



Solutions Meet Cities: Online Matchmaking Webinar

June 22, 7:00-8:20 GMT | 16:00-17:20 KST (Zoom)

Opening Remarks

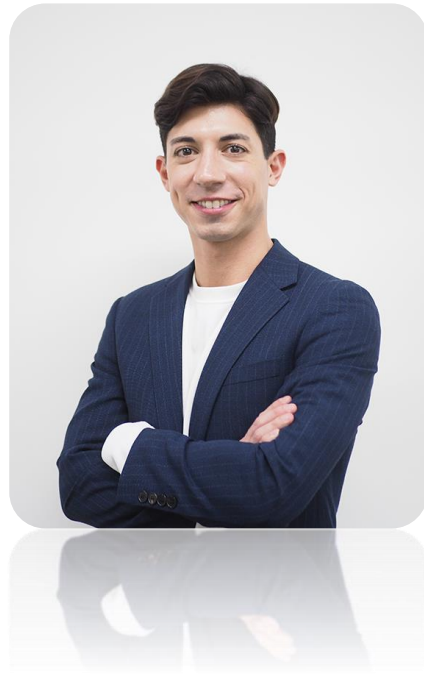


Eunbyul (Elena) Cho

Program Manager

World Smart Sustainable Cities Organization (WeGO)

Program Introduction



Todor Merdjanov

Corporate Partnerships Officer

World Smart Sustainable Cities Organization (WeGO)

Program

How can cities solve their urban challenges using smart city solutions?

How can companies promote their innovative solutions and form partnerships for international smart city projects?

Where should cities search for the right solutions, how to connect and who can assist in the process?

Program

- 16:00 Introduction by WeGO
- 16:10 City Proposals: Projects and Partnership Opportunities
- *Seberang Perai*
 - *Abuja (Digizens)*
- 16:30 Matchmaking: Providing Solutions and Feedback on Proposals
- *SRPOST Inc.*
 - *Qlue*
 - *WeavAir*
- 17:00 Discussion. Q&A



Introduction to WeGO & the Smart City Driver

Achieving smart sustainable cities for a better future

WeGO's definition of smart sustainable cities:

“Innovative cities that leverage digital technology and connectivity to improve the quality of life, efficiency of urban operation and services, and economic prosperity for all citizens, while ensuring long-term economic, social, and environmental sustainability.”



WeGO is an international association of



Local Governments



Corporations



**National & Regional
Institutions**

Committed to the transformation of cities into smart sustainable cities.

VISION

- Smart Sustainable Cities for All



UN SDG 11

MISSION

- To promote and facilitate the transformation of cities to smart sustainable cities worldwide.
- To be a global platform for cities to transform into smart sustainable cities.
- To foster international exchange, cooperation, and networking among members.

WeGO's Network

213 Members

Regional Offices

Organizational Chart

| | | |
|-------------------|--------------|--------------|
| Local Governments | Corporations | Institutions |
| 158 | 36 | 19 |



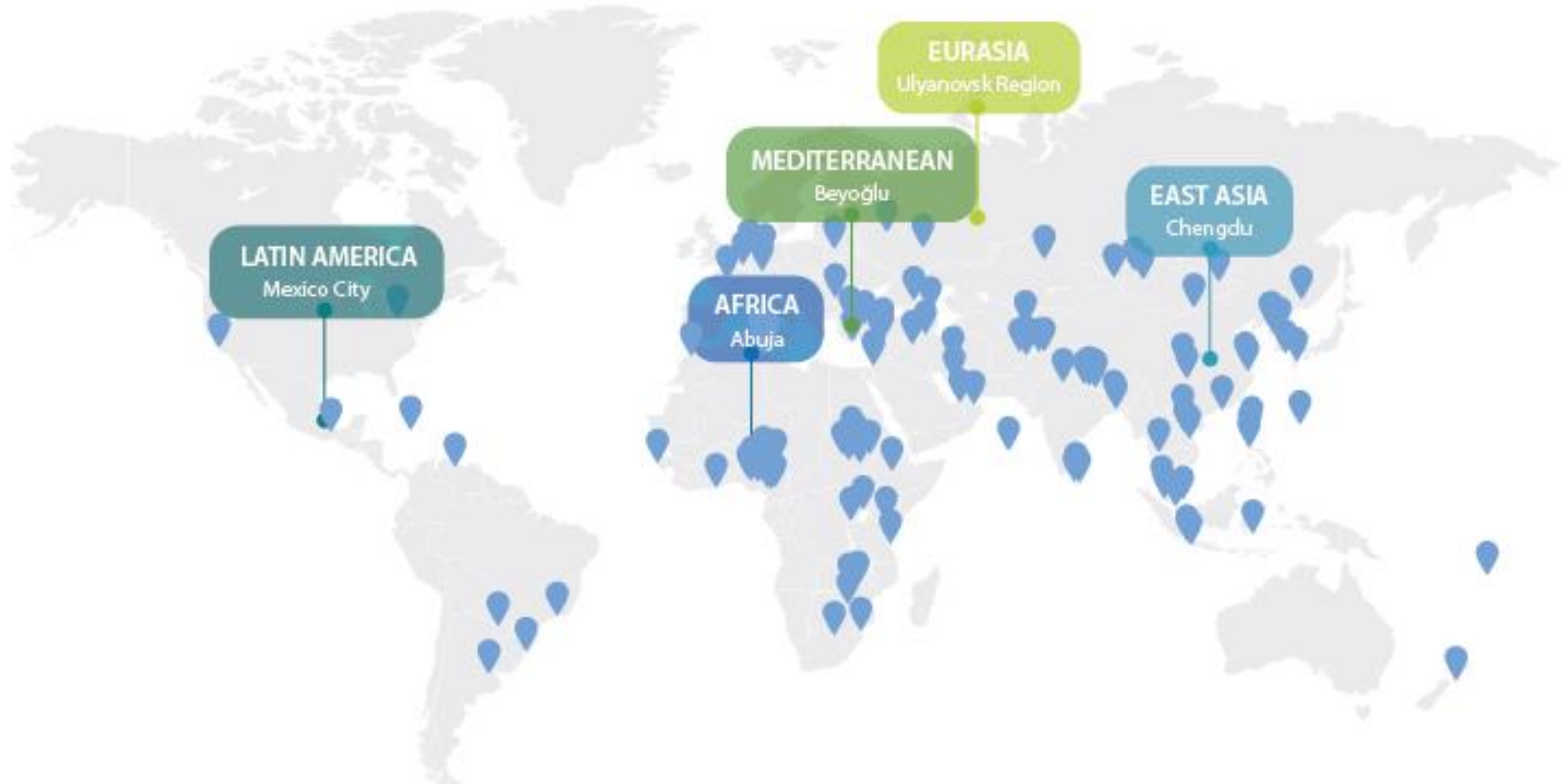
213 Members

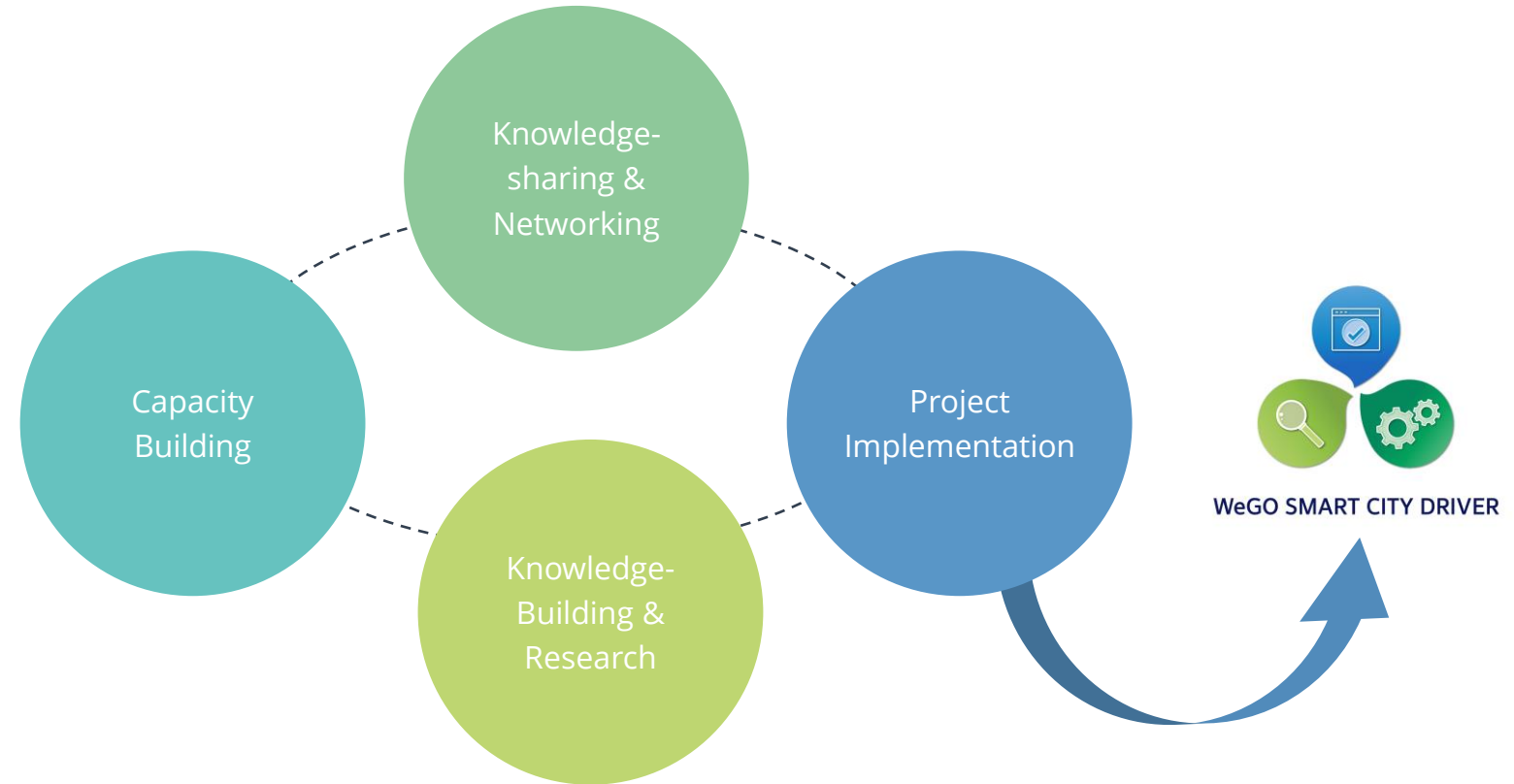
158
Local Governments

36
Corporations

19
Institutions

LOCAL GOVERNMENTS | 158





Past feasibility study and pilot project programs

Overview of feasibility studies conducted since 2010.

\$1.3 mln.
14 beneficiaries
since 2010



Feasibility Studies & Pilot Projects

2019 WeGO Feasibility Study Recipient: Kampala, Uganda (KCCA):

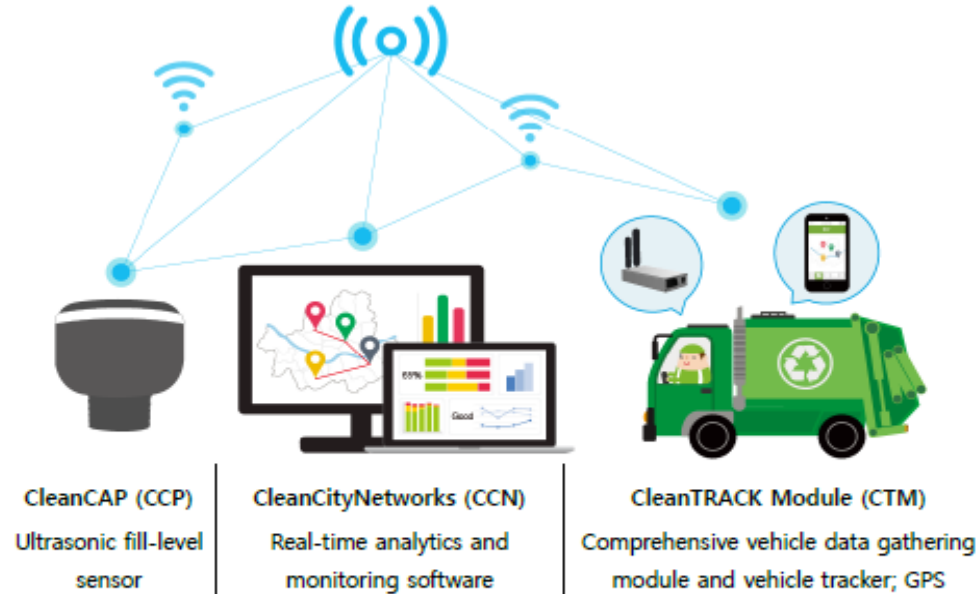
The Smarter City, the Greater Kampala Metropolitan: The Unified Smart Parking Platform

- ✓ **2018-Da Nang, Vietnam** - Data Analytics for Smart Traffic
- ✓ **2017-La Marsa, Tunisia** - Smart Waste Management System
- ✓ **2016-Seberang Perai, Malaysia** - Smart Street Lamp & Traffic Light Monitoring System
- ✓ **2015-San Fernando, La Union** - Civic Participation System
- ✓ **2014-Hanoi, Vietnam** - Civic Participation-Based e-Government System
- ✓ **2013-Addis Ababa, Ethiopia** - e-Office System
- ✓ **2013-Maputo, Mozambique** - Claims & Solid Waste Management
- ✓ **2012-Dar es Salaam, Tanzania** - Digitalization of Administrative Tasks
- ✓ **2012-Ulaanbaatar, Mongolia** - Spatial Data Infrastructure (Underground Facilities such as Network)
- ✓ **2012-Buenos Aires, Argentina** - Smart Citizen Service Hub with Smart Card
- ✓ **2010-Dar es Salaam, Tanzania** - e-Government Development Status Report & Recommendations
- ✓ **2009-Kathmandu, Nepal** - e-Government Development Status Report & Recommendations

Past feasibility study and pilot project programs

WeGO Feasibility Study 2017

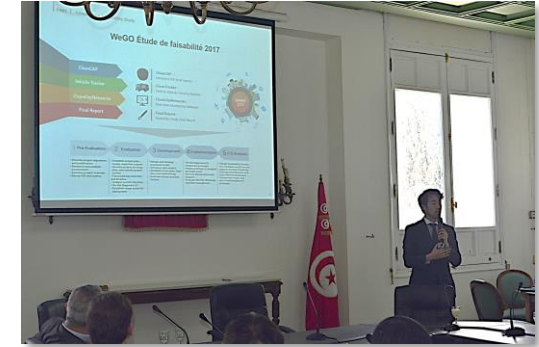
Implementing Smart Waste Management System in La Marsa, Tunisia



The prototype system entails three primary components: two types of hardware technologies (CleanCAP and CleanTRACK) and a cloud software network (CleanCityNetworks, CCN).

IT ACTUALLY WORKS!

- ✓ Melbourne City Council – 85% collection reduction
- ✓ Seodaemun District, Seoul – 45% collection efficiency increase
- ✓ Dublin Airport – 94% collection decrease
- ✓ Ghent, Belgium – 60% operational efficiency increase
- ✓ PSSI, California, US – 50% collection reduction



