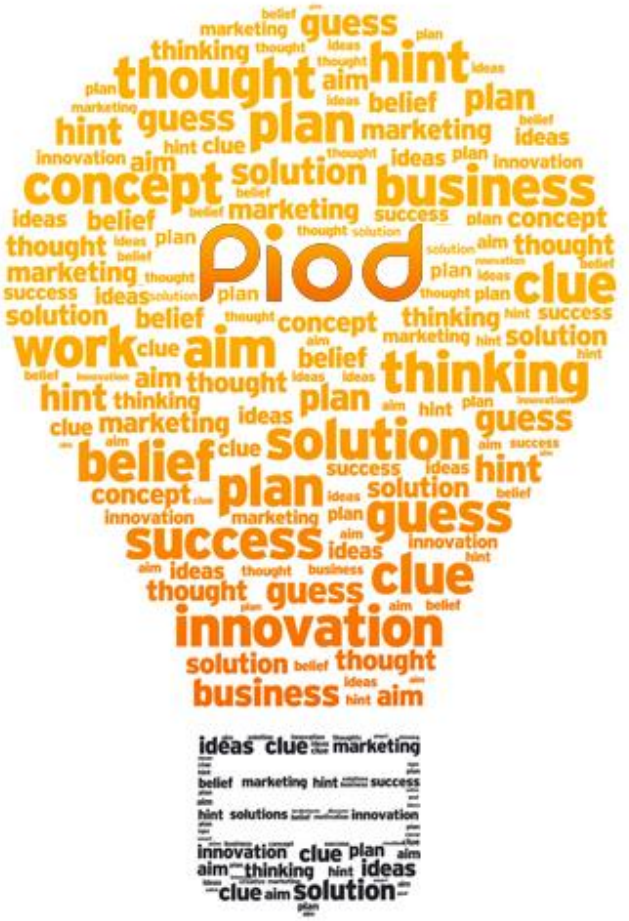
Piod Solution

A blockchain-based approach to designing a scalable automotive data ecosystem

What is the main idea ?

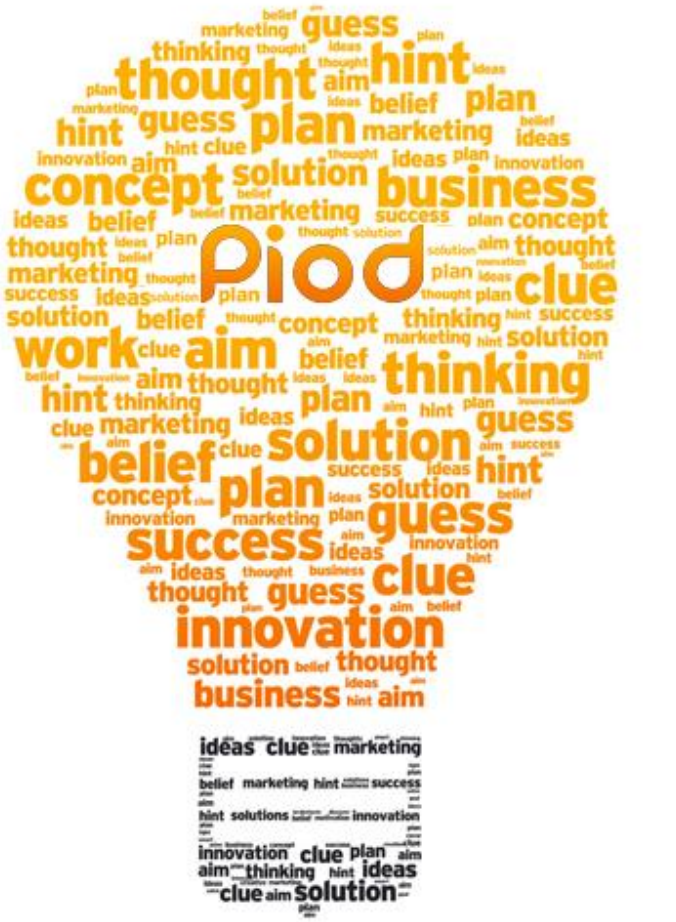
- **Piod** as an experienced company in the automotive industry provides a solution to manage vehicle data value chain. The **Piod** solution provides an open platform where anyone is able to participate in sharing car data or processing it into more valuable output.

- Built on blockchain technology and designed with end-to-end security principles in mind, the Piod solution is operationally stable, while guaranteeing data security, as well as protecting the rights and personal data of market participants.



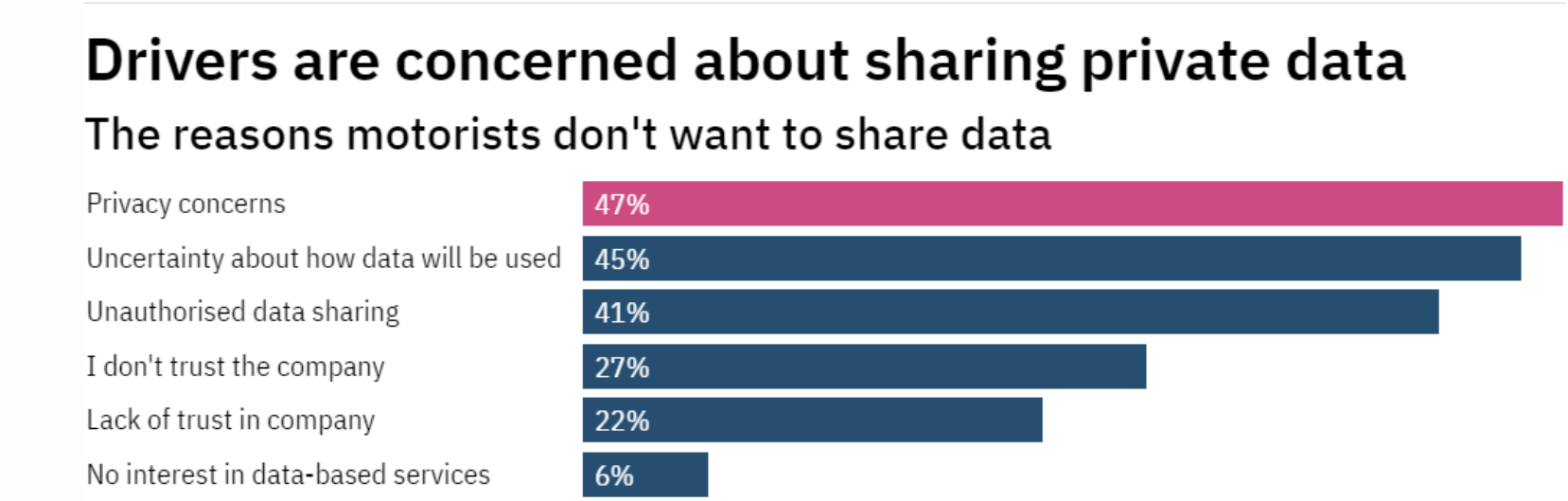
- The core feature of the **Piod** solution is the provision of clean and searchable automotive data, with an ecosystemic prospective which allows and motivate all automobile ecosystem players to take their desire role in the platform.

