270 万；以智慧办公、移动执法等为主的移动办公应用类用户规模超过 750 万；以平安校园、智慧校车等为主的校园类应用已发展学校 4600 多所；以智能汽车、智能公交等为主的汽车信息化类应用规模超过 70 万户。

以信息化的手段协助政府提高城市的管理效率，营造平安、和谐、绿色的城市环境，是中国联通“智慧城市”战略中一个重要部分，目前，中国联通已在超过 300 多个城市部署了平安城市智能监测类应用，基于 3G 和固网融合业务优势，提供固定

移动相结合的综合监控手段，打造平安和谐环境。

中国人民公安大学教授徐谈林认为，平安城市是和谐社会的关键组成部分，是加强城市基础设施建设、提升城市治安水平的基础工程；是改善投资环境，促进经济发展的保障工程；是维护社会稳定，构建和谐社会，保障人民群众安居乐业的民心工程。联通公司作为国有大型通信运营企业和信息化建设的主力军，承担平安城市建设这一使命，将大大加快城市信息化建设的步伐，为城市的经济发展和社会稳定提供强有力的保障。

在上海，中国联通在移动警务、ATM 机远程监控、平安校园等领域已有多种“平安城市”智慧应用的成功案例。上海长宁公安是上海联通“警车巡逻指挥”系统的“尝鲜者”，通过成熟的 3G 技术与应急指挥、治安防控的有效结合，大大提高了公安系统快速反应、协同作战、侦查破案的能力。

在湖北孝感，视频监控是“平安城市”最为重要的应用之一。孝感联通针对复杂的城市环境，以街道为中心，搭建起了无线监控安防体系，成为了孝感平安城市的核心环节。它们主要应用在人员相对集中、犯罪率较高的商业街道和车辆拥挤、容易出现交通事故的城市主干道上。自 2009 年 1 月 18 日视频监控系统投入运行至今，孝感市视频监控报警联网系统已协助公安部门抓获各类违法犯罪嫌疑人近 30 名，为破获各类案件提供线索 350 多条，破获各类刑事案件 190 起左右。视频监控系统已逐渐成为公安机关控制发案和提高破案效能的助推器。