

# WeGO Smart City Driver Workshop I

- Submit your project through the Activator –

August 27, 17:00-18:20 (KST)

## [ Guidelines for All Participants ]

- **Download the concept note** by visiting WeGO's website at: [we-gov.org/wego-smart-city-driver](http://we-gov.org/wego-smart-city-driver)
- **Kindly mute your microphone and turn off your webcam**, unless requested otherwise.
- **Type your questions on the chat box.** Questions will be selectively asked to the speakers during the Q&A session, time permitting.

# Opening Remarks

**Kyong-yul Lee | Secretary General**  
World Smart Sustainable Cities Organization



# Introducing the WeGO Smart City Driver

**Albert Graves | Program Director**  
World Smart Sustainable Cities Organization



# Introducing the WeGO Smart City Driver

## Q. What is it?

WeGO's overarching framework for cities to help **plan, finance, and deploy their smart city projects** through a range of **customized solution packages and matchmaking with strategic partners** that can assist in citywide implementation.

The WeGO Smart City Driver consists of three pillars:



**[Activator]** Online platform and main enabler of the WeGO Smart City Driver



**[Solution Finder]** Online survey used to propose “solution packages” developed by WeGO and partners



**[Project Implementer]** Flagship program that matchmakes cities with consultants and solution providers

Video: [https://www.youtube.com/watch?time\\_continue=5&v=2q2tTFeNsPk&feature=emb\\_logo](https://www.youtube.com/watch?time_continue=5&v=2q2tTFeNsPk&feature=emb_logo)

# Introducing the WeGO Smart City Driver

## **Q. Who can use it?**

Exclusively accessible to WeGO members – local governments, institutions, and corporations.

## **Q. How can I access the WeGO Smart City Driver?**

Register for an Activator account. Once approved by the WeGO Secretariat, you can access all the features of the Activator and participate in the WeGO Smart City Driver.

## **Q. How can I use the Activator?**

Visit <http://we-gov.org/wego-activator/> for detailed information on how to use the Activator.

With your approved Activator account, access the Activator: <https://wego.smartcitiesactivator.com>

# Introducing the WeGO Smart City Driver

---

## [Website]

Visit <http://we-gov.org/wego-smart-city-driver> for more information.

## [Contact]

Sofia Lee, Program Officer – Institutional Partnership Lead, at: [sofia@we-gov.org](mailto:sofia@we-gov.org)

# WeGO Smart City Driver Workshop I

- Submit your project through the Activator –

August 27, 17:00-18:20 (KST)

## [ Guidelines for All Participants ]

- **Download the concept note** by visiting WeGO's website at: [we-gov.org/wego-smart-city-driver](http://we-gov.org/wego-smart-city-driver)
- **Kindly mute your microphone and turn off your webcam**, unless requested otherwise.
- **Type your questions on the chat box.** Questions will be selectively asked to the speakers during the Q&A session, time permitting.

# 2020 Smart City Driver Online Workshop – Cauayan City

**Hon. Bernard Faustino Dy | Mayor**  
City of Cauayan





# History of Cauayan City with WeGO



**2016**

## **WEGO MEMBER**

THE CAUAYAN CITY HALL  
BECAME A FULL MEMBER  
IN 2016



**2017**

## **WEGO AWARDS**

PARTICIPATED IN THE 3<sup>RD</sup>  
WEGO AWARDS WITH THE  
ONLINE FOOD BANK  
PROJECT PROMOTING  
FOOD SECURITY AND  
SAFETY



**2019**

## **LEGISLATIVE MEETINGS**

PARTICIPATED IN THE  
WEGO EXECUTIVE  
COMMITTEE MEETING AND  
THE WEGO-DC SMART CITY  
ROUNDTABLE



**2021**

## **FEASIBILITY STUDY**

BENEFICIARY OF THE WEGO  
FEASIBILITY STUDY TO BE  
CONDUCTED ON DEVELOPING  
DIGITAL TWINS FOR TROPICAL  
STORM DAMAGE  
MINIMIZATION



# CAUAYAN CITY

## THE IDEAL CITY OF THE NORTH



### DIALECTS

ILOCANO,  
TAGALOG,  
GADDANG



### TOTAL POPULATION

140,21



### TOTAL OF BARANGAY

65  
BARANGAYS



### INCOME CLASSIFICATION

3<sup>RD</sup> CLASS COMPONENT CITY

### LAND AREA

34,335.879  
HECTARES  
LAND AREA



### PRODUCTS

Palay, Corn  
(yellow and  
white), Roots  
and Tubers  
(cassava,  
camote), Vegetab  
les and fruits