- Drivers, car manufacturers, service providers, ad. companies and all other participants in the automobile industry will be able to provide or use car data and receive appropriate compensation or services for their contribution according to market value.



The Problem

- The most significant challenge for car data owners is the possibility of disclosure and violation of the privacy
- The second major challenge being the lack of transparency of car owners' share of the revenue from their data.
- car data owners are concerned about their data being shared without their permission and thus violating their data privacy.
- they want the data market to be transparent, and their share of revenue to be paid from the data sale.
  - Unsystematic collection of data
  - Inefficient and uncompensated data provision
  - Insufficient data security and privacy protection
  - Lack of ecosystemic prospective

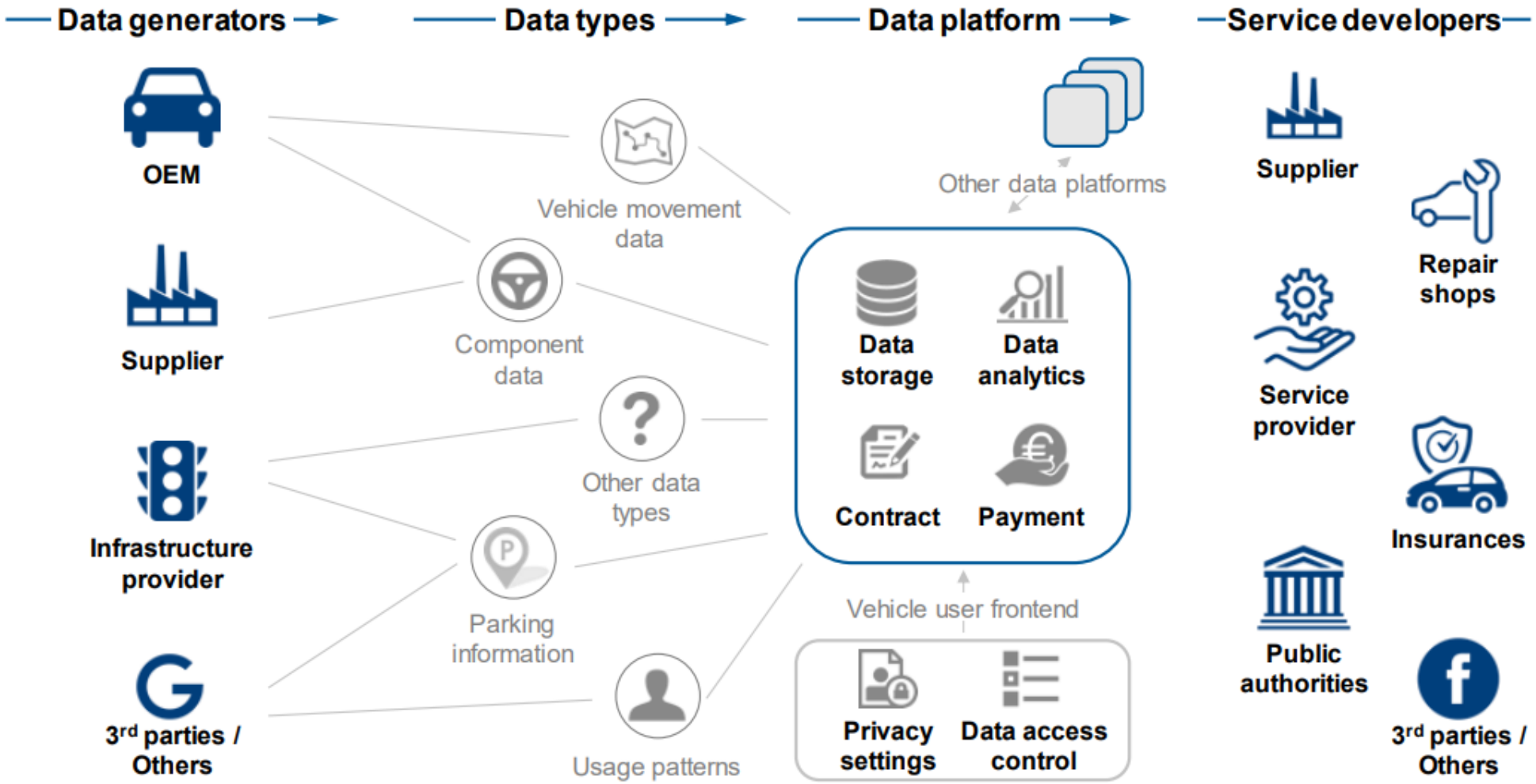


The Solution

- The Piod solution utilizes blockchain technology to improve the current automobile ecosystem that consists of numerous stakeholders.
- In the Piod solution, the generated data is stored by a third entity called a *data hub*. Data hubs are actually intermediaries between automotive data generators and data consumers, which will offer incentives in order to attract more users (more data) and to respond to more requests from automotive data buyers.
- These incentives can be a share of the revenue from data sales or the possibility of free or discounted use of some car applications.

