weMo Scooter

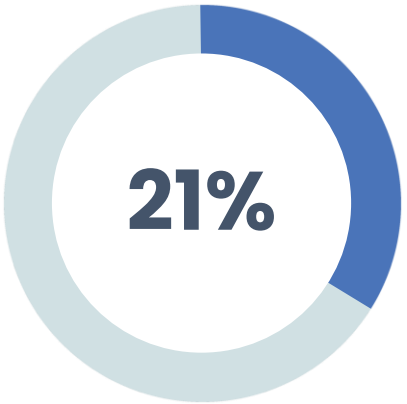
Sharing Operator

Asia's Leading Sharing Operator

WeMo Scooter is an urban mobility solutions provider developing technology and services with the goal of decreasing dependency on privately-owned vehicles, reducing pollution, and to improving urban living for all

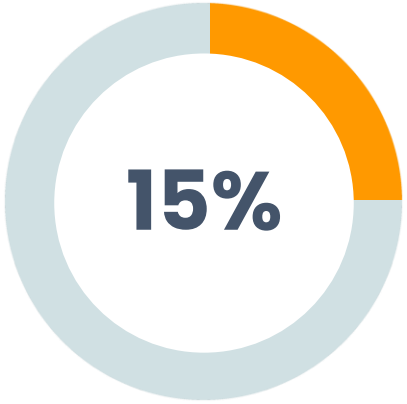
Transportation in Taipei

City of Public Transportation



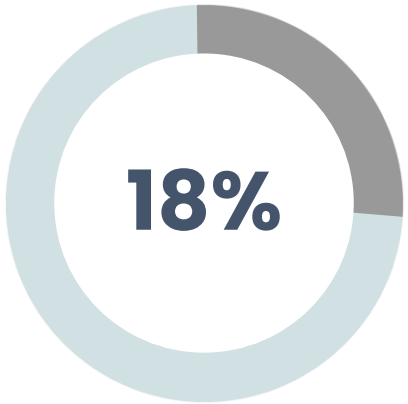
Cars

Impervious to the cold and rainy seasons in Taipei however difficult to find parking and expensive to operate.



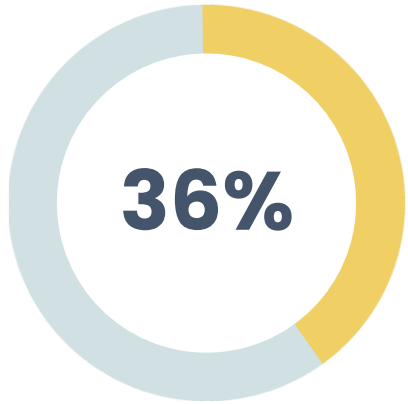
Bus

Low cost and high number of bus stations the biggest downside to buses is the constant traffic in the city.



Rapid Transit

Clean and efficient the Rapid Transit in Taipei is one of the cheapest yet fastest forms of transportation in Taipei.

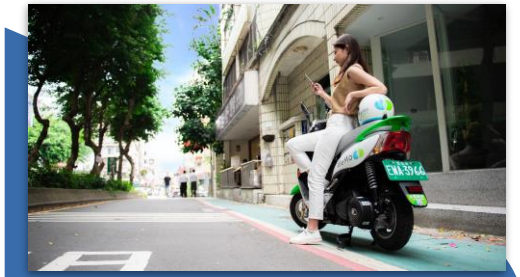


Scooter

Plentiful parking and low cost of operation makes this the one of the best personal forms of transportation in Taipei .

WeMo Scooter

Electric Motorcycle Sharing



1

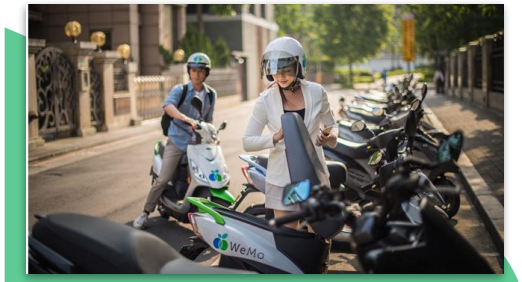
E-SCOOTERS

Green vehicles and high user adoption to create better city living

2

ROBUST IOT-BASED INFRASTRUCTURE

Connected vehicles enabling remote controls, big data, and geo-fencing for government's smart city vision



3

FREE FLOATING MODEL

Journey starts and ends anywhere within the operating region.

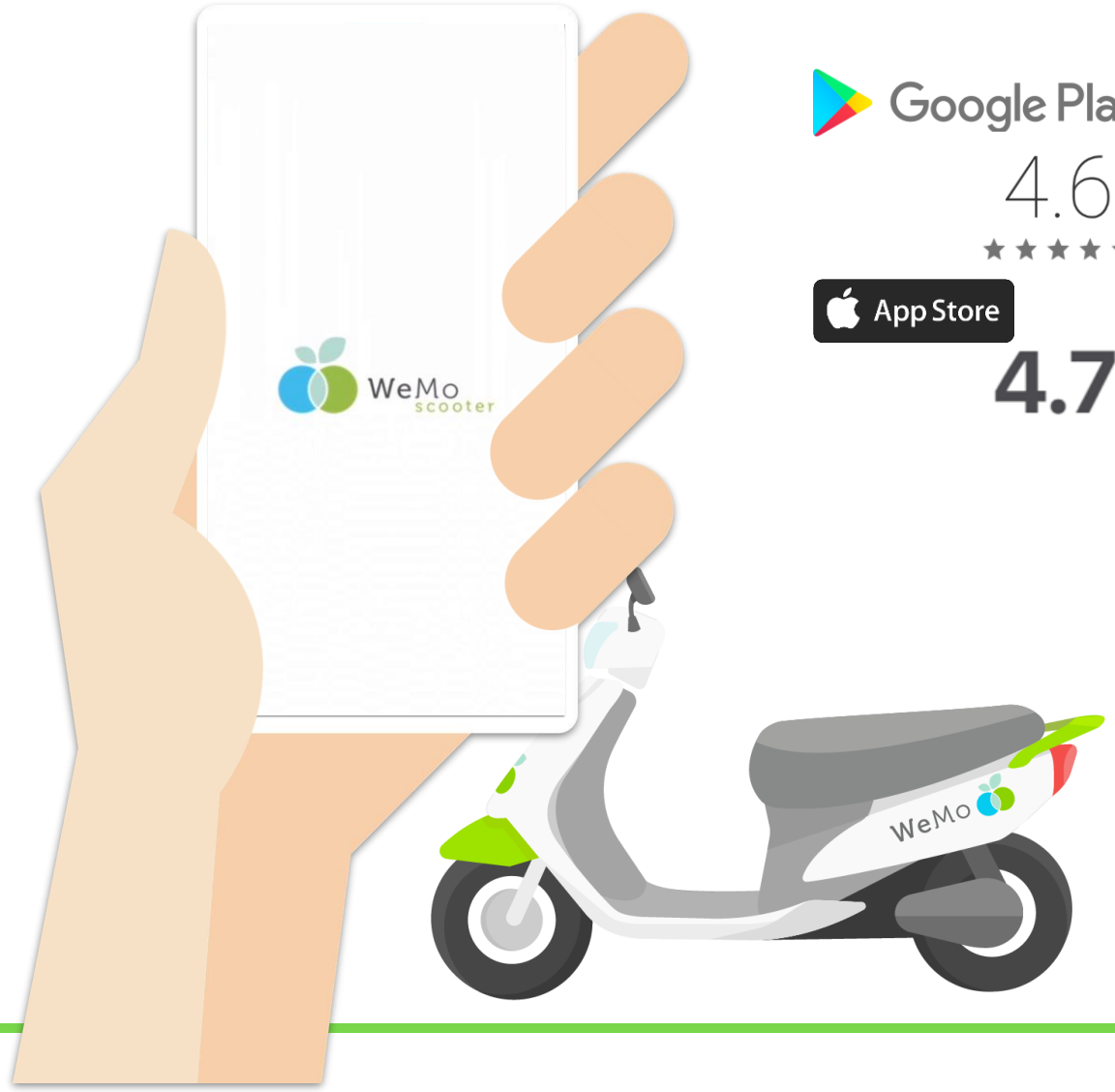
4

MOBILITY IS THE KEY

A few taps on our app is all that is needed to find, rent, and return.