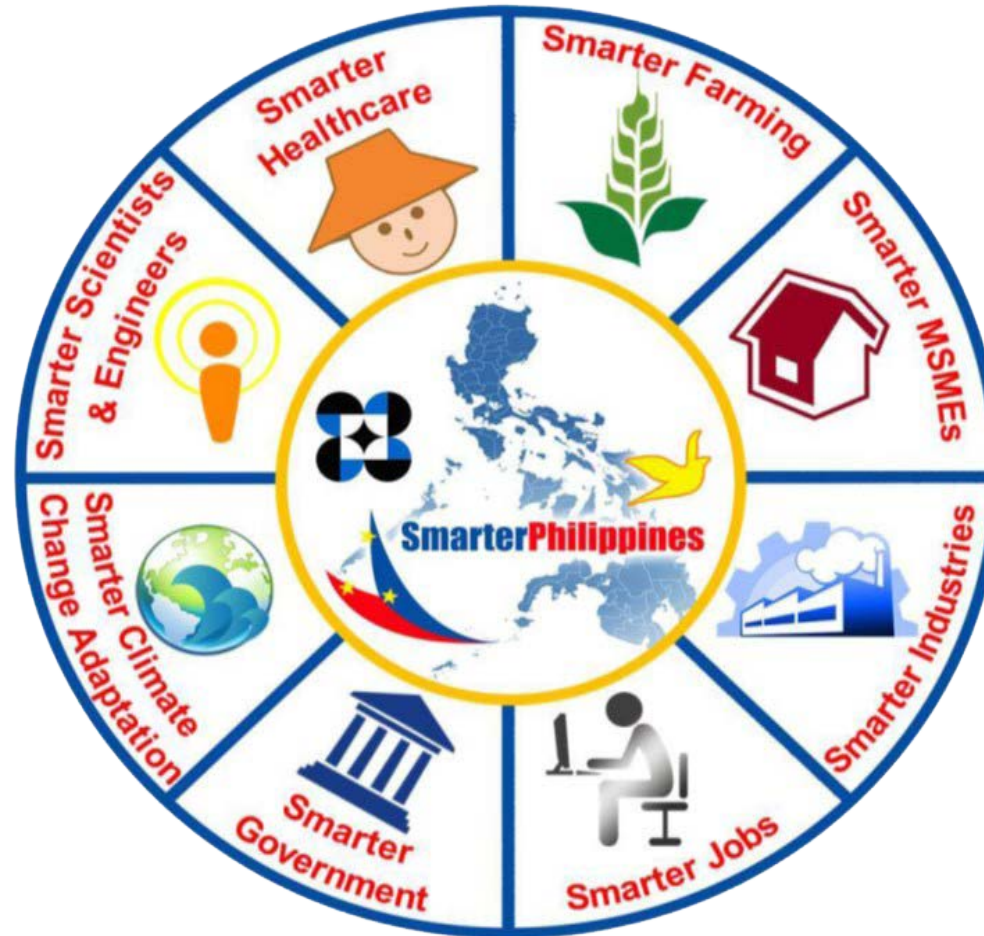
### MEANS OF LIVELIHO

AGRICULTURE  
TRADE AND  
COMMERCE  
SERVICES





# Smarter Cauayan City



March 25, 2015

# “Labing-pitong Hamon sa bawat Cauayeño”



REPUBLIC OF THE PHILIPPINES  
Province of Isabela  
CITY OF CAUAYAN

**HON. BERNARD FAUSTINO M. DY**  
CITY MAYOR



**SUSTAINABLE DEVELOPMENT GOALS**  
17 GOALS TO TRANSFORM OUR CITY



# MOU Signing for Smarter and Sustainable Cities

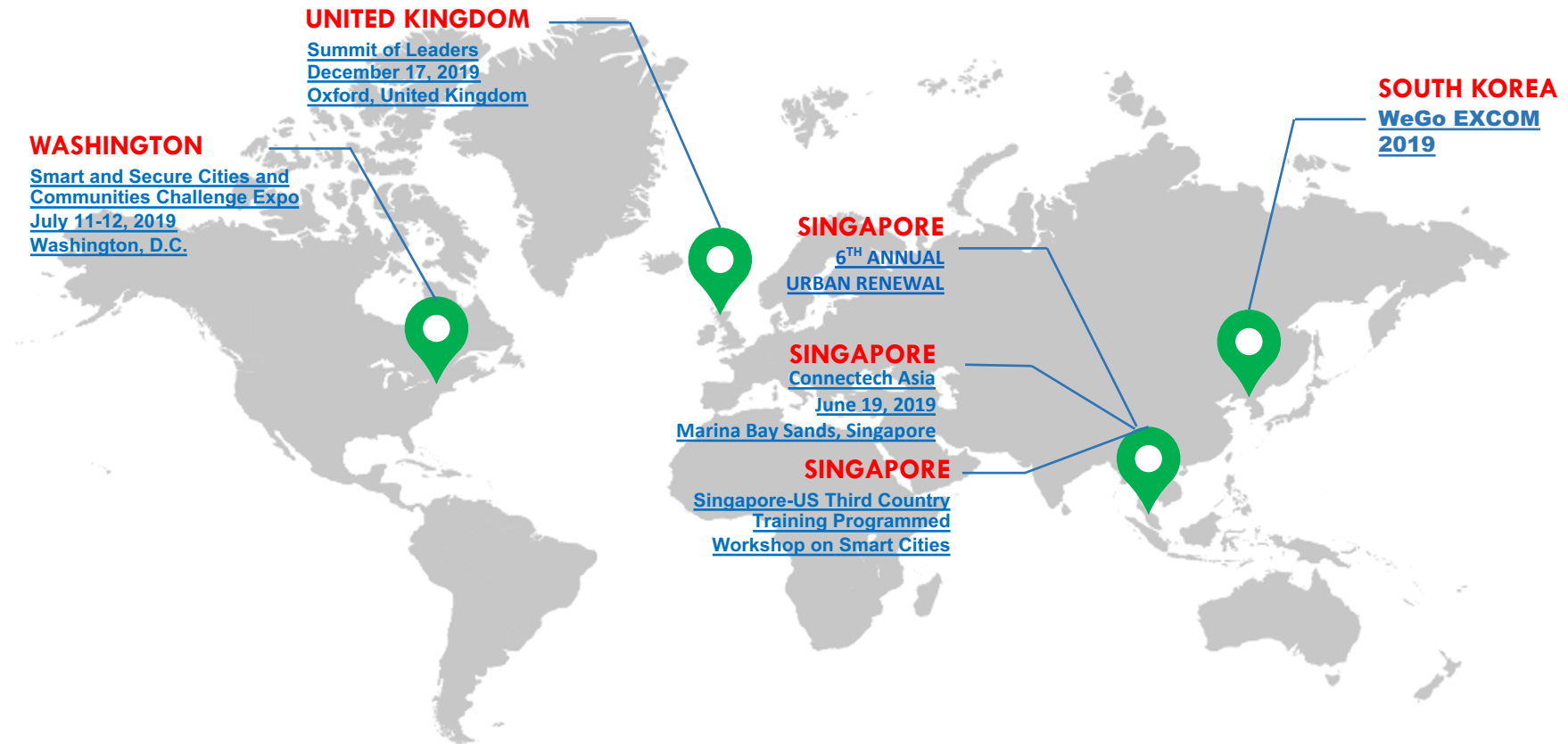


## BACKGROUND:

**MOU Signing for Smarter and Sustainable Cities  
in the Philippines between  
Cauayan City,  
Dept. of Science & Technology  
(DOST), Isabela State University  
(ISU), Smart Cities Council (SCC)  
and Smart Cities Network (SCN)  
25<sup>th</sup> January 2019**



# International Engagements





# Smarter Cities Project Activator Workshop





**SmartCities**  
**ACTIVATOR**

SMARTER AND SUSTAINABLE CAUAYAN CITY

**SmartCities**  
**ACTIVATOR**



★ **SMARTER AND SUSTAINABLE CAUAYAN CITY** Access: 

Project Template: **Smart City Project Template** Export  0 Comments

