

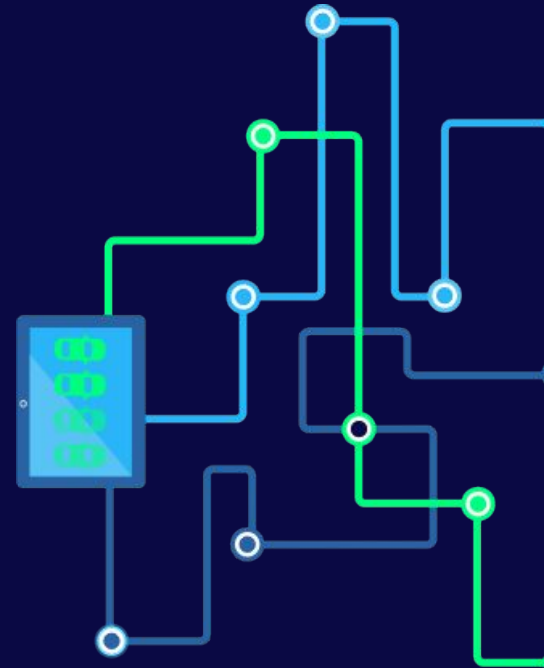
Parkopedia

“How can various services linked to parking lot information improve driver's UX”

2022.12.05

Tomohiko Ishibashi

Private and confidential





Who we are

- Global leader in digital parking services
- Founded in 2007 with the mission of being able to answer any parking question, anywhere in the world
- Powering parking services (search, reserve and pay) all over the world in millions of connected cars, online and on mobile
- Detailed parking and charging information including real-time and predictive parking space and charger availability
- The in-car payment platform supports parking, fuel, EV and tolling payments

Tomohiko Ishibashi: Commercial Director Japan



- Extensive experience in the mapping and automotive industries
- Worked in Silicon Valley within the technology industry
- Expanding Parkopedia reach in Japan

Parkopedia is a company that enables superior in-car user experience.

- Parking is a pain. Parking is complicated and stressful for drivers. We maintain high quality data and turn it into valuable information for drivers. (I will also introduce some examples.)**
- Parking is part of driving. We help you bring information and services onboard. We have many customers all over the world and we have a lot of experience in navigation and mapping.**
- We are a future-proof provider. EV charging is the next challenge for drivers and is directly linked to parking operations. EV charging is not possible without parking.**

Please watch the introductory video of Parkopedia.



<https://www.youtube.com/watch?v=EYCBrtiskbY>

Full Suite of Cloud Parking Services

Our unique and comprehensive range of cloud-based parking and charging data and services helps you provide a differentiated offering to your drivers

STATIC DATA

Comprehensive parking/EV information, including location, pricing and restrictions

DYNAMIC DATA

Current and predictive parking/EV availability delivered to drivers in real-time

TRANSACTIONS

Online, single-sign-on payments and reservation integration

INDOOR MAPPING

3D, high-definition mapping of large indoor facilities, enabling cars to navigate without GPS

