

Blockchain - Reinventing Data & Healthcare



www.pharmeum.io

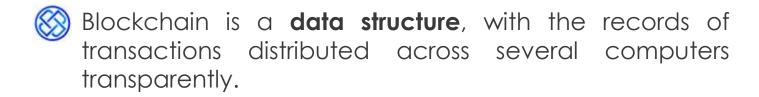
Our Journey Today

Today, you will travel through an exciting experience of knowledge. Together, we will explore –

- 1 Blockchain and Data explained
- 2 A working Blockchain example
- 3 The **myths** of Blockchain
- 4 The future is now



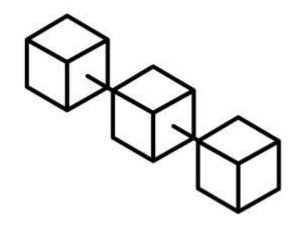
What is Blockchain?







Trade and trace any **asset of value**, digitally.



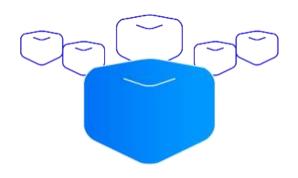


Blockchain Examples

Bitcoin	Ethereum	Pharmeum
B		
P2P Network	dAPP Platform	Data Network
Public Blockchain	Public Blockchain	Permissioned Blockchain
Decentralized Value Transfer	Decentralized Apps	Data-powered Apps



Data is a Currency



90% of the world's



One person's Health
Data is valued at over
\$1000



More than 52% of smartphones gather health data

Since data scandals, such as Facebook-Cambridge Analytica, regulatory bodies are encouraged to focus on user-centric ownership of information.



"Well, I think it is working. There may be other currencies like it that may be even better. But in the meantime, there's a **big industry** around Bitcoin."





"I think Bitcoin has succeeded on the level of a **new currency**, but the payment system is somewhat lacking."

"The world ultimately will have a **single currency**, the internet will have a single currency. I personally believe that it will be **Bitcoin**."



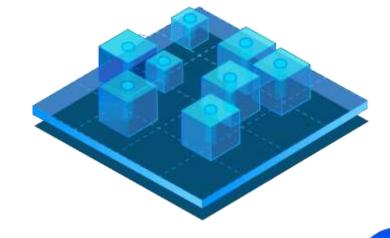


"(Blockchain) is the **biggest opportunity** we can think of over the next decade."



What makes it secure?

- Blocks are connected to each other in a chronological "**chain**"
- Once timestamped, the Block is **immutable** it is unchangeable
- These record of transactions are replicated across several computers in a **decentralized** way (nodes)
- To maliciously rewrite any transaction, the entire hash would need to be recreated, affecting all other Blocks after it

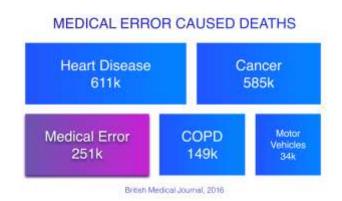




The Problems

The Digital Healthcare market is projected to be valued at \$379 Billion USD by 2024. Digital Healthcare is rapidly increasing, with mobile health applications growing in revenue by ~15% each year.

- **Medical Errors** The 3rd largest cause of death.
- 2 **Data Regulations** Privacy laws are evolving to become more user-controlled.
- 3 **Data-dependency** Almost every new Digital Healthcare application solution feeds on data.
- **Security of Medical Data** Health Data is worth more to cyber-criminals than credit card information.





Why Healthcare?

The single most valuable information type is Health Data. Forbes estimate its value to be around \$200-1000 per person.

Over **83%** of Healthcare organisations believe that Al and Digital Health will give companies the 'edge'.

For this to be created, a massive amount of data needs to be accessed regularly.

The current, centralized data-stores are incapable of supplying this information.

Blockchain can be used to supply data to AI and other technologies, with true **privacy** and **scalability**.





Blockchain use-cases

Blockchain's usage goes far beyond that of Bitcoin and Banking alone.

Below are a few **powerful** examples:

- 1 Electronic Health Records
- Decentralized Data Monetization
- 3 Artificial Intelligence & Applications





Developed Example

The platform for data-fuelled decentralized applications and artificial intelligence





The Vision

Pharmeum is a **data-powered** network to fuel next-generation AI and Healthcare Applications.