5 Recommended Module Types

▼ PROGRAM DETAILS 4 Recommended Module Types

**Description** 0

1 Values  
1 with Stakeholders assigned

**Goals** 0

6 Values  
1 with Stakeholders assigned

**Success Criteria** 0

7 Values  
0 with Stakeholders assigned



**Date:** 10<sup>th</sup> & 11<sup>th</sup> June 2019  
**Location:** Cauayan City, Philippines



**WeGO Project Implementer 2020**










**Submission deadline: March 15<sup>th</sup>, 2020**

**Cauayan LGU**



# Integrated Digital Twin of Cauayan City for Resiliency

## Challenges:

-  7 TYPHOONS IN 2019
-  2,061.20 HECTARES OF LAND FOR RICE AND CORN PRODUCTION WAS DAMAGED
-  PRODUCTION LOSS: 10,365.12 METRIC TONS OF RICE AND CORN
-  PRODUCTION LOSS: P22 MILLION
-  75 FAMILIES AFFECTED
-  335 HOUSEHOLDS AFFECTED
-  INSUFFICIENCY OF EARLY WARNING SYSTEMS
-  EXISTING COMMAND CENTER BUT FOR MONITORING CCTV'S ONLY
-  LACK OF FUNDS

## Proposed solutions:

TO PROVIDE A NEXT GENERATION COMMAND AND CONTROL SYSTEM WITH SITUATIONAL AWARENESS WITH ADDITIONAL SMART INTEGRATION:

- ✓ A WIDE AREA INTERNET OF THINGS (IOT) SENSOR NETWORK TO A DIGITAL TWIN DASHBOARD
- ✓ CITIZEN ENGAGEMENT WHERE CITIZEN FEEDBACKS AND RESPONSES ARE CAPTURED AND EVALUATED
- ✓ INTERNET-ENABLED CITY AND NATIONAL RESILIENCY NETWORKS OF NATION AND CAUAYAN CDDRM OFFICES

# Main Objectives

---

- **Establish Smart Communities in Cauayan City with representatives from all departments of the Cauayan City government.**
- **Develop the Digital Twin of Cauayan City with a Dashboard with important information, and integration to a select few CCTVs of the current Command and Control Center.**
- **Conduct “Train the Trainer” Workshops for city stakeholders and the CDDRM staff to leverage the smart infrastructure developed**

# Project Support

## Anticipated project period

*State the anticipated period of your city's proposed project.*

- Less than 6 months
- 6 months -1 year
- 1 year - 2
- ☒ year
- More than 2 years

## Anticipated total project budget

*State the anticipated total project budget of your city's proposed project.*

- None
- Less than 50,000,000 KRW (approx. 43,000 USD)
- 50,000,000 - 110,000,000 KRW (approx. 43,000 - 92,000 USD)
- ☒ USD)
- More than 110.000.000 KRW (approx. 92,000 USD)



## LOCAL SUPPORT: P10 MILLION BUDGET FOR SMART CITY PROJECTS

# Cauayan City selected as beneficiary of Project Implementer 2020



## Cauayan City selected as beneficiary of Project Implementer 2020

April 3, 2020

SEOUL – WeGO has selected Cauayan City, Philippines, as the beneficiary local government of the Project Implementer 2020 for its project proposal toward developing a data dashboard to minimize the impact of tropical storms on the city.



## Contact Details



cityofcauayan.gov.ph



fb.com/cityofcauayanofficial/



@lgucauayancity



#cauayancity



Lungsod ng Cauayan

**BERNARD FAUSTINO M. DY**

City Mayor

Email: [bernardfdy@cityofcauayan.gov.ph](mailto:bernardfdy@cityofcauayan.gov.ph)

Mobile No.: +639178932469

**ATTY. REINA CONSORCIA M. SANTOS**

City Infotech Officer/ Smarter City Officer

Email: [cityinfotech@cityofcauayan.gov.ph](mailto:cityinfotech@cityofcauayan.gov.ph)

Mobile No.: +639175599091

***Mab-balat!***  
**(THANK YOU!)**



# WeGO Smart City Driver Workshop I

- Submit your project through the Activator –

August 27, 17:00-18:20 (KST)

## [ Guidelines for All Participants ]

- **Download the concept note** by visiting WeGO's website at: [we-gov.org/wego-smart-city-driver](http://we-gov.org/wego-smart-city-driver)
- **Kindly mute your microphone and turn off your webcam**, unless requested otherwise.
- **Type your questions on the chat box.** Questions will be selectively asked to the speakers during the Q&A session, time permitting.

# WeGO's Feedback to Cauayan City project

**Albert Graves | Program Director**  
World Smart Sustainable Cities Organization





# WeGO Smart City Driver Workshop I

- Submit your project through the Activator –

August 27, 17:00-18:20 (KST)

## [ Guidelines for All Participants ]

- **Download the concept note** by visiting WeGO's website at: [we-gov.org/wego-smart-city-driver](http://we-gov.org/wego-smart-city-driver)
- **Kindly mute your microphone and turn off your webcam**, unless requested otherwise.
- **Type your questions on the chat box.** Questions will be selectively asked to the speakers during the Q&A session, time permitting.

# 2020 Smart City Driver Online Workshop – Kampala City

**Martin Ssekajja | Deputy Director ICT**  
Kampala Capital City Authority



# History of Kampala with WeGO



**2017**

## **WEGO MEMBER**

THE KAMPALA CAPITAL CITY  
AUTHORITY (KCCA)  
BECAME A FULL MEMBER  
IN 2017



**2017**

## **WEGO AWARDS**

WON THE SILVER AWARD IN  
THE COOPERATIVE CITY  
CATEGORY FOR ITS  
REVENUE MODERNIZATION  
PROJECT



**2018**

## **CAPACITY BUILDING**

PARTICIPATED IN THE E-  
GOVERNMENT TRAINING  
PROGRAM AND THE WEGO  
SMART CITY WEEK



**2019**

## **FEASIBILITY STUDY**

APPLICANT AND  
BENEFICIARY OF THE 2019  
WEGO FEASIBILITY STUDY  
ON SMART PARKING IN THE  
GREATER KAMPALA  
METROPOLITAN AREA

# Presentation Summary

- Introduction of Kampala and the city's Smart city initiative and/or policy, and how it links to the smart city project in focus.
- Objective of the Smart City project in focus.
- Current Investments and Stakeholders.
- Kampala City and WeGO.
- WeGO's Role.
- Difficulties in expanding the pilot project to citywide implementation.
- Next steps regarding the smart city project (future envisioning).