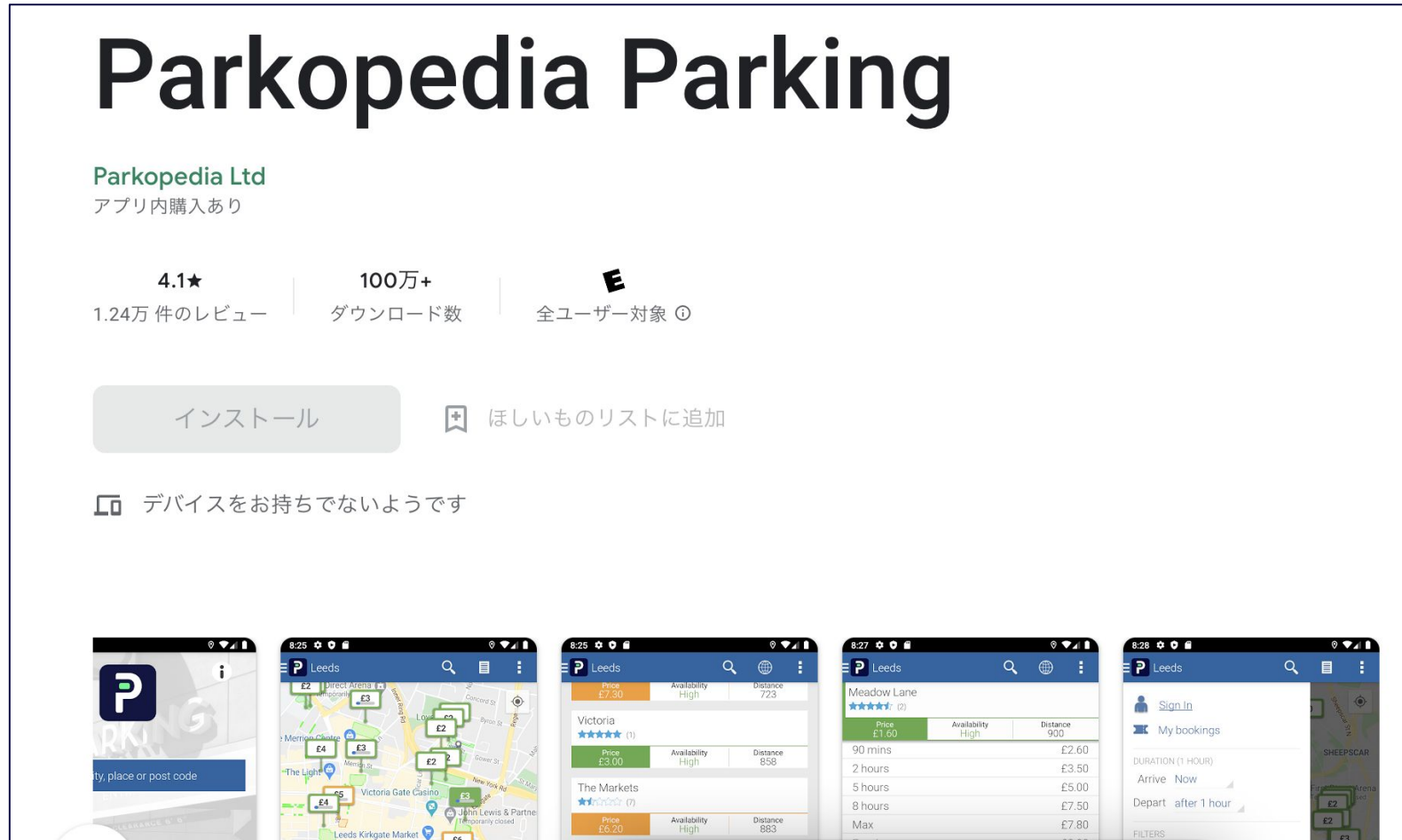
**Powering Connected
Cars today**



**Enabling Automated parking
and charging tomorrow**

Parkopedia mobile app has a ratings of 4.1

Please download Parkopedia Parking app at Android / iOS app store for your parking location search. This app works worldwide.



By signing NDA, we can provide our sample API

When you call our API, we return our parking location data by realtime.

The interface displays filters for parking data. Under "Display Type", there are buttons for "On Street", "Off Street", and "Dynamic Only". Under "Transaction type", there are buttons for "Access & Pay", "On Demand", and "Reservation", along with a "Reset filters" button. A search bar with a "Search" button is also present. Below the filters is a map showing parking locations marked with red dots in the Kanagawa area. A detailed view of a specific parking spot is shown on the right, titled "リパーク神奈川2丁目第4 (2905148)". It includes tabs for "Overview" and "Full Data". The "Overview" tab shows the address "神奈川県神奈川2-1-12, 221-0045 - 横浜市 (JP)", a capacity of 7, and a payment section.

