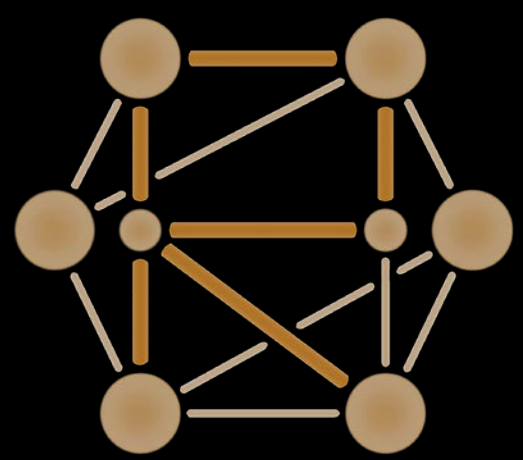


# RAYS

# NETWORK

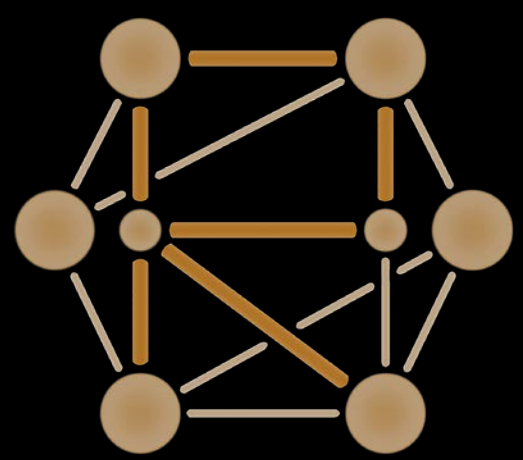


# Before You Read this Whitepaper

RAYS Network claims to be one of the best blockchain projects announced till date for the combined effect of three reasons:

- 1) **DPoS Consensus Protocol** which is the most Decentralized, Efficient, and Less-Energy consuming consensus protocol known to date
- 2) **Bulletproof Non-Interactive Zero Knowledge Proof** Privacy implementation which is a one step ahead in performance compared to NIZKPK privacy algorithm announced by EOS
- 3) All the development proposed here by RAYS Network team is to be performed at **RAYS Research Laboratory** and by researchers from universities all around the world. The major portion of your contribution will be used to establish RAYS research laboratory which will be responsible for RAYS Blockchain Development.





# Comparison with other Blockchain Networks

| Logo  | Name                | Speed<br>per transaction | Cost<br>per transaction | Scalability<br>Transactions per sec |
|---|---------------------|--------------------------|-------------------------|-------------------------------------|
|    | RAYS Network (RAYS) | 1 sec                    | Free (0\$)              | >10,000 TPS                         |
|    | Ripple (XRP)        | 3.3 sec                  | 0.0004 \$               | 1500 TPS                            |
|   | Bitcoin (BTC)       | 45 mins                  | 1.88 \$                 | 16 TPS                              |
|  | Ethereum (ETH)      | 4.49 mins                | 0.46 \$                 | 16 TPS                              |
|  | Bitcoin Cash (BCC)  | 60 mins                  | 0.21 \$                 | 24 TPS                              |
|  | LiteCoin (LTC)      | 12 mins                  | 0.12 \$                 | 56 TPS                              |







# Comparison with other Blockchain Networks

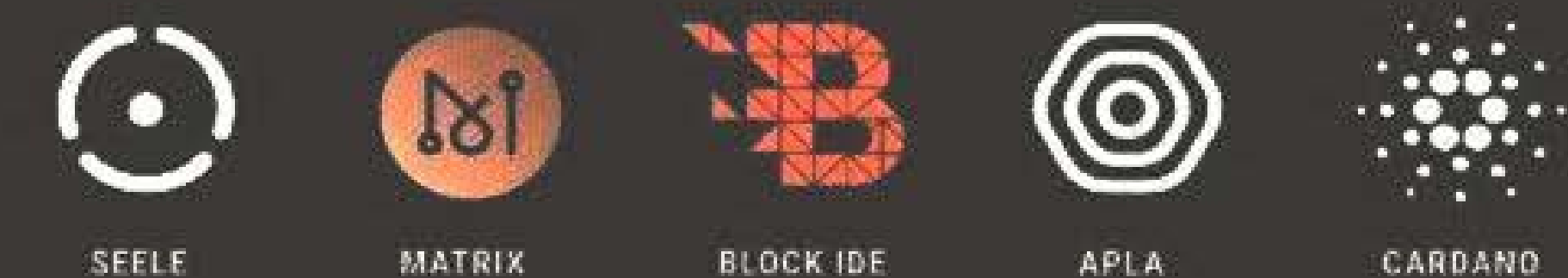
## PUBLIC (PERMISSIONLESS)