Past feasibility study and pilot project programs



Data Center and DATRAMAC Monitoring Center



Traffic Data Flow from CCTV

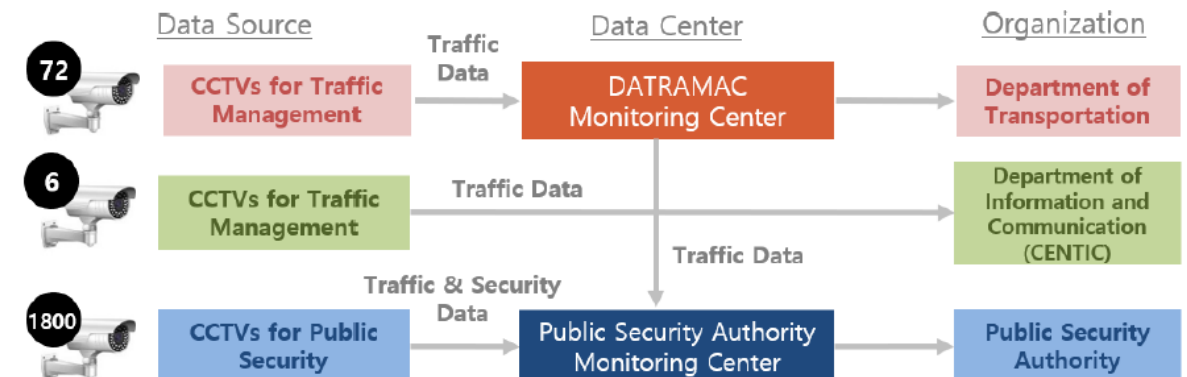
WeGO Feasibility Study Program 2018

Data Analytics Platform for Smart Traffic in Da Nang

IGB & COMPANY

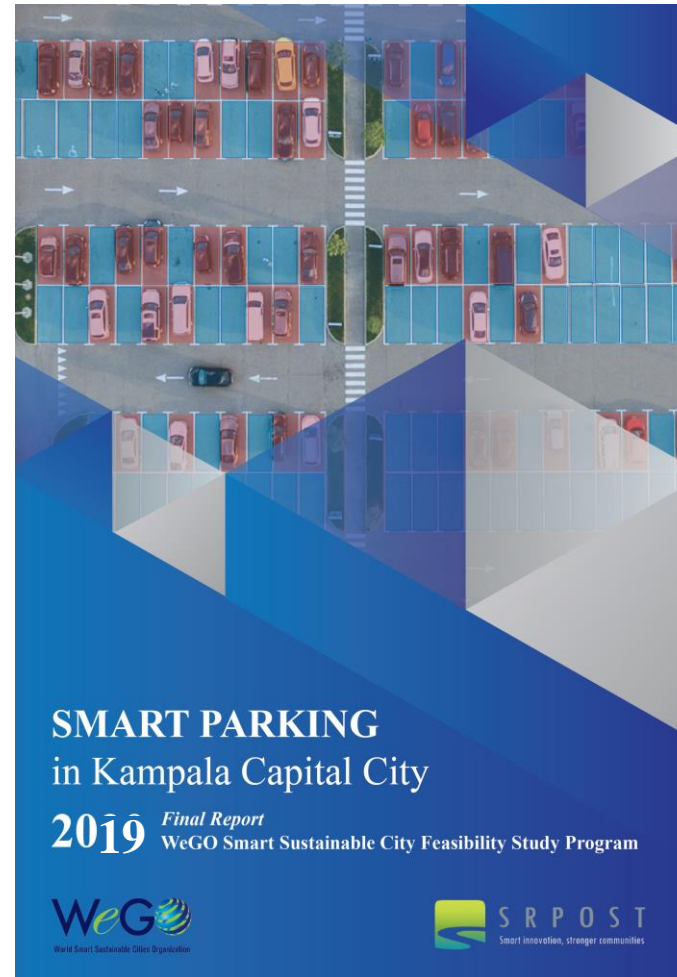
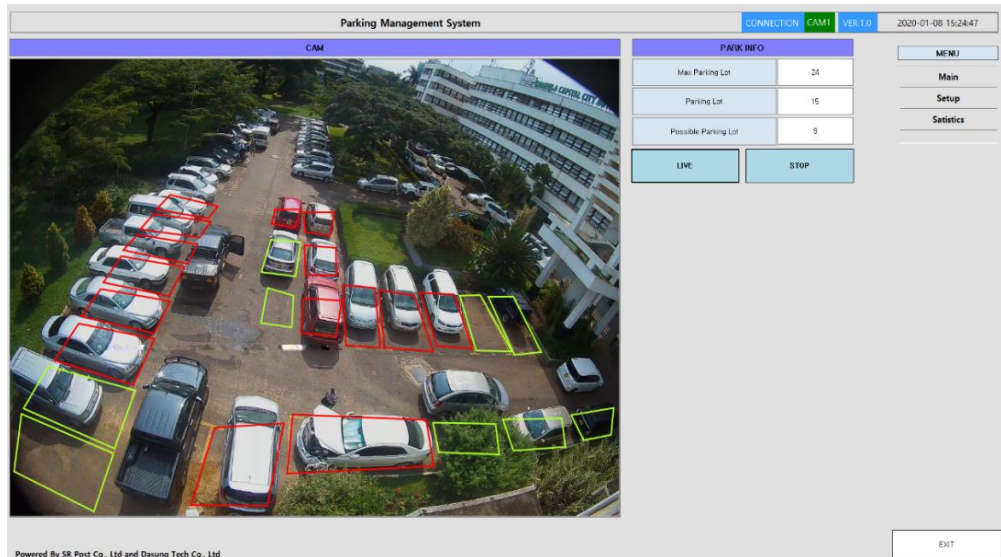
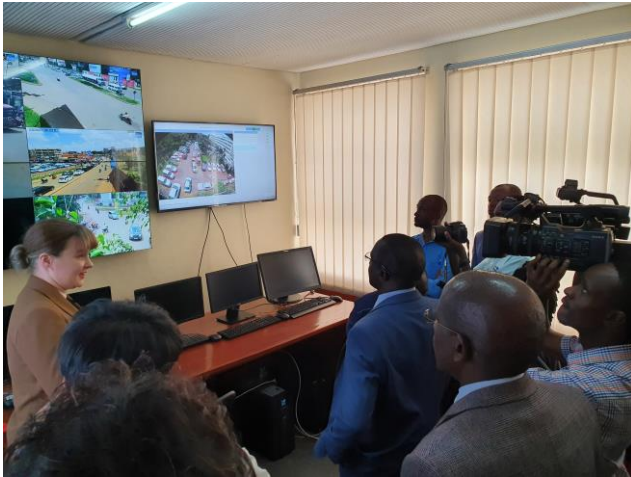


Data Streams



Past feasibility study and pilot project programs

Kampala, Uganda – Smart Parking System



NEW VISION, Friday, January 10, 2020 9

KCCA to decongest Kampala with smart parking system

By Juliet Waiswa and Diana Babirye

Kampala Capital City Authority (KCCA) has partnered with the World Smart Sustainable Cities Organisation (WeGO) to reduce traffic jam in the city and enable motorists to save fuel.

KCCA acting deputy executive director, Samuel Sserukuuma, said the system will be rolled out in the central business district, which is most affected by lack of enough parking space.

How the system works

Speaking yesterday at the roll out of the smart parking system in Kampala, Sserukuuma said motorists will be required to download an application on smartphones to obtain information about which streets have free parking space.

Drivers will also be able to pay for parking fees using mobile money.

The first five minutes of parking will be free.

Sserukuuma said the

companies currently managing street parking, such as Multiplex, will compete with others for the tender.

"As of now, KCCA is going to acquire space where vehicles will park as they pilot the system," he added. Anastassia Brehhunova, one of the innovators of the system, said a study was carried out three months ago.

Brehhunova said a CCTV camera will be installed at the entrance of the parking slots to ensure safety of vehicles.

Parks around Kampala such as Namayiba Bus Terminal, New and Old taxi parks and Usafi Park were visited in order to design a better system.

Some road users, however, say KCCA should first get rid of bodaboda cyclists because they take up parking slots.

Kampala is estimated to have a day population of 2.5 million people and 1.5 million at night. This means that one million people enter Kampala during the day and leave in the evening daily using over 12,500 taxis.

WeGO's Network

213 Members

158
Local Governments

36
Corporations

19
Institutions

CORPORATIONS



INSTITUTIONS



What is WeGO SMART CITY DRIVER



WeGO SMART CITY DRIVER

The WeGO Smart City Driver is 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.

What is WeGO SMART CITY DRIVER



WeGO Activator



WeGO Activator

An innovative, comprehensive, and collaborative online platform, which serves as the WeGO Smart City Driver's main enabler and is a tool that helps streamline the application process for the Solution Finder and Project Implementer.

How To



1. Go to the homepage, and create your account.

<https://smartcitiesactivator.com>

2. After verifying your identity and account, the WeGO Secretariat will grant you access to the Activator platform.

WeGO SMART CITY DRIVER

Choose the statement that best fits you:



WeGO Solution Finder



WeGO Solution Finder

A comprehensive survey that extracts key data on ongoing or prospective smart city projects by local governments—at any stage of their lifecycle—which is then used to pinpoint and propose “packages” of solutions that can contribute to and strengthen the resources necessary for successful, citywide implementation. Packages consist of custom solutions available for export by smart city consultants, tech companies, development aid agencies, and other strategic partners around the world.

How To



1. Answer the questionnaire with the content you have.
2. WeGO will schedule a one-on-one call with you to further discuss in details your answers.
3. With your answers, WeGO will produce a short summary.
4. The city confirms the summary.

Project Implementer



WeGO Project Implementer

WeGO flagship program to help cities assess their current smart city development status, draw practical strategies and implement projects that align with the local and/or national development goals and plans, in cooperation with the selected consultants. For each beneficiary local government whose project proposal is selected, WeGO sponsors approx. USD 92,000 toward services from a consultant and solution provider with the needed expertise.

Project Implementer



Option A:

Be selected by WeGO
for its own program.



Option B:

WeGO connects you with partners
for solutions and funding.

WeGO Smart City Driver Workshop at 2020 EXCOM

- **City: Ramallah**

- **Challenge: Public Transportation**
- **Partner: Solar Impulse Foundation**

- **Tracks utilized: Solution Finder, Project Implementer**

→ **Outcome: Solution providers shortlist and connection**

- **City: Abuja**

- **Challenge: Public Traffic**

- **Partner: Smart Cities Council**

- **Tracks utilized: Solution Finder, Project Implementer**

→ **Outcome: Expert consultancy for planning**



WeGO
Smart City Driver
Online Workshop



Martins Dibang-Achua
Abuja Municipality
Program Specialist



Safaa Aldwaik
Ramallah Municipality,
Director of GIS & IT Department



Philip Bane
Managing Director



Remy Kalter
Solar Impulse Foundation,
Head of Public Affairs



Moderated by: Sofia Lee
Program Officer,
WeGO Secretariat





SOFA LEE
Program Officer, WeGO Secretariat



MARTINS DIBANG-ACHUA
Abuja Municipality Program Specialist



SAFAA ALDWAIK
Ramallah Municipality, Director of GIS & IT Department

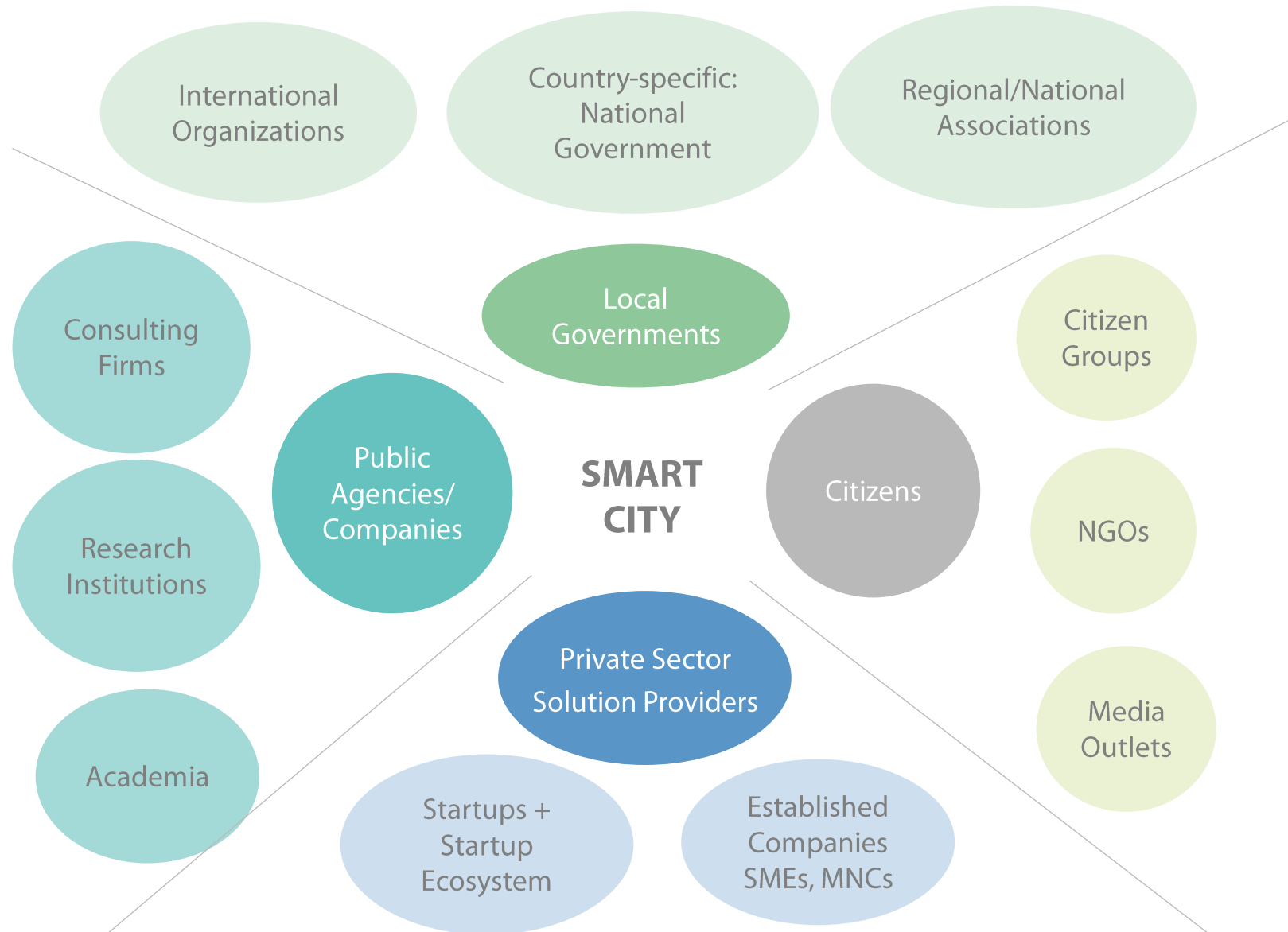


PHILIP BANE
Managing Director



REMY KALTER
Solar Impulse Foundation, Head of Public Affairs

Smart City Ecosystem Map



WeGO's Network

213 Members

158
Local Governments

36
Corporations

19
Institutions

CORPORATIONS



INSTITUTIONS



WeGO's Partners

MOU PARTNERS | 16



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>

Knowledge-building & Research Activities

Knowledge-Building & Research

- Smart City Resources
 - Projects Catalog

Projects Catalog

ALL PROJECTS

FILTER BY

Region

- ☐ Africa
- ☐ Asia
- ☐ Europe
- ☐ North America
- ☐ Oceania
- ☐ South America

Sector

- ☐ Agriculture
- ☐ Civil Engineering
- ☐ Connectivity
- ☐ Disaster Risk Management
- ☐ Education
- ☐ Energy Efficiency
- ☐ Healthcare
- ☐ Innovation & Startups
- ☐ Public Safety
- ☐ Public Transportation
- ☐ Resilience & Circular Economy
- ☐ Tourism
- ☐ Traffic Management
- ☐ Waste Management
- ☐ Water Management
- ☐ e-Government

Stakeholders

- ☐ Academia
- ☐ Design Development Agency
- ☐ Local Government
- ☐ MDS
- ☐ National government
- ☐ Private Sector
- ☐ Public Agency
- ☐ Regional Government

Blue Smart City Participation System

Jakarta Smart City Portal

Open City Initiative

Integrated Real-time Information and Analytics System

Smart Street Lighting Management System

Blue Smart City Participation System

Street Lamps and Traffic Lights Monitoring System

Form to Fork Tracking Project

Utilizing Technology to Reduce Municipal Fleet Size

Big Data Campus

After Class Project: Data School Study Groups and Activities for Children

New Taipei City Library 2.0

OVERVIEW

Implemented in 2016

Project Duration: Indefinite

Funding Source: Government

FEATURES

- Data is encrypted and analyzed over Virtual Desktop Interface (VDI).
- The program was made to comply with existing legislation, including privacy legislation ensuring that no modification of laws would be necessary.
- Civic groups and local multi-partisan Government work together on campus to promote policy suggestions and ways to solve social problems.
- The Big Data Campus provides a variety of online and offline courses on big data to enhance the awareness on big data among ordinary citizens.
- It provides various kinds of database and statistical analysis solutions.

KEY RESULTS

- Since its implementation until 2016, 302 analyses of data have already occurred by users from universities, NGOs, and individuals.
- Social Multi-partisan Government deems this attempt to be a success, and expects numbers to steadily increase, as the scope of datasets will increase as well.
- University students have also taken advantage of the data analysis education offered by the campus. Some programs proposed so far include education in traffic, healthcare, the economy, and safety.
- In future expansions to the project, the city also plans to utilize the campus for human resource development in training professional data analysts.

RESOURCES



WeGO SMART CITY DRIVER

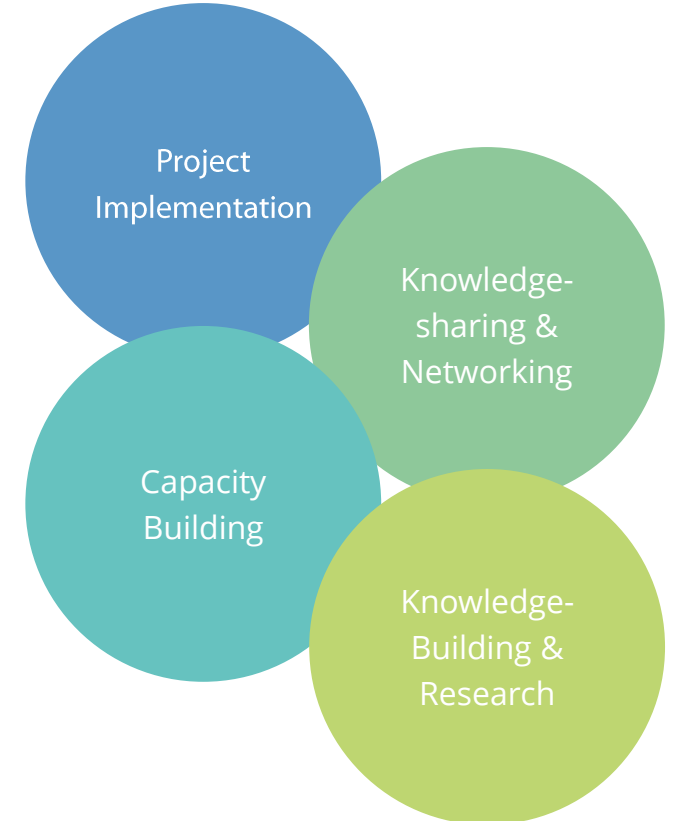


Benefits of joining us

- Access to all our events and services
 - Attend international events with WeGO
 - Eligibility to our training programs
 - Access to the Smart City Driver, eligibility for the WeGO Project Implementer
- Matchmaking of local government with solution providers and other partners.
 - At the ideation stage
 - At the implementation stage
- Funding of one feasibility study and pilot project per year
- Opportunity to share your best practice, and/or learn from others
- Jointly organize programs that you might want to do



WeGO SMART CITY DRIVER



Thank you.