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  "coordinates": [
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    35.472637
  ]
},
{
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  "dynamic": {
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    ]
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      "country": "JP",
      "postcode": "221-0045",
      "area": "神奈川県"
    }
  }
}
```




Solving parking problems

Common problem: Cash Payments at Payment Machines

Credit cards could be used for lunch at commercial facilities.

However, since the advance payment machine did not support credit cards, I had to go back to my car to go get my cash.



Displaying payment methods is useful for drivers.

トツカーナ駐車場 立体 - 602スペース	スキップ関内第1パーキ... 屋根付きなし - 13スペース
現地払い  現金	支払い方法 精算機  現金
特性 🚗↑ 高さ制限: 2.10 メートル	特性 🚗↑ 高さ制限なし
情報 2,000円(税込)以上のお買い上げにつき1時間無料となります。クレジットカード使用不可です。	情報 連続3日以内の駐車に限ります。クレジットカード使用不可。

Our data team enters the info that credit cards are not accepted at the locations. You can know in advance that drivers need cash at this parking lot.

Drivers can make good choices.

Common problem: Difficult to find parking (especially visiting a new location)

I think that there are many people who look for parking lots without using the parking lot search function because there are few places where the current navigation system displays RT availability information.



Parkopedia provides unique parking lot predictions



13

Congestion prediction is expressed with a gauge. Parkopedia provides congestion forecasts in three stages according to arrival time.

parkopedia



Business results of Parkopedia

Our business customers

We support millions of connected cars from major global companies.

We offer a cloud-based parking service.

Tier 1 suppliers

TOMTOM   **BOSCH**

HARMAN
A SAMSUNG COMPANY  **cerence**™

Tencent 腾讯  **SoundHound**

 **高德**
AutoNavi  **here**