Positive User Experience

the next big thing is the one that makes that last big thing usable



Google Play
4.6

App Store
4.7 (Full score of 5)

Registration 01

Quick and painless automated verification of ID and rider's license

Locate and Ride 02

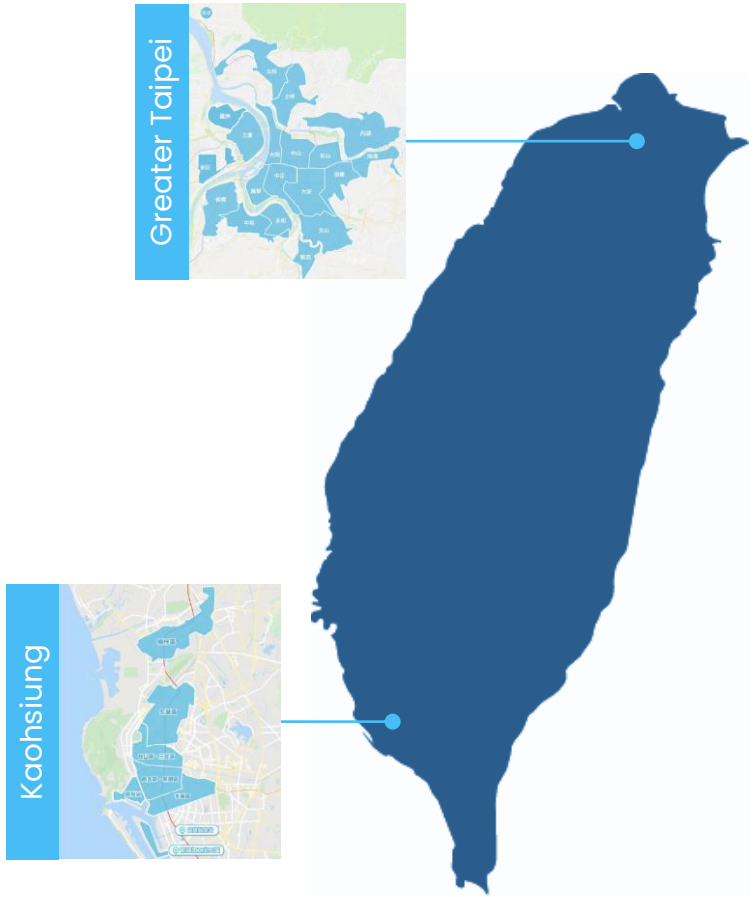
Map based interface to find the closest vehicle, reserve, rent, and ride in seconds.

Support 03

Integrated AI Chatbot plus 24-7 customer service to help users with operation, service, or billing related issues.

Positive Disruption

WeMo Scooter is the largest sharing e-scooter service provider in Asia



7 Years

7-Years of experience operating a shared fleet - battery swapping, charging, maintenance, and repair of vehicles

1M Rides per Month

Growing at a CAGR of 350% with currently 500K+ Users

30K Daily Rentals

Managing 5000 battery swaps across 2000 battery stations, 200 vehicle repairs per day, 500 dispatched vehicles, over a fleet of 7000 scooters.

24 / 7 service

99.99% uptime in 2021 the system operates for 24-hr battery service and 24-hr repair services.

WeMo Scooter

WeMo Nexus Customer Services

built to provide the best customer experience

Parking Integration 01

Parking system integration to allow customers to park in gated parking garages or lots.

Safe Rider Training 03

AI chatbot and onboarding training instructions and reminders to train safer riders

CRM 05

Track and understand customer behavior including points based violation and reward tracking system

Ticket Prevention 02

Notify users of high ticketed areas to help them avoid parking violations

Lost Items Reminder 04

System reminds users if trunk was not opened between parking and return of vehicle.

WeMo Nexus Sharing Solutions

World's best end-to-end shared mobility and fleet management system

WeMo Cloud

customer, fleet, and data management services

Big Data

data warehouse along with data analysis services

Charging

vehicle and battery charging management services

Battery

battery maintenance and management services

Smart City

city wide integration of data, sensors, and emergency services

App

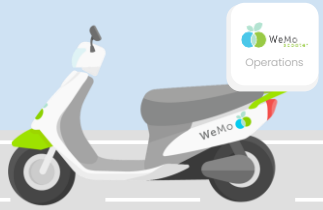
fully customizable user experience

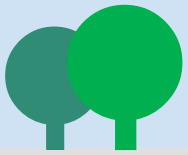
Vehicle

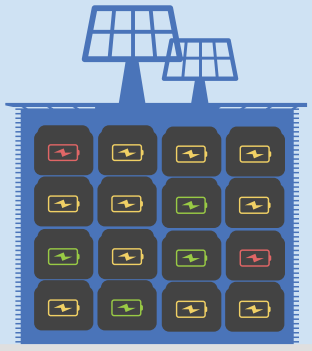
vehicle command, operations, and maintenance services

Operations

employee deployment, repair, and dispatch management







WeMo's Market Integration

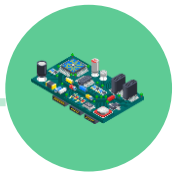
Providing the best transportation service

CORE COMPETENCY

Vehicle OEM

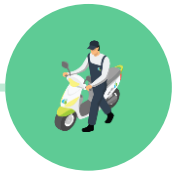
By not manufacturing the vehicle we can remain vehicle agnostic and use the best vehicle for the local market.

Systems Engineering



In-House Engineering expertise ranging from battery, vehicle, systems, to software allow us to build the best system for operations and customer satisfaction

Fleet Operator

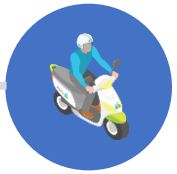


Operating our fleet gives us the expertise required to build a more robust system for fleet and operational management. We not only can manage the vehicle, we can manage the people keeping the vehicle in operation.

Mobility Service Provider

By combining our systems robustness and fleet management experience, we are able to provide the strongest shared mobility solution.

