



Pulse Network Litepaper

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What is Pulse?

Pulse Network is a next-generation medical data repository and sharing platform, building the infrastructure for state-of-the-art, artificial intelligence [AI] enabled diagnostic and treatment capabilities.

Pulse will facilitate the collection of data, including electronic medical records [EMRs], biometric data and sensor data, and dissemination of the best treatment options.

Pulse leverages blockchain technology to ensure an authentic, secure, continuously available, automated and immutable foundation for healthcare data.

Pulse's vision

Pulse's vision is to create a better experience for patients by collating a global database of medical expertise and knowledge and putting the best healthcare within everyone's reach.

Challenges facing healthcare providers and patients

Healthcare is characterized by knowledge asymmetry, with an inefficient flow of information acting as a barrier to adoption for new models of diagnosing, treating and delivering care.

General practitioners are often unable to keep pace with medical developments and the fragmented nature of EMR systems hampers the sharing of patient records.

These challenges can be consequential for care providers and patients alike, with outdated medical knowledge and incomplete records posing a risk of patient harm.

The Pulse solution

Pulse solves the long-standing need in healthcare for a one-stop, comprehensive data bank that breaks down silos and democratizes access to the latest medical advances.

Pulse also unlocks an integrated patient view for clinicians, leveraging developments in EMR interoperability standards and clinical record portability, together with data sourced from partnerships such as medical information from health insurer member claims.

Pulse's AI-enabled diagnostics empower clinicians with real-time, actionable insights to make more accurate diagnoses and deliver optimal care, whether through in-person or remote care.

Pulse's products

Pulse Records (EMR) and Pulse Records for Dentists

JPMedsn has collated a well-researched database of the latest diagnostics, treatment guidelines, recommended prescriptions and drug information which it makes available to medical practitioners on the Pulse Records (EMR) platform and to dentists on the Pulse Records for Dentists platform. Pulse's patented data input technology significantly reduces the time required to create patient record entries.

Pulse Pocket (Personal)

Pulse collates individual health data, lifestyle data and clinical records and gives complete control over this data to the patient. A patient using Pulse Pocket (Personal) can elect to seamlessly transfer their medical history to a new doctor.

PULSE token use cases

PULSE is the platform's utility and governance token, which has a variety of use cases.

1 **Pulse Records (EMR) and Pulse Records for Dentists**

Practitioners will be required to stake PULSE for access to Pulse's infrastructure, with additional platform services also payable in PULSE.

2 **Research data**

Researchers will be required to stake PULSE for access to Pulse's aggregate, anonymized data, with additional charges for drawing data also payable in PULSE.

3 **Insurance**

Insurance providers will be required to stake PULSE for access to patient data where patient permission has been granted.

4 **Pulse Pocket (Personal)**

Patients will be able to earn PULSE which will be able to be used to participate in a tiered fee discount program at Pulse Network practices and for payment for health services at Pulse Records (EMR) and Pulse Records for Dentists practices.

5 **Consensus mechanism**

- Pulse Network will use a proof-of-stake consensus mechanism
- Validators and delegators will be required to stake PULSE
- PULSE is the governance token of Pulse Network and a deposit to the Treasury will be required for nominating PULSE Improvement Protocols (PIPs) to be voted on by the community.

Token Allocation

- **MAX TOKEN SUPPLY: 12,000,000,000 PULSE**
- **TICKER: PULSE**
- **NETWORK: ERC20**

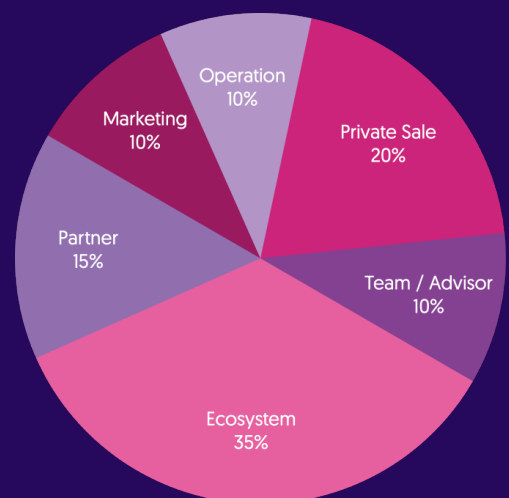
We designed the protocol's tokenomics to encourage long-term sustainability. Pulse Network will issue 12 billion PULSE tokens, with private investors receiving an allocation of 2.4 billion. PULSE will be used to further develop the Pulse Network ecosystem via funding, marketing activities, development, and more.

The distribution of tokens has been planned to incentivize the community to own a majority stake in the protocol. 1.2 billion tokens are reserved for the Pulse Network team and advisors - partners have been allocated 1.8 billion PULSE tokens.