Auto manufacturers /OEMs



Mapping & navigation providers

Apple **GARMIN**™

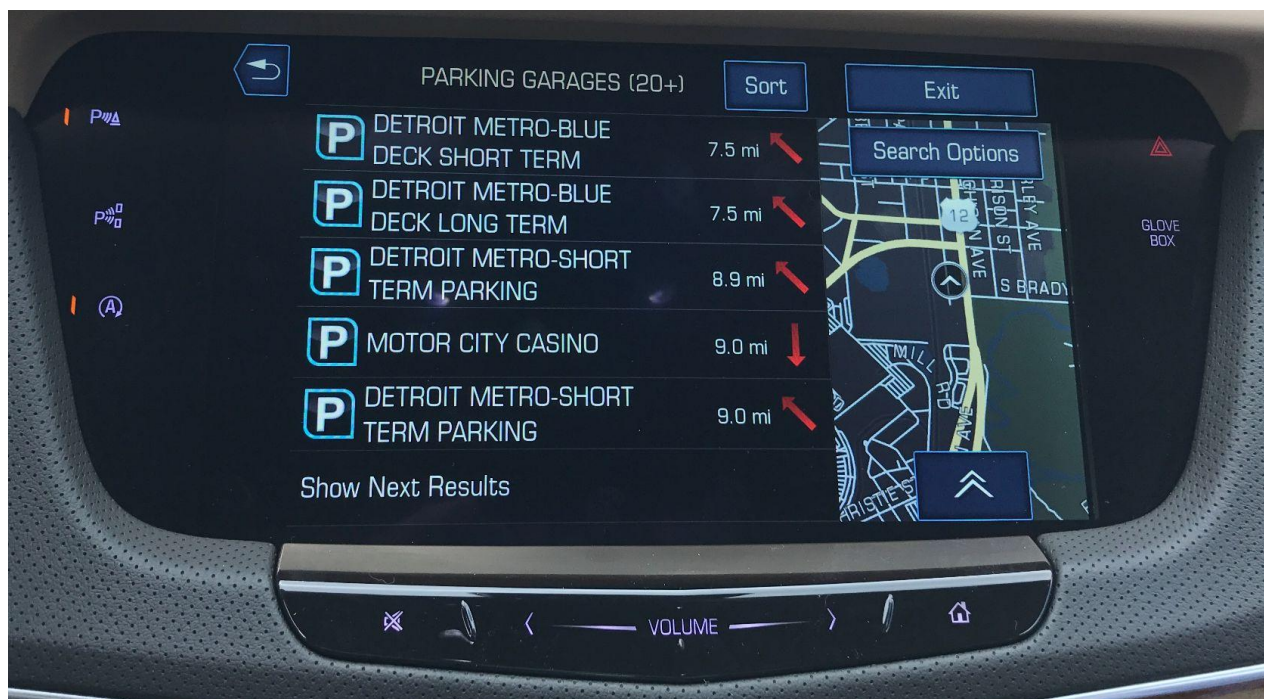
NNG  **Sygic**

TELENAV®

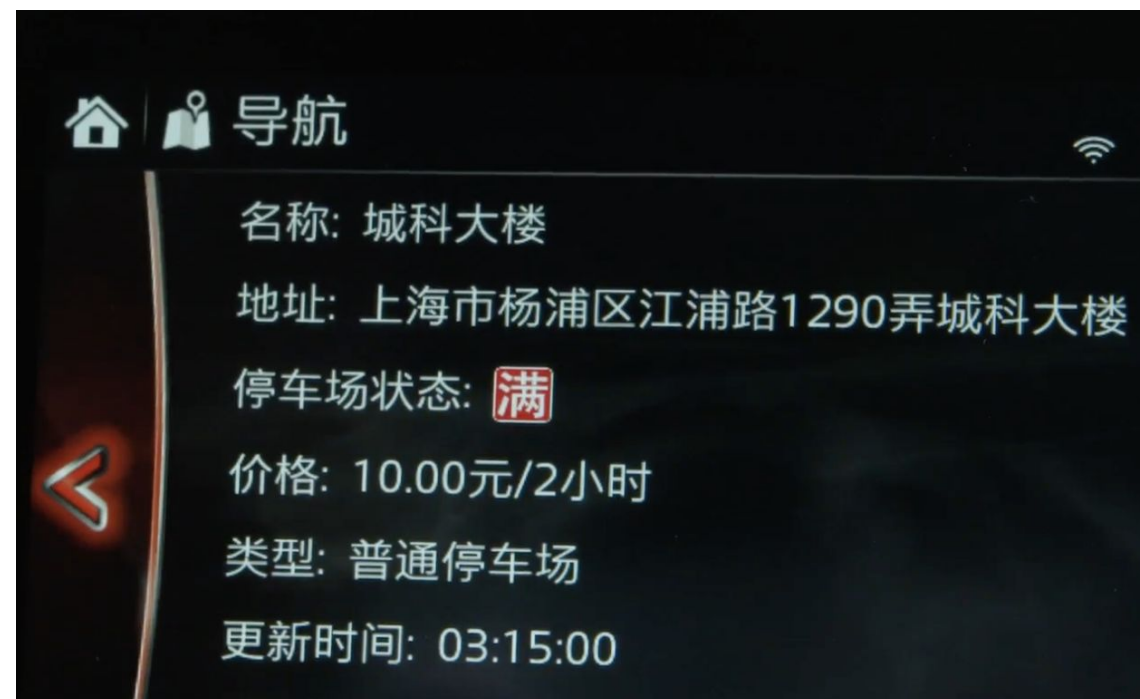
Parkopedia

Our data is also active in the United States and China.

GM



Mazda China

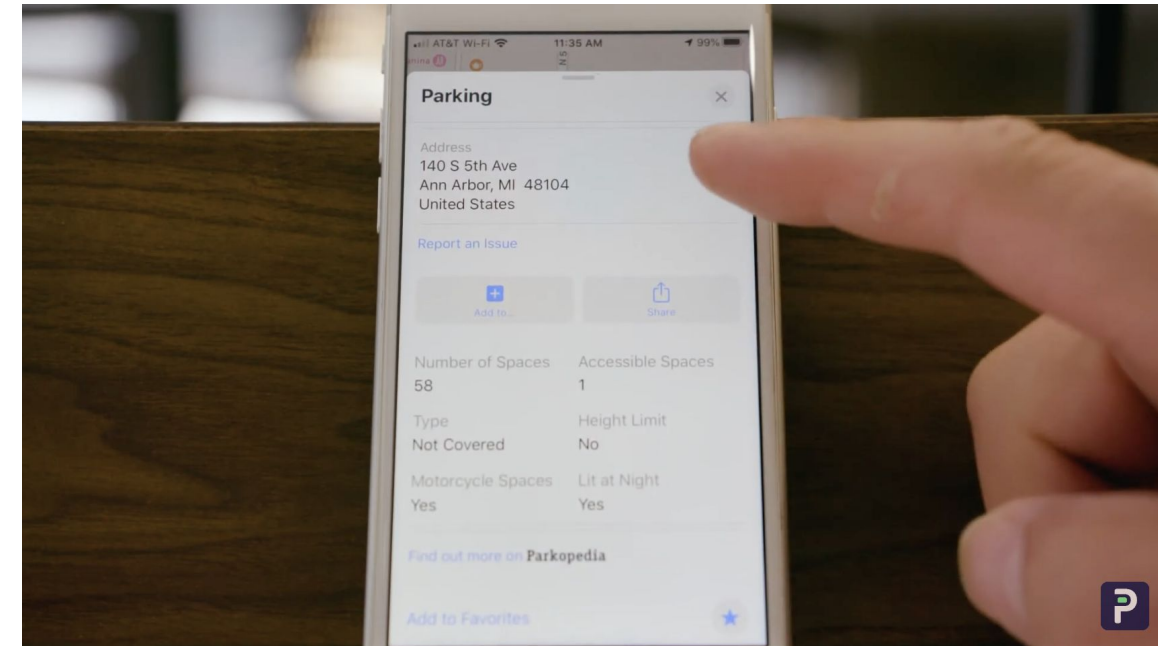


Our data is also active in the United States and China.

Audi



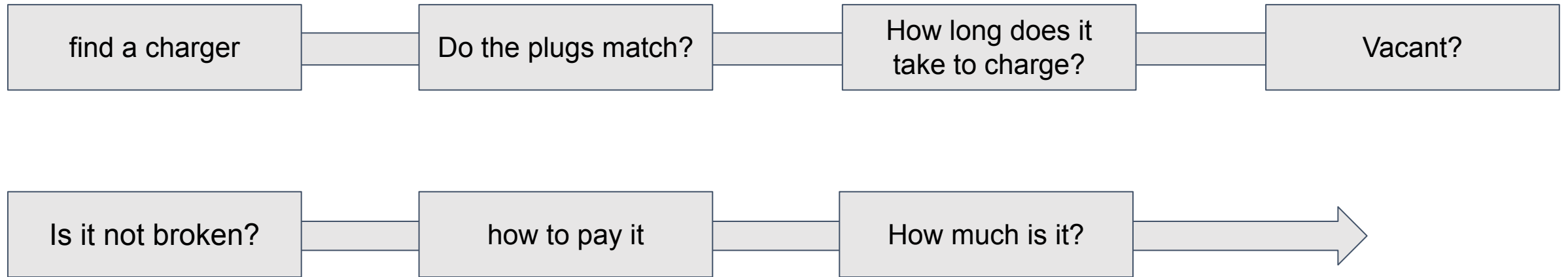
Apple Maps





EV charging is the next challenge.

In Europe and the United States, public EV charging is often not working.



Public charging points have a myriad of hidden restrictions on usage, including parking. It often leads to poor user experience.



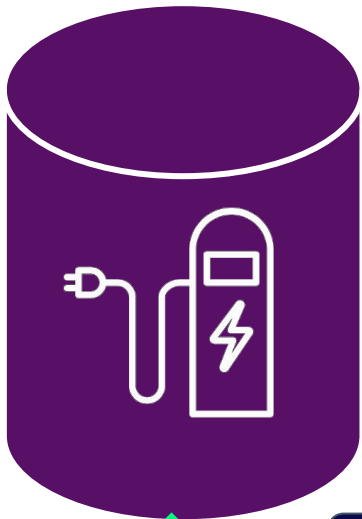
Case: EV driver fined for extended use of parking lot

A driver in the UK who stopped in a McDonald's car park for 100 minutes to recharge has been fined for exceeding the 90 minute maximum stay. Drivers complain about inconsistent parking times, and the prescribed parking time is often not enough to recharge.