# Introduction

---

Kampala Capital City Authority (KCCA) is a body corporate responsible for administering Kampala Capital City on behalf of central government subject to the KCC Act 2010.

## **KCCA STRATEGY**

### **Vision**

To be a Vibrant, Attractive and Sustainable City

### **Mission**

Provide Quality services to the City

### **ICT Strategy**

“Towards a Smart City”

# Profile of Kampala City

## City Population:

Resident popn is est. at **1.5 million** while day population est. at **4 million**.

**5.2%**

The current growth rate of the urban population

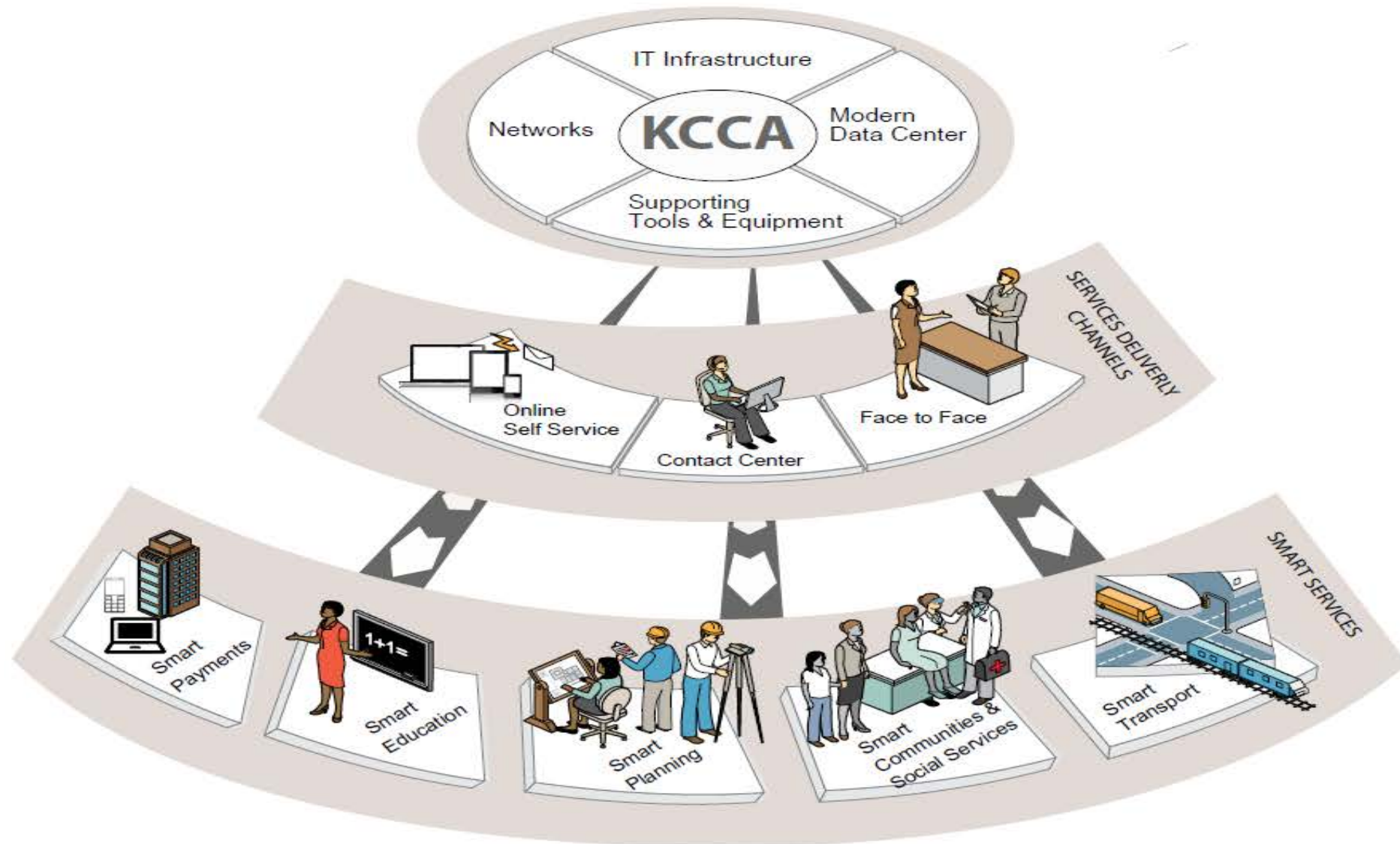
**60%**

The city's contribution to Uganda's GDP.

