



# SMART NATION & IOT

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**Presented by**  
Lee Wan Sie,  
Director, Next Gen Enabling Platforms  
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# TOWARDS A SMART NATION

## SINGAPORE'S VISION

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“As our city becomes increasingly complex and diverse ... We will **make full use of new technologies to develop sustainable and innovative solutions**... We will make Singapore a **Smart Nation**.”

- *President's Address to Parliament, May 2014*

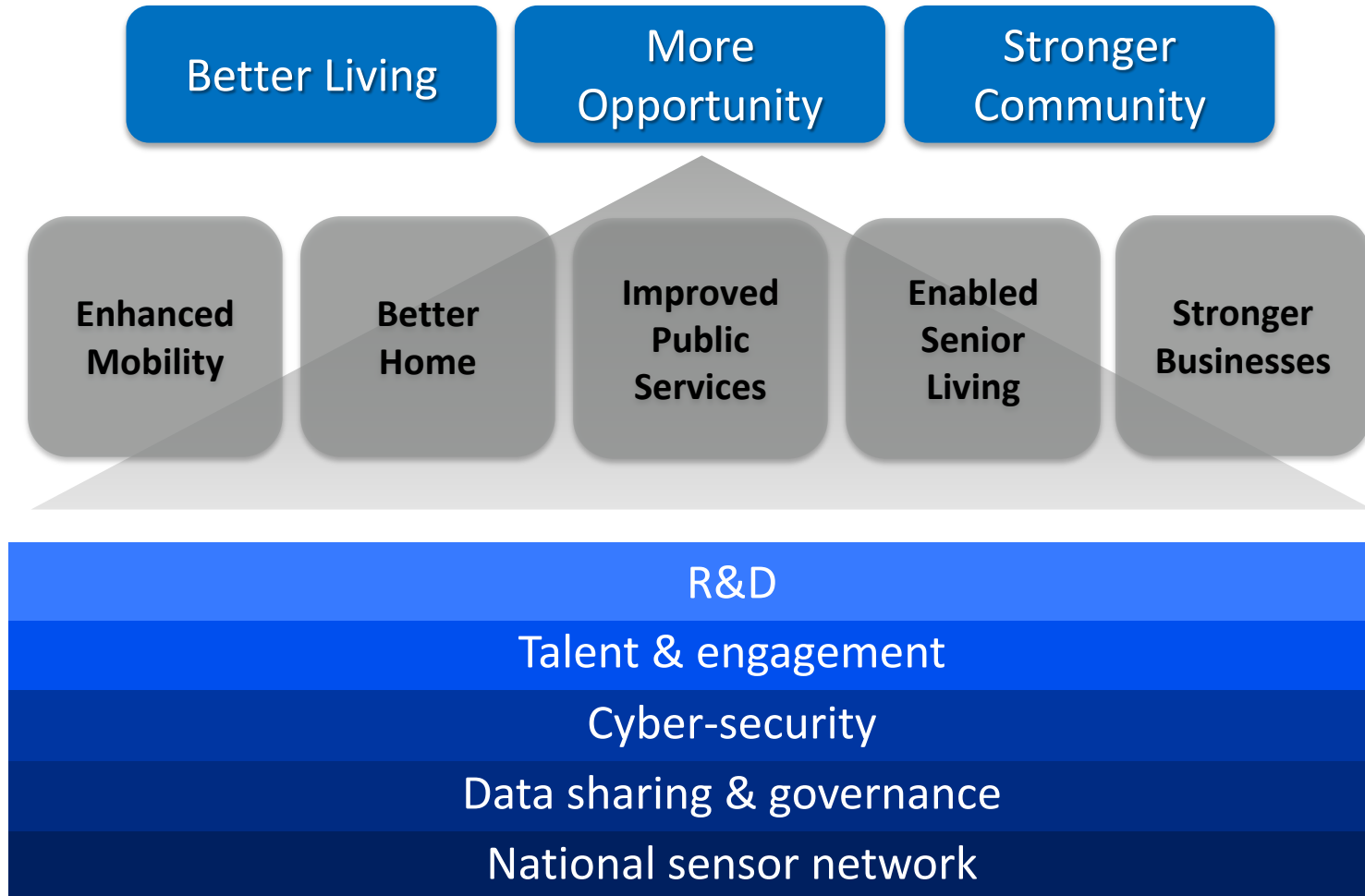


“Our vision is for Singapore to be a **Smart Nation** . A nation where **people live meaningful and fulfilled lives, enabled seamlessly by technology, offering exciting opportunities for all**.”