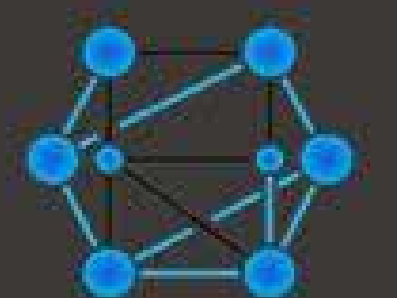
## PRIVATE (PERMISSIONED)



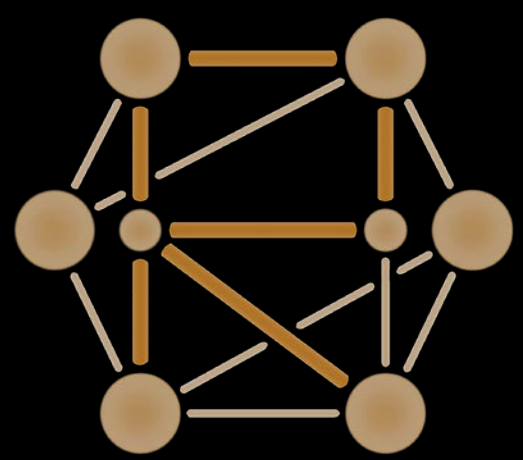
## PRIVATE OR PUBLIC



## PRIVATE AND PUBLIC (FLEXIBLE)



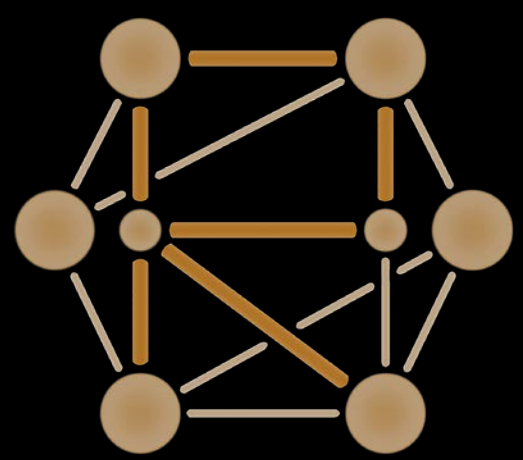
RAYS Network



# What is RAYS Network Project?

- **RAYS Network** is based on a whole new blockchain technology which is growing and improving all the time. For a few years now, blockchain technology has been increasingly adopted, but there are still many problems that hold this technology back from going mainstream. **RAYS Network** is looking to solve many of these problems.
- **RAYS Network** is a cryptocurrency that aims to revolutionize your experience within the cryptocurrency world. We have identified common cryptocurrency issues ranging from usability to how decentralized systems operate. We are adopting known features in the cryptocurrency world such as Delegated Proof-of-Stake (DPoS) and Bulletproof algorithm but we have modified features to accommodate our community's needs.