**10 Million**

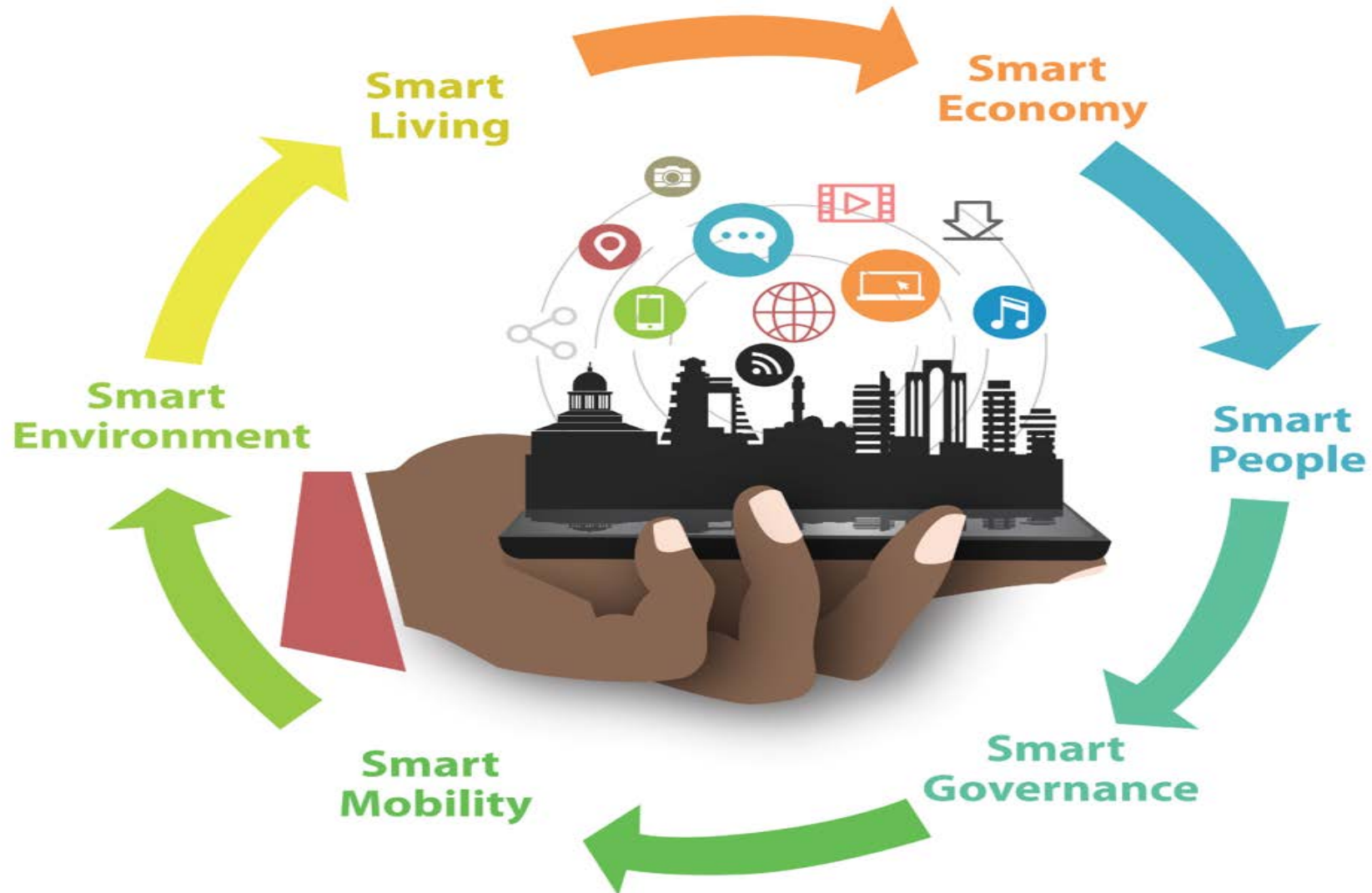
Projected population by 2040 (source: KPDP).

# Kampala's Smart City Roadmap in 2014





# Kampala's Smart City Strategy 2020-2026-



# Smart Mobility – Smart Parking Solution

Smart Mobility Initiative has three components:

1. Smart transportation
2. Smart Navigation and Incident reporting.
3. Smart Parking

Given that road transport is the major form of transport in the City, coupled with the ever increasing urban development and economic activity in the City, traffic congestion has become a nightmare and major hindrance to navigation and doing business in the City. Whereas KCCA has in recent times invested in revamping all roads in the City and opening up new roads, it has remained the Authority's desire to streamline parking as part of the wider solution to traffic congestion.