- *PM Lee Hsien Loong, Smart Nation Launch, Nov 2014*

# CITIZEN-CENTRIC DELIVERY

IN SMART NATION



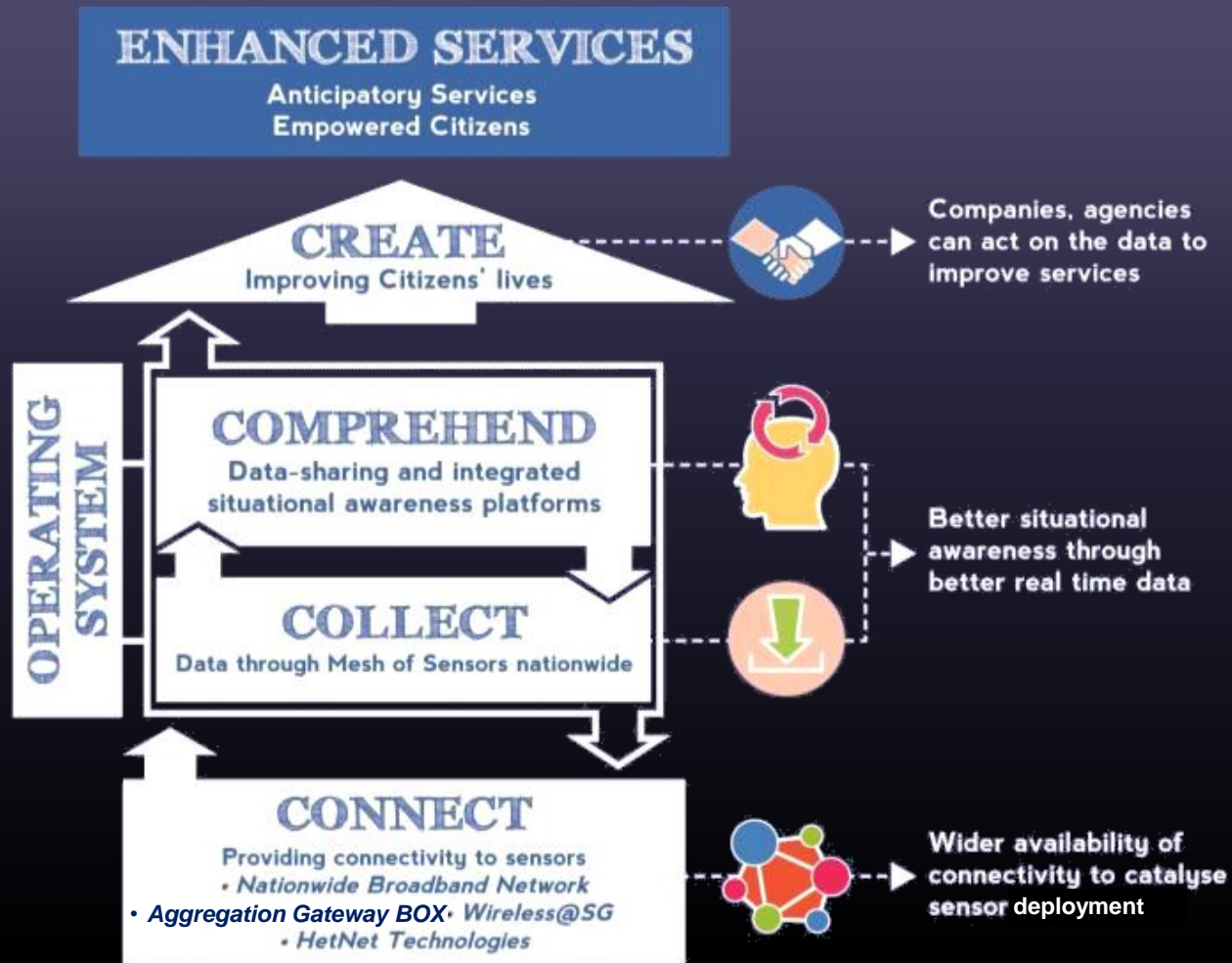
# PERVASIVE CONNECTIVITY

## INFRASTRUCTURE TO SUPPORT SMART NATION APPLICATIONS



# THE SMART NATION PLATFORM

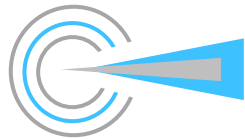
CONNECT, COLLECT AND COMPREHEND



# SNP CAPABILITIES & COMPONENTS

## COMMS SENSOR NETWORK AND SN-OS

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**COMMUNICATIONS** to establish resilient wired and wireless connectivity to sensors