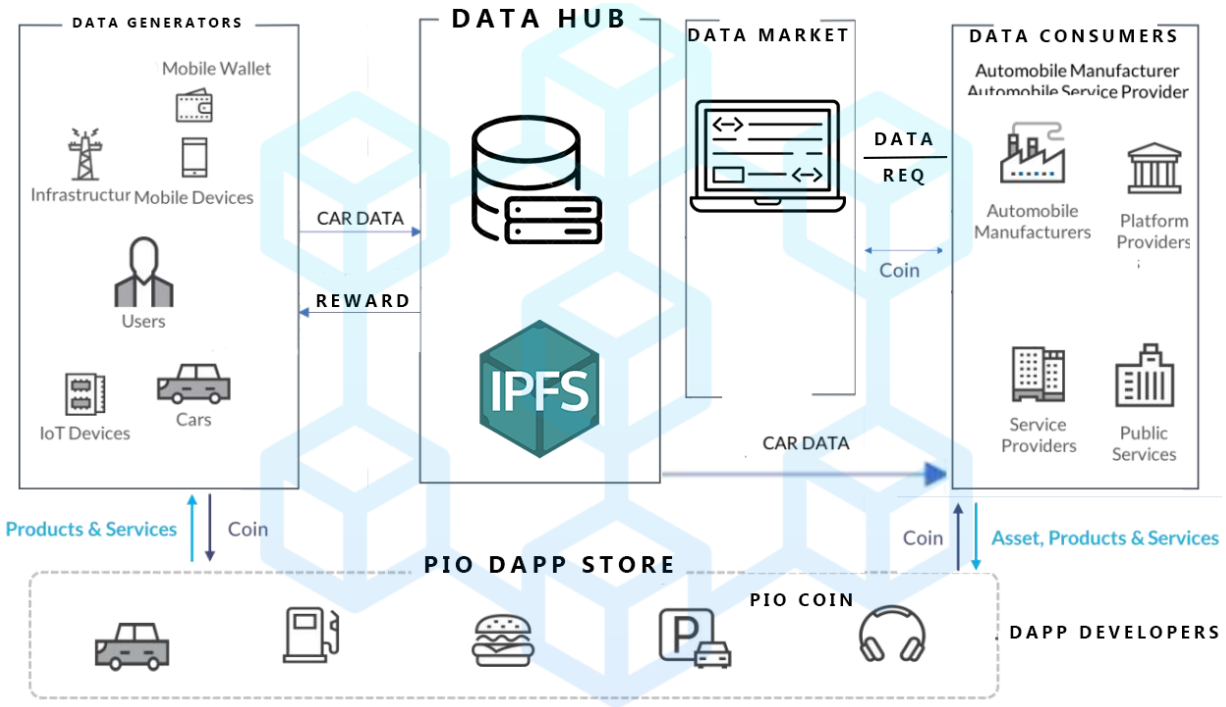
- To address the shortcomings mentioned, a blockchain-based approach is proposed for designing an efficient, scalable, and incentive automotive data ecosystem.
- The blockchain technology as a shared, immutable ledger, has shown the ability to facilitate the process of recording valuable data, and tracking either tangible or intangible assets such as cars, cash, and intellectual property in a business network. Hence, adopting the new technology (i.e. blockchain) can facilitate and speed up the development of complicated ecosystems such as connected cars, autonomous vehicles, and shared mobility.
- This approach provides incentives for the market participants to supply, store and manage car data, develop applications, and roll out a blockchain network. Moreover, active market participation and data generation incentivized by the proposed model, are expected to encourage even countries without active automobile manufacturing to establish and grow their automobile-related businesses.
- Our approach provides a comprehensive, practical solution for automated car data for the benefit of both the supply and demand sides.

The Solution

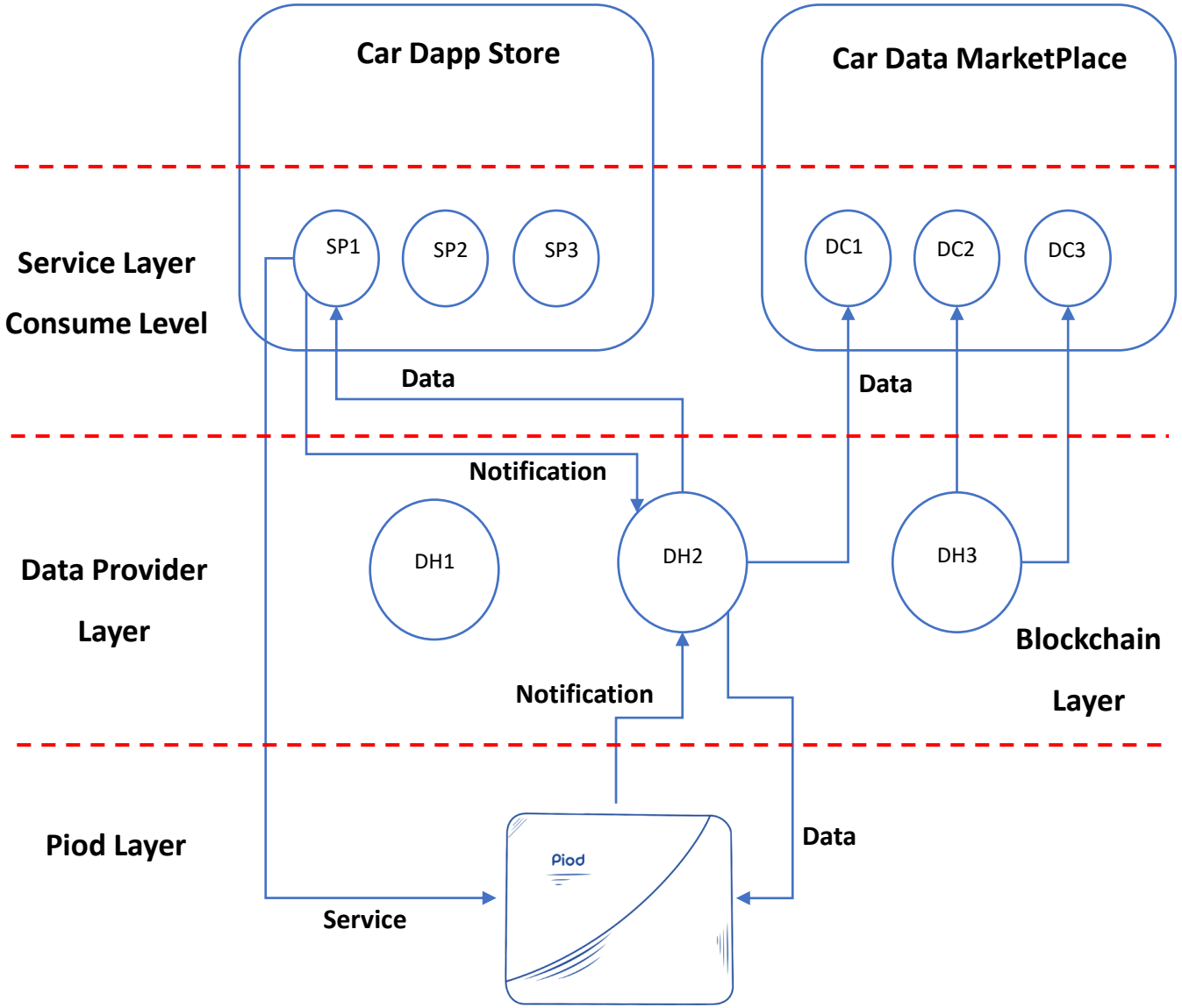


Piod solution in detail

The Piod solution provides an open platform where anyone is able to participate in sharing car data or processing it into more valuable output. Built on blockchain technology and designed with end-to-end security principles in mind, Piod solution is operationally stable while guaranteeing data security, as well as protecting the rights and personal data of market participants.