 <https://we-gov.org>

 /WeGovOrg

 /WeGovOrg

 /WeGO Secretariat

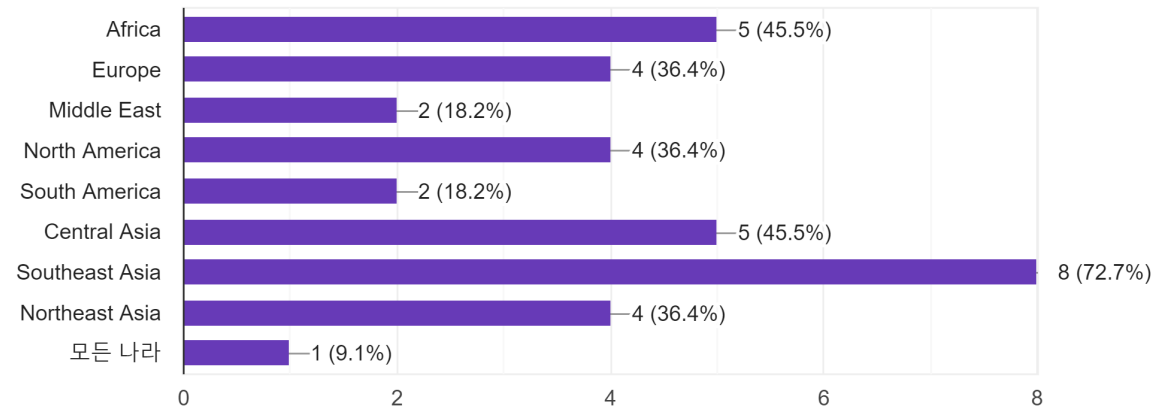
SESSION I

City Proposals: Projects and Partnership Opportunities

Survey Results

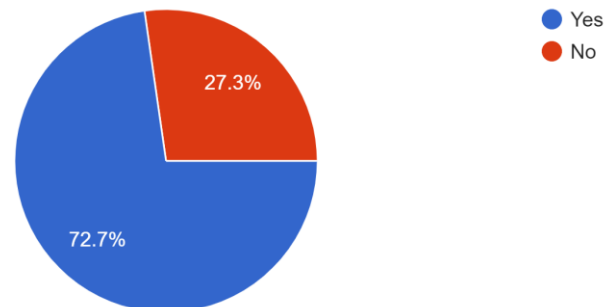
6. Which of the following are the main target regions for your company?

11 responses



11. Is your company interested in presenting its products and solutions in a matchmaking session with WeGO city members and partners?

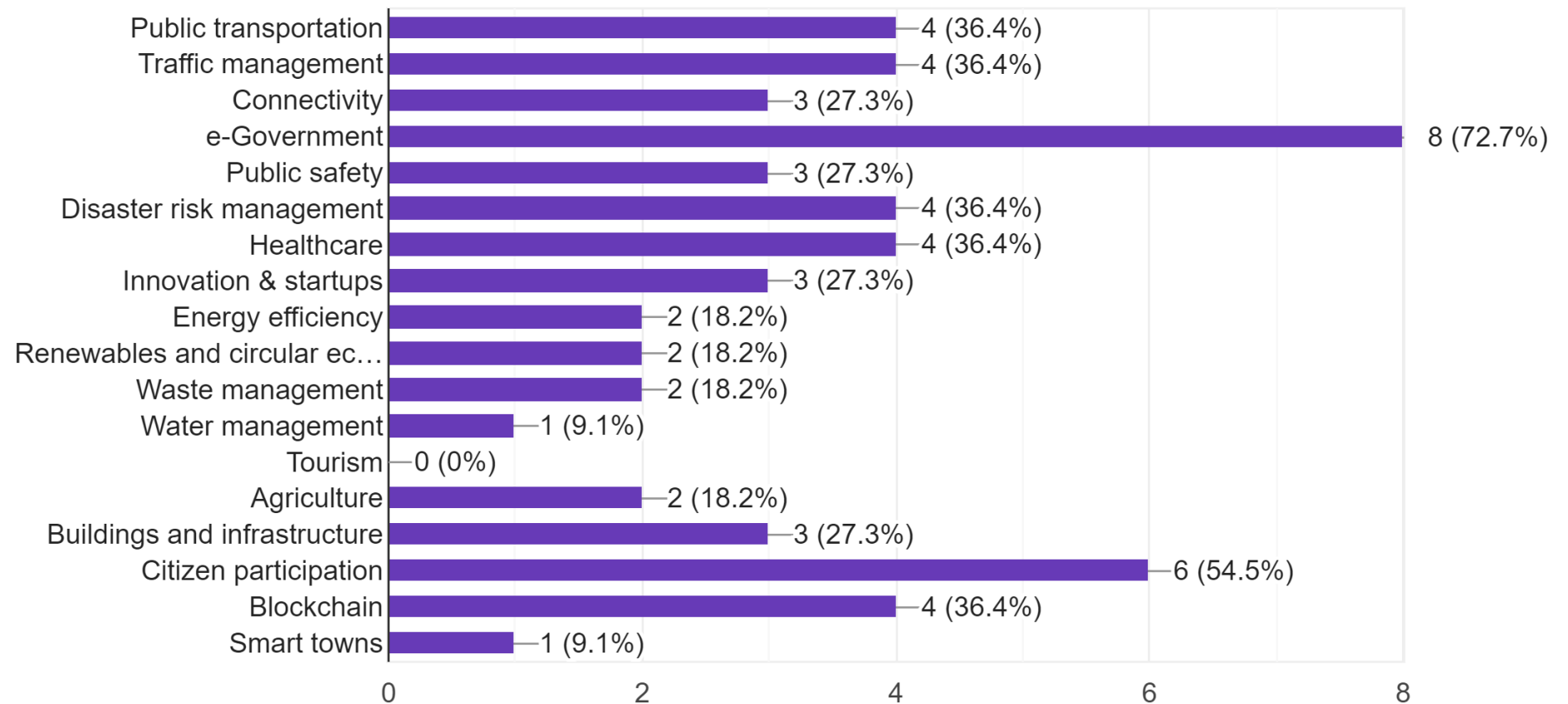
11 responses



Survey Results

8. Which smart city areas is your company most interested in?

11 responses



Session I



Nadia Faradila Binti Jalawi

Senior Assistant Director of Engineering (Electrical) at the
City Council of Seberang Perai
Seberang Perai

Bernard Ewah

Founder of Digizens Collaborative, Deputy Director of
National Information Technology Development Agency,
Nigeria
Digizens Collaborative





Nadia Faradila Binti Jalawi

Senior Assistant Director of Engineering (Electrical) at
the City Council of Seberang Perai

Seberang Perai



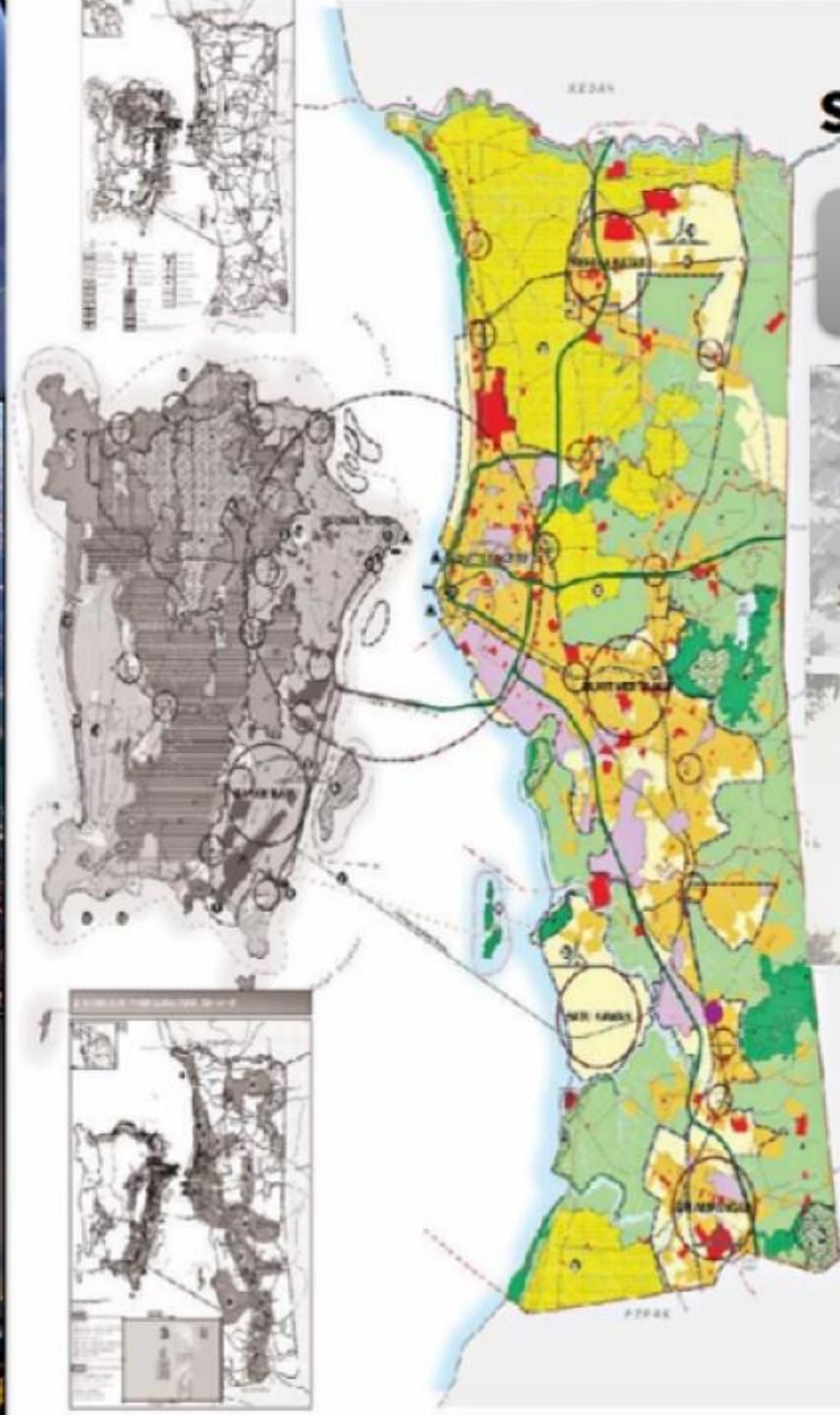
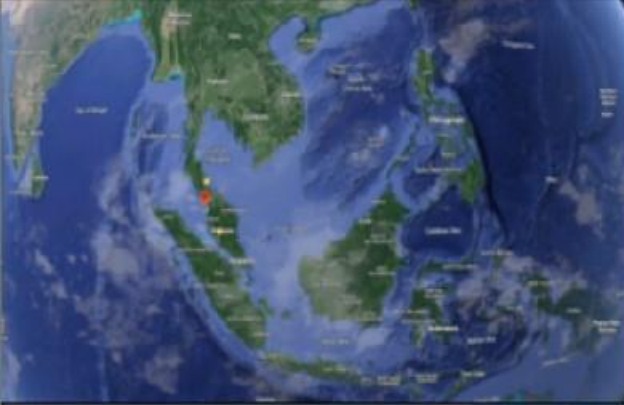
“SEBERANG PERAI ASPIRING CITY OF TOMORROW”



CITY COUNCIL OF SEBERANG PERAI PENANG, MALAYSIA

Ms NADIA FARADILA JALAWI

**SENIOR ASSISTANT DIRECTOR
(ELECTRICAL ENGINEER)**



SEBERANG PERAI | Land use

POPULATION
1,062,000
RESIDENTS

POPULATION
DENSITY
1,414 / km²

SIZE / AREA
751km²

Housing
14%
10,859 Hectare

Commercial
1%
1,302 Hectare

Industrial
4%
3,484 Hectare

Agriculture
48%
32,712 Hectare

Institution
5%
3,171 Hectare

Infrastructure
1%
755 Hectare

Transportation
9%
6,353 Hectare

Green Area
12%
8,923 Hectare

Water Bodies
6%
4,988 Hectare

Total
100%
73,800 Hectare



SEBERANG PERAI CITY COUNCIL

VISION

"Seberang Perai
Resilient, Inclusive,
Green, Competitive and
Technology Driven
Smart City"

MISSION

"To provide urban service,
development planning
and infrastructure
efficiently, effectively and
responsive to the needs of
the community in
Seberang Perai"

SEBERANG PERAI CORPORATE TARGETS



Seberang Perai City Council is committed to work with other cities in the world to address climate change in order to limit global warming to 1.5 degrees celcius.

SEBERANG PERAI STRATEGIC PLAN 2018-2022



RESILIENT



COMPETITIVE



GREEN



INCLUSIVE

The Outcome Of This Vision And Strategic Plan

Transformation of Seberang Perai into a Smart Sustainable City by the year 2030 which is the "Aspiration of Seberang Perai Future City". The corporate outcome answered the implied meaning of our tag line "Aspiring City Of Tomorrow"



SP01

Safe Environment



SP02

High Quality
Facilities And
Infrastructures



SP03

Healthy Lifestyle



SP04

Green Development
And Clean
Environment



SP05

Application Of
New Technology



SP06

Competitive
Urban Economy



SP07

Strengthening Culture
And Heritage



SP08

Resilient
And Liveable City



SP09

Community
Involvement



SP10

Inclusive And Impartial
Urban Development

INTRODUCTION

- *Seberang Perai has been an active member of WeGO since 2012.*
- *Seberang Perai was the **BENEFICIARY** of the 2016 WeGO Smart Sustainable Cities Feasibility Study Program on Smart Street Lamp and Traffic Light Monitoring, which was conducted by Gabotech.*
- *The three parties share several years of cooperation, through knowledge sharing seminars and capacity building, etc.*
- *Seberang Perai is committed to smart city development, winning the WeGO awards in 2017 in the category of Digital Inclusion.*



LETTER OF INTENT FROM WeGO



World e-Governments Organization of
Cities and Local Governments

July 15, 2016
WeGO 16-242

Sr Hj Rozali bin Hj Mohamud
Municipal Secretary

**WeGO e-Government Feasibility Study Project 2016
"M-Government"
Announcement on Beneficiary City**

Dear Sr Hj Rozali bin Hj Mohamud:

We are very pleased to inform you that **Seberang Perai, Malaysia** has been selected as the final beneficiary city of the WeGO e-Government Feasibility Study Project 2016!

Seven WeGO members submitted their applications for the WeGO e-Government Feasibility Study Project 2016 and the beneficiary city was selected by the WeGO Secretariat in consultation with the Selection Committee, considering a number of selection criteria such as relevance with this year's theme "m-government", alignment of the project with the Government's ICT strategies and vision, expected outcomes, local support to the Project Consultants to be provided by the city, and the city's commitment to the post-project implementation.

The WeGO Secretariat concluded that the proposed project "**Street Lamp & Traffic Light Monitoring System**" submitted by Seberang Perai well reflects this year's theme of the WeGO e-Government Feasibility Study Project. Also in light of the City's strong commitment to the post-project implementation, the WeGO Secretariat determined that the Feasibility Study Project will bring a promising advancement in Seberang Perai's city administration.

The WeGO Secretariat will now recruit and select the IT/Project Consultants for the WeGO e-Government Feasibility Study Project by the mid of August. The Project will kick off in late August and the IT/Project Consultants will conduct the Feasibility Study Project until the end of the year pursuant to diverse methodologies including site visits to Seberang Perai and presentation of the final report in December 2015. More details will be shared once the IT/Project Consultants are selected in August.

Please contact the WeGO Secretariat should you have any questions on Feasibility Study Project at secretariat@we-go.org.

We ask for Seberang Perai's active cooperation on the WeGO e-Government Feasibility Study Project as the beneficiary city and Project Partner, and wish for the most successful implementation of the Project!

WeGO Secretariat

COMMITMENT FORM FROM SEBERANG PERAI



World e-Governments Organization of
Cities and Local Governments

**WeGO e-Government Feasibility Study Project 2016
Commitment Form**

*This Commitment Form demonstrates your City's interest and commitment to participate in the WeGO e-Government Feasibility Study Project 2016. To apply for the Project, please send the completed Commitment Form with your City's Letter of Intent to the WeGO Secretariat by **Sunday, June 12, 2016** at secretariat@we-go.org.*

We, **Seberang Perai**, hereby express our interest and commitment to participate in the WeGO e-Government Feasibility Study Project as a Project Partner, as an effort to develop an m-Government System in an inclusive and sustainable manner, by submitting this Commitment Form and the Letter of Intent.

We assure that the Letter of Intent was written with full conviction and truth to actively cooperate with the WeGO Secretariat and the Project Consultants to successfully accomplish the Project.

If our City is selected as the beneficiary of the Project,

- We understand that the general expenses of the Project will be fully sponsored by the WeGO Secretariat.
- As a Project Partner, we will cooperate by providing all requested information and a minimum-level of local assistance to the WeGO Secretariat and the Project Consultants.
- After the completion of the Project, we will be fully committed to realizing the actual implementation of the m-Government System.

WITNESSED AND AUTHORIZED BY:

06/10/2016
Date (MM/DD/YYYY)

Sr Rozali B. Mohamud
Name of Mayor or Head of Executive Authority

Municipal Secretary
Official Title


Signature of the Mayor or Head of Executive Authority



OVERVIEW AND BACKGROUND OF THE PROJECT

- **Title of Project** : Feasibility Study for the Establishment of Street Lamp & Traffic Light Monitoring System of Seberang Perai.
- **Project Period** : The project started on September 22, 2016, and ended on December 31, 2016
- **Background of the Project** :
 - a) To share knowledge and experience in e-Government, the World e-Governments Organization of Cities and Local Governments (WeGO) provides consulting services to member cities through ICT feasibility studies.
 - b) To improve quality and efficiency of work.
 - c) Managing thousands of street lamps and traffic lights is a crucial issue to secure public safety. To resolve their safety concerns, establishing a new monitoring system based on ICT.

OBJECTIVE OF THE PROJECT

The main purpose of implementing e-Government in the MPSP is to improve the quality of citizen lives.