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**SENSORS AND PROBES** to sense, capture and register environmental information

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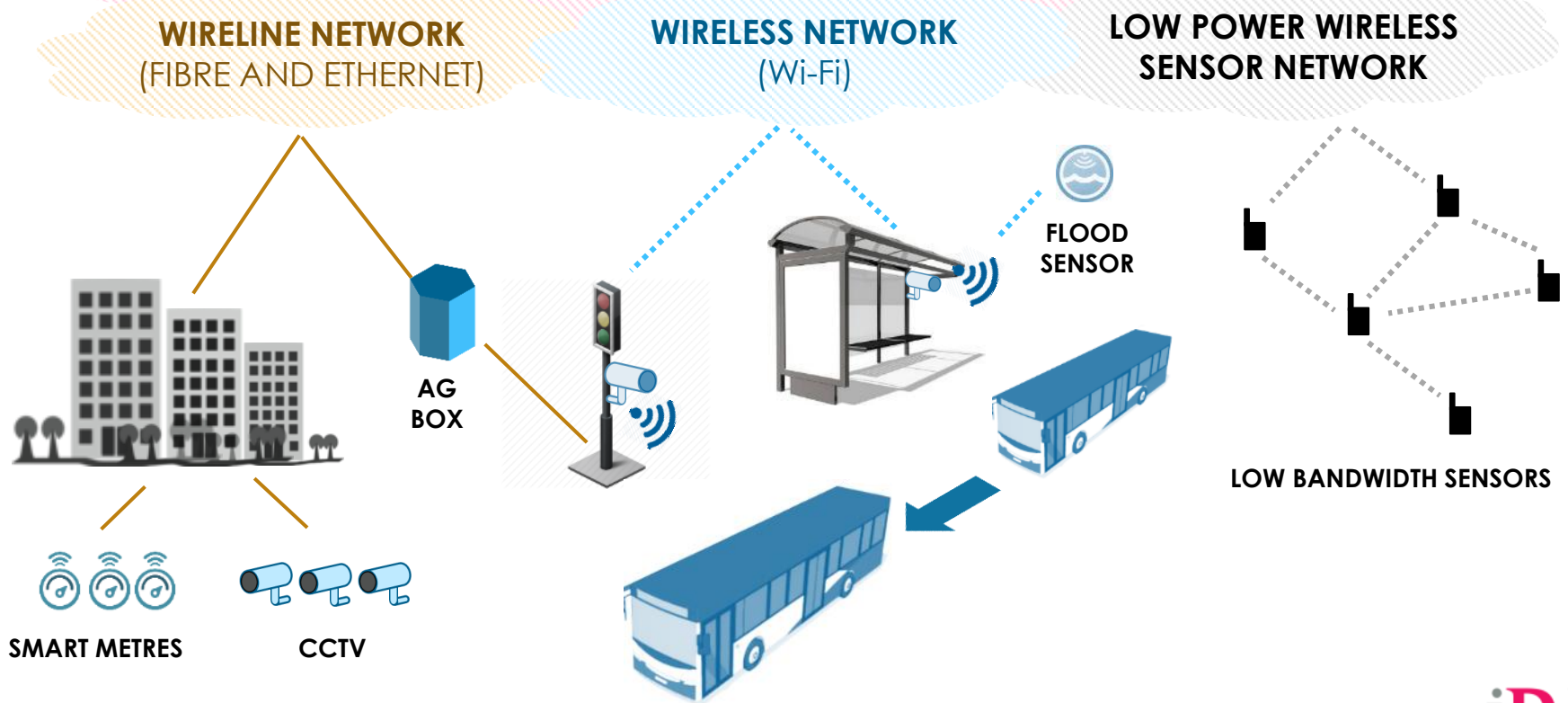