Piod solution architecture



Piod

Co. role in the car data ecosystem architecture

The company has developed the following components:

- Piod Data Generator
- Piod application for data owners
- Piod Automotive data market
- Piod App Store
- Piod Data hub
- Piod token
- Smart contracts required
- APIs required to connect developers to the Pio platform

Piod

Co. role in the car data ecosystem architecture

Piod data generator

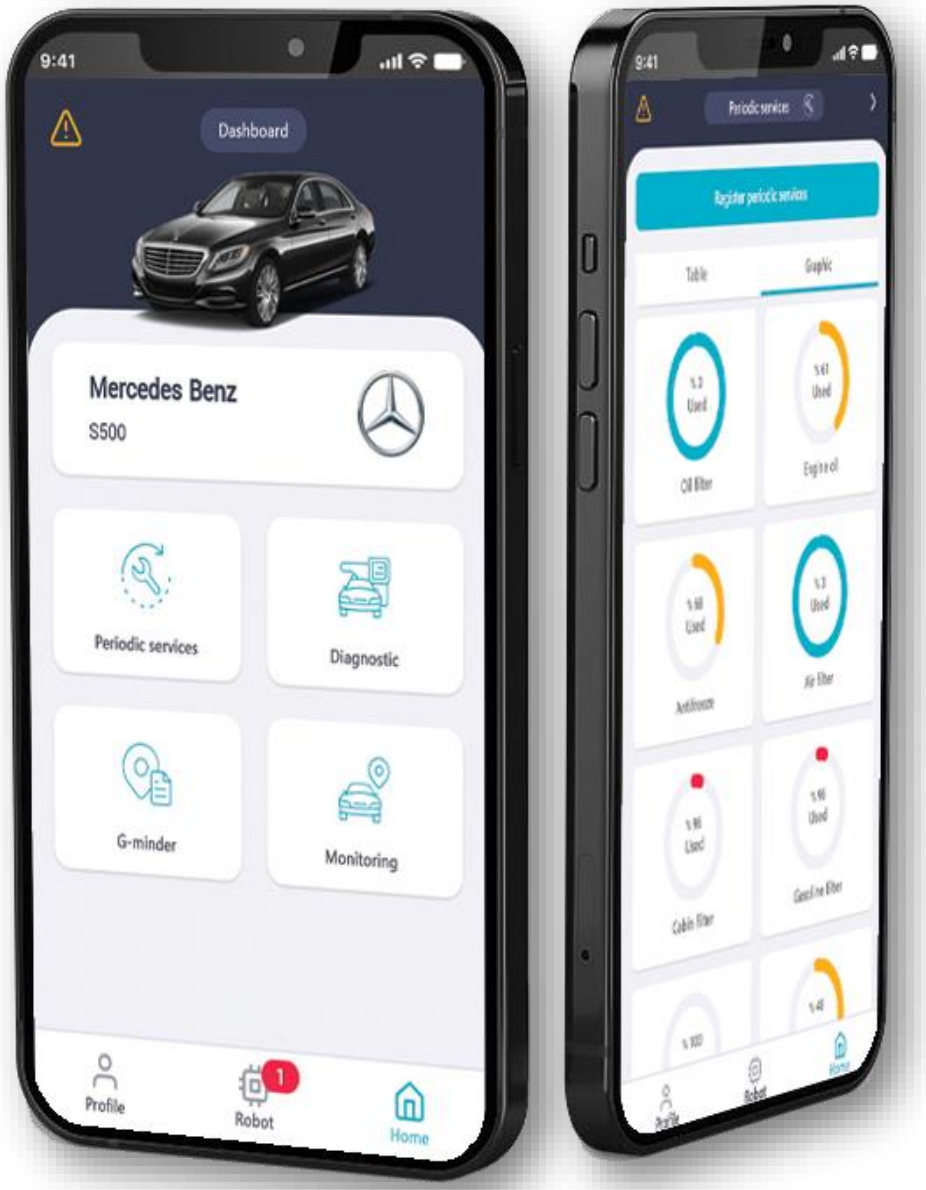
The Piod data generator connects to the car's OBD II port, monitors the vehicle sensors instantly and online, and by analyzing various information from the ECU and sensors inside the Piod device before the breakdown, detects the car defects and inform users to fix the problem before it damages other part of the vehicle. It should be noted that Piod device is compatible with all cars on the market and has successfully passed its test phases.

