

Smart Nation Sensor Platform

Singapore aims to be a Smart Nation where people live meaningful and fulfilled lives, enabled seamlessly by technology which offers exciting opportunities for all. We want to have an anticipatory Government to serve citizens and businesses better; and to empower citizens and businesses with information that will allow them to make meaningful choices to improve their lives.

The Government Technology Agency (or GovTech) plays an important role in the building of Smart Nation infrastructure, platforms and applications by deploying ICT and related engineering such as sensors to enable the Internet of Things (IoT) solutions.

GovTech is developing a nationwide sensor network called the **Smart Nation Sensor Platform** (or SNSP) – previously known as Smart Nation Platform - with common infrastructure and services such as a data sharing gateway, video and data analytics capabilities.

Rationale for a nationwide sensor network

As the Government's sensor masterplanner, GovTech will work with public agencies to optimise their sensor deployment needs and facilitate the sharing of resources, sensor data and data insights amongst agencies to support more efficient urban and operational planning and responsive maintenance. This will contribute to more efficient running of city services from environmental and transport management to public safety.

Agencies can work towards sharing common sensor communications backhaul as well as share the data collected so that more sense can be made of what is going on in the pulse of our city.

Progress to Date

Under phase 1 of SNSP, GovTech – working with other public agencies - has deployed some CCTVs in public areas, environmental sensors and connectivity infrastructure in Yuhua, Civic District, Orchard Road and a few other areas.

Moving forward, GovTech will collaborate with the Land Transport Authority (LTA) to leverage its lamppost infrastructure to test the feasibility of deploying a shared network for wired and wireless sensors transmitting environmental data such as temperature and humidity.

GovTech is also working with various agencies who share interest in video analytics for anomaly detection, human traffic patterns etc. Feeds from various public cameras could be shared and insights gleaned from analysis could be utilised for improved planning and incident

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response – through the video analytics platform, a part of the SNSP. The video analytics platform is targeted to be piloted in the second half of 2017.

Benefits to Citizens

SNSP aims to:

- provide the communication backbone to facilitate **smart metering in residential areas** to enhance productivity and provide consumers with timely information on their households' utility consumption;
- **help agencies better plan public amenities and services for citizens** through people and vehicular counting using the video analytics platform. This will help public transport planning, for example; and
- **enable the creation of innovative solutions and applications via smart street lampposts**. For instance, vehicles can make way for an ambulance after receiving notifications of an emergency situation and the ambulance's presence. Navigational beacons can be rolled out to guide autonomous guided vehicles for road cleaning or grass cutting purposes.

The SNSP enables different agencies to come together to build and share innovations, to improve the lives of citizens and build stronger communities.

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