At Pulse Network, we prioritize and advocate for developing a strong foundation. Therefore, more than 50% of the funds will be allocated to funding marketing initiatives and operations, in addition to being pledged to contribute significantly to the Pulse ecosystem. Most of the funds will be allocated and used to further grow the ecosystem; all tokens are effectively owned and allocated by the Pulse Network Team.

The vesting period may be spread out across 66 months, with token holders subject to specific vesting periods. Please refer to the table below for more details:

SEGMENT	TOTAL SUPPLY IN %/TOKENS	RELEASE SCHEDULE
Private Sale	20% [2,400,000,000 PULSE]	3.9% to be released per month (M+1 after listing); 10% to be unlocked at TGE
Team/Advisors	10% [1,200,000,000 PULSE]	24 month cliff followed by 12.5% quarterly unlocked
Partners	15% [1,800,000,000 PULSE]	24 month cliff followed by 12.5% quarterly unlocked
Marketing	10% [1,200,000,000 PULSE]	10% to be unlocked at TGE ; 5% token released per quarter
Operations	10% [1,200,000,000 PULSE]	12 month locked up followed by 10% release bi-annually
Ecosystem	35% [4,200,000,000 PULSE]	Vesting schedule TBD



Private Sale: Vest monthly, 3.9% per month

Teams/Advisors: Vest quarterly, 12.5% per quarter

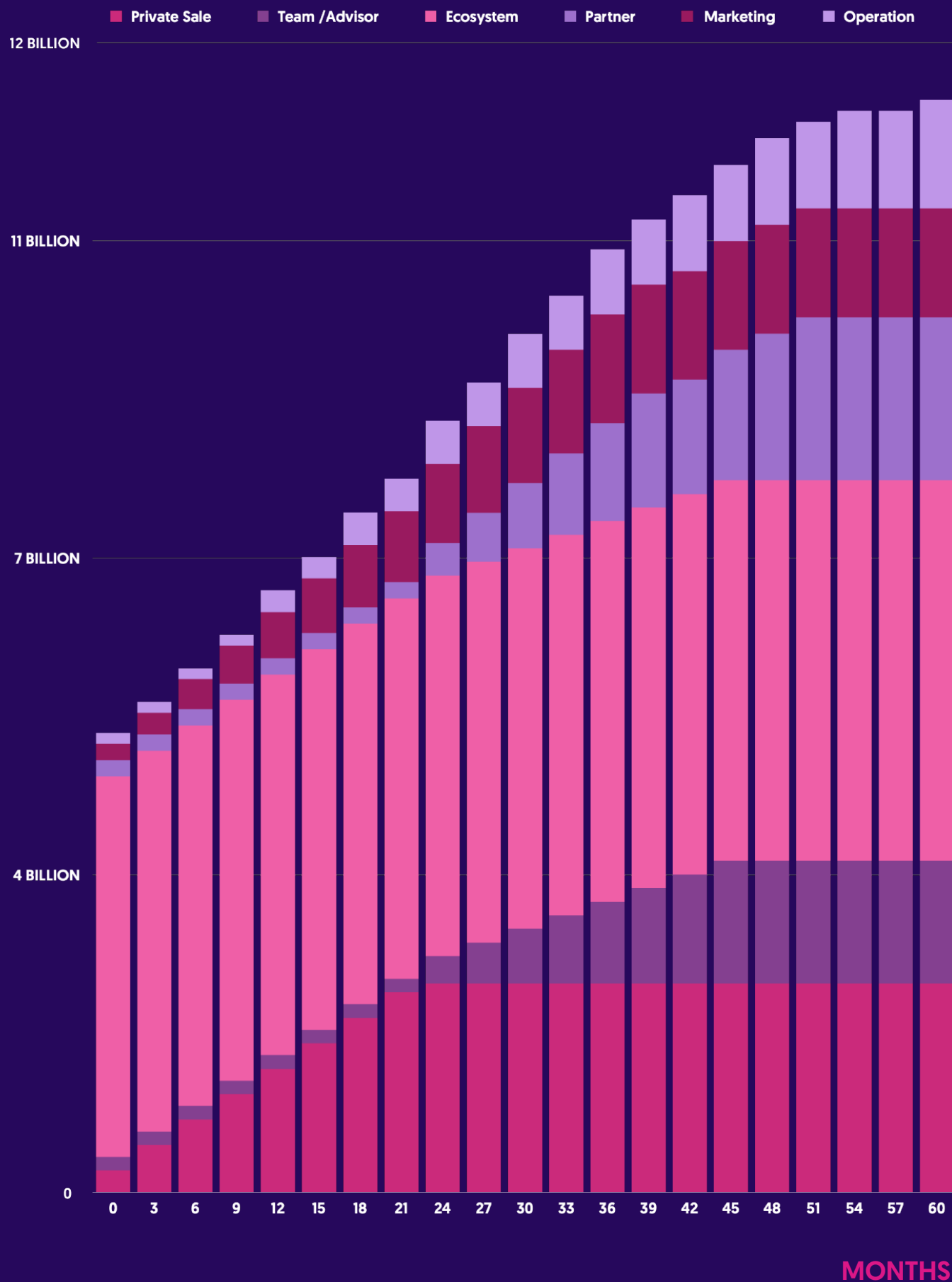
Partners: Vest quarterly, 12.5% per quarter

Marketing: Vest quarterly, 5% per quarter

Operation: Vest bi-annually, 10% per 6 months

Ecosystem: Vest schedule TBD

Tokenomics



Team and advisors

Pulse is led by a team of Japan's foremost medical technology researchers and innovators and supported by a distinguished advisory board of world-class healthcare leaders.

