



Global Mobility Problem for Cities

Cities are under immense pressure to accommodate new demands on the kerb.

- Today's economic, environmental and consumer needs
- Tomorrow's accessible kerbside essential for sustainable mobility.





London Mayor's Transport Strategy - March 2018

Making streets work for people...will free up space for the essential freight and commercial journeys that keep London's businesses functioning.

Improving the efficiency of freight and commercial traffic, alongside reductions in car use, will help to keep London's streets operating well for the benefit of the city's businesses and the Londoners who rely on them. Without action now, freight traffic in the central London morning peak is expected to increase by up to 10 per cent in the next ten years.

Accordingly, the Mayor aims to reduce freight traffic in the central London morning peak by 10 per cent on current levels by 2026, and to reduce total London traffic by 10-15 per cent by 2041.

Source: MTS, Vision Chapter. P22

West End Partnership will, 'focus on creating 'traffic free areas at peak times and flexible use of space at less busy times, for loading servicing and deliveries.'

Source: WEP Freight & Servicing Strategy March 2018 - Elizabeth Line Readiness Report (2018)



Common Problems



There are currently no standardised kerbside maps that exist in the world



No centralised marketplace means dozens of apps for payments and parking data.



Confusing Street Signage and suspensions



London spends £100m on enforcement and some councils don't cover costs.



Old fashioned paper receipts are issued from P&D machines.

Connected cars will be stupid if the physical and digital infrastructure are not connected.

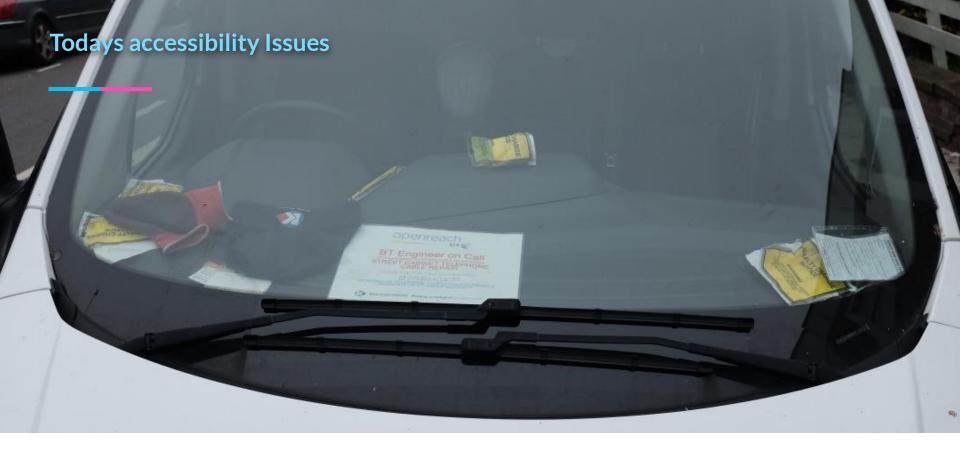
Who's accountable if a CAV gets a ticket?











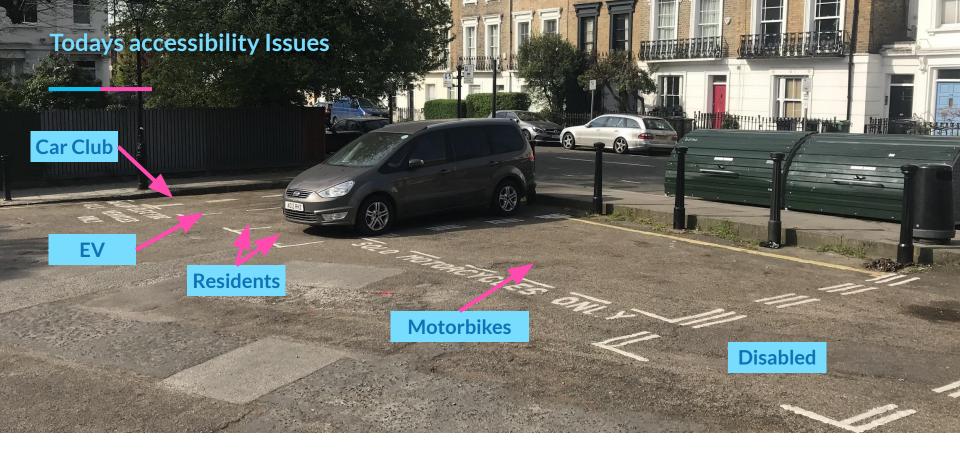








appyway









UK kerbside management cost

Digital transformation can streamline todays protracted and costly processes and make the kerb work 30x more effectively.