Customer



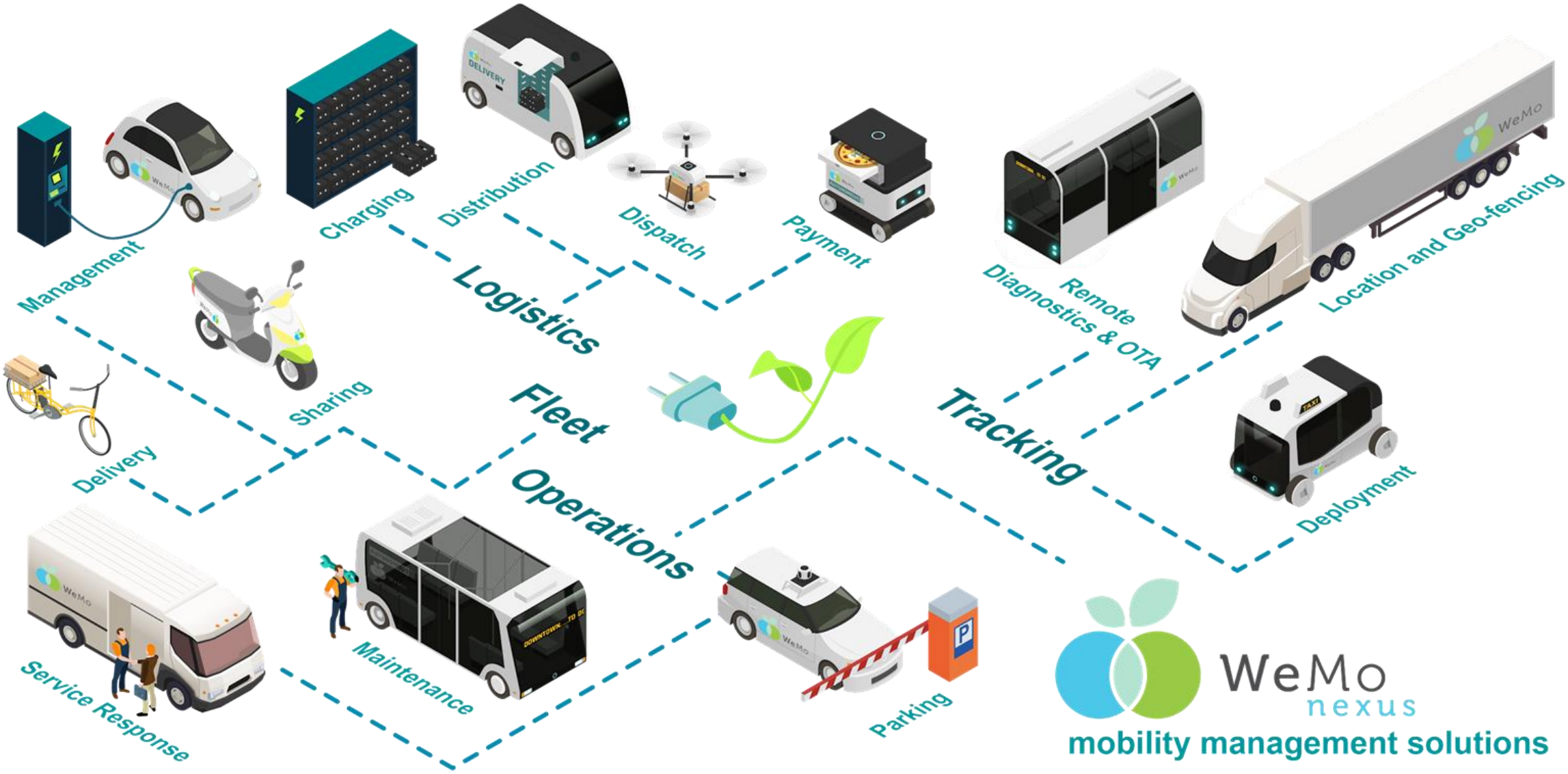
Customer who requires mobility service to get them from A to B

weMo Scooter

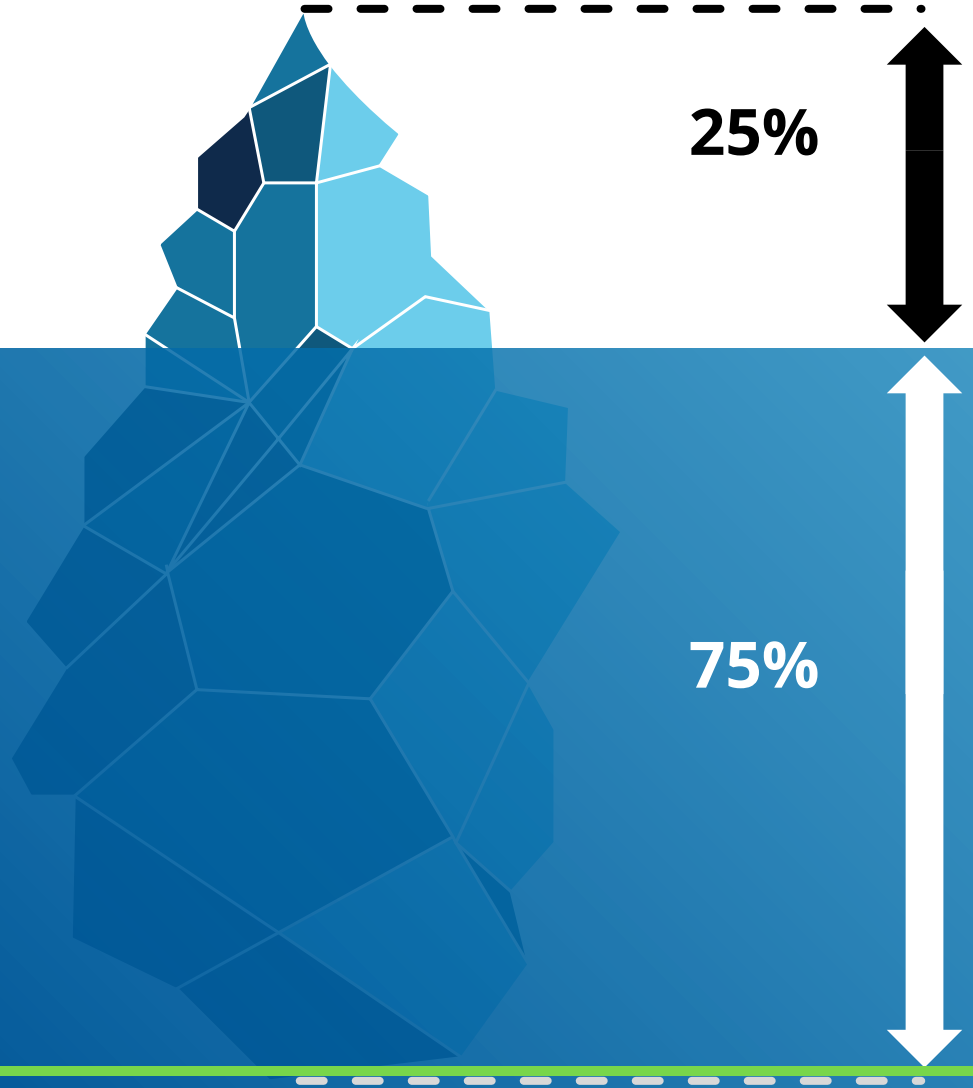
Mobility SaaS Provider

Asia's Leading Sharing Operator

WeMo Nexus mobility management empowers businesses with proven-to-work technology and solutions built by operators for operators to improve operational performance and efficiency resulting in productivity and profitability.


Management
Charging
Distribution
Dispatch
Payment
Logistics
Remote Diagnostics & OTA
Location and Geo-fencing
Tracking
Sharing
Delivery
Fleet Operations
Deployment
Service Response
Maintenance
Parking
WeMo nexus
mobility management solutions

The value of WeMo Nexus



User Services

User application, onboarding, customer relations, and the vehicle are all essential but it is only the front facing image of MaaS. WeMo Nexus offers a complete user experience guaranteeing return business.

