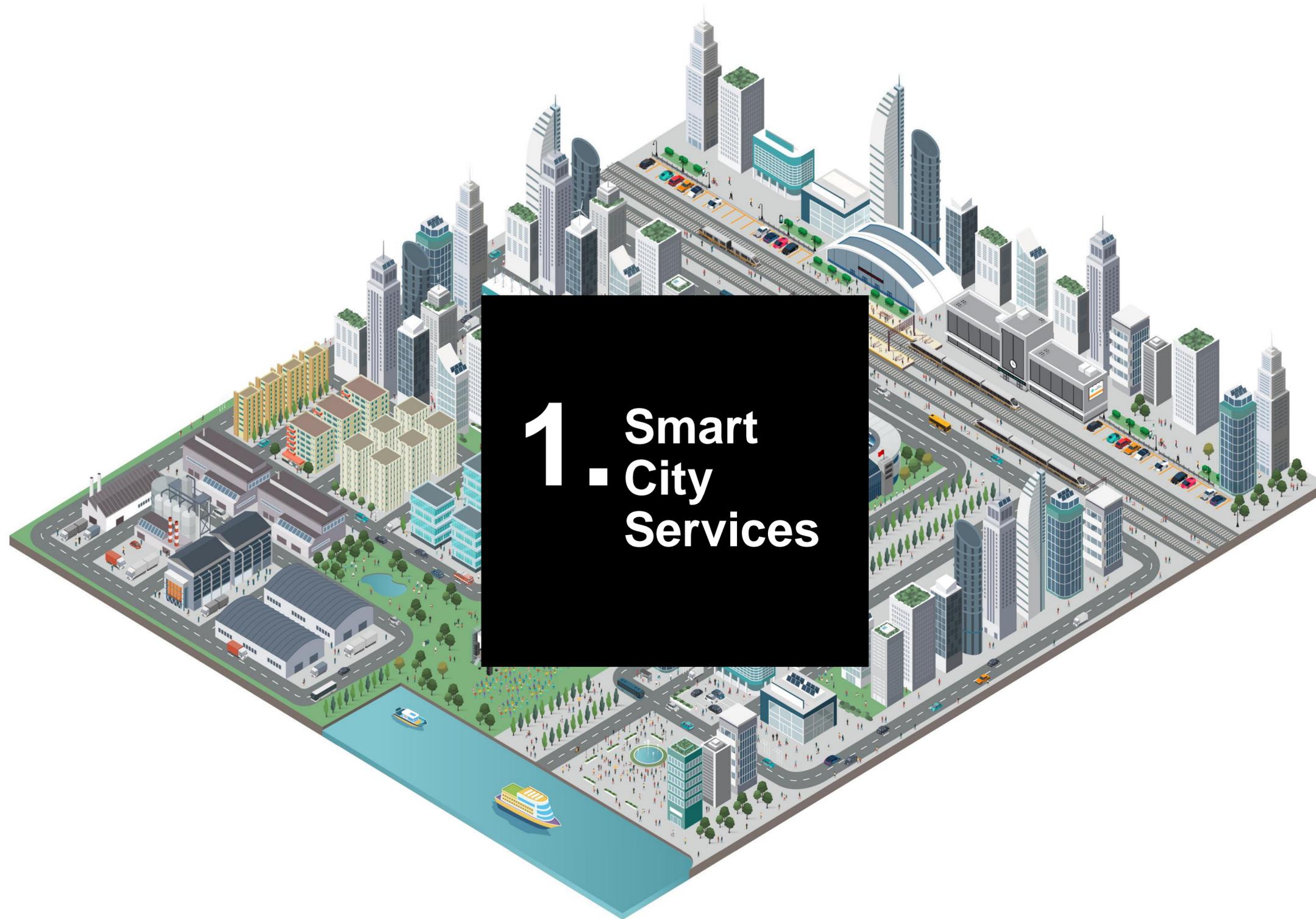


# The Challenge

To Deliver Smart City Services and Collect Useful Data





**1** ■ Smart  
City  
Services



## Communications

Wi-Fi  
4G /5G personal  
Digital Messaging  
LoRaWan  
Digital Display Screens



## Safety

Smart controlled LED Lighting  
CCTV  
Help Points  
Public Address Speakers  
Gunshot detection