Piod

Co. role in the car data ecosystem architecture

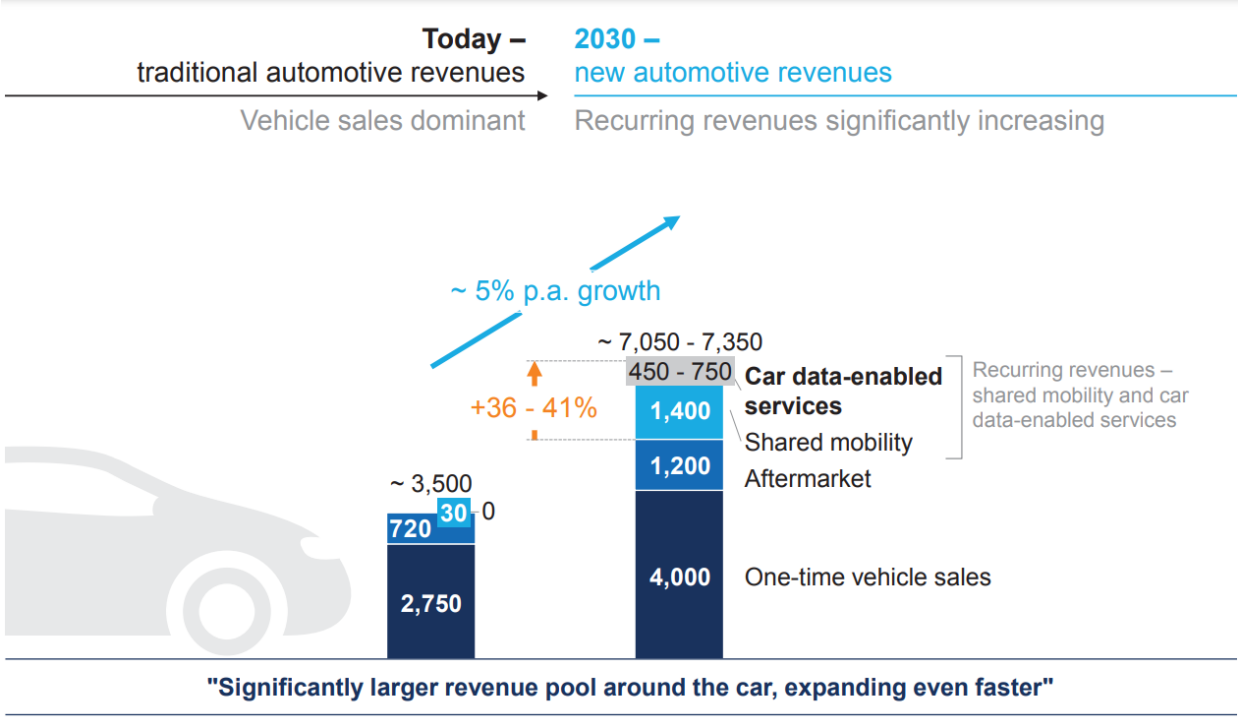
Piod application for data owners

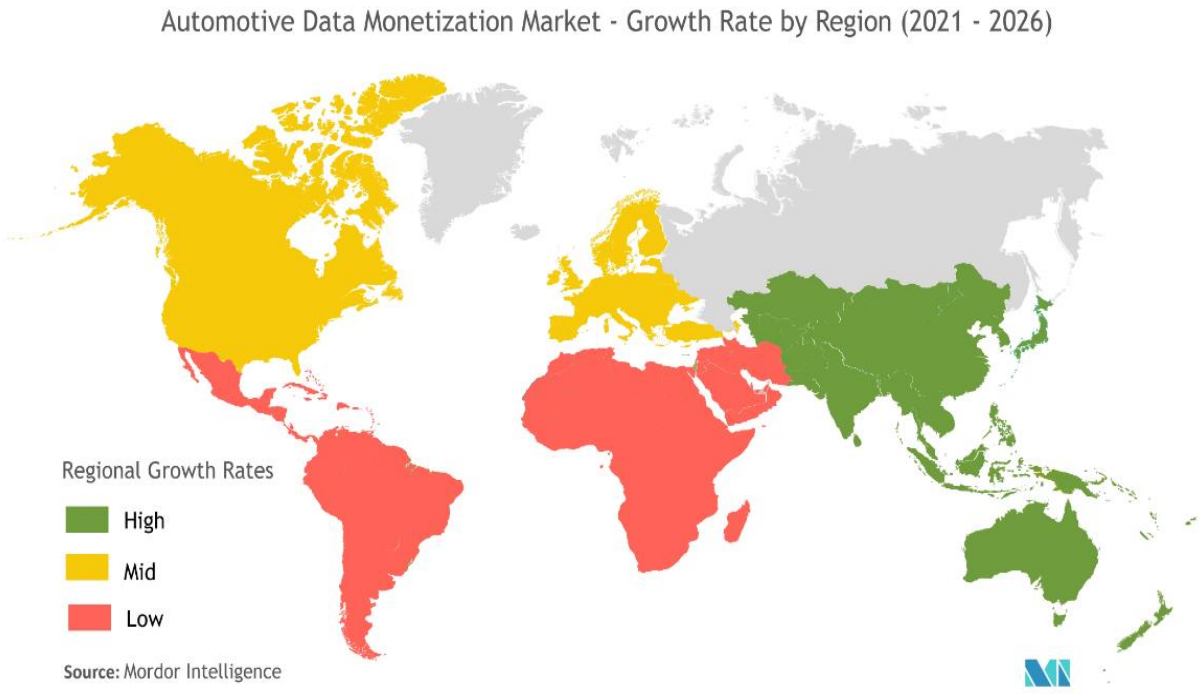
If drivers install the Piod data generator in their vehicle and are connected to the Piod data hub, they can use the following services. Other app developers can also develop apps for the car data owners.



Market

The big data market in the automotive industry was valued at USD 3,607.47 million in 2020, and it is expected to reach USD 8,929.37 million by 2026, registering a CAGR of 16.81% during the period of 2021-2026 and global revenue pool from car data monetization could be as high as $750 billion by 2030.





The Car data market is just at the beginning

Across industries data businesses scale successfully

18 proven success cases profiled...

skywise.	CAT CONNECT	TEMPUS
80+ participating airlines	700k connected machines	$3b valuation
Clover	flatiron	TALA
35% membership growth	$2b acquisition by Roche	4m customers
QANTAS INSURANCE	amazon lending	
213% new enquiries	20k recipient sellers	...

...revealing 5 key success factors

- Innovative culture
- Decision autonomy
- Data leadership
- Bundling with core assets
- Existing customer base

The Car Data market is just at the beginning

- Today, despite the stated privacy concerns, 71% of surveyed drivers consciously share their data in exchange for tangible benefits.
- Data connectivity will generate a vast set of benefits that customers will likely want to pursue, leveraging their personal data as “currency.” The value represented by this “currency” is already significant and expected to grow rapidly over the years to come.
- Customer attitude towards privacy and data sharing suggests that the car data “revolution” may be led by China (where > 90% of customers are willing to share their data with auto OEMs) and by younger car buyers globally, as a large share would switch their current OEM for improved connectivity features and > 60% is interested in owning autonomous vehicles.
- Car data monetization opportunities will grow incrementally for industry players along the mobility value chain, as car data is likely to generate value through increased revenues, reduced mobility cost, and increased safety and security.
- Autonomous driving has the potential to create a step change in the value of car data, since up to 50 minutes of the user’s traveling time per day become available for other activities (e.g., working, sleeping, online shopping).
- The new business models have the potential to transform transportation into a service, as mobility might even be offered for free to end-customers in selected environments.

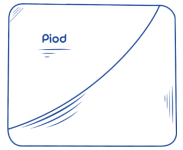
Key Partners & Players

Recent Developments

- April 2021 - Ford Motor Company introduced its "Power-Up" over-the-air update capability to make remote improvements to its trucks and cars, with a goal of rolling out 33 million vehicles by the end of 2028. The new system would collect data on millions of commercial and consumer customers, allowing automakers to generate cash.

- December 2020 - A multi-year deal was announced between Amazon Web Services, Inc. (AWS) and BlackBerry Limited to develop and sell IVY, BlackBerry's intelligent vehicle data platform. Ivy enables automakers to collect automobile sensor data uniformly andsecurelye, normalize it, and generate actionable insights as needed. The data can also be utilized to improve the experience of passengers and drivers.

Product Features



Applying Data Security and Privacy Protection to the Blockchain

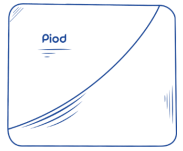
The car data which users have agreed to share will be stored on the data hub infrastructures (IPFS), and its proof on the Blockchain, along with other relevant information about the transaction, data ownership rights, and data usage rights.

- Every byte of data about a vehicle and the driver operating that vehicle are subject to full transparency and consent.
- The driver is consistently informed of what automotive data is being collected, how it will be used, how long it will be stored
- The Piod architecture is designed in a way that is flexible toward any jurisdictions, laws and regulation.
- In Piod, secure data exchanges is ensured to any data monetization effort. Part of this involves monitoring and tracking where data is being sent, where it originates, and whether encryption is used consistently to secure data while in transit.