Fleet Services

While user services is the front facing image of the company, the path to profitability is based on the efficiency of your MaaS operation. WeMo Nexus focuses on the efficient operations of your fleet to optimize profitability. Big data, real-time information, and smart city integration gives you the tools to needed streamline your business. From the maintenance and repair of the vehicle, to integrated parking services and violation warning systems, WeMo Nexus is a unique system built upon half a decade of WeMo Scooter's operational experience.

WeMo Scooter

WeMo Nexus pairs any vehicle to any operations model maximizing localization

Vehicle

E-Motorbike

electric scooters are the current way WeMo Scooter operates in Taiwan

E-Bike

fleet or rental management of personal or business use electric bikes

Car

sharing, rental, or corporate level management

Truck

maintenance and location management along with best route navigation

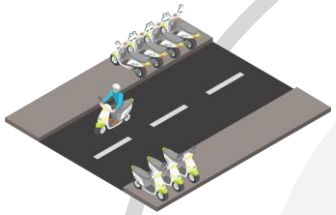
Public Transportation

gps based asset tracking and vehicle level logging and diagnostics

Operating Model

Station Based

point to point rental similar to traditional rental models



Free Floating

rent and return anywhere there is legal parking

Peer-to-Peer

sharing vehicles among a community to allow maximum use of resources

Corporate Fleet

fleet management using an application as key to allow corporate fleet operations

Disaster Relief

backup battery and transportation network during crisis

weMo Scooter

New Vehicles

What is in the Nexus Today

Sentinel Black Box

connectivity and intelligence available for any vehicle to collect real-time data

System Services 01

- GPS
- Program & Control
- Power Utilization
- Over the Air Updates
- Telematics Logging

Vehicle Health 02

- Battery Health
- Vehicle Diagnosis
- Error Diagnostics
- Edge Computing
- Crash and Error Alert

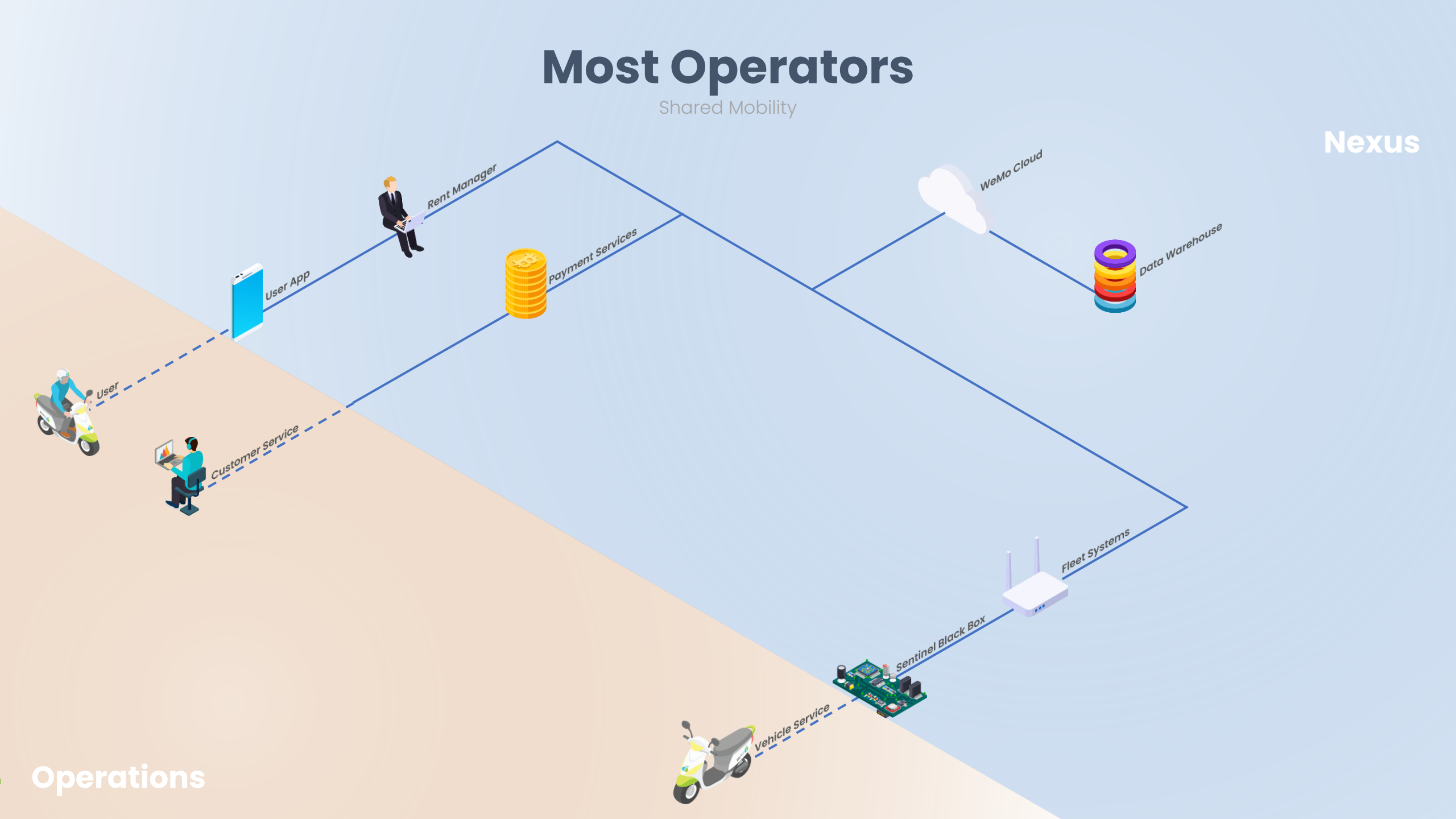
User Services 03

- Location Service
- Ride Logging
- Safe Rider Analysis
- Offline Trunk Access
- Offline Vehicle Return