£63m
Annual spend by UK local authorities managing Traffic Regulation Orders

£700m

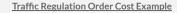
Annual spend by **418 UK** authorities

£100m
Annual spend by 33 Greater London

Boroughs on manpowered **enforcement**

Individually managing parking services





'Pain Chart' highlights today's protracted process required to change paint related to UK traffic regulation orders.

6 months

6 Public Servants

Local Newspaper Advertisement

Residents Comments

Average Cost = £5k per restriction change

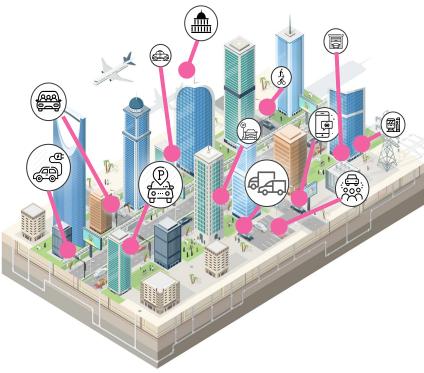




AppyWay created Mapper - the next generation TRO solution

Meeting today's TRO requirements





Facilitating future smart city services

Providing 'Air Traffic Control' for Kerbside Management





KERBSIDE MANAGEMENT PLATFORM FOR SMART CITIES

• End-to-end big data, analytics, IoT and multi-vendor payments.

DATA FOR INTELLIGENT MOBILITY APPLICATIONS

- The world's first standardised HD Kerbside map
- Connected car technology offering frictionless pay-as-you parking.





















GovTech & Private Sector Customers



KERBSIDE ACCESS FOR MaaS

Data and Payments - DaaS





















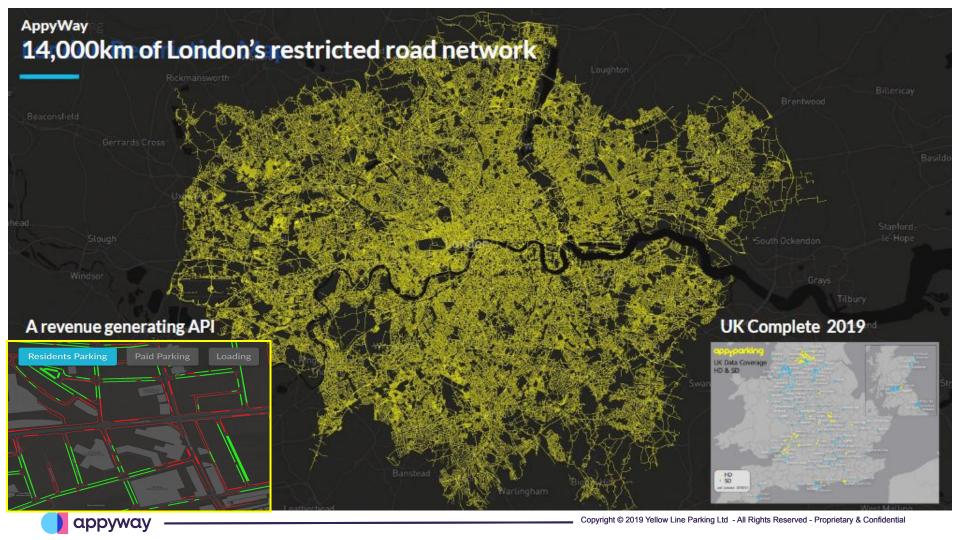






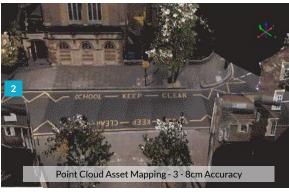




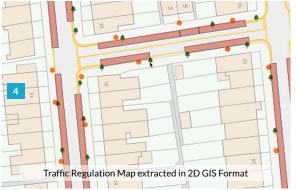


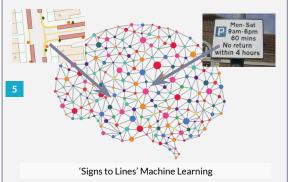
Patent Pending - HD Maps using 3cm accurate LiDAR & Ai













Asset Mapping - Marylebone High Street paid bay measurements



Benefits (Gov)

When you reduce congestion by 10%, GDP increases by 2% London would experience £6bn+ uplift



Driver Benefits



Government Benefits



No more overpayments



Increased parking utilisation



Increase parking revenues



No more parking fines



Revenue monitoring and optimisation



Reduced enforcement costs



Increased Productivity



Improve customer satisfaction and reduce frustration



Reduce congestion and pollution



Benefits (Fleet)