**SMART NATION OPERATING SYSTEM** to process, fuse and share data with agencies

# NETWORK INFRA FOR SENSORS

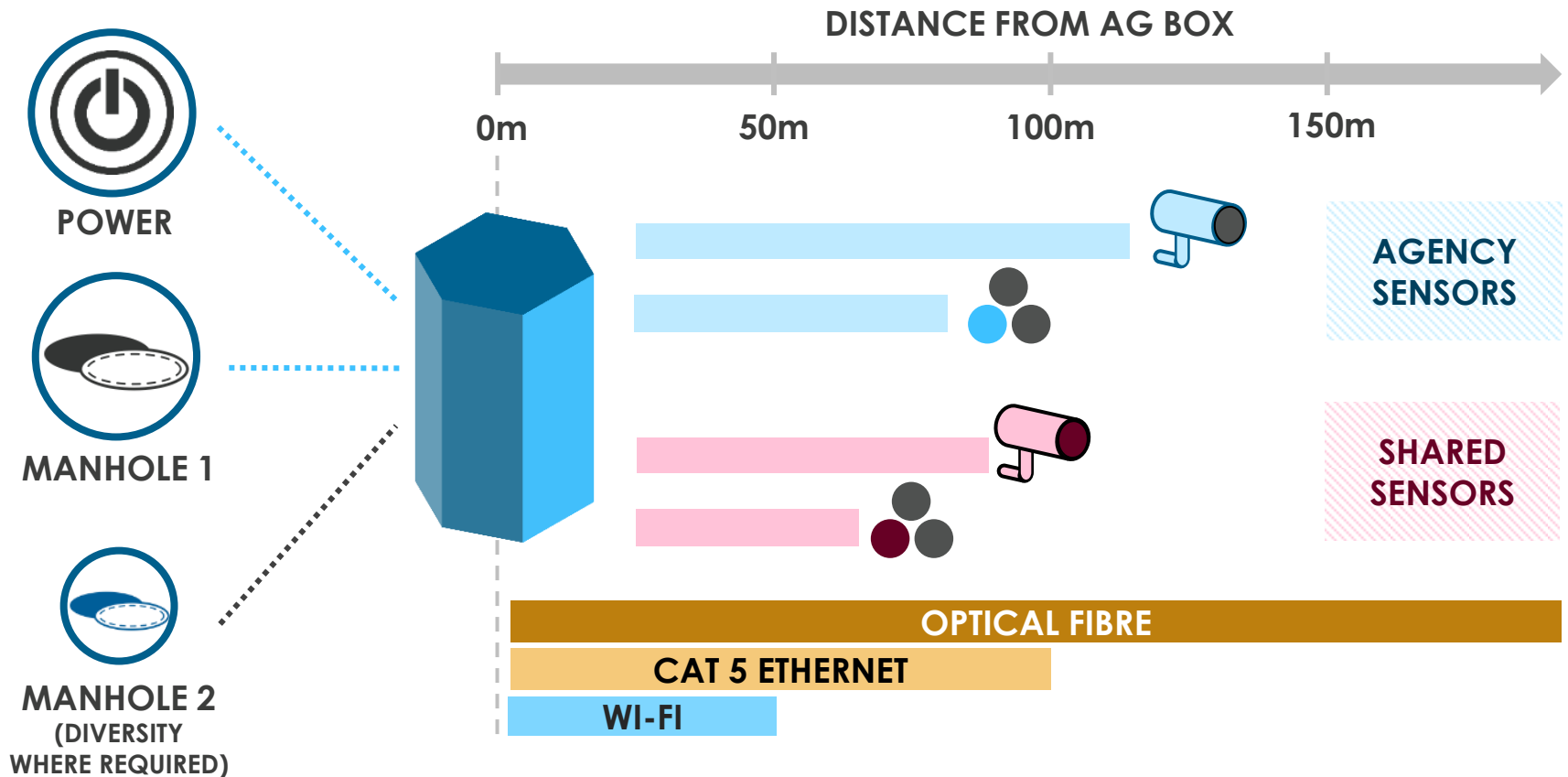
TRUSTED AND RESILIENT NETWORK FOR SENSOR DEPLOYMENT

## SNP COMMUNICATIONS AND SENSOR NETWORK



# AGGREGATION GATEWAY (AG) BOXES

SNP COMMS INFRA PROVIDING CONNECTIVITY AND POWER



- PROVIDING **HETEROGENEOUS AND RESILIENT CONNECTIVITY AND POWER**
- **OWNERSHIP OF PHYSICAL INFRASTRUCTURE** TO SUPPORT SENSOR ROLLOUT
- SET OF **SHARED SENSORS TO SUPPORT COMMON NEEDS**