Charging is not possible without a parking lot. Introducing Park & Charge API

High Quality
Static & Dynamic
EV POI data



High Quality
Static & Dynamic
Parking data

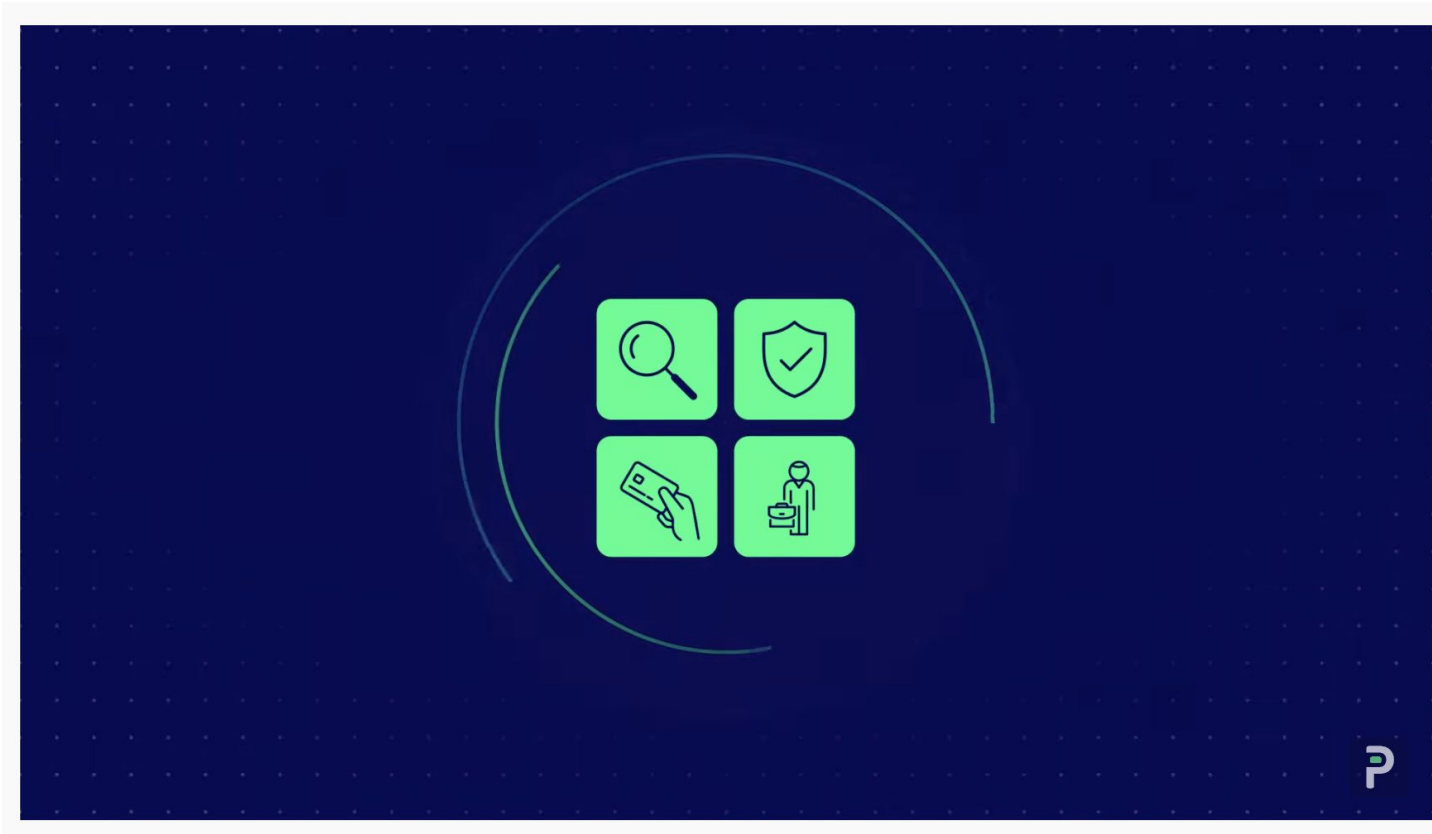


Location ID
Matching

Combined
EV charging and parking data

Parkopedia independently collects EV and parking data,
We provide relevant information such as pricing,
charging availability information, EV chargers and
parking restrictions.

Please watch the Parkopedia Park & Charge video.



<https://www.youtube.com/watch?v=vDms4Jk5xC4>

What you can do with Parkopedia Park & Charge API

By displaying detailed information on parking fees and EV charging fees, Drivers can get detailed information about charging spots.

ノクティ 駐車場

立体 - 518スペース

- 🦿 身障者用駐車スペース
- 🚗 高さ制限: 2.10 メートル
- 🔌 電気自動車の充電

情報

普通充電器2台は立体駐車場3Fにあります。充電料金は1時間120円。3時間まで利用可。

[駐車サービス]