Team



KAZUO MORISHIGE

CEO



MINORU MOGI

CFO



DR. SOUICHIRO ASANAMI,
DDS, PHD

CEO



TOSHIFUMI ODA

CFO

Advisors



PETER LINGSTRÖM

PROFESSOR AND CHAIRMAN,
DEPARTMENT OF CARIOLOGY,
INSTITUTE OF ODONTOLOGY
AT SAHLGRENSKA ACADEMY,
UNIVERSITY OF GOTHENBURG



MASAKUNI TAMURA

PROFESSOR, SCHOOL OF SCIENCE
AND TECHNOLOGY, MEIJI
UNIVERSITY



RYOSUKE TAMURA

CHIEF PATENT ATTORNEY,
LIGHTHOUSE INTERNATIONAL
PATENT FIRM

Partnerships

Pulse's blockchain-based electronic medical record (EMR) technology is being deployed via globally and regionally trusted healthcare partners. With large-scale rollouts to be deployed in Japan, China and South Korea, Pulse is on track to be used by hundreds of thousands of clinicians in Asia who manage the care of more than 100M patients. Pulse is also pursuing a partnership with mail health check-up operators that have a reach of more than 40M patients.

	2021	2022
Q1	<ul style="list-style-type: none"> • Design <i>Pulse Record for Dentists</i> 	<ul style="list-style-type: none"> • Insurance partner development • Alpha <i>Pulse Record for Dentists</i> • Development <i>Pulse Pocket (Personal)</i>
Q2	<ul style="list-style-type: none"> • Development <i>Pulse Record for Dentists</i> • Design <i>Pulse Record (EMR)</i> 	<ul style="list-style-type: none"> • Medical device partner development • Hospital partner development • Design <i>Pulse Pocket</i>
Q3	<ul style="list-style-type: none"> • Development <i>Pulse Record (EMR)</i> 	<ul style="list-style-type: none"> • Joint venture CI Medical • MVP <i>Pulse Record for Dentists</i> • Alpha <i>Pulse Record (EMR)</i>
Q4	<ul style="list-style-type: none"> • Dental clinic partner development 	<ul style="list-style-type: none"> • Beta <i>Pulse Record for Dentists</i> • MVP <i>Pulse Record (EMR)</i>



2023

2024

Q1

- Beta acceptance testing (3 months) *Pulse Record for Dentists*
- Release candidate *Pulse Record for Dentists*
- Beta *Pulse Record (EMR)*

- Rollout *Pulse Record (EMR)*
- Beta acceptance testing (3 months) *Pulse Pocket (Personal)*
- Release candidate *Pulse Pocket (Personal)*

Q2

- Release candidate acceptance testing (3 months) *Pulse Record for Dentists*
- Dental clinic pilot *Pulse Record for Dentists*
- Beta acceptance testing (3 months) *Pulse Record (EMR)*
- Release candidate *Pulse Record (EMR)*
- Alpha *Pulse Pocket (Personal)*

- Production environment feedback and product update v1 (6 months) *Pulse Record for Dentists*
- Release candidate acceptance testing (3 months) *Pulse Pocket (Personal)*
- Patient pilot *Pulse Pocket (Personal)*

Q3

- Patient pilot *Pulse Record for Dentists*
- Release candidate acceptance testing (3 months) *Pulse Record (EMR)*
- Hospital and clinic pilot *Pulse Record (EMR)*
- MVP *Pulse Pocket (Personal)*

- Release App Store/Google Play/ Tencent Appstore *Pulse Pocket (Personal)*
- Production environment feedback and product update v1 (6 months) *Pulse Record (EMR)*

Q4

- Rollout *Pulse Record for Dentists*
- Patient pilot *Pulse Record (EMR)*
- Beta *Pulse Pocket (Personal)*

- VR Integration

2025

Q1

- Production environment feedback and product update v1 (6 months)
Pulse Pocket (Personal)

Q2

Q3

Q4

- AI Integration



ROADMAP 2021-2025

Contact



pulsemed.xyz



twitter.com/PulseNetwork_



medium.com/pulse-network



t.me/pulse_network

Whitepaper

To request the Pulse Network Whitepaper please email operations@pulsemed.xyz