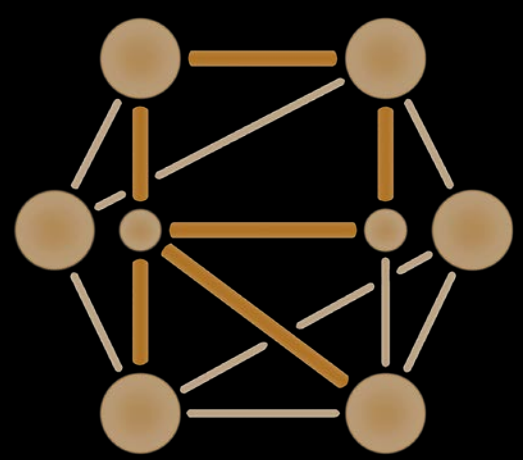




# Prime RAYS Features

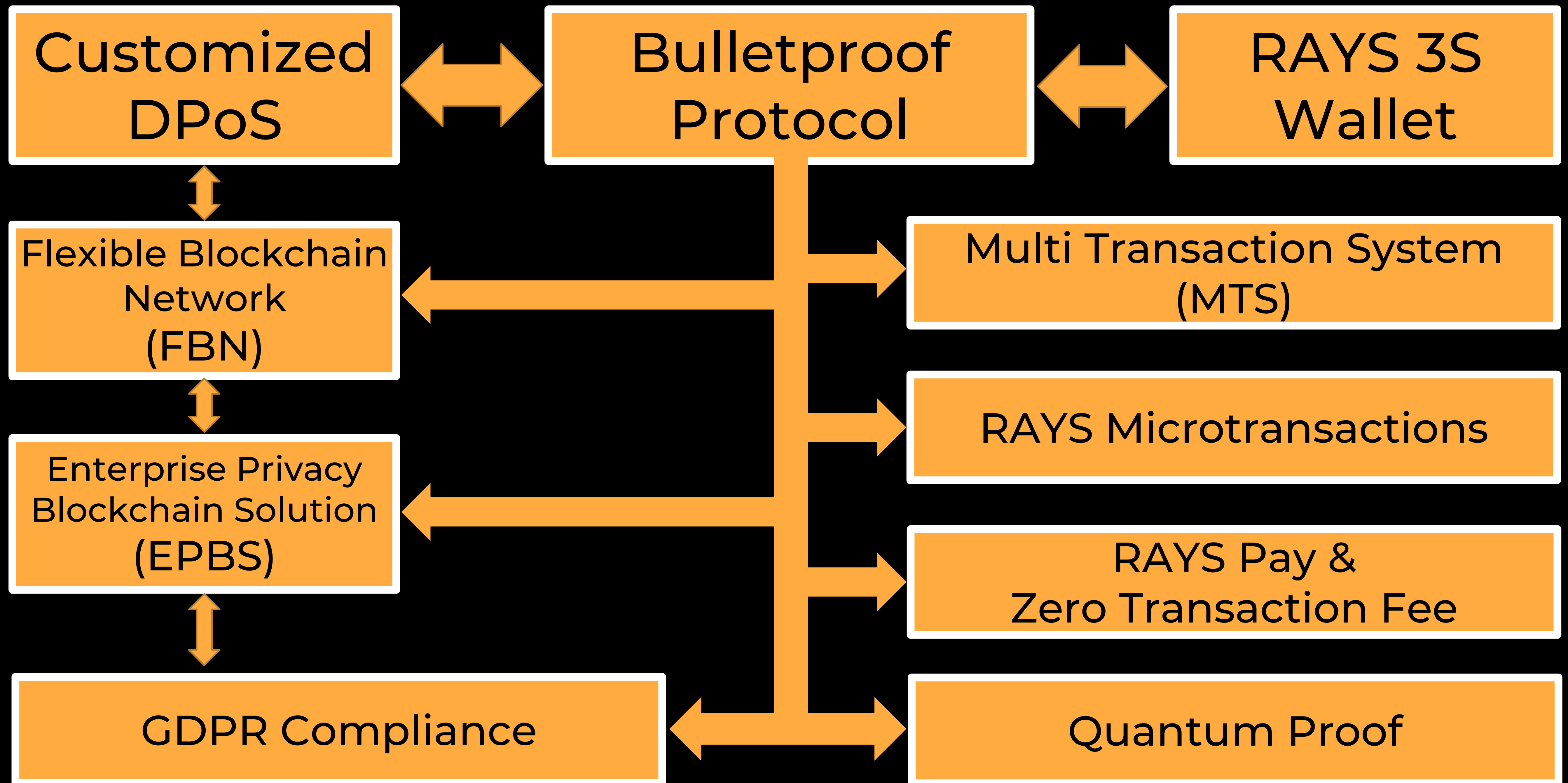
- Customized Delegated Proof of Stake (CDPOS)
- Bulletproof Protocol for Privacy
- Flexible Blockchain Network (FBN) [Public and Private]
- Enterprise Privacy Blockchain Solution (EPBS)
- Zero Transaction Fee
- RAYS PAY & Microtransactions
- Multi Transaction System (MTS)
- RAYS Research Laboratory
- RAYS 3S Wallet
- Quantum Proof
- GDPR Compliance