WeMo Scooter

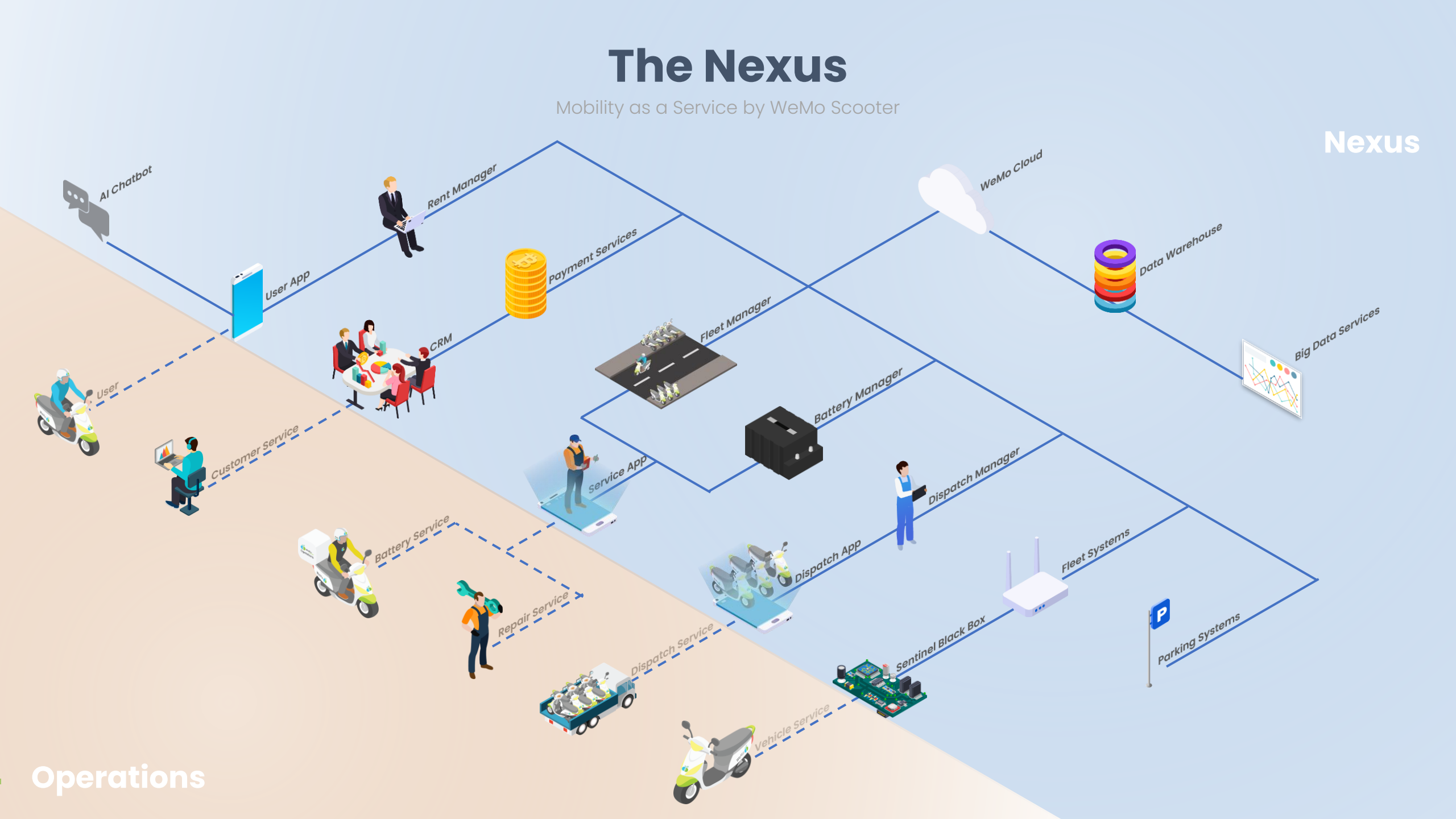
Most Operators

Shared Mobility



The Nexus

Mobility as a Service by WeMo Scooter



Automated Nexus System Operations

Error Repair Dispatch Process

User Reports Issue

Customer Service requests Repair

Scooter Offline

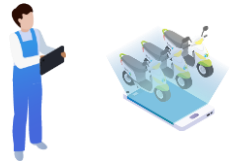
Dispatch Notified

Truck Pickup

Repair center for repair

Maintenance check and service

Outgoing Quality Check



Dispatch Notified

Biker Dispatched

Bike delivered to hotspot location

Scooter Online

Customer Operations

Dispatch System

Live Control Tower

Central Management

Vehicle Dispatch

Repair Station Management

Maintenance Record

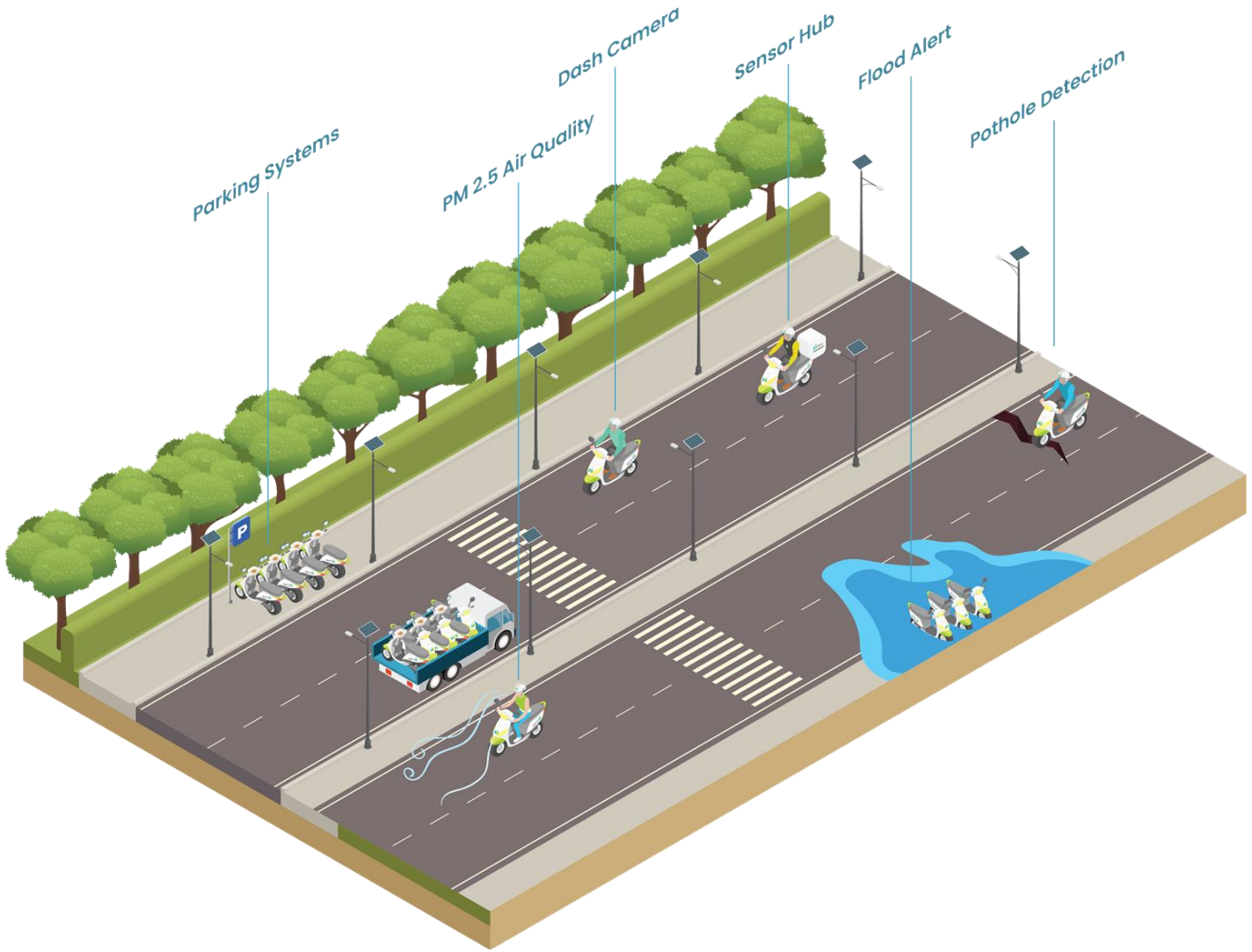