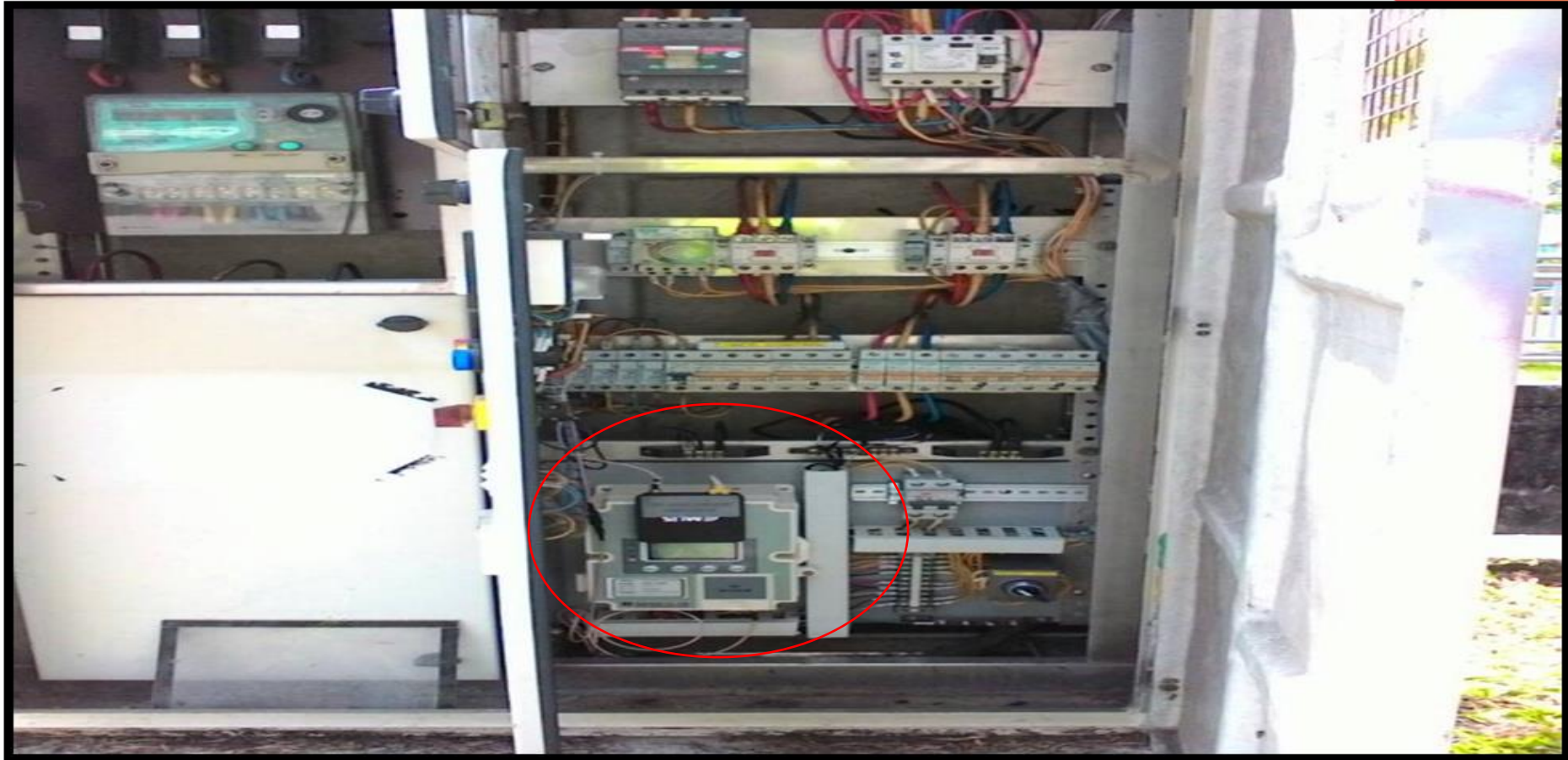
EGovernment is also expected to reduce paperwork in public services by using ICT to enhance the flow of information through all levels of public organizations in
Seberang Perai.

By implementing a "smart system" using ICT for street lamps, Seberang Perai will be able to have the foundation for better eGovernment services and safety of citizens.



LED STREET LIGHTS INSTALLED

EQUIPMENTS INSTALLED



WEB BASE / MONITORING PLATFORM PROVIDED



BENEFICIARY OF THIS PROJECT

1 ACKNOWLEDGEMENT

Participation in International Organizations

2 RELATIONSHIP

Strengthening relationship with Korea

3 KNOWLEDGE TRANSFER

- In a world of rapid technological change, WeGO has become one of our main resources for connection in learning about the latest proven technology happening around the world nowadays.
- Learning and experiencing hands on smart city component project management has enable us to value most commitment from idea brainstorming to project realization

CHALLENGES OF THE PROJECT

TECHNICAL EXPERT

Limited knowledge to handle the equipments.

SPARE PARTS

Difficulties to find the same spare parts / equipments.

SYSTEM BYPASS

The system bypass the manual system, if tripping/breakdown happened to the system, then the street light could not function manually.

K-CITY NETWORK 2021

SOLUTION DEMONSTRATION PROJECT

This project will render support for demonstration projects in order to roll out or expand Korean smart city solutions in cities overseas that seek to adopt a smart city approach. This program aims to apply and demonstrate Korean smart city technologies in cities overseas to build a platform to promote and spread model solutions overseas and create an opportunity for global cooperation projects.

COMMITMENTS FORM FROM SEBERANG PERAI

Seberang Perai is committed to continuing to develop the relationship and use it to build a stronger foundation for cooperation between Malaysia and Korea.

Seberang Perai do not have financial support for this project, but we will provide in-kind support through the direct personnel hours of our staff, provision of office space, transportation support, and other supports to ensure the successful execution of the project.

COMMITMENTS FORM FROM SEBERANG PERAI

Efficient provision of
all required data

Local expert/company
to provide assistance to
a successful
implementation of the
project

Logistical support for
local transportation and
meeting organization

Provision of fully-
resourced office
space for project
team during field
missions

Communication support for
document translation,
meeting interpretation, and
relationship management

Direct personnel
support to the consulting
process, including
development of of future
implementation model,
and to the installation
procedure

1 PLAN REVIEW – OUR CURRENT EFFORTS

Guideline - 1st Edition

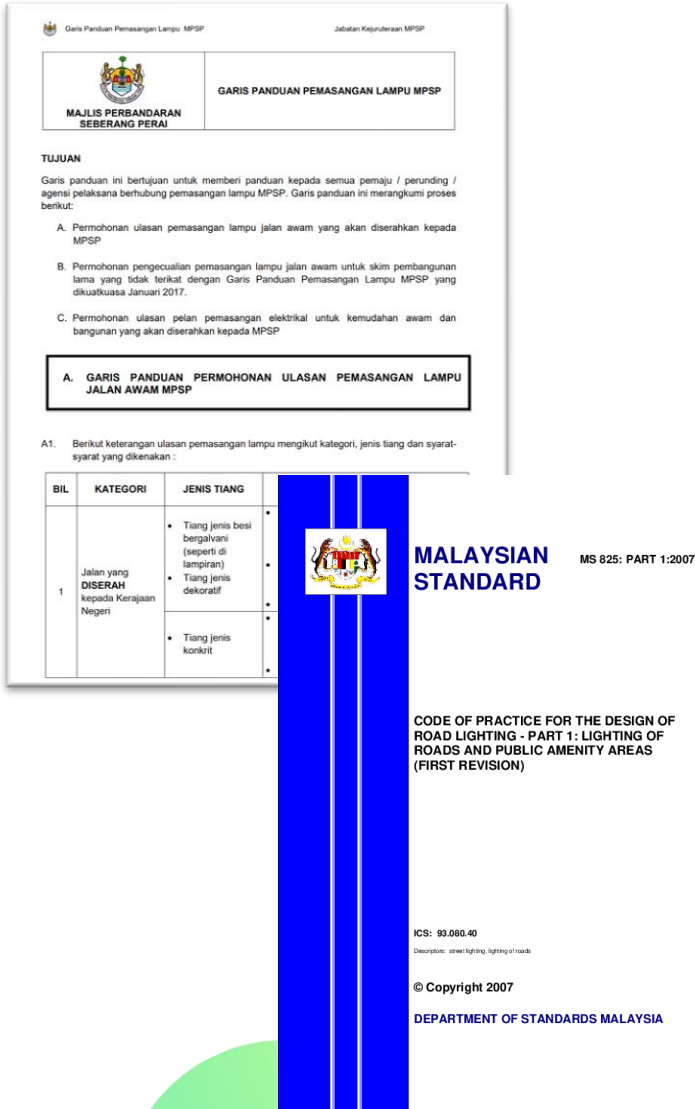
- Year 2016 – **Encouragement** to install LED street light.

Guideline - Review 2018

- June 2018 – **Compulsory** to all developers, consultants and others related agencies to install LED street light especially the scheme that will surrender to City Council.

Adopted MS 825

- Code of practice for the design of road lighting Part 1:
Lighting of roads and public amenity areas
- Recommendation design of street lighting for all types of highways and roads.
- As a reference to make sure that our review base on the minimal standard.



2 RETROFITTING

FIRST PHASE

- January 2019 – 1372 units
- Installation completed May 2019
- Cost RM3.31 millions
- 15 years contact
- Zero capex

SECOND PHASE

- Expected to start July 2021 (14,000 units)

ADVANTAGES :

Green Technology
Less Heat – Fight Climate Change
Energy Efficiency - Save Energy
Less maintenance cost – up to 5 years warranty

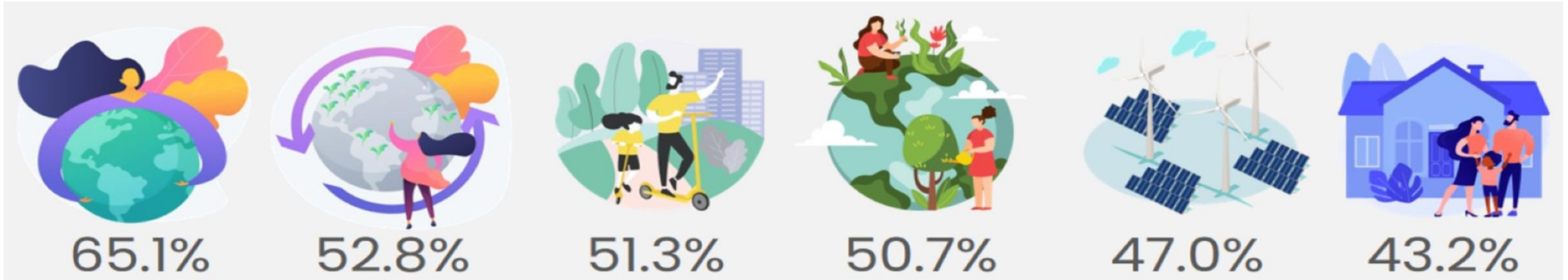




OVERVIEW OF OUR HQ MBSP TOWER



RESPONDENTS' PREFERENCE FOR MBSP SERVICES



MAIN 1



**CLIMATE
CHANGE
RESILIENCE**

MAIN 2



**CIRCULAR ECONOMY
DEVELOPMENT,
CLEANLINESS AND
GREENERY**

MAIN 3



**GREEN CORRIDOR
TRANSPORTATION**

MAIN 4



**GREEN SPACE
AND
MAINTENANCE OF
PUBLIC PLACES**

MAIN 5



**SUSTAINABLE
ENERGY USE**

MAIN 6



**ENSURING THE
ABILITY TO OWN
A HOME TO
IMPROVE THE
QUALITY OF
LIFE**



“SEBERANG PERAI ASPIRING CITY OF TOMORROW”

*Thank
you*





Bernard Ewah

Founder of Digizens Collaborative, Deputy Director of
National Information Technology Development
Agency, Nigeria

Digizens Collaborative

BOOSTING ABUJA CITY ECONOMY WITH AN ONLINE MARKETPLACE FOR ARTISANS

A PRESENTATION ON



BY

Bernard Ewah

bernard@digizens.ng

DIGIZENS COLLABORATIVE

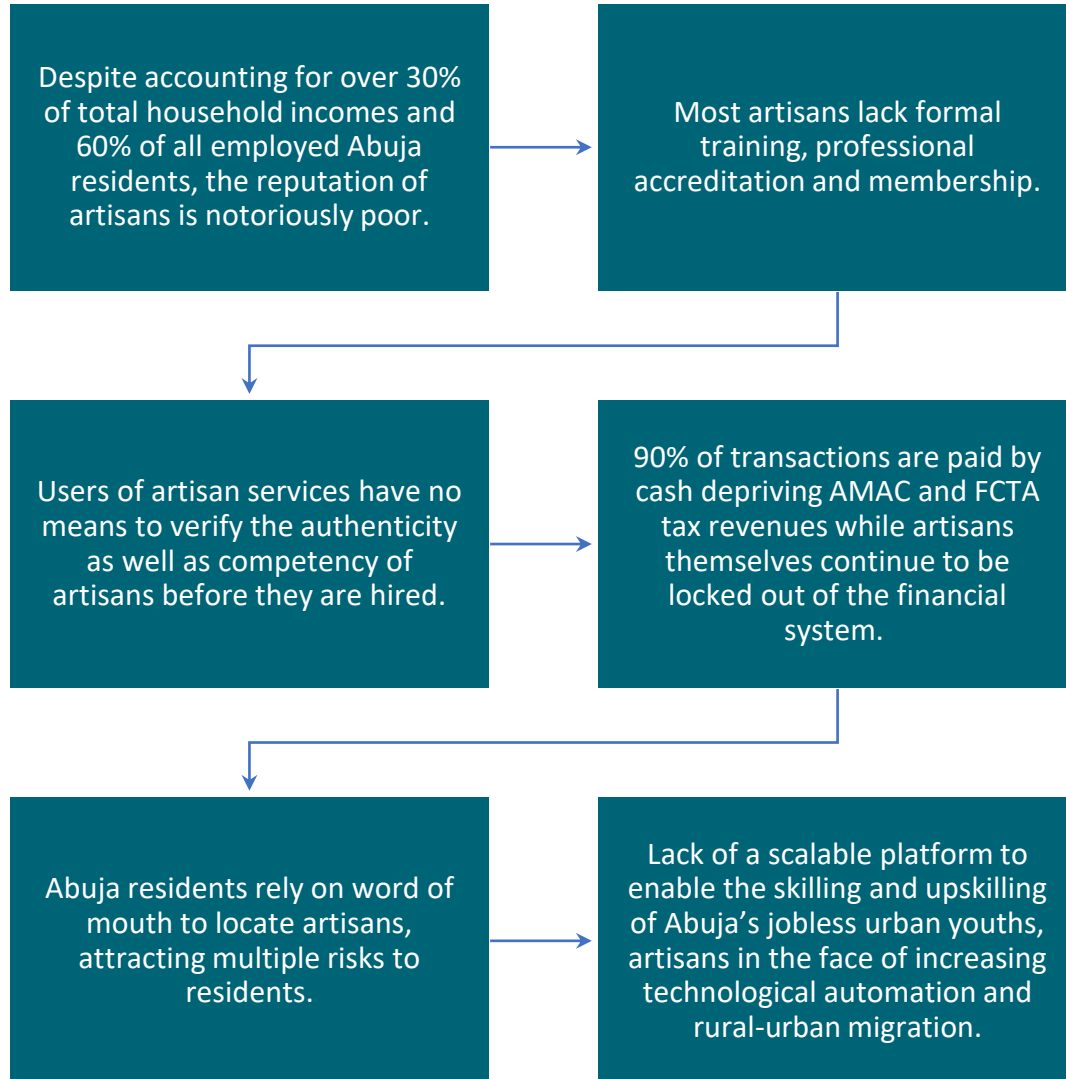
ABUJA, NIGERIA

JUNE 22, 2021

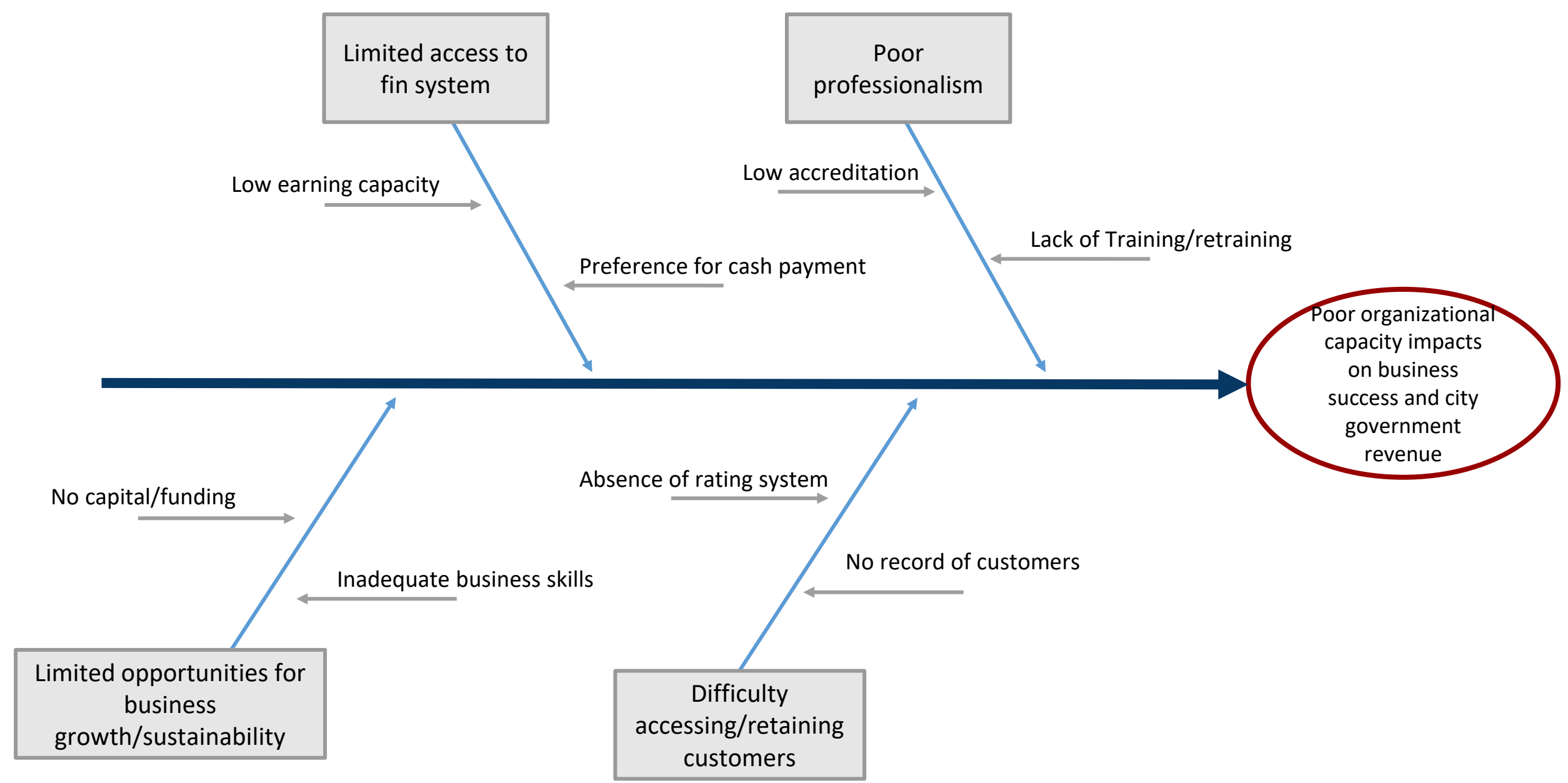
Executive Summary

- There is need to improve efficiency of artisans while lowering cost and enhancing trust and satisfaction for residents who rely on artisans
- There is also need to ease the integration of artisans into the formal sector as a means to improve business sustainability and government revenues
- There is need for a digital platform designed for businesses that seek short-term workers/artisans in the building and construction trade in Abuja.
- A platform that acts as a centralised database for businesses to source employment online and for workers to gain access to a larger pool of potential employers.
- We believe this will reduce employment costs for businesses and improves the timing of labour matching.
- With the availability of NIMC API/NIN and ai-powered social scoring system, we can finally address local employers' concerns about artisanal identity/character and proof of competence through a micro-credentialing system.
- No micro-credentialing platform to give credibility to artisans in Abuja.