Private **Blockchain** technology is used to exchange the value of everyones data with data-demanding applications.

Data is at the core of all digital Health applications, including AI, Supply-chains, and TeleHealth.

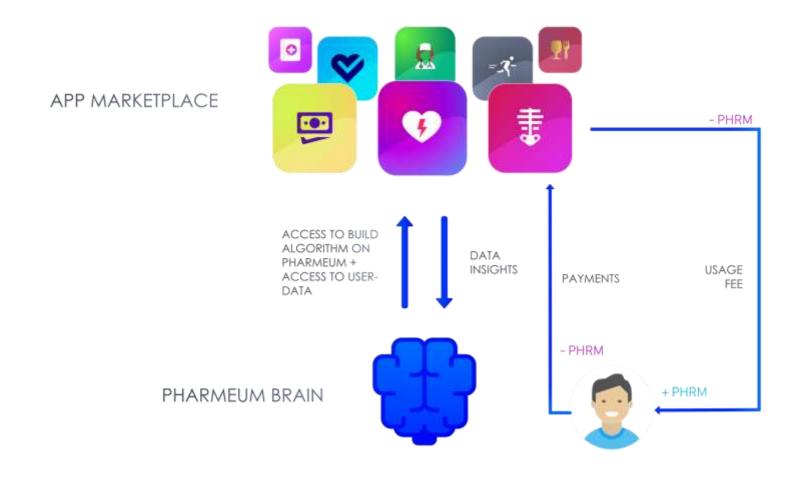
Pharmeum aims to solve the word's **demands** for user data within HealthTech, through **scalability and privacy**.

Pharmeum will enable Health Records and data-centres to create a **revenue stream** from their users data. Everyone around the world will be able to become a part of global Al and Healthcare innovation, whilst **passively earning** crypto for their contribution.





PHRM Token Economy



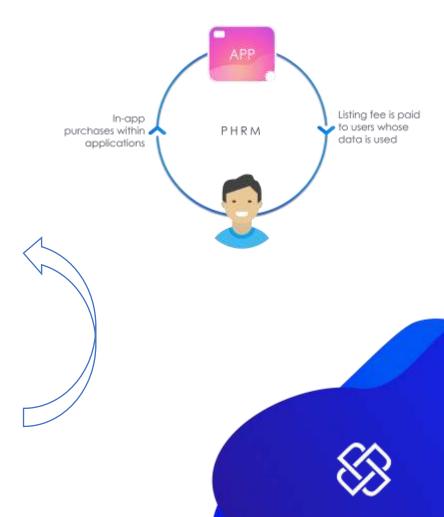


PHRM Cycle

All stakeholders **interchange** PHRM Coins as a single 'language' of value transfer.

Below is the **cycle** of PHRM:

- 1 Applications purchase PHRM to pay for the listing fee
- 2 Based on their data-demands, the listing fee is divided between all users, as a passive reward-stream for their data
- 3 Users can hold PHRM within their in-app wallet and use PHRM to pay as an in-app payment within the applications
- This PHRM is stored by the listed application, the ongoing listing fee is deducted from this balance



Benefits of Blockchain in Healthcare

- Interoperability
- **Security**
- Open Decentralization
- **Scalability**
- Selected Confidentiality
- **Trust**





Breaking the Myths

Myth

Blockchain = Bitcoin

Blockchain can be used everywhere

Blockchain is 100% secure

Blockchain is the "Truth Machine"

<u>Truth</u>

Bitcoin is only one example of Blockchains use-case.

Many usages would benefit more from databases alone.

Only if the adjacent applications are secure. There's also a risk of a 51% attack.

Blockchain can only verify the transactions on-chain, not the truth of input information.



The Future

The future for Healthcare will be **dependent on data**.

The structure and decentralization of this is the foundation for **next-generation Healthcare**.

Blockchain's security demands to solve the global need for information is growing.

Through Blockchain; Smart Supply-chains, User-specific Apps, and Medical AI will finally become **accelerated**.

Get involved, you are early.