## Celebration

Beacon  
Smart LED Lighting  
Event Power Outlet  
Banners



## Sustainability

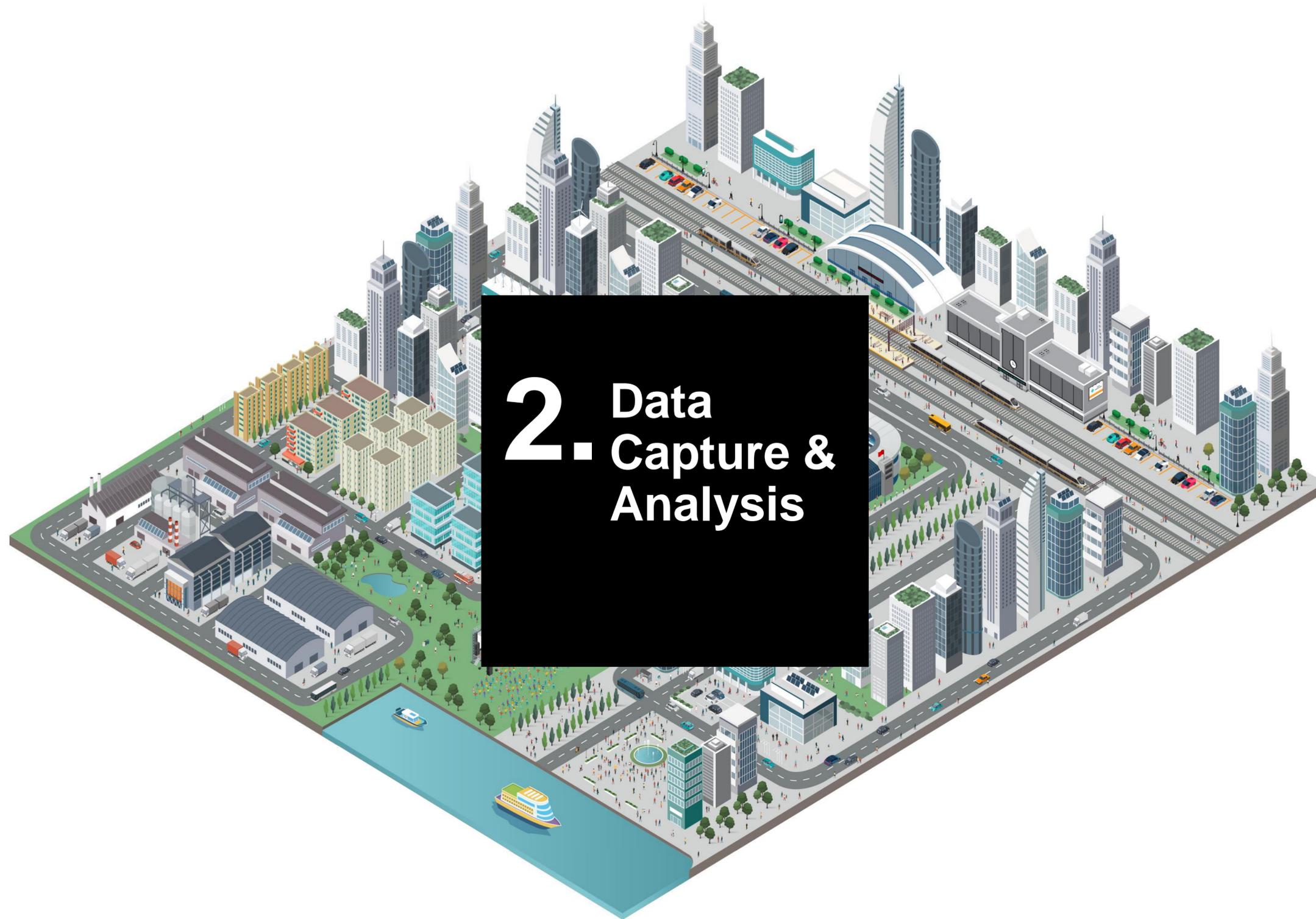
Electric Vehicle Charging  
USB Charging  
Smart LED Lighting  
Environmental Sensors  
Energy efficiencies