Problem Statement



UNDERSTANDING THE CHALLENGES FACING ARTISANS IN ABUJA CITY



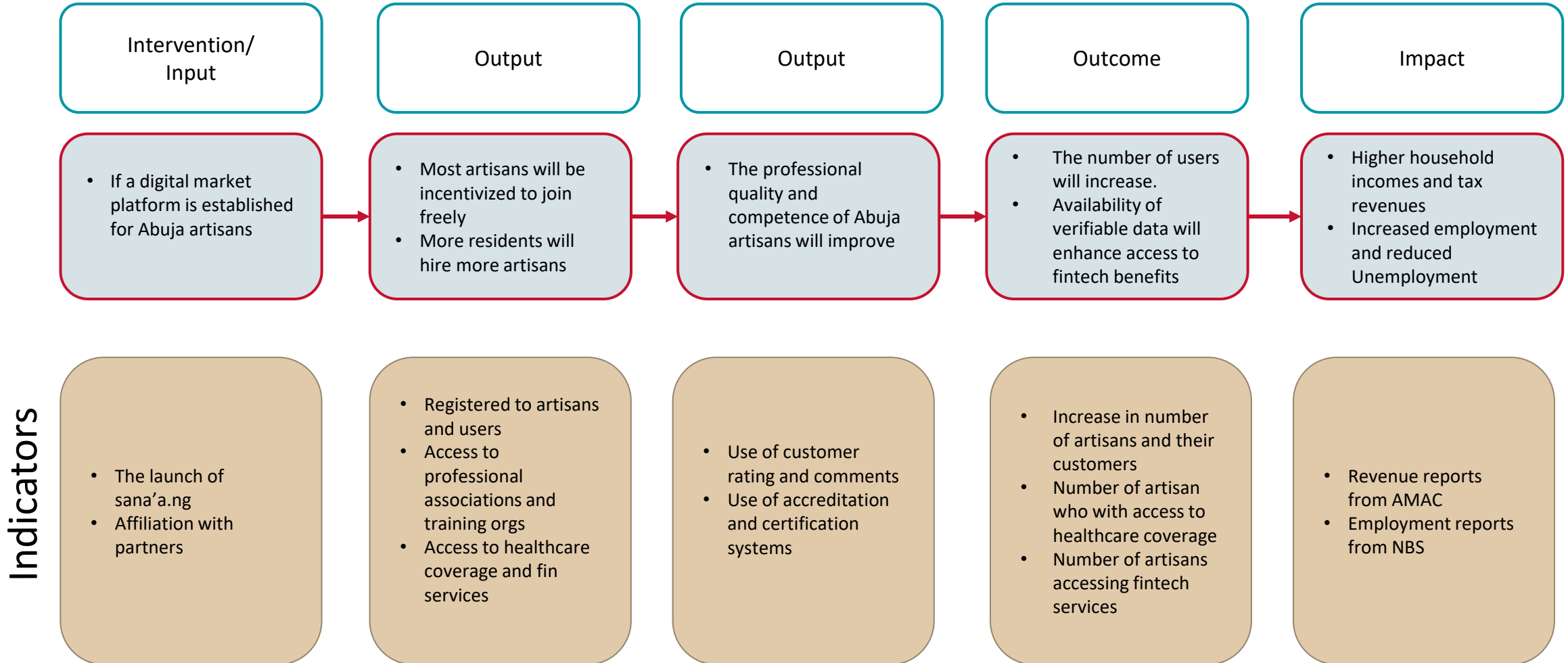
Analysis and Key Findings

Abuja artisans want to improve their skill and expand their network so that they can earn more.

Abuja residents will hire more artisans if they are able to authenticate their qualifications and quality of services.

Abuja artisans will earn more income and pay taxes to AMAC and FCTA if electronic payment is used.

Log-Frame



ADDRESSING THE CHALLENGE

- Sanaa is a secure place to find trusted and reliable artisans. Sanaa is open to both individuals and corporate organizations. Our goal is to enable every artisan to achieve business scale while providing quality and professional services at all times. Therefore, Sanaa is home to the established professionals and associations, training providers, freelancers and someone who is simply looking to add a new skill to earn extra income.
- Individuals and organizations looking for artisan services can get access to artisans close by at an affordable price.
- For organizations offering artisan services, the Sana'a platform provides access to customers and also opportunities to upskill and network.
- The artisans are provided access to customers and also opportunities to upskill and network.
- Associations and training programs focusing on engaging and training artisans can get members from the Sana'a platform.





Beyond being a digital marketplace for artisanal jobs, Sanaa provides an interactive dashboard, which allows providers to manage their workers, streamline material/equipment procurement and track deliveries.

This dashboard will increase speed and efficiency, especially for MSMEs who often lack the technical capacity to manage their resources.

In addition, it will support construction platforms that operate in the supply phase of the value chain enabling the management of tracking of equipment and/or materials.

KEY ACTIVITIES AND PARTNERS

ACTIVITIES

- Policy development, support and influencing.
- Technology integration.
- Micro-credentials development.
- Capacity building programmers
- Funding and access to government infrastructure.
- Media partnerships/campaigns
- Roadshows and displays
- R&D opportunities

PARTNERS

- Nigeria National Accreditation Systems
- Federal Ministry of Labour, Wages and productivity
- Federal Ministry of Trade and Industry
- Small and Medium Enterprise Development Agency (SMEDAN)
- National Power Training Institute of Nigeria (NAPTIN)
- National Board for Technical Education Board, NABTEB
- Federal Ministry of Women and Gender Affairs
- Ministry of Youth and Sport Development
- The Nigerian Institute of Building, NOIB
- Industry Training Fund

SOLUTIONS AND PARTNERSHIP NEEDED

- Funding provisions for executing our technology integration and roll-out plans.
- Working with public agencies in driving Sanaa market formalization processes.
- Working with both public and private sector players to draft policies to address our skill gap and influence local politics.
- Policy innovations to meet with this decade challenges.
- Technology integration on public and private sector digital platforms.
- Ecosystem research and development to address sustainability opportunities and issues.
- Sanaa will work with ecosystem partners to address supply side issues: job creation.
- Formalizing artisanal association identification numbers.
- To address gender inequality and people with special needs.

HOW COULD WeGO AND PARTNERS HELP?

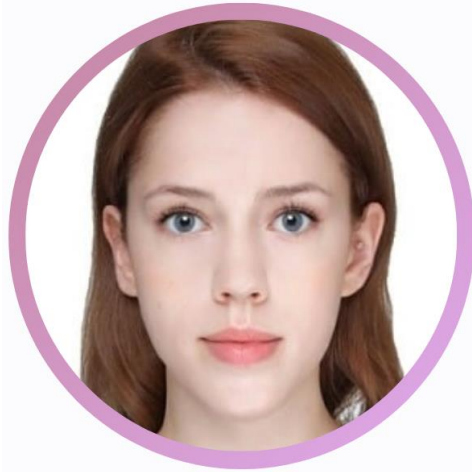
- Provide/assist in mobilizing investment to execute our technology plan.
- Provide financial support in advertising spend and roll outs.
- Provide free PR where possible on WeGo's network/platform.
- Provide policy expertise and experiences in formalizing Abuja's artisanal market.
- Continuous partnership by way of leveraging our platform for R&D purposes to understand Abuja's artisan market and formalization opportunities and improve market outcomes.
- In developing capacity building programmes targeting Abuja's artisanal market for sustainable jobs.



SESSION II

Matchmaking: Providing Solutions and Feedback on Proposals

Session II



Angelina Khodotova

Assistant Manager for International Projects at SRPOST Inc., South Korea
SRPOST



Natalia Mykhaylova

CEO of WeavAir, Canada/South Korea
WeavAir



Yovin Andrian

Enterprise Solution Manager at Qlue, Indonesia
Qlue



Angelina Khodotova

Assistant Manager for International Projects at SRPOST
Inc., South Korea

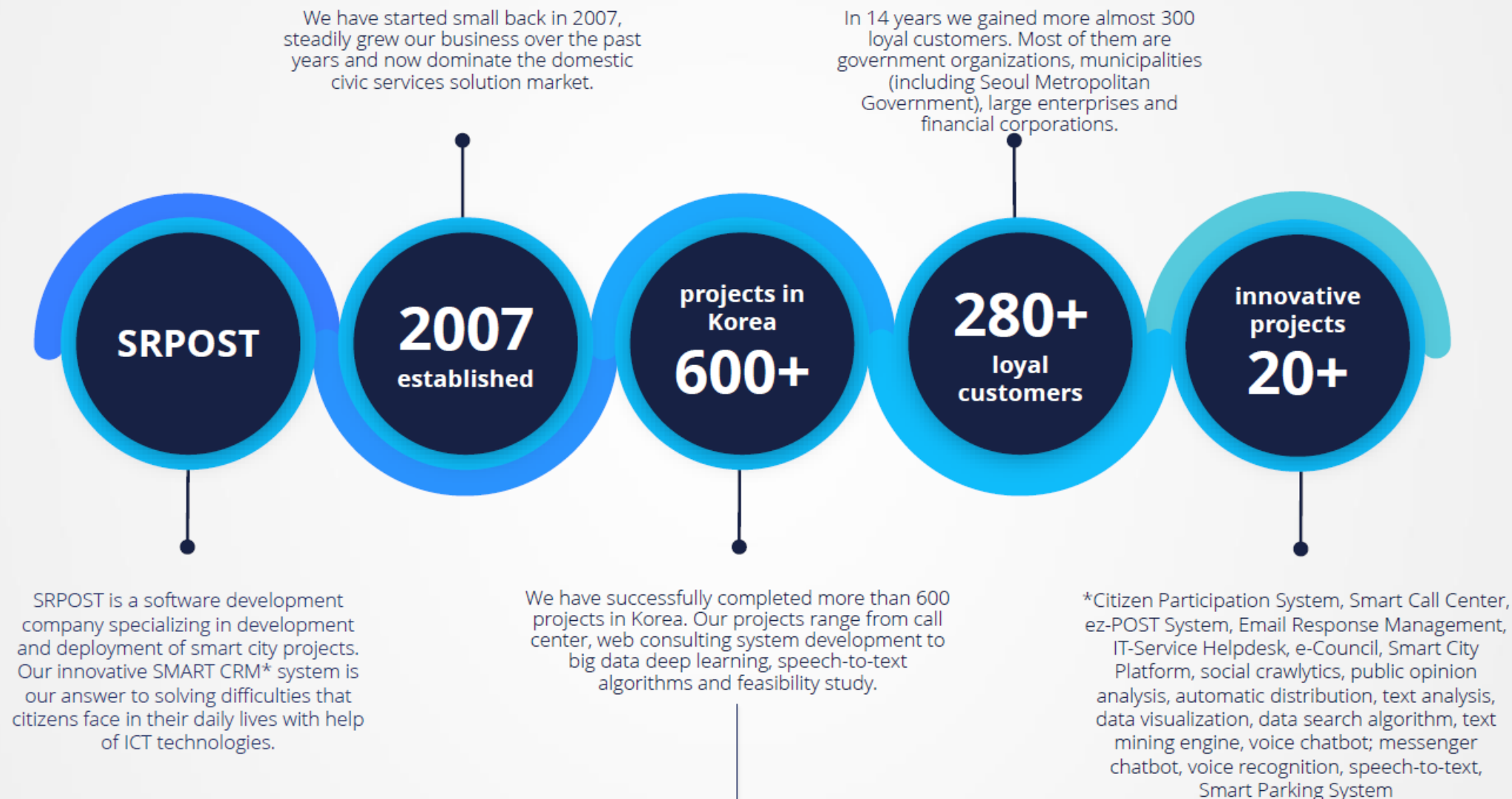
SRPOST



SRPOST

2021 BUSINESS PRESENTATION

SMART SOLUTIONS THAT POWER UP MUNICIPALITIES





SMART CITIZEN PARTICIPATION SYSTEM

Multiple channels to submit citizen requests

(consolidation of all citizen requests into a single management hub)



Integrated
platform

01

Request consolidation
Funnels all citizen requests from all channels into a single platform.

Department
head

02

Internal distribution
Chooses request processor from the list of employees.
If needed, assigns supporters to help process the request.

Request
processor

03

Review and answer
Reviews and replies to the request.
Submits the answer for review and confirmation.

Department
head

04

Answer confirmation
Reviews and confirms the answer.
Finalizes the process and sends the answer to the citizen.

Key contributions of the system

Various functions for better city-citizens communication

- Automated categorization
 - Cluster analysis of repetitive/similar complaints
 - Suggestions on the relevant processing department
 - Model answer recommendations
 - Statistics and visualized analytics via generated graphs and charts
 - Both public servants & citizens receive processing notifications
 - Relevant information is available for citizens online
- ✓ Facilitated communication between city and its citizens
 - ✓ Increased citizen participation in the city policy making process
 - ✓ Automatization leading to balanced workload
 - ✓ In-depths analysis via requested analytical data, identification of hidden issues

Smartphone AI request submission

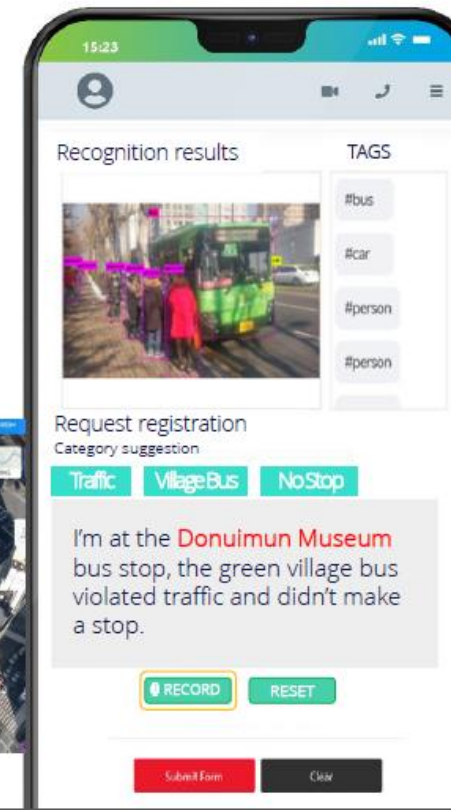
Technologies for smarter, faster and convenient on-site reporting only using your smartphone

Solution for instant and automated feedback instead of manual input of all necessary information

We provide different approaches for different roles

Citizen: Submits the needed request in an easy and fast way, receives alerts on the request processing status, checks the measures taken as the request is answered.

1. Citizen creates a request: **STT** technology converts citizen's **speech into text**, the **geolocation** is automatically extracted or recognized in the text. Later, the text is also undergoes the **keywords** analysis.
2. Citizen can **add image or video** (live photo or selection from gallery), the quality of which is being corrected by the system.
3. Relevant **tags** are extracted upon **image analysis**, request's category suggestion is provided.



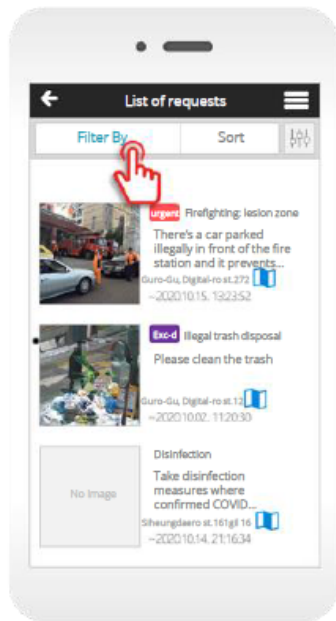
Smartphone AI request submission

Technologies for smarter, faster and convenient on-site reporting only using your smartphone

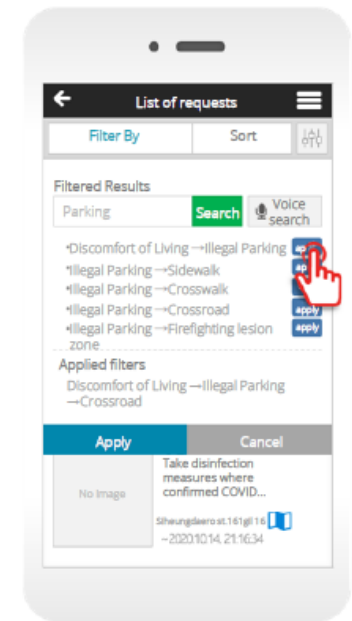
Solution for instant and automated feedback instead of manual input of all necessary information

We provide different approaches for different roles

Processing officer: checks the number of requests on the map, filters cases with needed parameters, processes and answers request in an effective and timely manner and receives citizen's feedback



1. Officer checks the requests number through the **visualized information** on the map, and filters needed cases (e.g., depending on the distance, processing deadline, request gravity, etc.)
2. The platform is **integrated** with other services in use for even more effective and smooth workflow.
3. The officer may use **system's suggestions** on the relevant to the request information (e.g., legislation) and **template answers** for efficient and accelerated request processing.