Mobile IOT Sentinel System

Priority Rerouting

Vehicle Error Detection

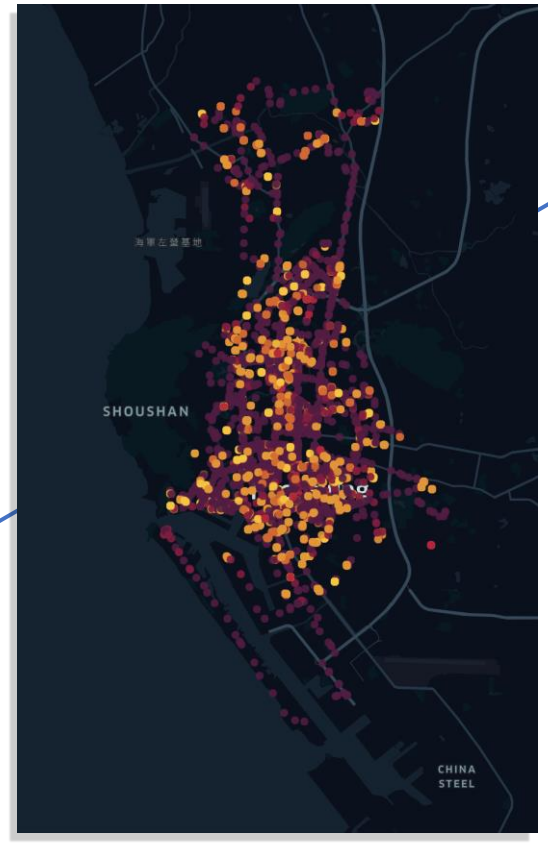
WeMo Nexus Smart City

strengthening government relations

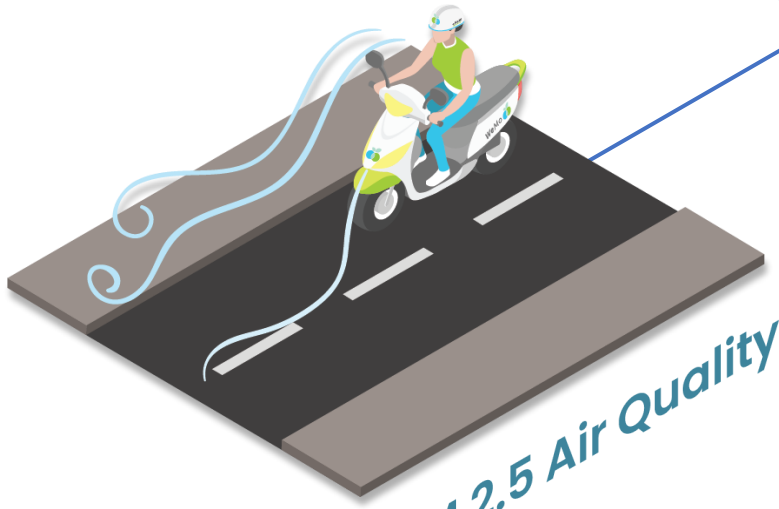


Smart City

PM2.5 Detection



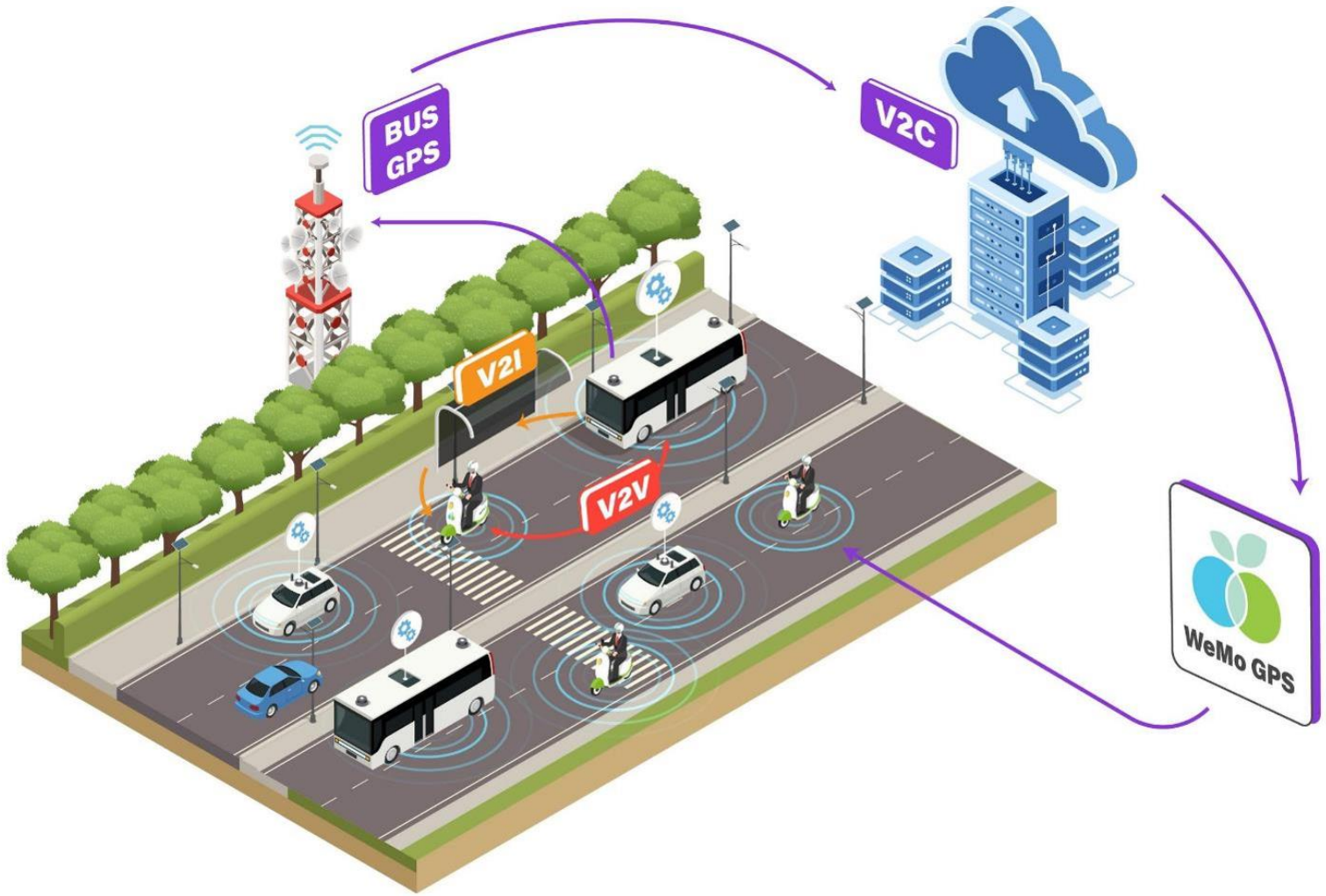
WeMo Cloud



PM 2.5 Air Quality

Central Vehicular Management System

V2x Communications



weMo Scooter

Adoption of Google Kubernetes Engine (GKE)

Asia's Leading Sharing Operator

Why Kubernetes

If not then I wouldn't be here would I?

- Auto-scaling
- Extensibility
- Resource Limits
- Portability
- Auto Healing of Nodes
- Containerized OS
- Load balancing

Why Google Kubernetes Engine?