Online, continuous and standardized collection of automotive data

At the first steps, Piod company has designed all needed software and hardware, while also other manufacturers and developers can develop their Piod-compatible products in order to join the Piod automotive data ecosystem.

Product Features



Compensation System for Data Provision

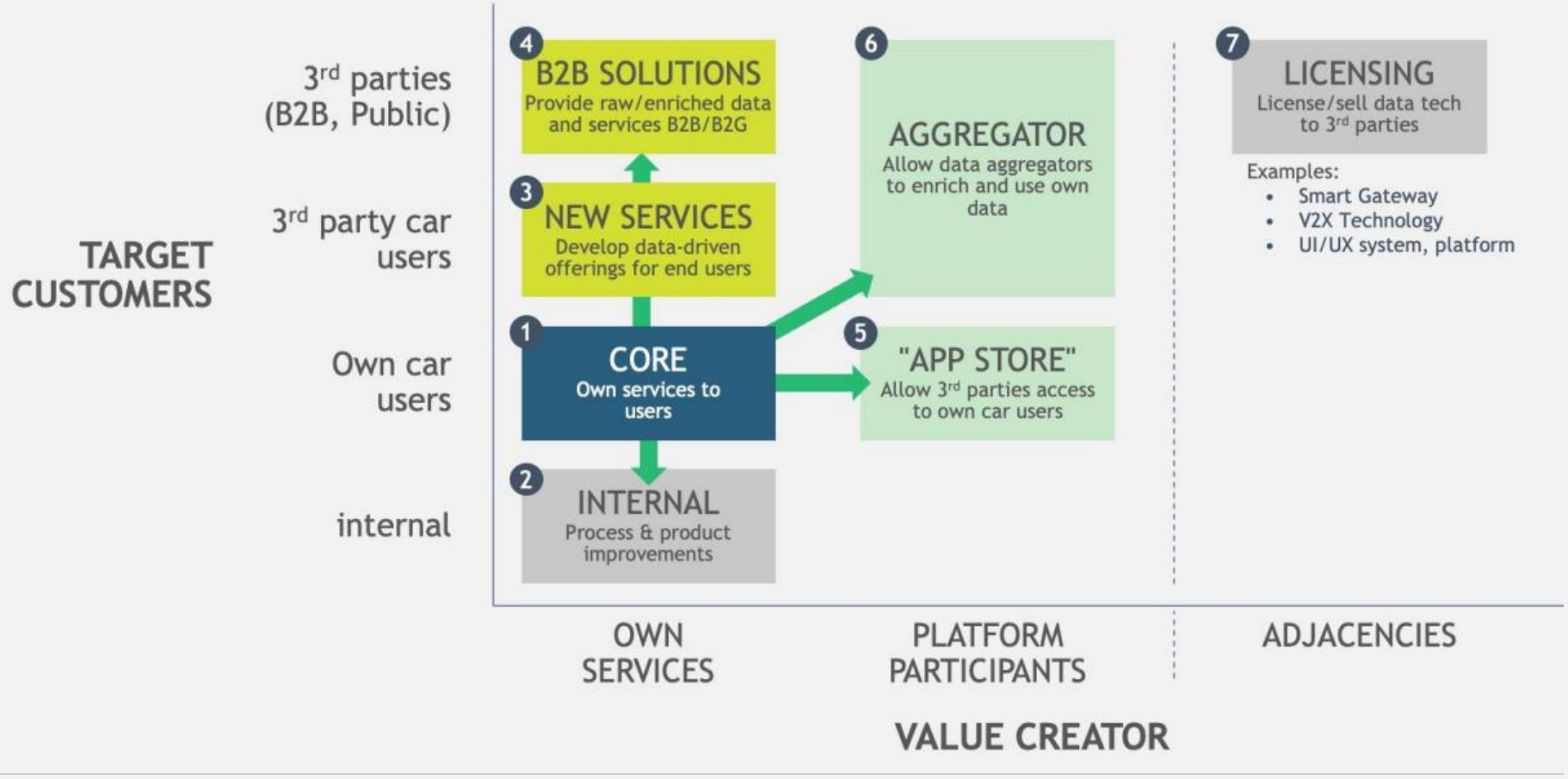
This compensation model provides incentive for market participants to supply car data, store and manage data, develop applications, and roll out blockchain network.

DAO as Pio Platform Governance Model

To avoid Piod monopoly in the governance and decision-making process for the automotive data solution, the decision-making process will be left to a DAO. In this DAO, eligible members can vote for the future of the system and participate in its governance process.

Product Features

Seven business models for data monetization



Product Core Features

➢ The core feature of the Piod solution is:

- clean automotive data providing
- searchable data
- ecosystemic prospective which allows participation of all members
- voluntary provision and
- appropriate compensation for car data.

Piod Token

The Piod coin is a BSV-based token used as a payment token, the main utilities of which are as follows:

- To purchase DApps from the Dapp Store
- As compensation to incentivize data generators to share their data
- To buy data set from data hubs
- For airdrop and marketing campaigns
- In DAO as a voting power metric
- As a staking mechanism