INTERNATIONAL PROJECTS

CASE STUDY 1

Uganda KCCA Feasibility Study



CASE STUDY 2

Kazakhstan Nur-Sultan City R&D Project



September, 2019

Initial visit

Visit to the Nur-Sultan city for the ceremony of signing MOU between SRPOST, Nur-Sultan City Municipality and Astana Innovations



July, 2020

SMTECH application

Application for funded R&D program together with Astana Innovations

October, 2020

Grant recipients

SRPOST has won the SMTECH grant for developing a Big Data-based Air Quality Monitoring Health Platform for Nur-Sultan City

December, 2020

Official start

Sharing official letters with the Akim (Mayor) of the Nur-Sultan city, project discussions with international participants



May, 2021

Receiving data

Receiving an essential data access & information for the platform development

Ongoing
project



Smart solutions that

POWER UP

municipalities

Contact our International Project Management Team for more information
Ms. Angelina Khodotova
lina@srpost.co.kr



Yovin Andrian

Enterprise Solution Manager at Qlue, Indonesia

Qlue



Building A Smart City Through Innovative Solutions Ecosystem

Yovin Andrian

Enterprise Solutions Manager
Qlue Smart City



Qlue is a **comprehensive smart city ecosystem company** which is based on AI (Artificial Intelligence) and IoT (Internet of Things) technology innovations. Various Qlue solutions help decision makers in making more effective and efficient business decision.

We create a platform that **connect government and its citizens**, and visualize the data gathered from our various technology implementations.



Vision

Accelerating positive changes worldwide



**WEGO Solution Partner
and Portfolio Member**

International Recognition



**Silver Award on Open
and Inclusive City**
4th WeGo Award 2020



ASEAN Best IoT Startup
ASEAN Rice Bowl
Awards 2020



**Best Mobile
Government Service**
World Government
Summit 2019, Dubai



Top 50 Global Startup 2020
Xtreme Tech Challenge 2020



**Startup of the Year
2019**
Jumpstart Magazine
(Hongkong)

Founded : Feb 2016

Headquarter : Indonesia

Website : qlue.ai

Industry : Smart City, AI & IoT

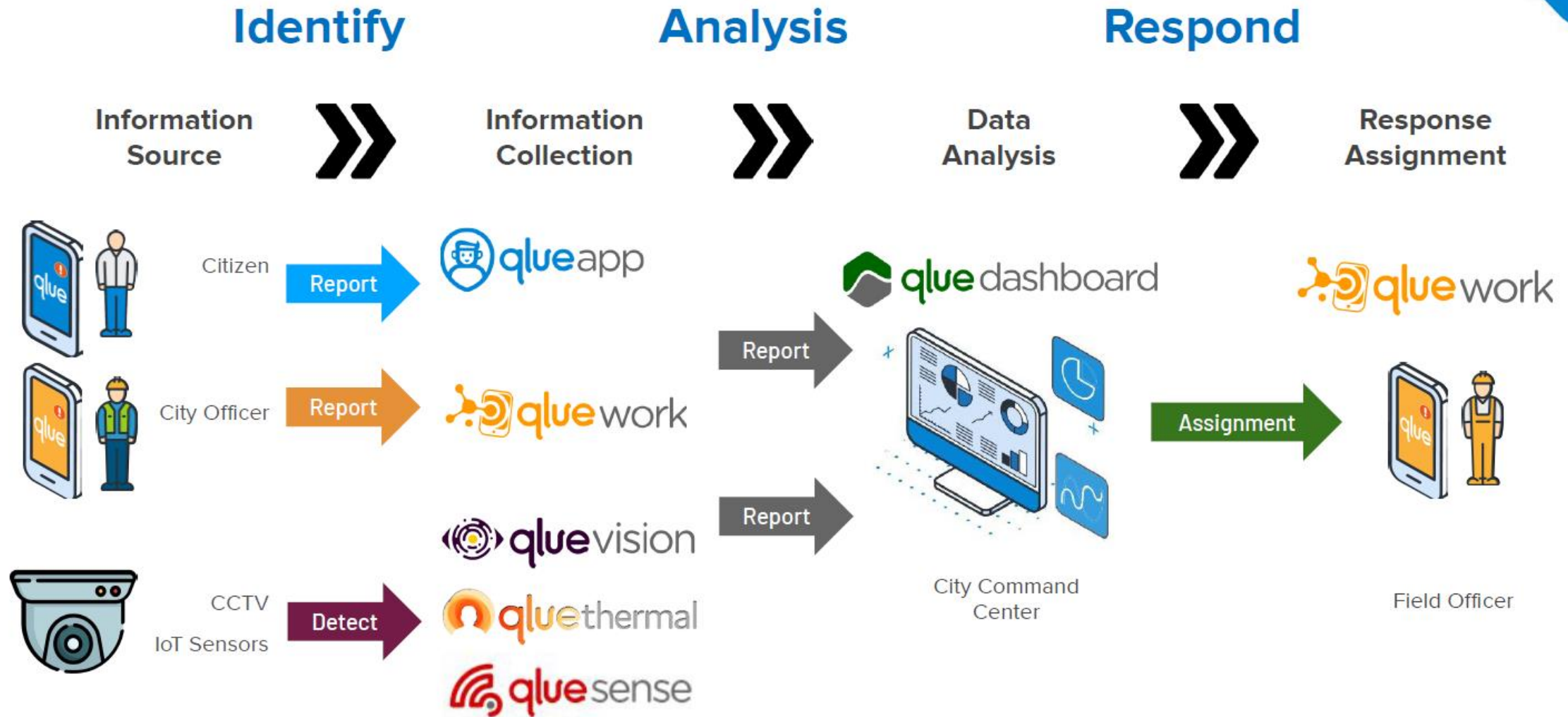


Partners

Establishment & Partners

How Qlue Enables A Smart City Ecosystem

qlue



A Glimpse of Our Solution for Smart City

qlue



Integrated City Monitoring Dashboard

- > Video surveillance tools to **identify, search and analyse information.**
- > Provide **insights on officers' KPI.**
- > GIS visualization tools that **overlays tasks and field officers location.**
- > **Ticketing Management System**

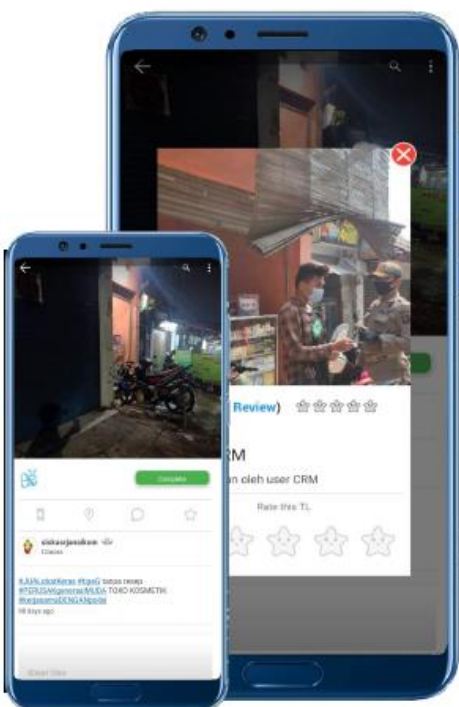


A Glimpse of Our Solution for Smart City

qlue



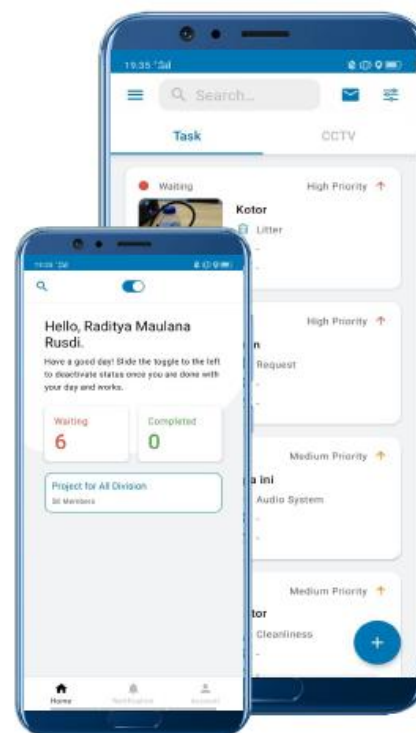
Application to connect Citizen with Government



- **CITIZEN ENGAGEMENT**
- **REAL-TIME MONITORING BY CITIZEN**
Create task / report. Minimising paperwork by digitising field reporting system
- **MULTIPLE CATEGORY TO BE SHARED**
- **TAGGED BY GEOLOCATION**
Receive Tasks from CCTV or internal reporters based on location and job description



Application for Government to response any report in their city.



- **LIVE TRACKING**
- **TASK MANAGEMENT**
Create task / report. Minimising paperwork by digitising field reporting system
- **MULTIPLE TYPES OF REPORTS**
- **AUTO TASK ASSIGNED FROM AI & IOT**
Receive Tasks from CCTV or internal reporters based on location and job description
- **OFFICER MANAGEMENT**
Work status to make sure KPI is always achieved by finishing all tasks

A Glimpse of Our Solution for Smart City

qlue

Facial Recognition



People and Crowd Counting



Vehicle Classification
(Traffic Monitoring)



Thermal and Mask Detection



Benefit of Using Our Smart City Solution



35-55%

Reduce The Operational Cost

Technology can help City Government to cut down inefficient operational cost by reducing the frequency of routine field monitoring.



300%

Improving Performance

Accountability for one's responsibilities and duties can be assessed in real-time and transparently



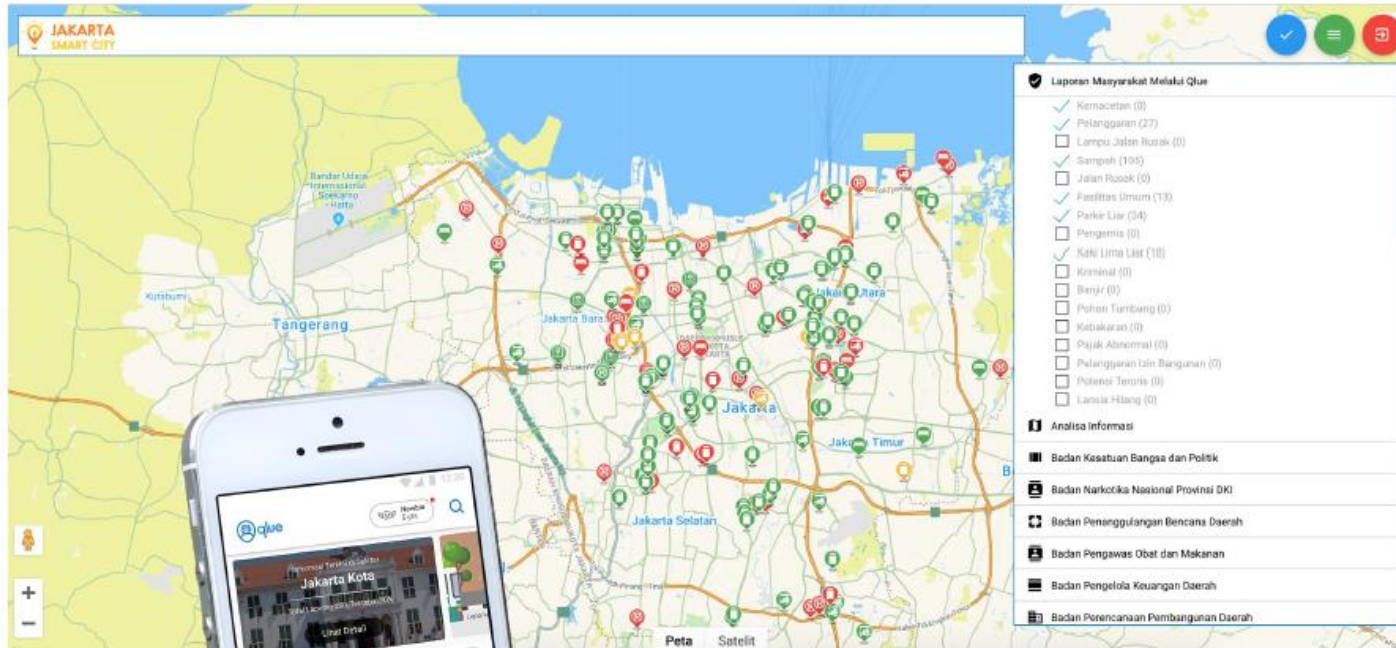
1000x

Faster Response Time

The process of sending information automatically from CCTV or city officer to the field officer's mobile application device.

Collaboration with Jakarta (Indonesia) for Smart City

qlue



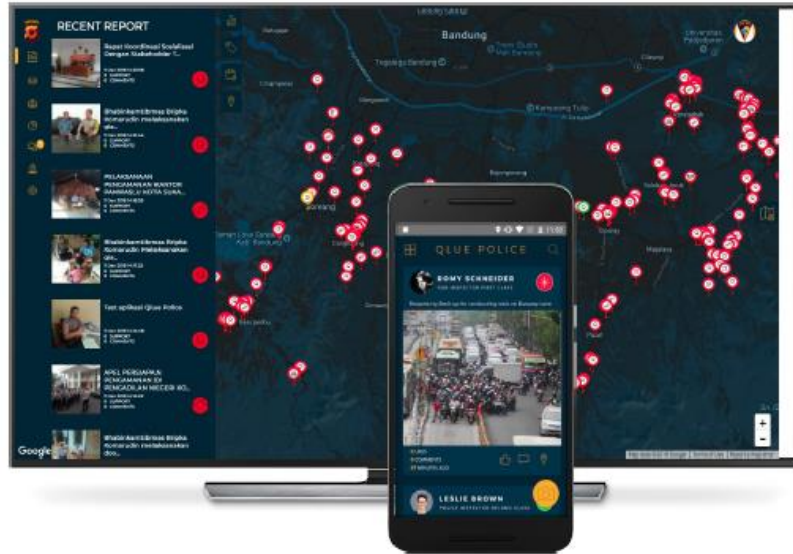
- Qlue is a primary partner for Jakarta Smart City to monitor problems and dispatch job in order to increase efficiency and effectiveness of problem handling by using our command center dashboard and apps.
- In collaboration with ITDP, to re-build pedestrian and bicycle path for tourism facilities
- significant improvement to the capital city such as **reducing 8000 flood-spots to 450, 72% reduction for extortion, 49% increase of citizen's trust towards government** and more.

Qlue is available in over 30 smart cities in Indonesia and worldwide.



Silver Award on Open and Inclusive City
4th WeGo Award 2020

Smart Law Enforcement Collaborators



We empower the Indonesian national police force with a mobile workforce system that allows coordination via app and dashboard seamlessly. Working with multiple stakeholders to strengthen an overall solution for safety and security, Qlue leads the solution in Asian Games 2018 for mobile workforce, dashboard and video analytic using CCTV. The Asian Games 2018 is arguably the biggest event of the year and our participation only proof of our capability to deliver successfully on exceptional events like it. Qlue is now available in 17 Police districts.

Smart Disaster Recovery

qlue



Pasca Banjir Bandang, Kota Bima Pulih Hingga 90 Persen

Giras Pasopati, CNN Indonesia | Rabu, 11/01/2017 07:08 WIB

Bagikan: [f](#) [t](#) [g](#)



Aplikasi Qlue Ambil Peran dalam Pembersihan Lumpur dan Sampah Kota Bima Pasca Bencana Banjir

January 13, 2017

671 0

[Share on Facebook](#)

[Tweet on Twitter](#)

[G+](#) [P](#)

Jakarta, 11 Januari 2017 – Kota Bima sedang menjalankan perpanjangan masa tanggap darurat, pasca bencana banjir (21/12/2016) dan Jumat (23/12/2016). Badan Nasional Penanggulangan Bencana (BNPB) konsisten menangani dan mengawasi proses pembersihan sampah kota tersebut, salah satunya dengan menggandeng aplikasi Qlue sebagai aplikasi pelaporan dan pemetaan kerusakan kota yang terdampak banjir. Dengan kerjasama ini, warga Bima bisa berpartisipasi dalam pemulihan kotanya dengan cara melaporkan kerusakan di sekitar rumah mereka melalui aplikasi Qlue, untuk kemudian ditindaklanjuti oleh petugas.

Qlue was first to collaborate with Indonesia's National Disaster Agency (BNPB) in the end of 2016, helping recover Bima city that was wiped out due to massive flood. By leveraging public participation reporting broken infrastructures, missing citizens, garbage piles and others -- and working with NGOs, communities to send supplies and rebuild houses, **Bima city were able to recover 90% of its city in only 3 weeks and build their way back as tourism destination.**



Portfolio

qlue



Subscribe to Qlue Cloud-Based Technology



(1) Visit qlue.ai and register your profile

The registration page on qlue.ai features a 'GET FREE TRIAL NOW!' section with a form to create a profile. The form includes fields for Name, Email, Password, and Phone, along with checkboxes for 'I agree to the terms and conditions' and 'I agree to the privacy policy'. A 'GET STARTED NOW' button is at the bottom. The page also lists 'BENEFITS' such as 'Provide notable savings', 'Save more times', 'Flexibility and scalability', 'Easy to use', and 'Automatic updates'.