In line with her Smart City Strategy to run for the next five years (FY2020/21-FY2025/2026), KCCA intends to implement a Smart Parking Management Solution to streamline City parking and support the Authority's Vision towards a Smart City. The Smart Parking concept involves the categorization of parking zones, automation of parking procedures, automation of payment processes for parking, sensitization of the road users on parking procedures and standards, introduction of parking fines and parking enforcement.

# Objective of the Smart Parking Management Solution

The main objective of this Smart City Project is to provide an adequately designed system that will improve City Parking Management and ensure the development of a Smart City.

**Specifically, the solution is intended to;**

- Help in reducing traffic congestion.
- Improve access for parking thereby reducing users' costs related to delayed parking.
- Facilitate navigation by providing vehicle users with possible shortage routes for the parking from any area of the city.
- Improve the overall security of vehicles parked in the City.
- Increase the Authority's revenue collections from parking fees to support its service delivery mandate.

# Current Investments and Stakeholders

- This proposal falls in line with the Multi-Modal Urban Transport Master Plan for Greater Kampala Metropolitan Area (GKMA) for the period of FY25-FY40.
- As a part of the framework brings to plans on development of mobility management and Intelligent Transportation System including new parking system establishment for the GKMA.
- As part of the Smart transportation agenda, Kampala has a pilot Smart Traffic Control center with 14 traffic signals that is going to be scaled up with sixty-nine junctions in the next 3 years with the support of Japan International Cooperation Agency (JICA).
- The Smart City Strategy 2020 to 2026 prioritizes Smart Parking solution.

# Kampala City and WeGO

- Kampala City has been a member of WeGO since 26<sup>th</sup> April 2017.
- 22nd April 2019 Kampala Submitted Commitment form and proposal for the WeGO Smart Sustainable City Feasibility Study 2019.
- The proposal title was **“The Smarter City, the Greater Kampala Metropolitan Area: The Unified Smart Parking Platform.”**
- Kampala was announced as the beneficiary city on 11th June 2019. The decision was made in consideration of selection criteria including relevance with WeGO’s theme of 2019 “Generating Actionable Data for Smarter Cities,”
- **Reason to seek WeGO’s help.**
  - *To seek funding for a technical feasibility study for the Smart Parking Solution.*
  - *To increase the number of strategic and funding partners for the project.*
  - *The authority’s desire to “get it right” before committing resources, time, or budget.*

# WeGO's Role- The Feasibility Study

---

Kampala's experience with the WeGO Smart City driver has been enlightening. The application and selection criteria was very transparent.

After announcing Kampala as the beneficiary city, WeGO secretariat selected and recruited **SRPOST** as the consulting company and solution provider.

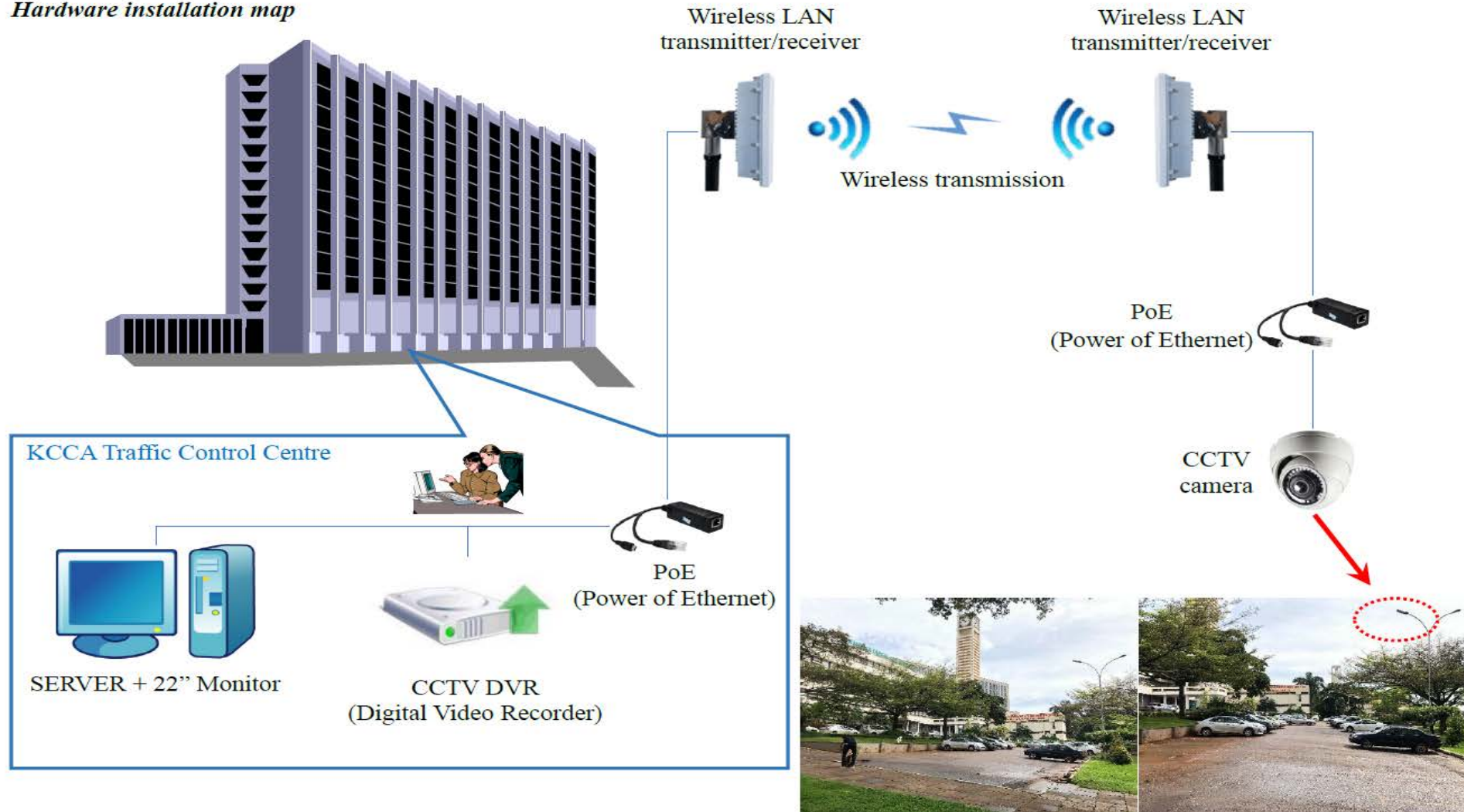
The scope was a technical feasibility study. KCCA needed to determine whether the technical resources meet capacity and whether the technical team is capable of converting the proposal into working solution.