# RAYS Network Project in a Glance

## ELEMENTS OF RESEARCH & DEVELOPMENT

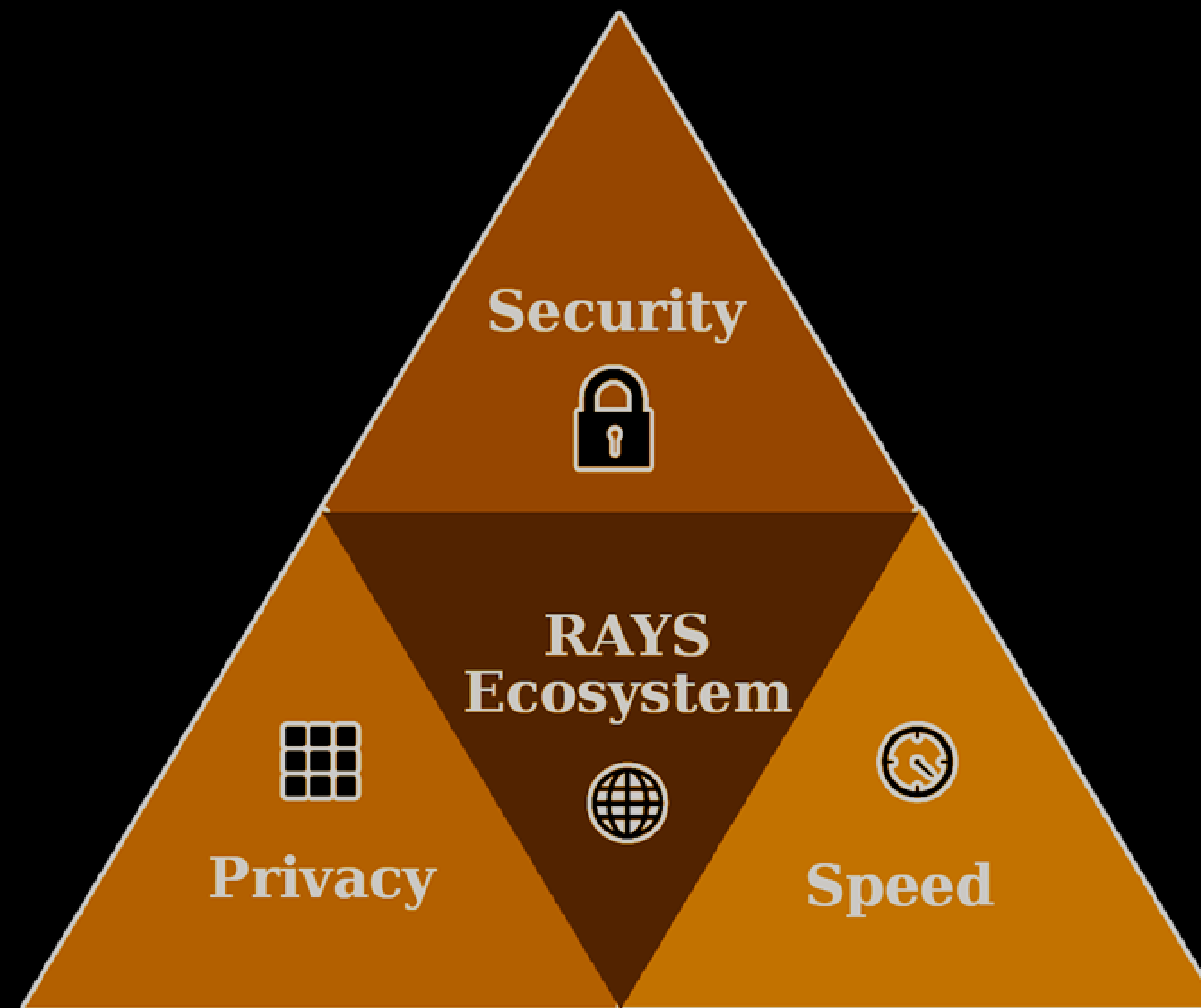






# Problem Definition

- The industries need a blockchain which should be Secure and Private.
- General cryptocurrency users require Low Transaction Fee, Fast Speed, and Security.