2,000円以上(税込)・・・1時間無料
5,000円以上(税込)・・・2時間無料
7,000円以上(税込)・・・3時間無料

There is a parking discount for shopping of 2,000 yen. 2 hours of AC charging will restore 10% battery, so let's go to the nearest NOCTY parking lot today.



食品館あおば六角橋店 ...

立体 - 172スペース

特性

- 🦿 身障者用駐車スペース
- 🚗 高さ制限: 2.10 メートル
- 🔌 電気自動車の充電

情報

急速充電は2F入口にあります。ビジターの充電料金は1,500円税抜です。店舗利用1,500円で駐車料金1時間無料となります。

What you can do with Parkopedia Park & Charge API

By selecting the parking lot type as multi-storey and underground, and searching for the location with EV charger, drivers can easily find parking lots with EV charging indoors.

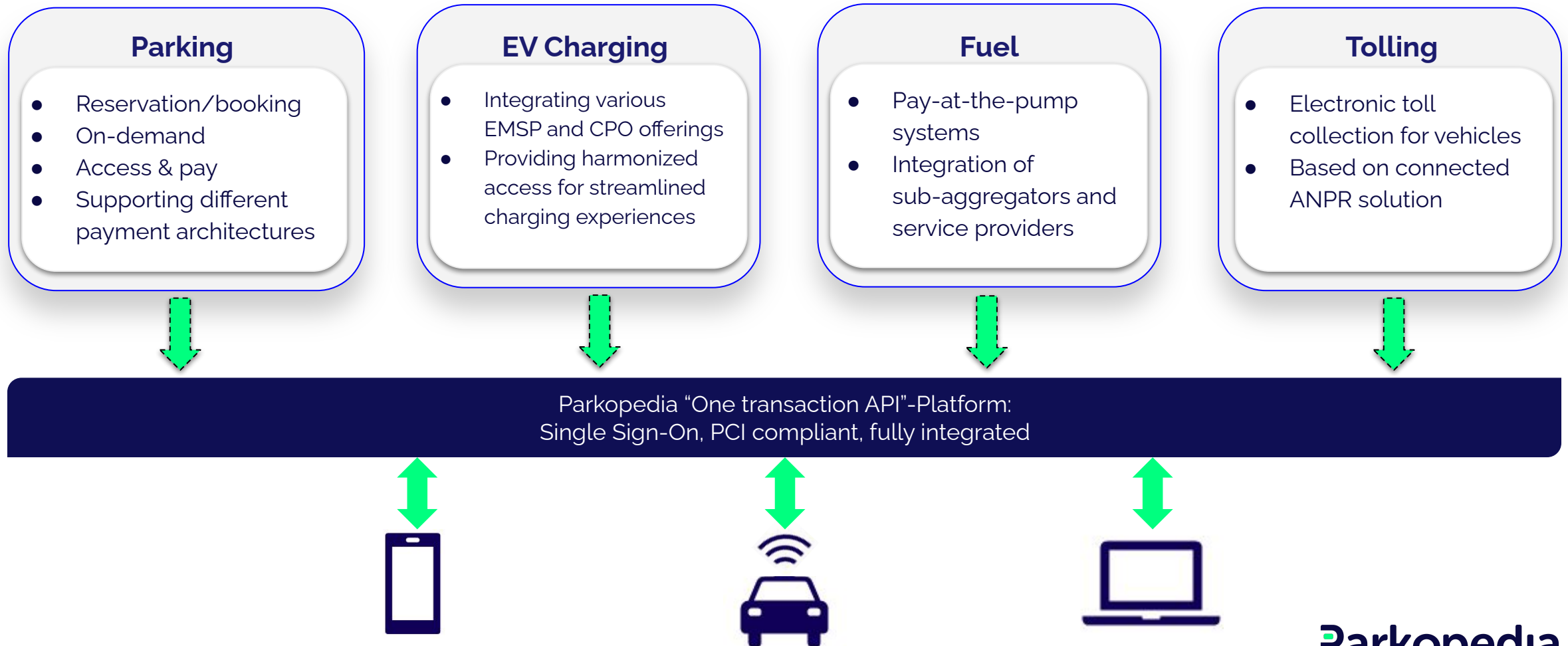




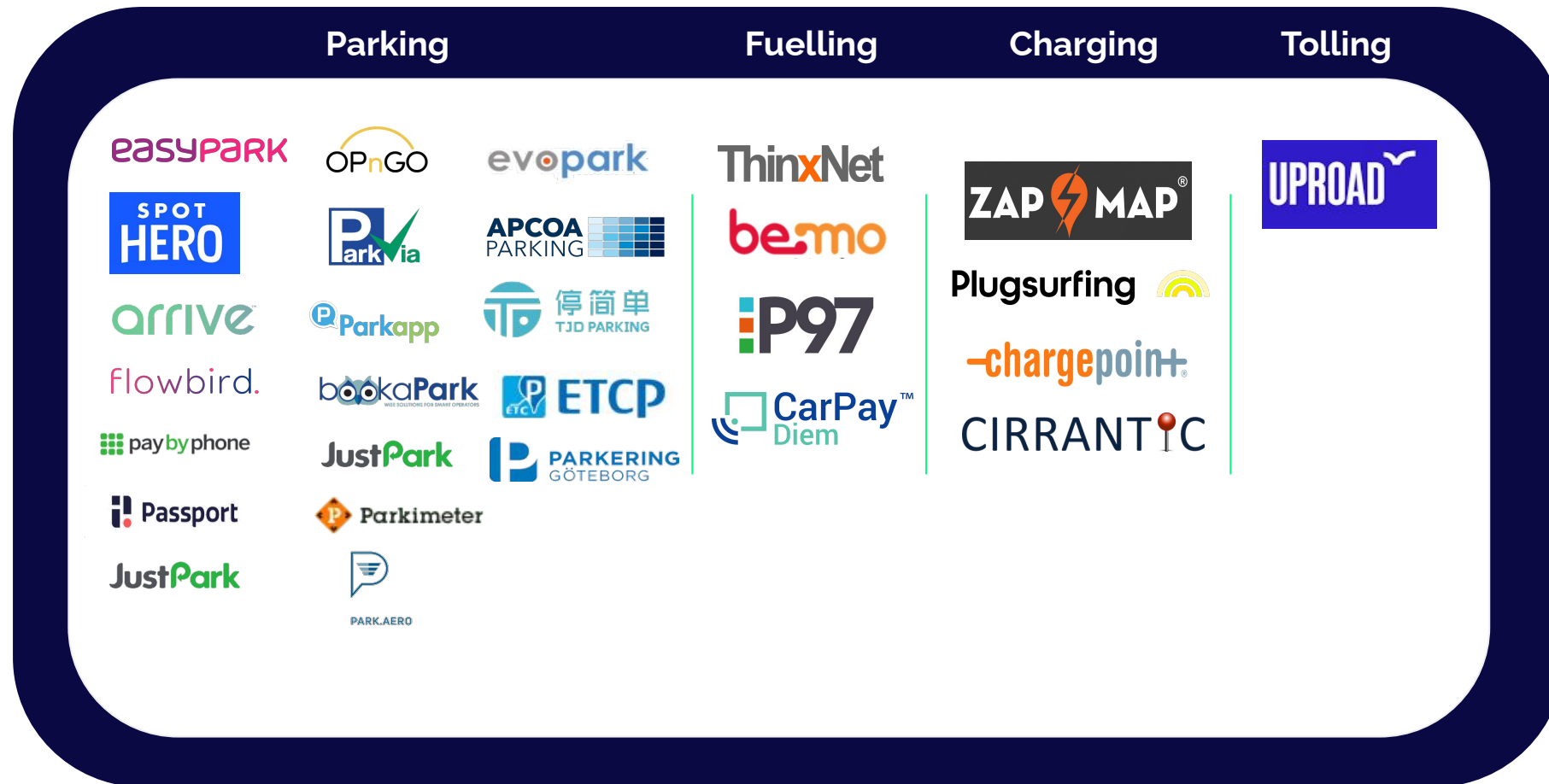
Parkopedia in-car payment Transaction API

Parkopedia

Our Vehicle-centric approach for in-car payment



In-car payment app partners



We manage full payment flows for the OEM

Seamless payment processing

- Parkopedia payment orchestration platform aggregates various merchants/service providers - by integrating their preferred and existing Payment Service Providers (PSPs), Payment Gateways and/or Acquirers.
- Parkopedia internally routes & manages the payment flow to the corresponding merchant accounts.
- Minimal assistance is required from merchants, only access to their PSP/Acquirer through a new merchant account for in-car customers.

Please watch the on-demand payment video.



YouTube: <https://www.youtube.com/watch?v=0CFI4FxkhEM>

Summary:

Parkopedia is a company that enables superior in-car user experience.

- **Drivers need complete and accurate information to make good parking decisions.**
- **Parking information has the highest value when deeply integrated with the navigation experience.**
- **No parking, no charging - Utilizing good parking information for EV charging becomes even more important from now on.**

**Thank you,
Tomohiko Ishibashi**

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