The feasibility study involved the evaluation of existing infrastructure and technical requirements of the proposed system.

The feasibility study revealed new ideas that could completely change a project's scope.

# The System/Solution Prototype Installed

*Hardware installation map*



# Difficulties in expanding the pilot project to citywide implementation

**1. Choice of technology used for communication-** Wireless link.

Citywide deployment of wireless links is prone to many interferences. For example weather, birds, etc...The use of sensors and other technologies will be a better option.

**2. System design:** The prototype does not have a way of identifying the owner of the car occupying a parking slot. It doesn't have a payment method integration. The system prototype does not allow booking for parking and does not indicate for how long a parking space has been occupied. It does not have navigation functionality to the parking slot. The system functionalities have to be improved.

**3. Limited funding:** The rollout of the project citywide is resource intensive. There is need for more development partners to support the initiative.



## Next steps regarding the smart city project (future envisioning)

---

- ☐ Re-define the terms of reference for the Unified Smart Parking Solution.
- ☐ Identify suitable technology to use.
- ☐ Seek more funding partners.
- ☐ Build staff capacity.



**THANK YOU**

 [www.kcca.go.ug](http://www.kcca.go.ug)

 0800990000

 [info@kcca.go.ug](mailto:info@kcca.go.ug)

    /kccaug



# WeGO Smart City Driver Workshop I

- Submit your project through the Activator –

August 27, 17:00-18:20 (KST)

## [ Guidelines for All Participants ]

- **Download the concept note** by visiting WeGO's website at: [we-gov.org/wego-smart-city-driver](http://we-gov.org/wego-smart-city-driver)
- **Kindly mute your microphone and turn off your webcam**, unless requested otherwise.
- **Type your questions on the chat box.** Questions will be selectively asked to the speakers during the Q&A session, time permitting.

# WeGO's Feedback to Kampala City project

**Albert Graves | Program Director**  
World Smart Sustainable Cities Organization



# WeGO Smart City Driver Workshop I

- Submit your project through the Activator –

August 27, 17:00-18:20 (KST)

## [ Guidelines for All Participants ]

- **Download the concept note** by visiting WeGO's website at: [we-gov.org/wego-smart-city-driver](http://we-gov.org/wego-smart-city-driver)
- **Kindly mute your microphone and turn off your webcam**, unless requested otherwise.
- **Type your questions on the chat box.** Questions will be selectively asked to the speakers during the Q&A session, time permitting.

# Q&A





# WeGO Smart City Driver Workshop I

- Submit your project through the Activator –

August 27, 17:00-18:20 (KST)

## [ Guidelines for All Participants ]

- **Download the concept note** by visiting WeGO's website at: [we-gov.org/wego-smart-city-driver](http://we-gov.org/wego-smart-city-driver)
- **Kindly mute your microphone and turn off your webcam**, unless requested otherwise.
- **Type your questions on the chat box.** Questions will be selectively asked to the speakers during the Q&A session, time permitting.