(2) Select your package or customize according the needs

The pricing plans page on qlue.ai displays four options: 'RETAIL STORE USD 165 (month)', 'OFFICE SPACE USD 198 (month)', 'BUILDING / FACTORY USD 345 (month)', and 'CUSTOM'. Each plan includes a brief description of its features and a 'GET STARTED' button. The 'CUSTOM' plan is described as 'Build your own plan based on the improvements you need for your business'.

(3) Proceed to the payment

The payment page on qlue.ai shows a payment summary for 'Qlue Enterprise Pte. Ltd.' with a total amount of '\$379.50'. It includes a 'Pay' button and a 'Payment Method' dropdown menu. The page also displays a table of payment details, including the amount due, the due date, and the payment method.

(4) Login to your dashboard

The dashboard login page on qlue.ai features a 'Welcome To Qlue Dashboard!' message and a 'Start The Tour' button. The page also displays a sidebar with navigation options like 'Smart Devices', 'Analytics', 'Workflows', 'Map', 'Live Feeds', and 'Settings'.

(5) Setup your CCTV with Our AI

The dashboard setup page on qlue.ai shows the 'Add New CCTV' process. It includes a map view for selecting a location and a form for entering details like 'CCTV Name', 'CCTV Type', and 'CCTV Source'. The page also displays a list of existing CCTV devices.

(6) Everything is set and You're ready to go!

The main dashboard view on qlue.ai displays a live video feed from a CCTV camera. It also includes a 'Real Time Data' section with a graph showing the number of detected vehicles over time. The page also displays a sidebar with navigation options like 'Analytics', 'Workflows', 'Map', 'Live Feeds', and 'Settings'.

qlue

#BEYOND
INNOVATION,
DRIVING IMPACT!

For inquiry:

beraniberubah@qlue.id

qlue.ai





Natalia Mykhaylova

CEO of WeavAir, Canada/South Korea

WeavAir



WEAVAIR

Proactive air insights

Dr. Natalia Mykhaylova | Founder & CEO, WeavAir

2018
Clean50
Outstanding Contributions to Urban Capabilities
TOP PROJECT



**SMART CITIES
INNOVATION AWARDS**
Singapore
Le Monde



**INNOVATION
WORLD CUP®
SERIES**

MOBILE™
GSMA
WORLD CONGRESS

BIMWORLD
PARIS
0

11 years developing & integrating technologies



75% HVACs

Energy waste

Expensive maintenance

Virus, bacteria & air pollution

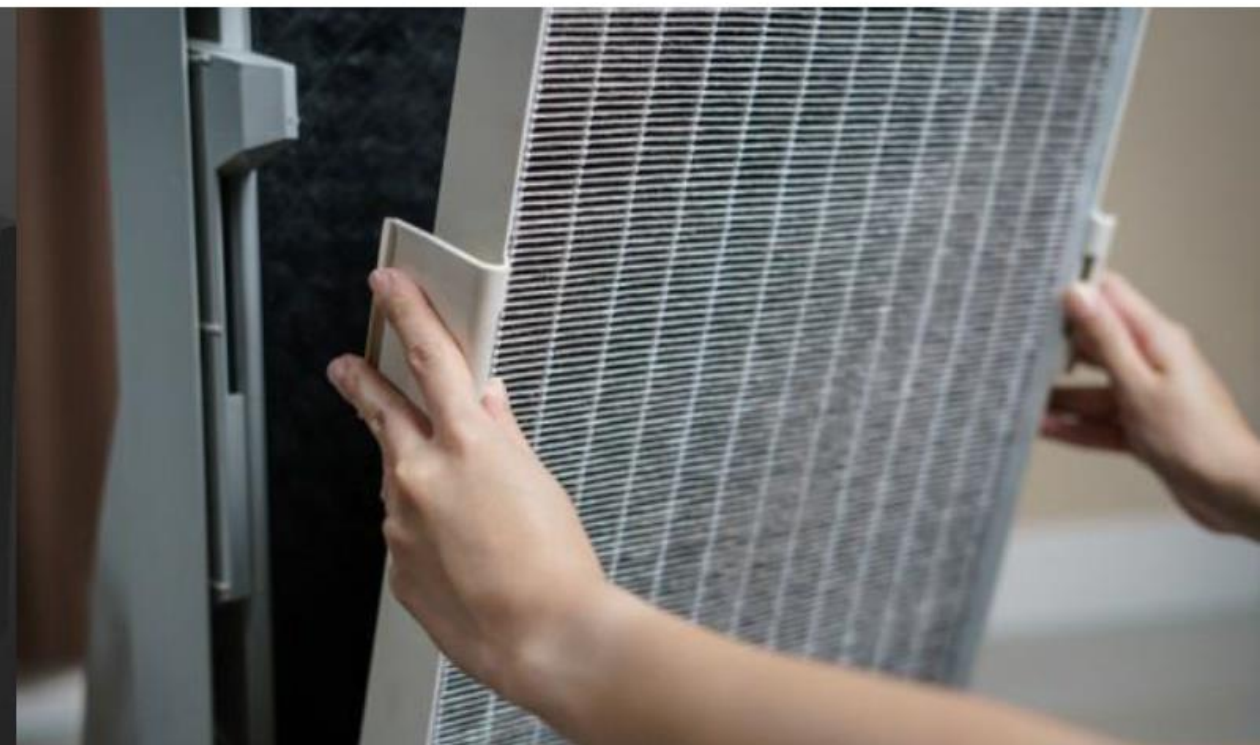
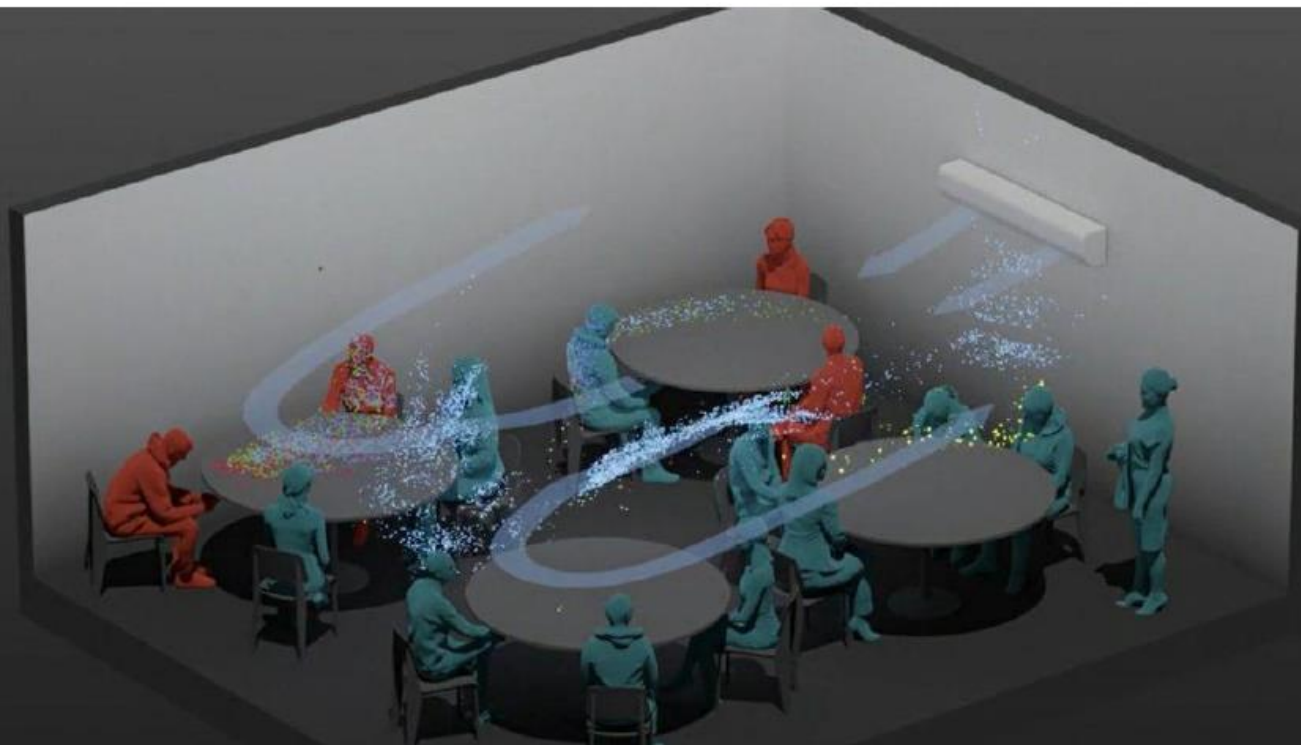
Hidden costs of air ventilation problems

News

Flood of COVID-19-related lawsuits expected to hit courts

HVAC Systems Should Be Checked Before Buildings Reopen, Due to COVID-19

As occupants start returning to commercial spaces, equipment should be serviced and tested



We need more resilient systems



Expensive



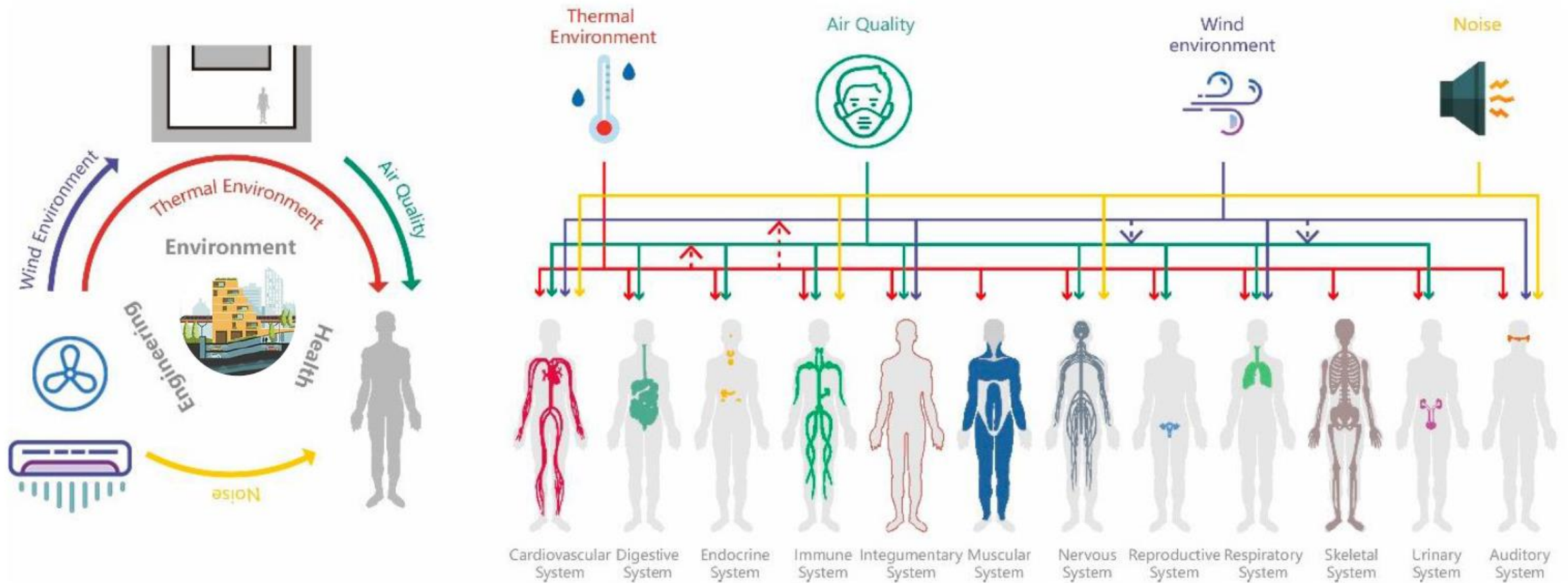
Time consuming



Not predictive

*500+ conversations

We need more holistic design





End-to-end high accuracy monitoring software & IoT solution to improve safety, reduce maintenance costs



Save energy



Reduce air system failures



Improve air quality

WeavAir: making city data actionable



Safer, sustainable, more cost-efficient





Software + IoT diagnosis



Diagnose energy use,
pollution hazards,
thermal comfort



Cost & energy savings



Save costs, achieve new
standard & establish
trust



Revenue & reputation



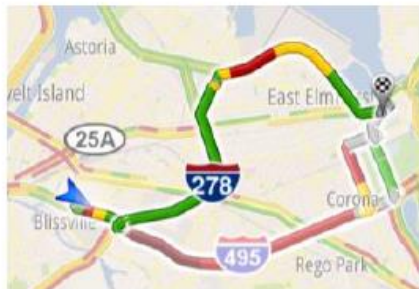
Increase revenue &
employee
productivity

ROI ~6 months | 10x ROI after 18months

WeavAir for Transport & Buildings



Transport



Safety

Reduce infection risks,
smoking, fire detection inside
public transport

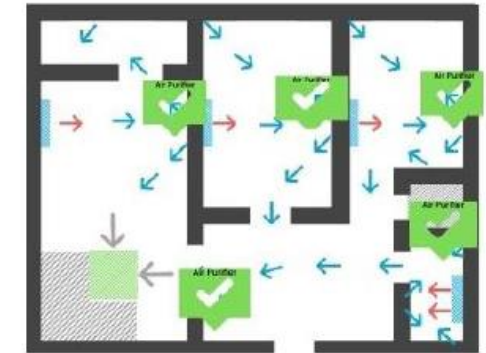
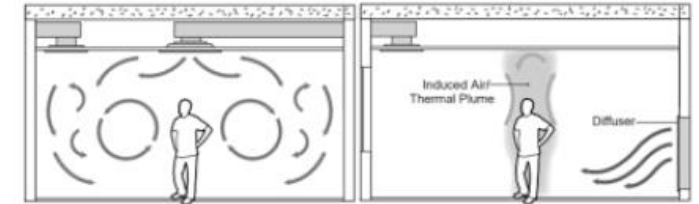
Maintenance & sustainability

Prevent mechanical failures &
improve energy efficiency

Wellbeing

Reduce exposure to air pollution
through better city routes

Buildings



WeavAir end-to-end solution



Real-time decision support

Sensors & AI software



Automation & services



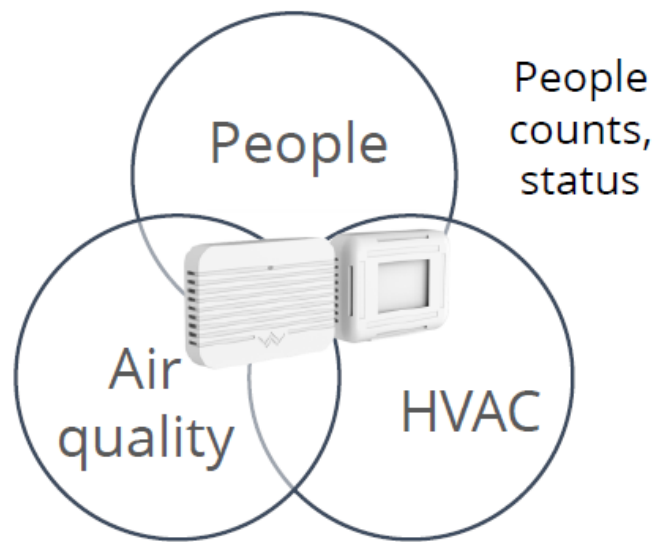
Sensors for high accuracy remote alerts
Predictive software for fast decisions

Predictive maintenance automations
Personalized filtration subscription
Energy efficiency & ESG reporting

3 proprietary technologies

WeavSense IP

Advanced sensors
20 metrics, 95% accuracy

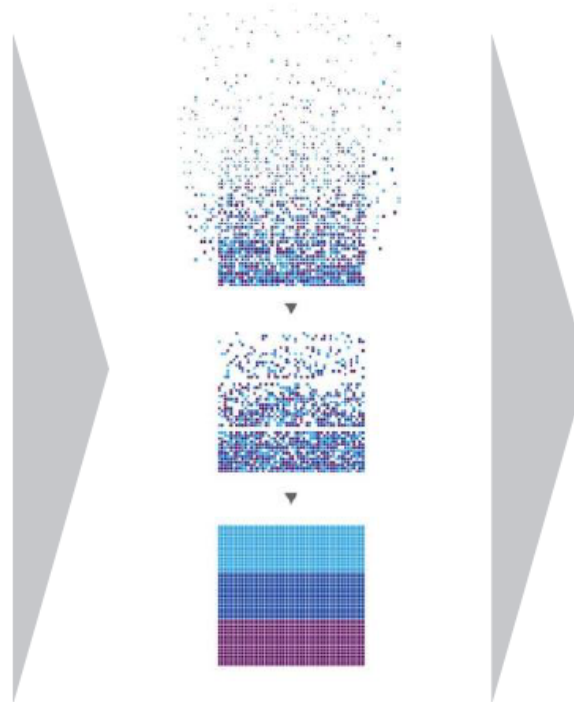


CO, CO₂, NO_x, O₃, tVOCs,
Formaldehyde, Benzene,
Solvents, Odors, Smoke,
PM_{1,2,5,10}