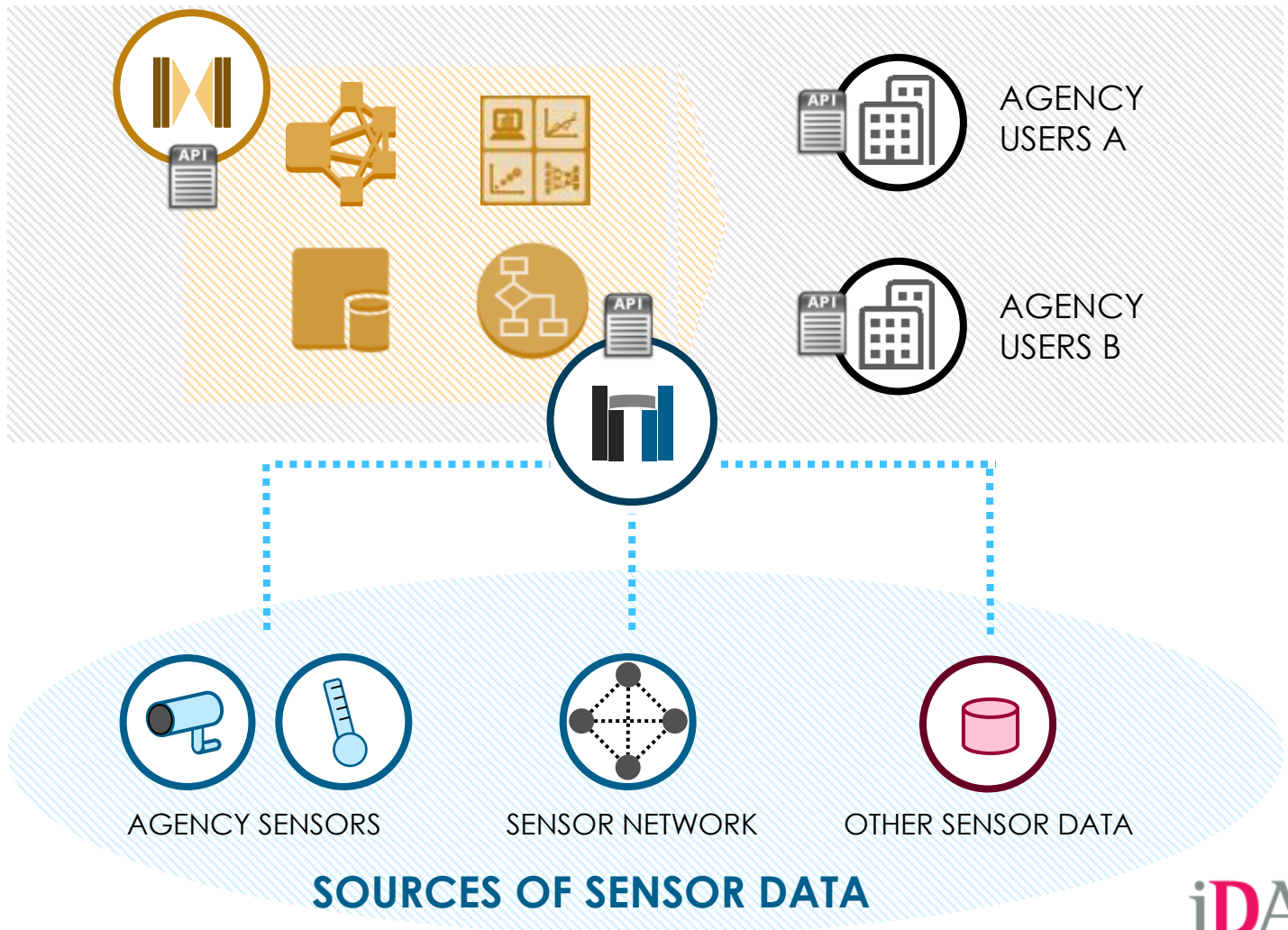
# SNP SMART NATION OPERATING SYSTEM

MAKING SENSE OF SENSOR DATA, GENERATING INSIGHTS & SHARING

DATA FUSION  
PLATFORM

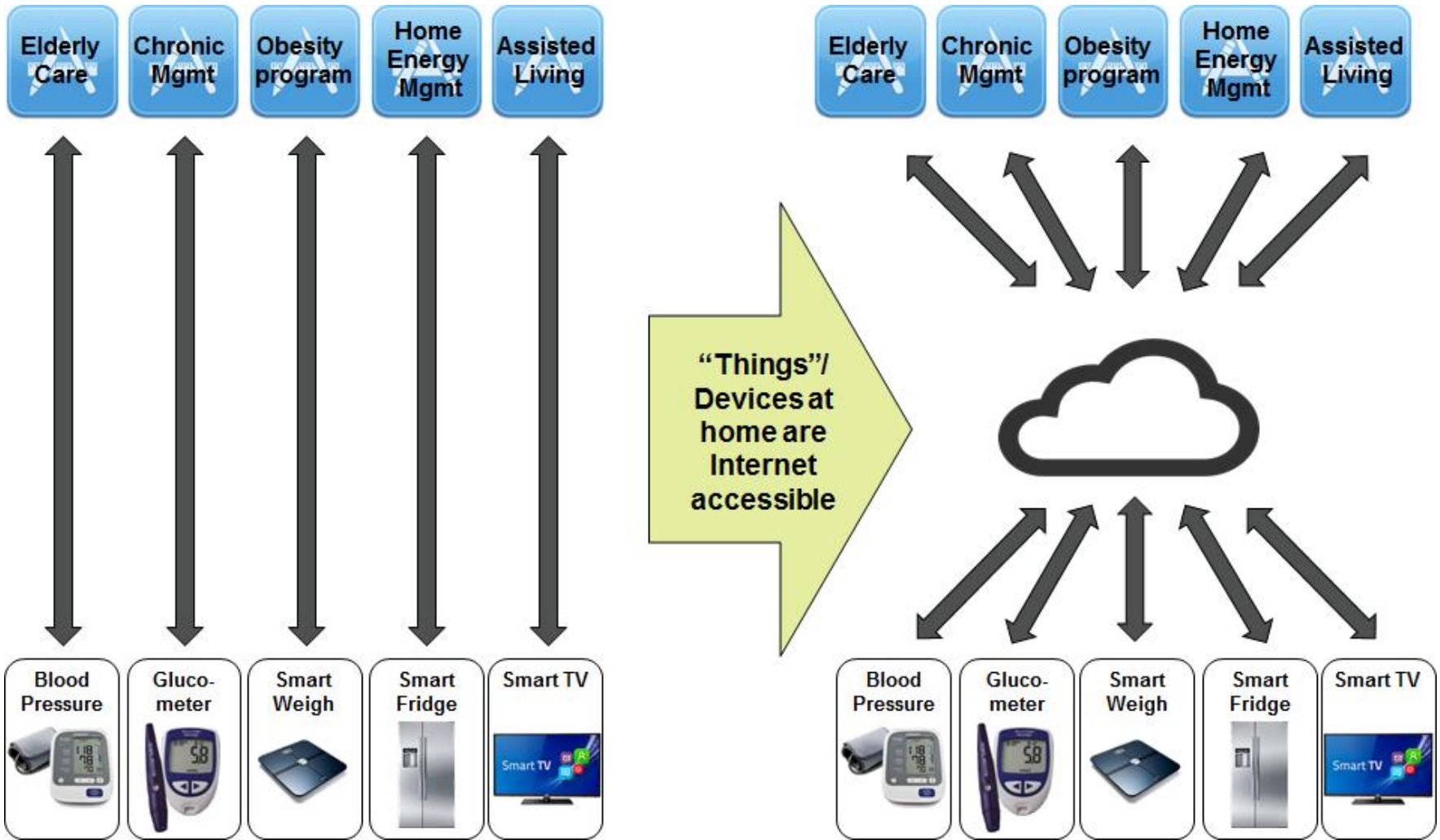
DATA  
EXCHANGE

SENSOR MGMT  
VIDEO  
NON-VIDEO



# IOT FOR SMART HOMES

WORKING WITH MULTIPLE DOMAINS



# SMART HOME TRIALS

MULT-AGENCY EFFORT

## 1<sup>st</sup> Stage

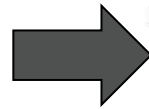
### Technology Trial



Nov 14 - Jun 15

## 2<sup>nd</sup> Stage

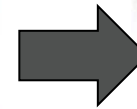
### Smart Homes Field Showcase



Jun 15 - Nov 15

## 3<sup>rd</sup> Stage

### Field Trial



2016 onwards



# MANY SMART CITIES; ONE SMART NATION

**THANK YOU**