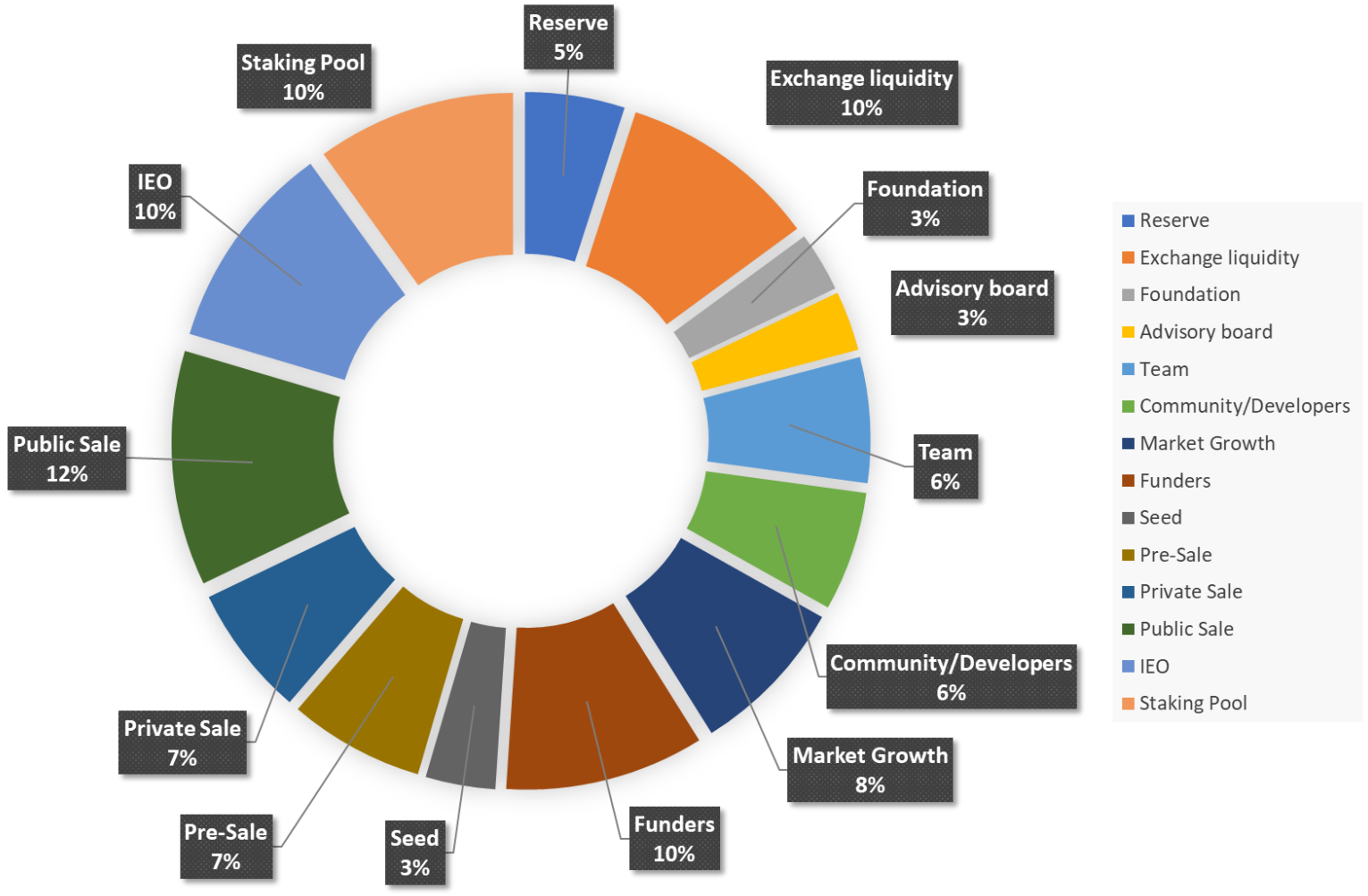
Piod token as the Piod platform native token, is a blockchain based token with maximum supply of 400.000.000 units. The main purpose of Piod Token is to distribute the economic benefits of the Piod solution, the governance of the Piod platform, and to establish effective communication between businesses related to the automotive industry and other potential customers.

Piod Token

If the Soft Cap required funds have not been raised, The founders will fill it up.

Token Name	PIO
Token Symbol	PIO
Total Supply	400,000,000 PIO
Division number	8
Token type	
Blockchain Network	BSV
Max Initial circulating supply	137,200,000 PIO – 34.3%
Fully diluted market cap	$60M USD
Max Initial Market cap	$16.08M USD
General Emission Type	Fixed Supply

Piod Token


Reserve 5%
Exchange liquidity 10%
Foundation 3%
Advisory board 3%
Team 6%
Community/Developers 6%
Market Growth 8%
Funders 10%
Seed 3%
Pre-Sale 7%
Private Sale 7%
Public Sale 12%
IEO 10%
Staking Pool 10%
Reserve
Exchange liquidity
Foundation
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Seed
Pre-Sale
Private Sale
Public Sale
IEO
Staking Pool

Piod Token9

Seed (~260% Expected profit)

Total Token Distributed	17,500,000 PIO 4.4%
Price	$ 0.0457 USD
Hard Cap	$ 800K USD
Soft Cap	$ 650K USD
Min Buy	$ 20,000 USD
Max Buy	$ 200K USD
Lock up	20 Months (Jan 2024)
Vesting time	2 Months
Offering Duration	8 Weeks

Piod Token9

Private Sale (~230% Expected profit)

Total Token Distributed	25,500,000 Pio 6.4%
Price	$ 0.059 USD
Hard Cap	$ 1.5M USD
Soft Cap	$ 1.2M USD
Min Buy	$ 10,000 USD
Max Buy	$ 500K USD
Lock up	17 Months (Jan 2024)
Vesting Period	3 Months
Offering Duration	7 Weeks

Piod Token9

Pre-Sale (~200% Expected profit)

Total Token Distributed	22,200,000 Pio 5.5%
Price	$ 0.090 USD
Hard Cap	$ 2M USD
Soft Cap	$ 1.8M USD
Min Buy	$ 1,000 USD
Max Buy	$ 200K USD
Lock up	12 Months (Jan 2024)
Vesting time	4 Months
Offering Duration	6 Weeks

Piod Token9

Public Sale (~170% Expected profit)

Total Token Distributed	30,000,000 Pio 7.5%
Price	$ 0.10 USD
Hard Cap	$ 3M
Soft Cap	$ 2.5M
Min Buy	$ 250
Max Buy	$ 200K
Lock up	9 Months (Jan 2024)
Vesting time	6 Months
Offering Duration	5 Weeks
Whitelist	3 Weeks Before Public Sale

Piod Token9

IEO (~25% Expected profit)

Total Token Distributed	42,000,000 Pio 10.5%
Price	$ 0.12
Soft Cap	$ 5M
Hard Cap	$ 4M
Min Buy	$ 100
Max Buy	$ 250K
Lock Time	-
Vesting Period	-
Offering Duration	2-3 Weeks

Token Price Guarantee

The Pio Company will always try to create an upward growth value trend for its tokens with the help of conventional tools in the world of cryptocurrencies and by increasing the usability of Pio tokens through new partnerships, but if the value of the Pio token fluctuates and falls under its price at initial token offering (ICO), the Pio Company **guarantees** that it is ready to deliver the Piod device to the token holders at ICO price. In this way, the price floor of the token is always guaranteed and, as a result, the risk of buying and investing in tokens is minimized for token holders.

Traction

GQS

CERTIFICATE

German Association for Quality and Management Systems

hereby certifies that the company

Ariana Peivand Asr Jadid Co. (Pio)

Unit 3, Second Floor, No.2901, Khayam St., Parkway, Valiasr St., Tehran, Iran.

for the scope

Manufacture and Trade of Automobile GPS and Diagnostic Trackers.

has implemented and maintains a

Quality Management System.

An audit, documented in a report, has verified that this quality management system fulfills the requirements of the following standard:

DIN EN ISO 9001:2015

This certificate is valid from 2021-06-29 until 2022-06-29
Certificate Registration No.: QMS3021061

Frank Augenstein (Managing Director)
Andreas Diem (Certificate authority)

QGS - Zertifizierungsstelle - Rosenbergstraße 70 - 70176 Stuttgart - Germany
www.qgscert.de

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Customer Satisfaction - Guidelines for Monitoring and Measuring.