Google

Most advanced managed Kubernetes service

- IAM (Identity Access Management) rules
- A high-availability control plane including multi-zonal and regional clusters
- Auto-repair, auto-upgrade, and release channels
- Vulnerability scanning of container images and data encryption
- Integrated cloud monitoring with infrastructure, application, and Kubernetes-specific views

Autopilot vs Standard

Introducing GKE Autopilot: a revolution in managed Kubernetes

Autopilot

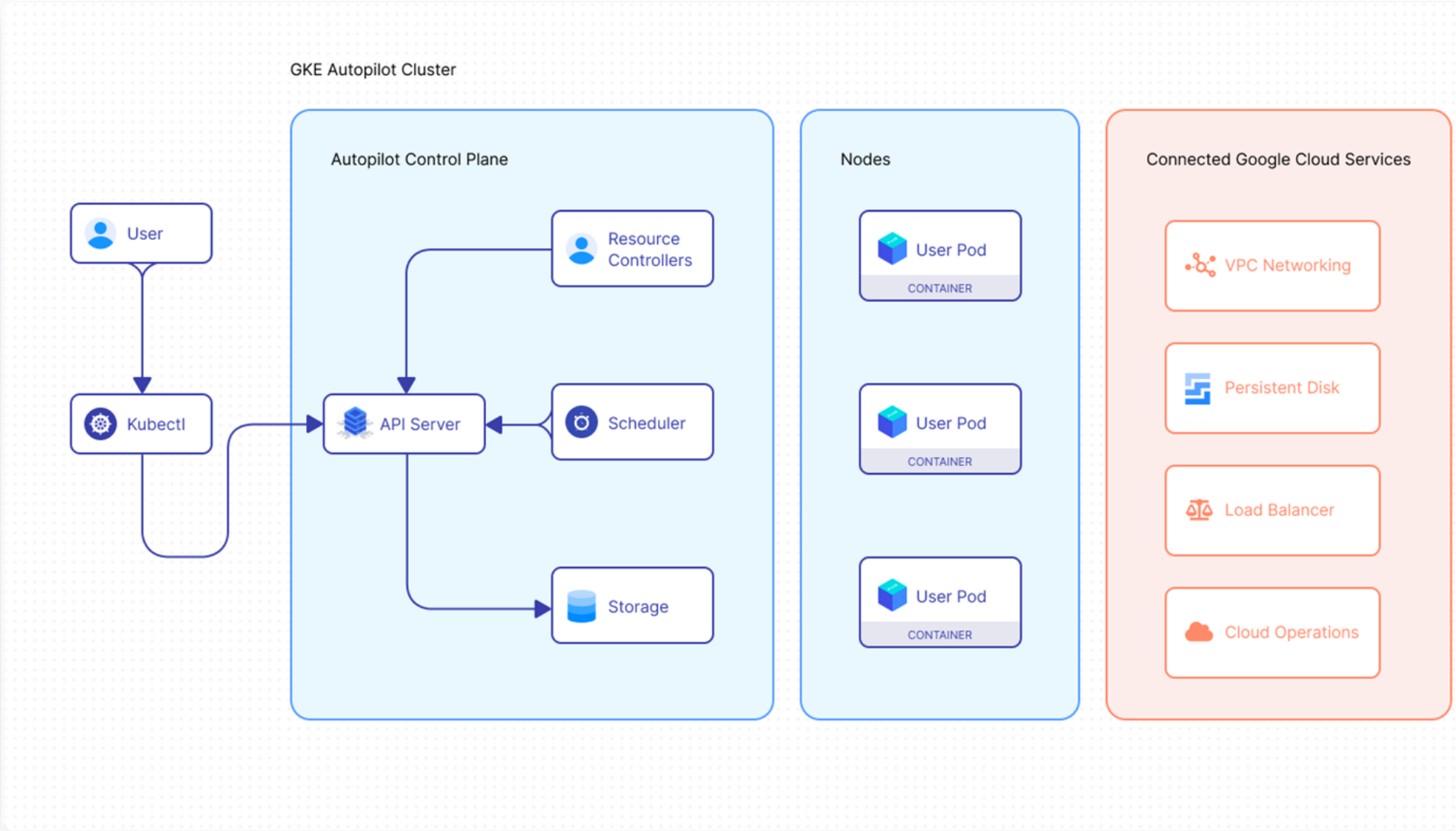
- **GKE provisions and manages cluster's underlying infrastructure, including nodes and node pools, giving users an optimized cluster with a hands-off experience.**

Standard

- **Users manage their cluster's underlying infrastructure, allowing for more node configuration flexibility.**