## Mobility

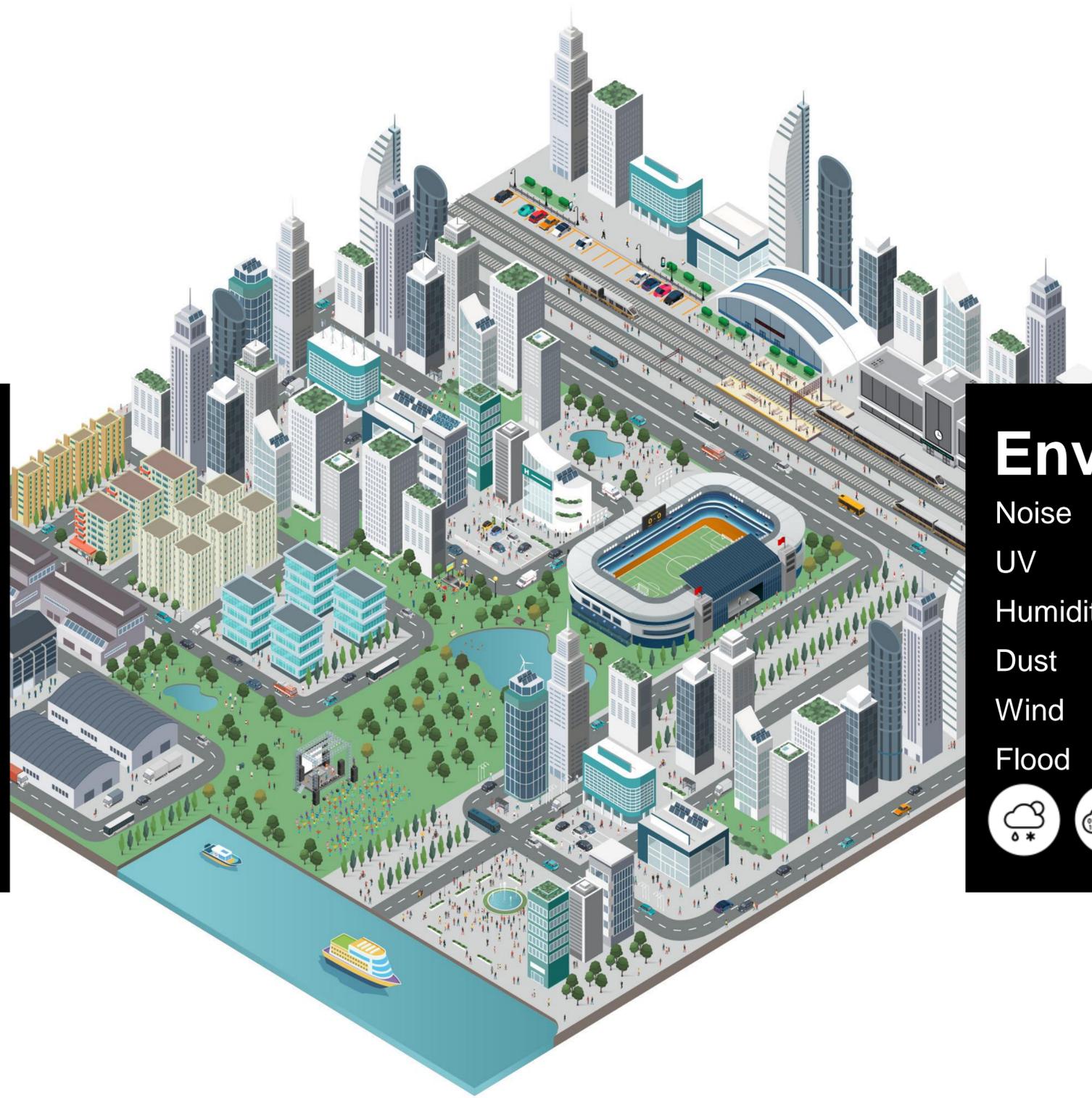
Parking  
Wayfinding  
Travel Card Readers  
CCTV  
Beacon  
Autonomous Vehicles





## 2. Data Capture & Analysis





## Usage

- Who?
- How many?
- When?
- Where?
- Why?