Pressure, Airflow,
Temperature,
Humidity, Noise,
Light

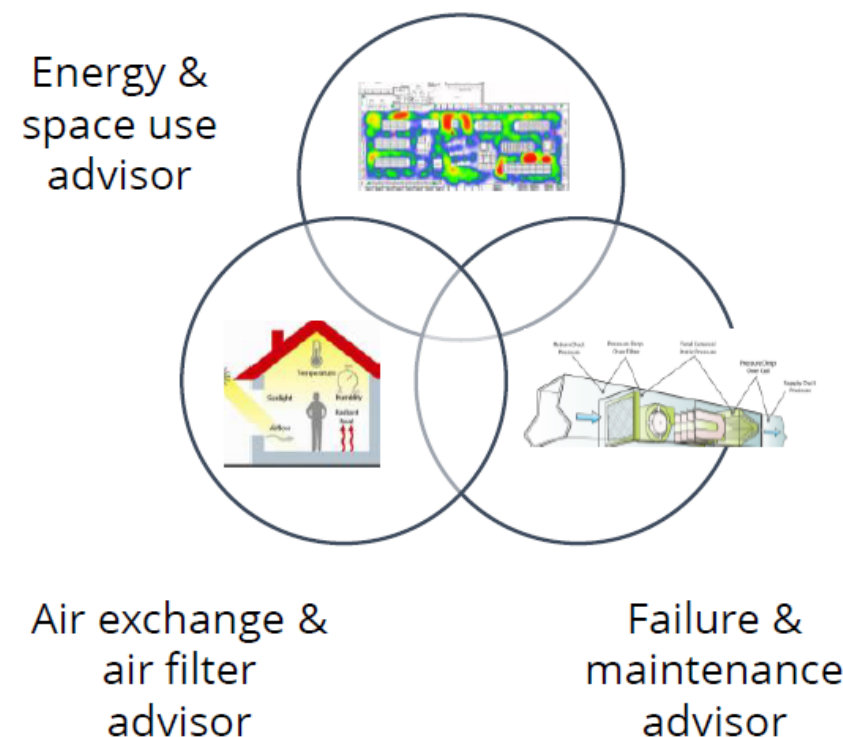
WeavDetect IP

AI software to enable
200x faster decisions



WeavControl IP

20-60% energy savings
30% air quality improvement



Energy &
space use
advisor

Air exchange &
air filter
advisor

Failure &
maintenance
advisor

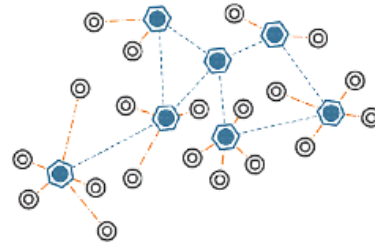
Fast to install, integrate & maintain



10 min to install
Low maintenance



4G connection works
anywhere



IPTV, security,
messaging integration



Integration with ventilation system not required
Wireless connectivity & battery provided

Value proposition to infra. managers



Reduce costs

ROI ~ 10x / project / year



30%+ energy savings
Reduced air conditioning failures
Reduce risks (hazards, COVID risks)

Increase revenue

ROI ~ 20x / project / year



Increase frequency & duration
of bookings & leases 15%+
Reducing downtime 20%+

Building resilient cities

Phase 1:

Resilient buildings



Passion
Made
Possible



Hotels, attractions, F&B

Phase 2:

Resilient
transportation



서울교통공사
Seoul Metro

KNORR-BREMSE



Transports
Metropolitans
de Barcelona



merak

Transportation fleets,
hubs & airports

Phase 3:

Resilient cities

WEAVAIR
CERTIFIED

New standard & certification
system

Track record

Projects in South Korea, Singapore, Philippines, Spain, Germany, UK, US



Customer pipeline



Partners



20 awards across 3 continents






Re-establishing Tourism
Confidence through Innovative
Digital Solutions

Fast-tracking Tourism Recovery in Southeast Asia



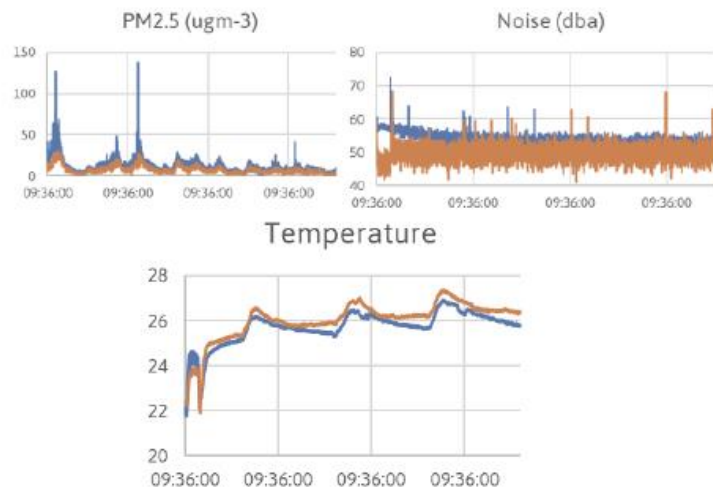
Sample case studies

| Organization | Pilot length | Impact |
|---|--------------|--|
| Public transit system  | 1 month | 20%-time savings, 30% improved AQ Extended to station “Best in Innovation Award” |
| Hotel  | 1 month | 30% time saving High accuracy detection of smoking in quarantine hotels Detection of air quality & air exchange problems |
| Mixed use building operator  | 3 months | Proactive maintenance 30% cost savings 20% improved AQ Utility incentives + awards |

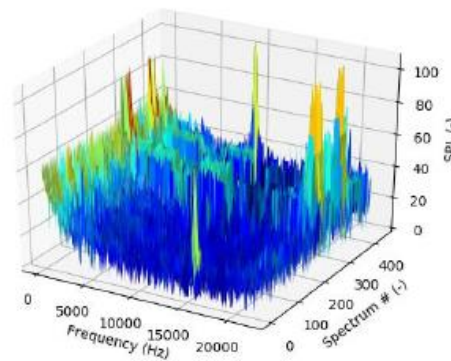
WeavAir case study



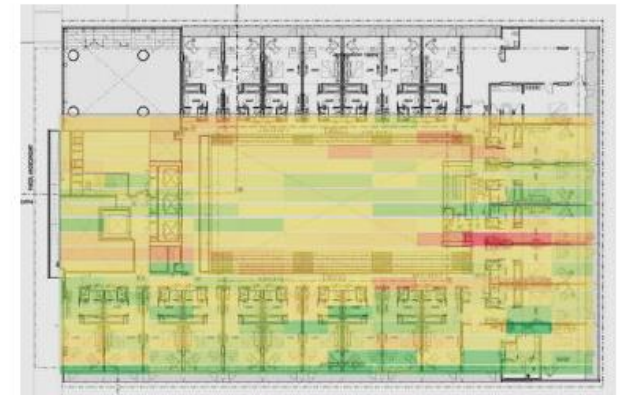
Accurate real-time
multi-sensor data



Insights & smart
advisory system



Reduced maintenance cost &
improved guest experience
via API & dashboard



For every 500 devices deployed, 1K+ people protected

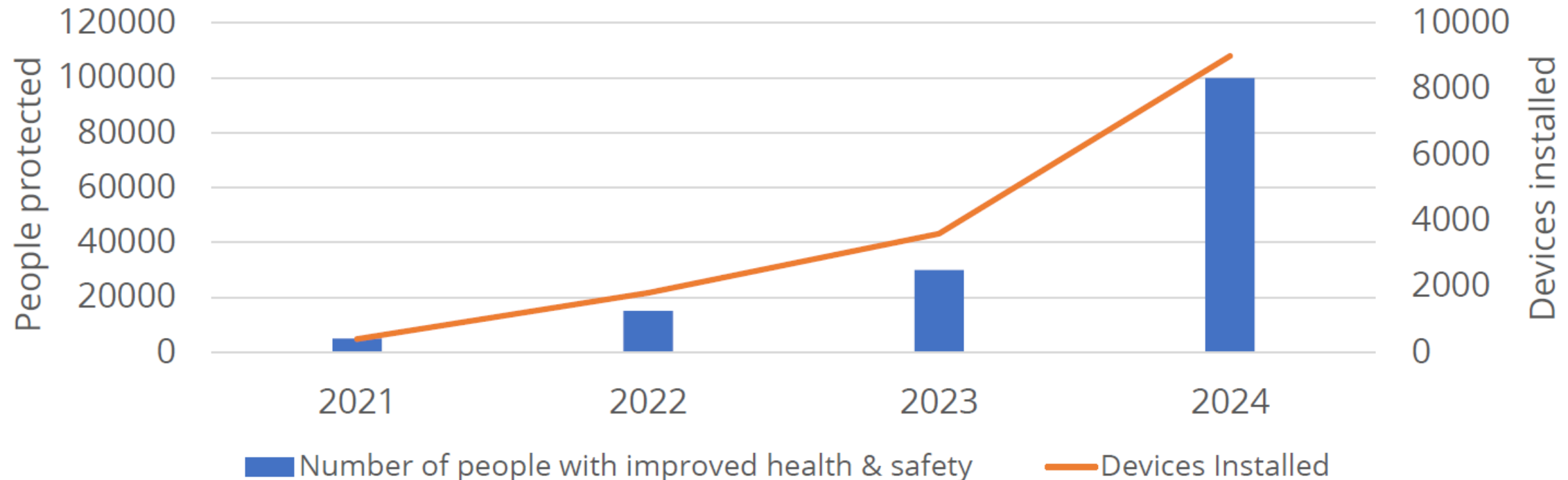
Hazard detection
to prevent safety
incidents



Energy savings via
control system
integration



Safety
ambassador
program



Join us

Looking for partners & collaborators

**New virus & bacteria
sensor testing**



Early access & help
design better solution

**System integration &
control systems**



Reduced operation costs
& new revenue sources

**Consortium for adaptive
infrastructure**



Help create
new standard



Because every breath counts



natalia@weavair.com | +14162764495 | weavair.com

Discussion

Q&A



NADIA FARADILA BINTI JALAWI

*Senior Assistant Director of
Engineering (Electrical) at City
Council of Seberang Perai*



BERNARD EWAH

*Founder of Digizens
Collaborative, Deputy Director
of National Information
Technology Development
Agency, Nigeria*



ANGELINA KHODOTOVA

*Assistant Manager for International
Projects at SRPOST Inc.*



YOVIN ANDRIAN

Enterprise Solution Manager at Qlue



NATALIA MYKHAYLOVA

CEO of WeavAir

Discussion. Q&A

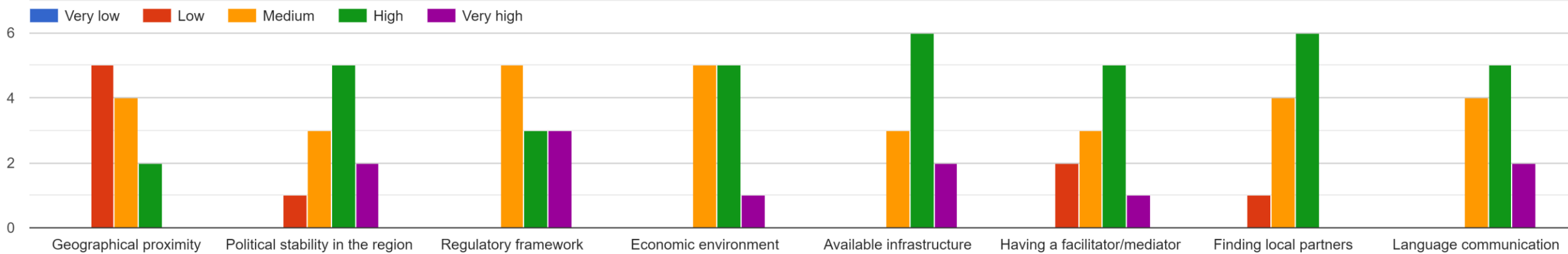
Q1. What are the most important factors to consider when engaging in international smart city projects (for cities/corporations)?

Q2. How can cities and corporations utilize better the WeGO platforms to achieve their smart city goals?

Q3. What feedback and recommendations do you have for WeGO to improve the Smart City Driver platform?

Discussion. Q&A

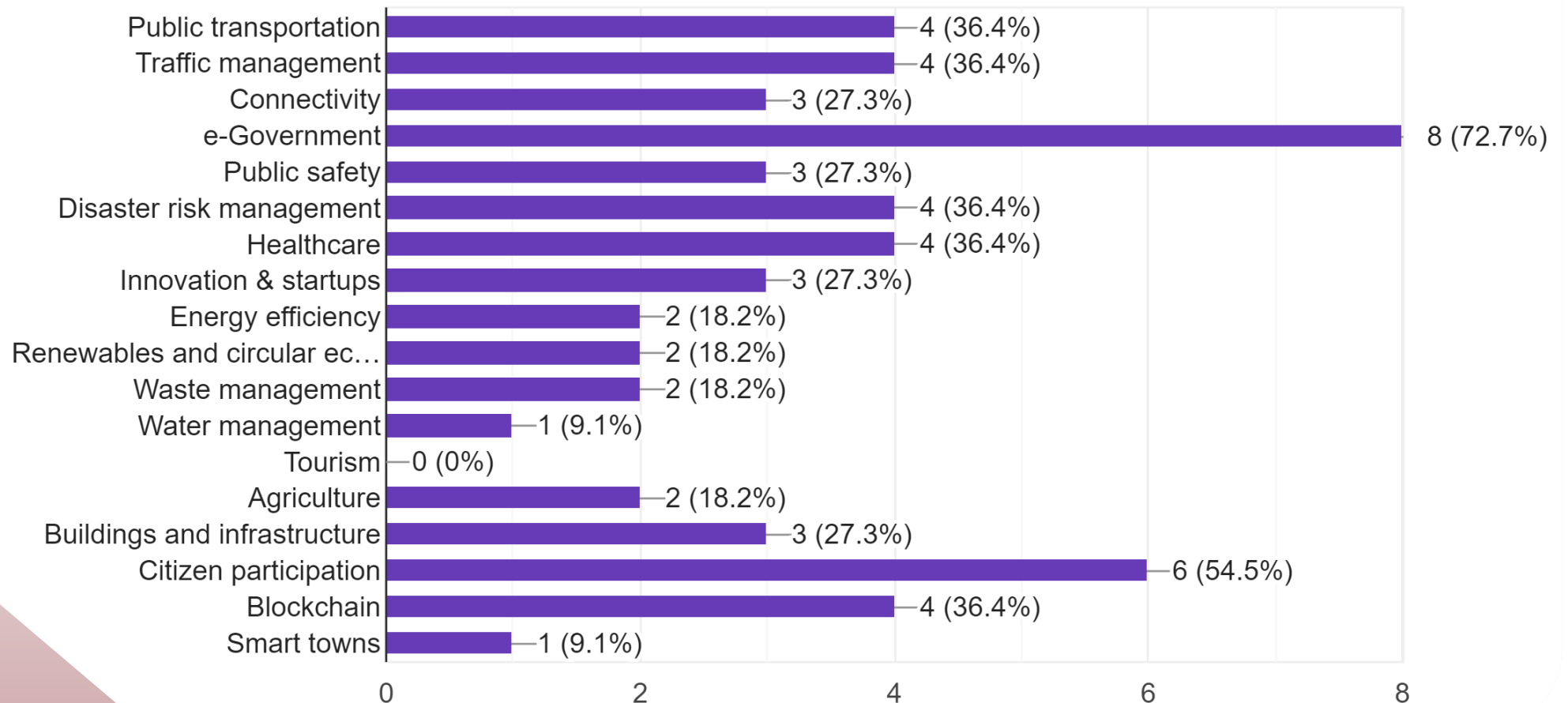
9. How important are the following factors for your company when looking for international business projects?



Discussion. Q&A

8. Which smart city areas is your company most interested in?

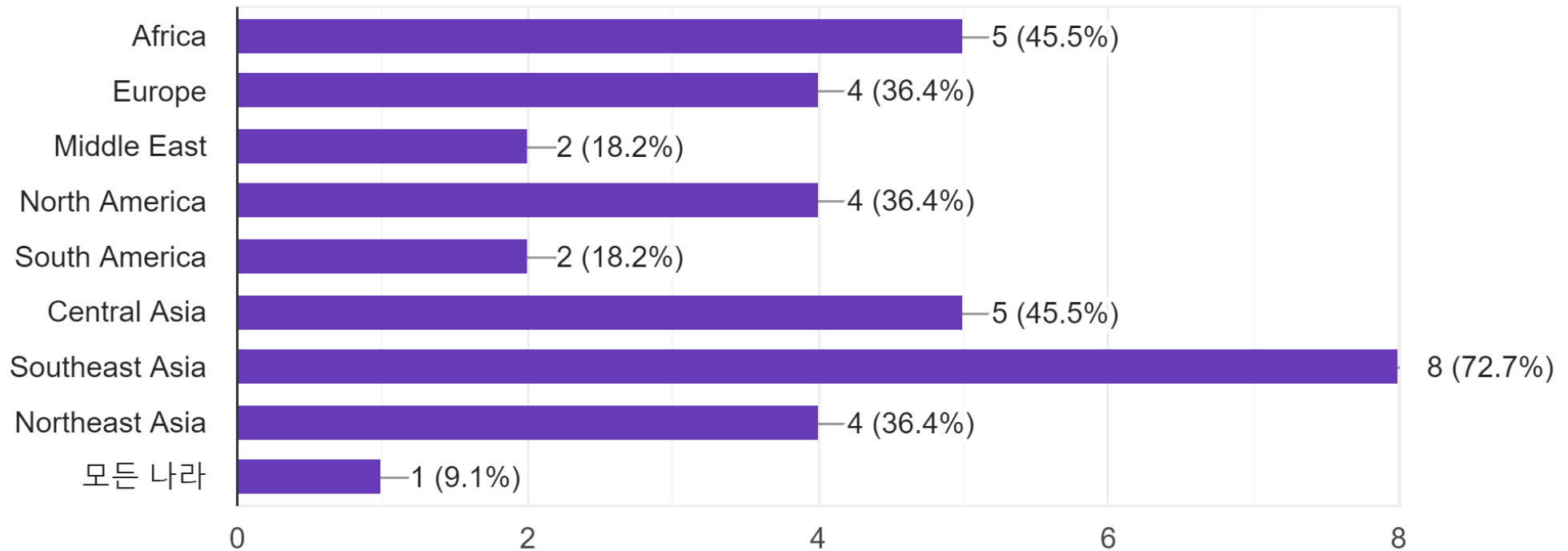
11 responses



Discussion. Q&A

6. Which of the following are the main target regions for your company?

11 responses



Upcoming

Events

- Africa Smart Cities Network (AfSCN) Seminar, Jun 29
- 2nd WeGO-ASCN Mayoral Conference, Q3/4, 2021
- WeGO 5th General Assembly, Oct 2021



For the most updated version of our activities, please visit the webpage at <https://we-gov.org/activities>.

Thank you.

 <https://we-gov.org>

 /WeGovOrg

 /WeGovOrg

 /WeGO Secretariat