Happy drivers, with reduced operating costs



Driver Benefits



No more overpayments



No more parking fines



Increased Productivity



Fleet Operator Benefits



Increased parking utilisation



Revenue monitoring and optimisation



Improve customer satisfaction and reduce frustration



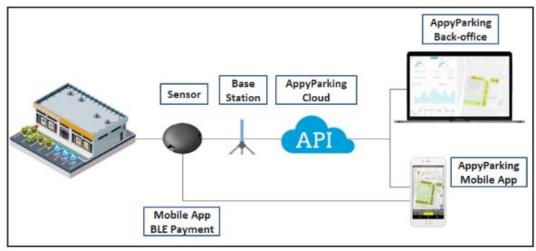
Reduce congestion and pollution



AppyWay sensors solution data capture, analytics & utilisation

- · Patent Pending, Bluetooth payment technology
- · Easy install surface mount
- Low Power Radio Technology
- One base station covers 3 miles urban radius
- 1000's of sensors connect one base station
- Duel Magnetic and Photonic detection
- · All data is fully secure and encrypted
- Configurable to either bay occupancy or car count
- 5-8 year battery life as bay occupancy
- · 2 years battery life as car count







'One Click Parking' - frictionless payments and digital permits

Seamless pay-as-you-go parking using on-street sensors equipped with bluetooth technology.

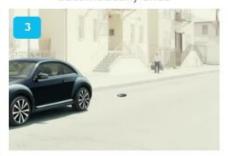
Drivers finds nearest available spot using real-time on-street sensors



Parking session begins with a single click



Car drivers away and session automatically ends



Driver only pays for the minutes of their stay



The world's largest deployment of intelligent sensors rolling out December 2018 - 14,000 sensors!













Logistics Hub & Corporate Estate Management

Current Analytics operation ARM, Cambridge deployed in 2018

ARM in Cambridge.

Real Time Management and Analytics portal supplied to ARM along with our sensors:



We are launching this in: Harrogate, Halifax, Portsmouth, Dundee, Heathrow and many more



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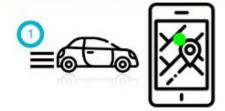
Integration to local mobility services such as Taxi and EV Part of total industrial park mobility management Incentivise car share uptake via premium parking

Bay management for Car clubs

7 day management of real estate, rentals

Delivering electric vehicle chargepoint management

Customer Journey - Real Time Availability, Combined Frictionless Payments and Enforcement Integration







Bay occupancy detected by sensor. Parking session prompts user to activate EVCP



One Click Parking - combined parking and charging session via parking bay sensor



Sensor occupancy data and chargepoint data are merged to report parking compliance

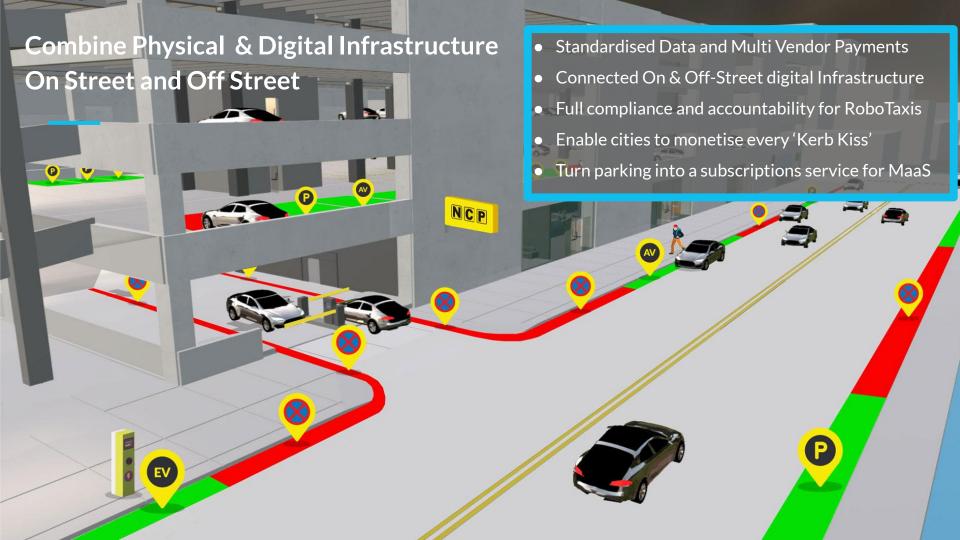


Option to receive notifications when vehicle is fully charged to encourage turnover of the bay



Session and payment end automatically after driving away. User billed once for parking duration and energy usage





Short, mid, long-term vision

Kerbside Management for B2G and operators

Provide Local Authorities with a powerful platform to digitise and manage their kerbside. This will create a digital infrastructure required for the future.



Kerbside Access for Intelligent Mobility

Local Authorities provide an authoritative source of data to CAV's allowing mobility operators to have fully compliant fleets at kerbside.



Air Traffic Control for Smart Cities to manage Robo Taxis