## Environment

- Noise
- UV
- Humidity
- Dust
- Wind
- Flood



# The Equipment



# The Risk

## Smart City Done Badly





# The Answer - BOOM

Build Own Operate Maintain



## Smart City Services & Data



Select



### Smart City Services & Data



Select

### Infrastructure



Fibre



24 hr Power

Locations



1. Build

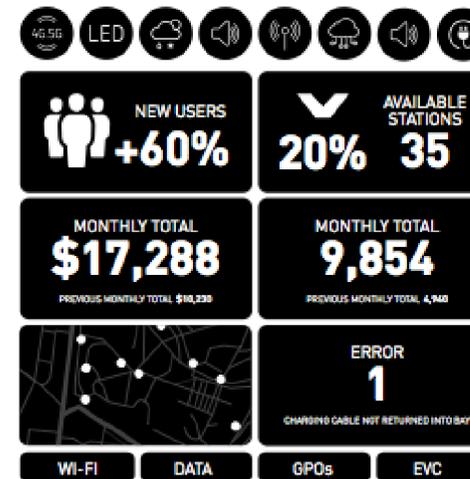
### Enabler



### Software



CMS



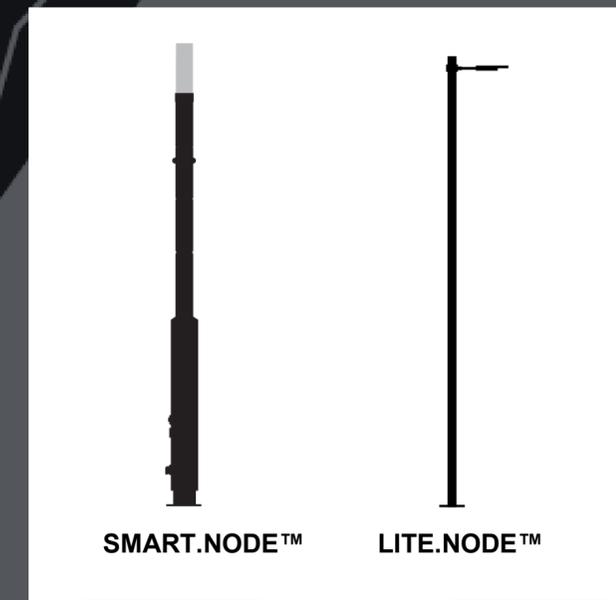
2. Own & Operate



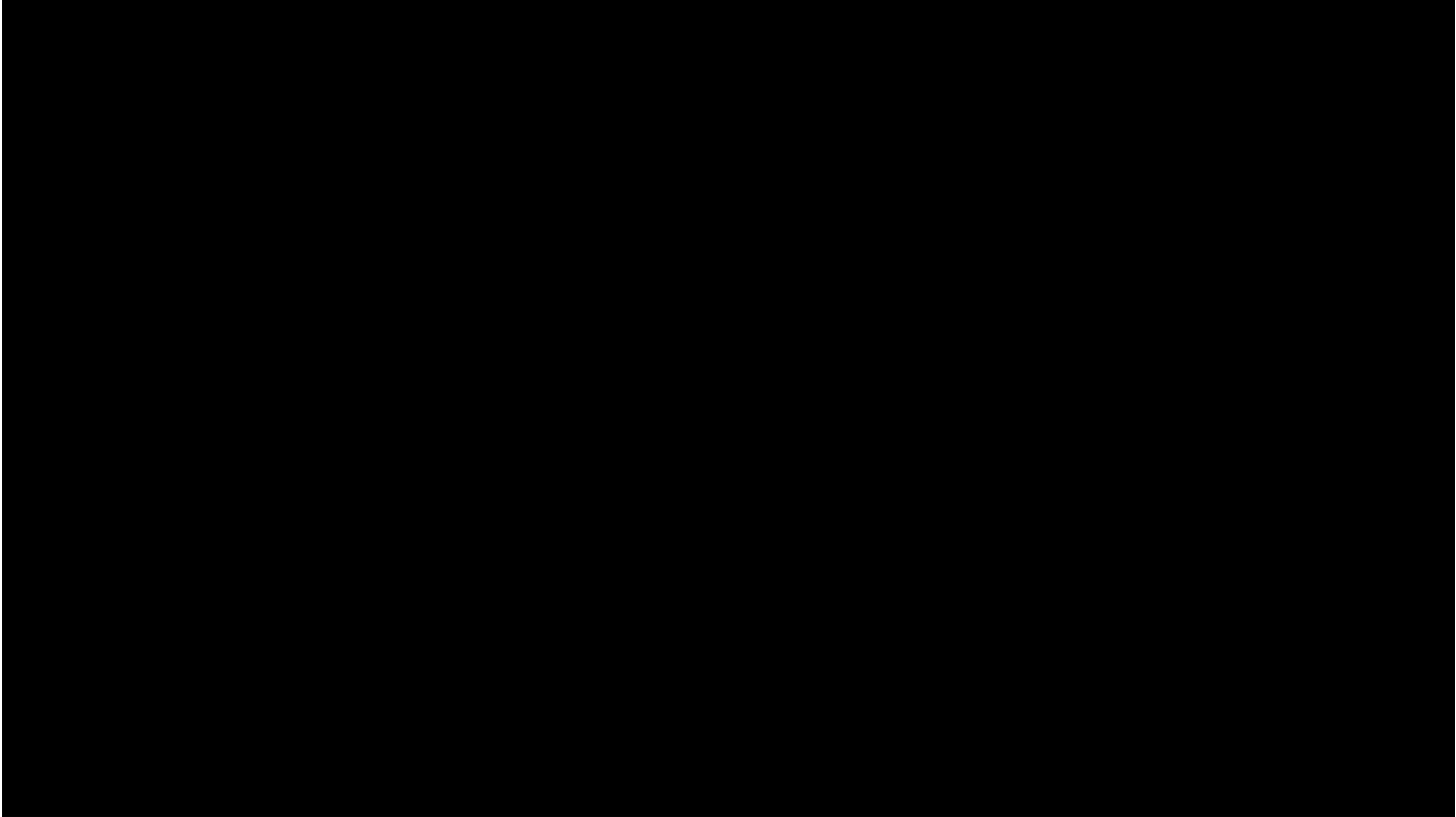
3. Maintain



# Power, Fibre & Locations



# SMARTNODE™



# Operate – e3



**Transport**

**Energy**

**Communications**

**Health**

**Environment**

**Safety**

**Media**

**Other**



# Operate – e3



# **The Money - BOOM**

**Build Own Operate Maintain**



# ENE.HUB proposes the delivery of “Smart City as a Service”

**1** 

ENE.HUB  
funds capital

**2** 

City or Council  
contributes on  
a tariff basis

**3** 

Tariff is based on Smart  
City Services delivered  
(shopping list)