An audit, documented in a report, has verified that this quality management system fulfills the requirements of the following standard:

ISO 10004:2018

This certificate is valid from 2021-06-29 until 2022-06-29
Certificate Registration No.: CSG2921067

Frank Augenstein (Managing Director)
Andreas Diem (Certificate authority)

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Unit 3, Second Floor, No.2901, Khayam St., Parkway, Valiasr St., Tehran, Iran.

for the scope

Manufacture and Trade of Automobile GPS and Diagnostic Trackers.

has implemented and maintains a

Information Security Management Systems.

An audit, documented in a report, has verified that this quality management system fulfills the requirements of the following standard:

ISO/IEC 27001:2013

This certificate is valid from 2021-06-29 until 2022-06-29
Certificate Registration No.: IEC2921061

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GQS

ATTESTATION OF COMPLIANCE

Certificate No.: CE5A 77 73 02106

Holder of Certificate:

Ariana Peivand Asr Jadid Co. (Pio)

Unit 3, Second Floor, No.2901, Khayam St., Parkway, Valiasr St., Tehran, Iran.

for the scope (Product)

Manufacture and Trade of Automobile GPS and Diagnostic Trackers.

Note: The Certificate holder is responsible for keeping the Notified Body advised of changes to any aspect of the overall process used in the manufacture of the product.
Remark: This Document has been issued on a voluntary basis and upon request of the manufacturer. It is our opinion that the technical documentation received from the manufacturer is satisfactory for the requirements of the GQS Certification Mark. The conformity mark above can be affixed on the products accordingly to the GQS regulation about its release and its use.

Additional information and clarification about the Marking:

CE

After preparation of necessary technical documentation as well as the EC conformity declaration the required CE marking can be affixed on the product. Other relevant directives have to be observed.

This certificate is valid from 2021-06-29 until 2022-06-29

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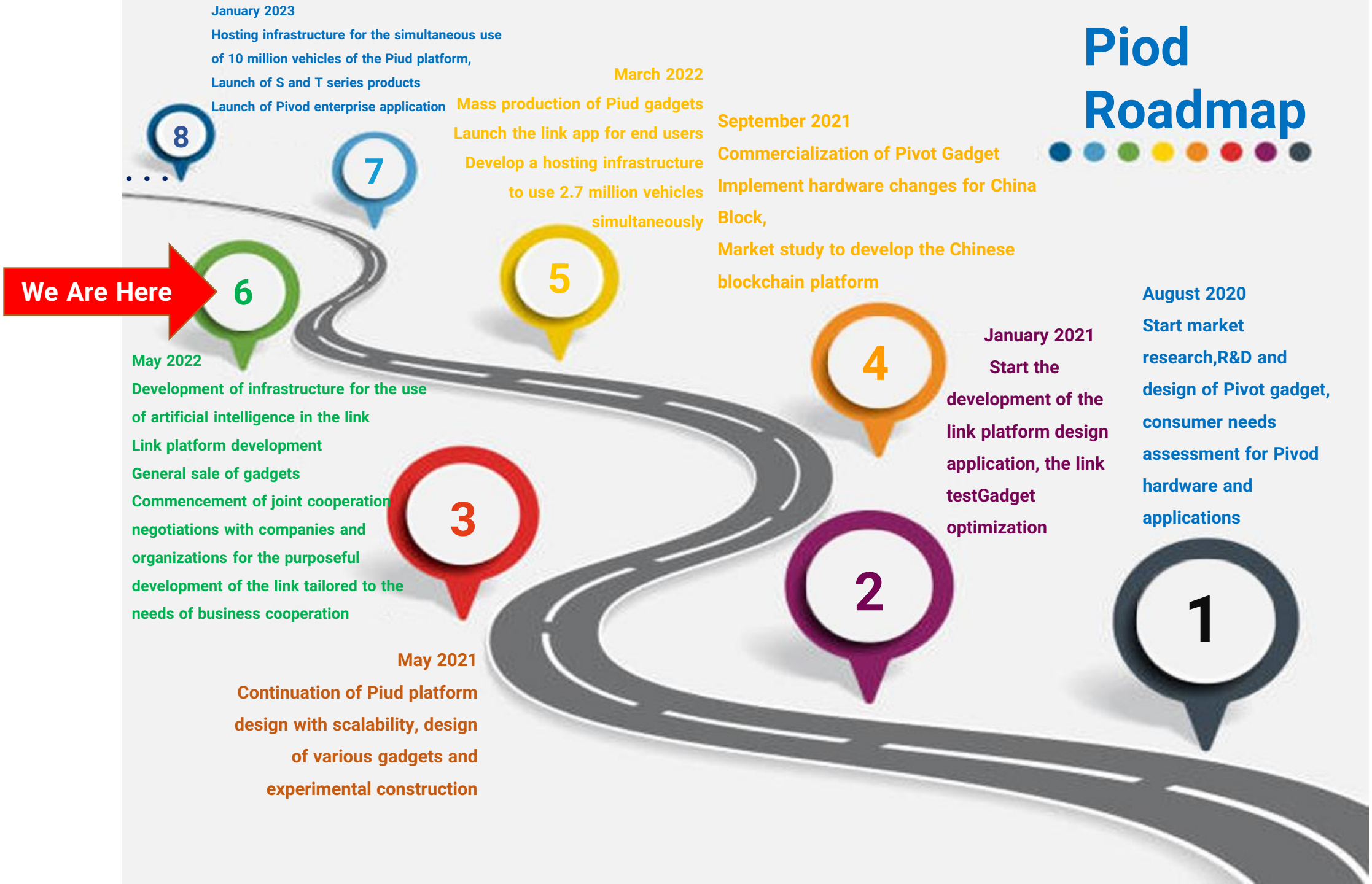
Piod Roadmap



January 2023
Hosting infrastructure for the simultaneous use of 10 million vehicles of the Piud platform,
Launch of S and T series products
Launch of Pivod enterprise application

March 2022
Mass production of Piud gadgets
Launch the link app for end users
Develop a hosting infrastructure to use 2.7 million vehicles simultaneously

September 2021
Commercialization of Pivot Gadget
Implement hardware changes for China Block,
Market study to develop the Chinese blockchain platform

May 2022
Development of infrastructure for the use of artificial intelligence in the link
Link platform development
General sale of gadgets
Commencement of joint cooperation negotiations with companies and organizations for the purposeful development of the link tailored to the needs of business cooperation

January 2021
Start the development of the link platform design application, the link testGadget optimization

August 2020
Start market research,R&D and design of Pivot gadget, consumer needs assessment for Pivod hardware and applications

May 2021
Continuation of Piud platform design with scalability, design of various gadgets and experimental construction