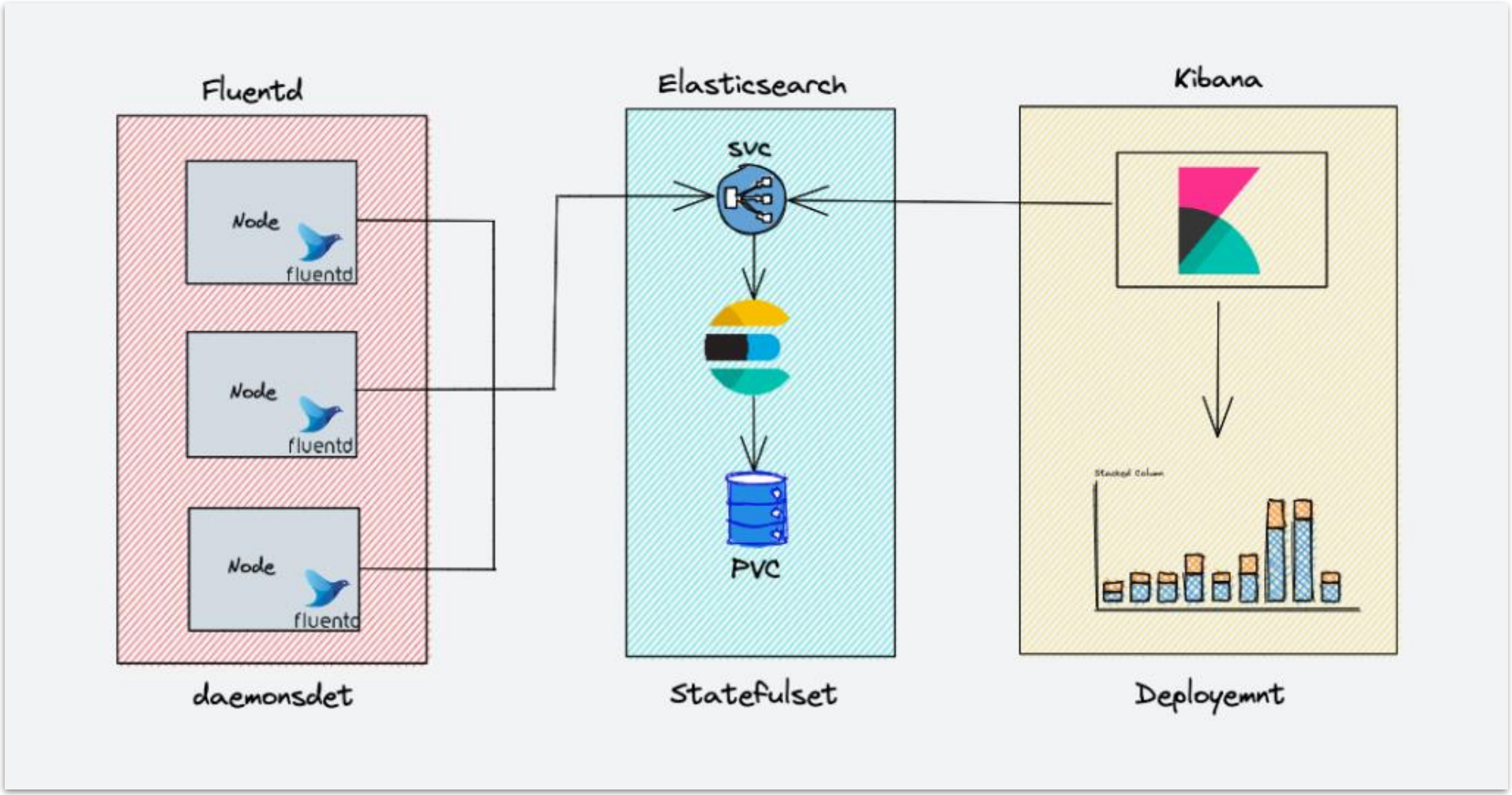
GKE Autopilot

It's a good start



Best Practices – EFK Stack on Kubernetes

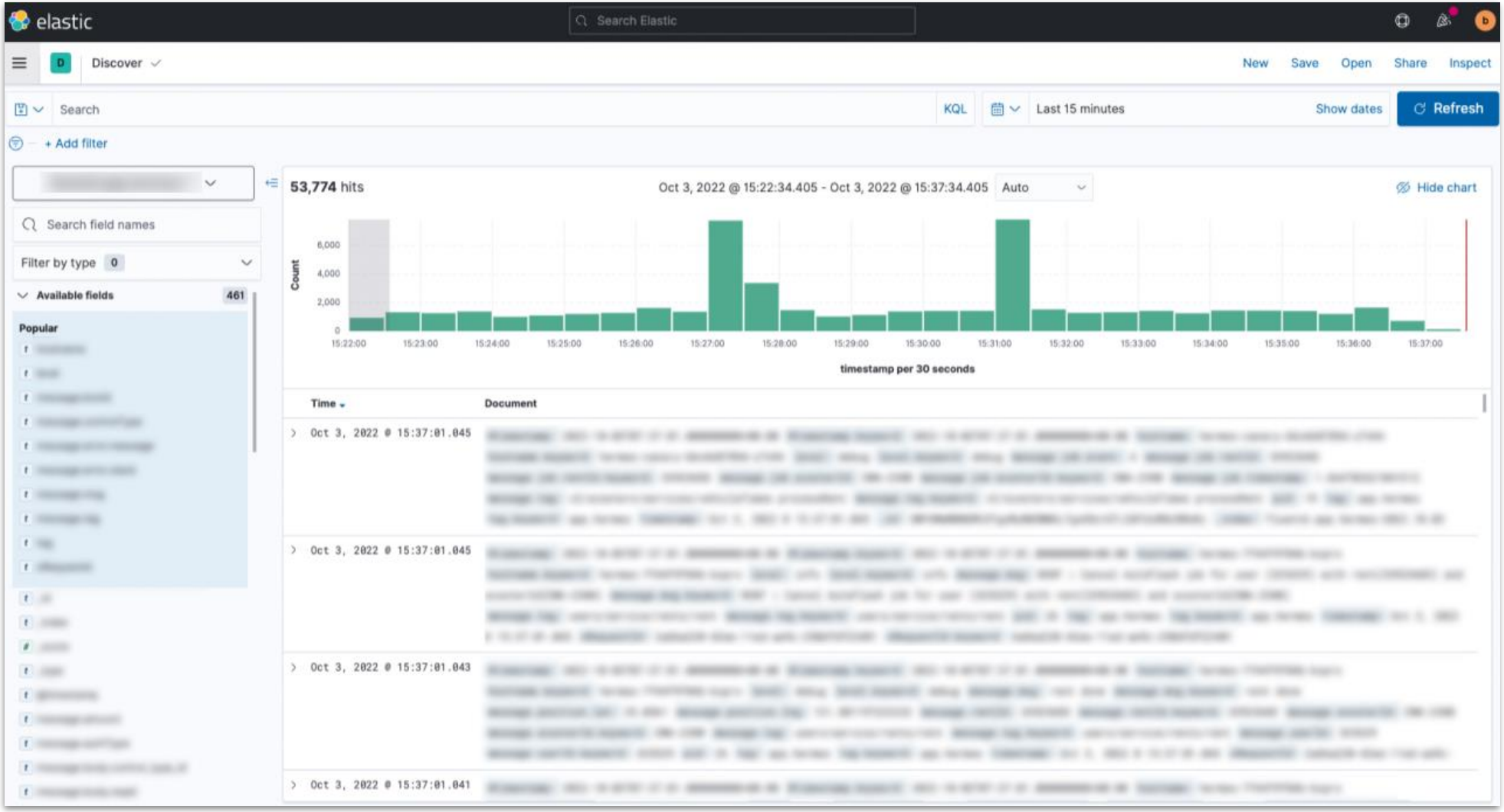
Use the native logging mechanisms of containers



source: https://devopscube.com/setup-efk-stack-on-kubernetes/

Elastic Search

It's a good start



weMo Scooter

Lessons Learned

Experience is the child of thought, and thought is the child of action

Containers are stateless and immutable

- Store files : Cloud Storage.
- Store information such as user sessions : Redis or Memcached.
- Block-level storage for databases : persistent disks

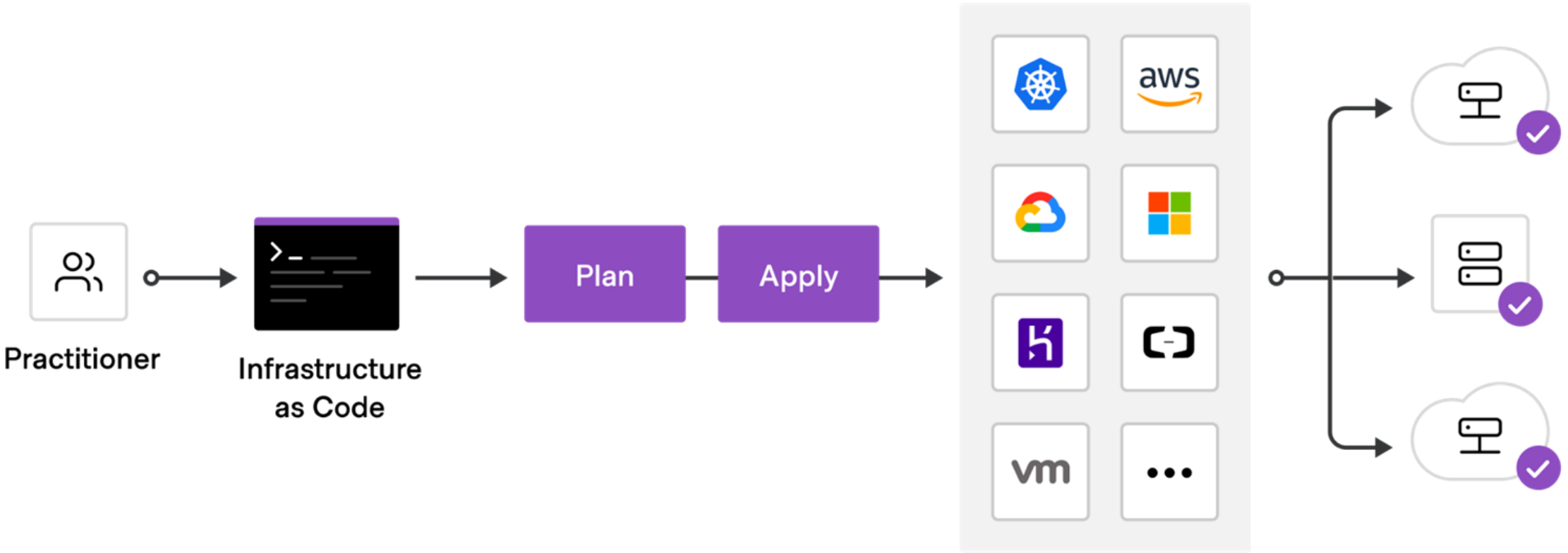
Microservice is not an instance

Applications are easy to be monitored

- prometheus - monitor tool
- Setup
  - Liveness probe
  - Readiness probe

Infrastructure as Code

the managing and provisioning of infrastructure through code instead of through manual processes




weMo
Scooter