**4** 

Tariff includes  
maintenance and  
upgrade over time

**5** 

Tariff is subsidised  
by 3<sup>rd</sup> party revenues



# The Rubber On The Road

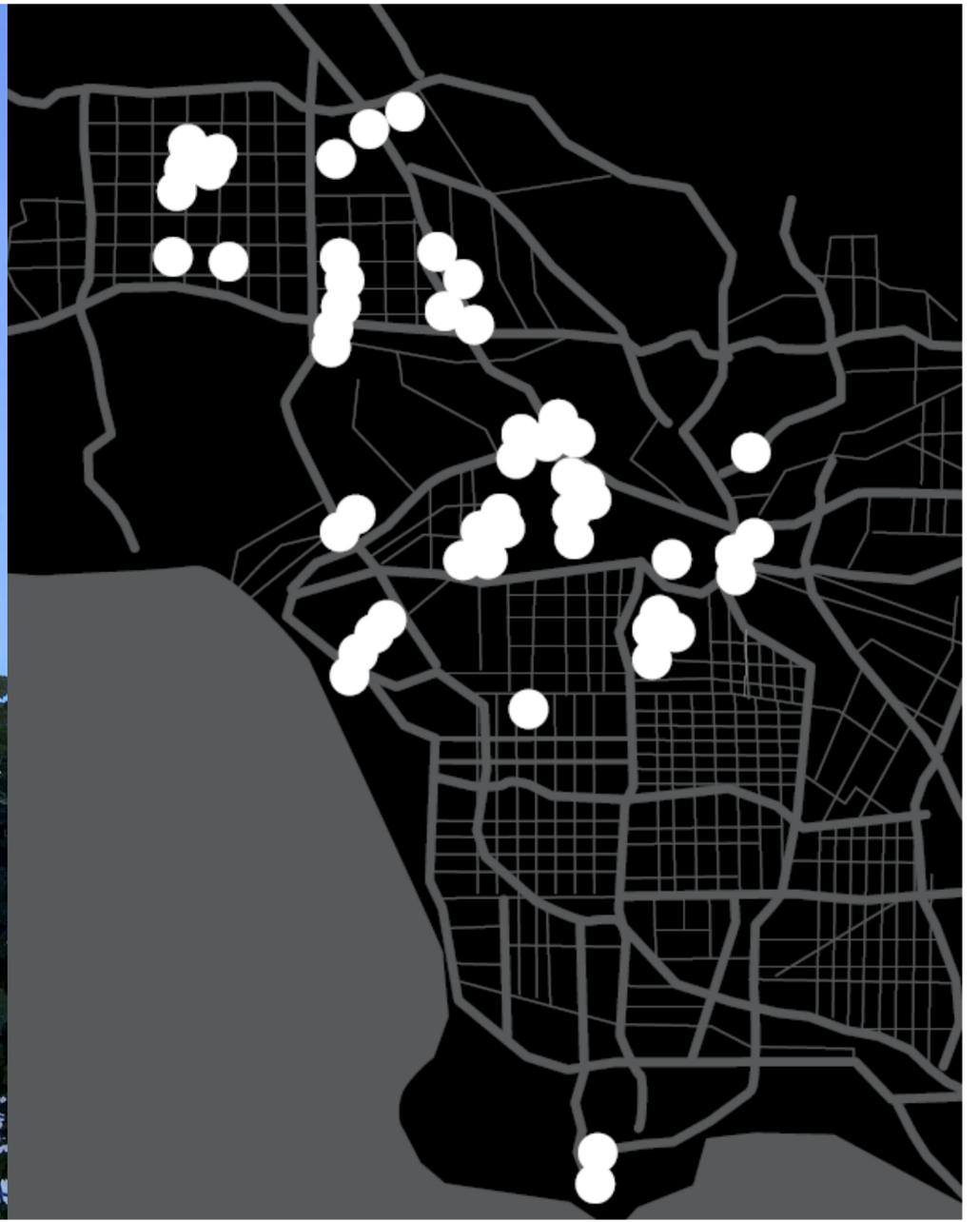
Case Studies





**SN x 40**
LED
4G.5G
📶
📷
☁️ 01001 10011001 01110010011 1111000111
🚗
🔊
☁️\*
📱
🔌
🔌
📱
👉
☀️
🎤
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➡️
➡️
➡️
➡️





SN x 100 LED 4G.5G [Wi-Fi icon] [Camera icon] [QR code icon] [Car icon] [Speaker icon] [Weather icon] [Mobile signal icon] [Power icon] [USB icon] [Phone icon] [Hand icon] [Light icon] [Microphone icon] [P icon] [Arrow icon] [Arrow icon] [Arrow icon]





**SN x 20** LED 4G.5G                  