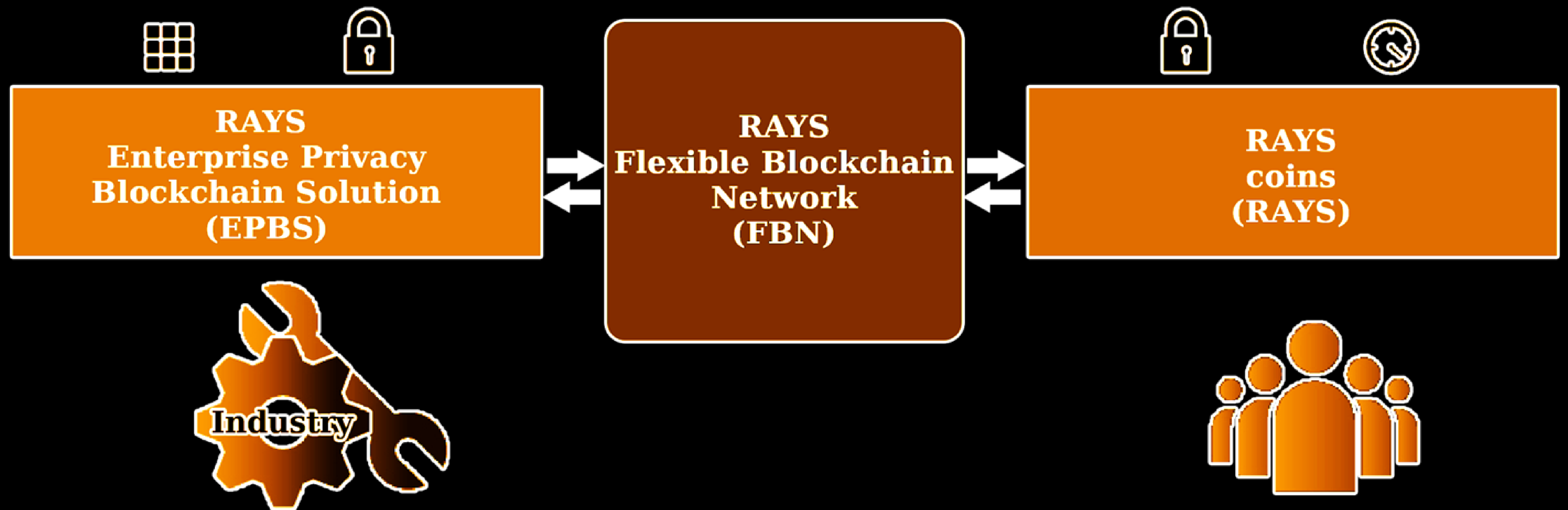


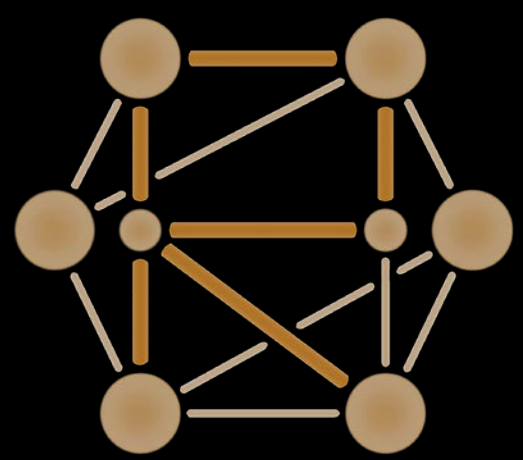




# RAYS Solution - Flexible Blockchain Network (FBN)

We have a solution for both; a Secure and Private blockchain for industries, and a Secure and Fast cryptocurrency for general users. Our technical team is working on a Flexible Blockchain Network (FBN) which may switch between General and Enterprise users as required by the users for their needs. **Sufficient progress has already been made and a Minimum Viable Product (MVP) has already been developed to prove the FBN concept.**

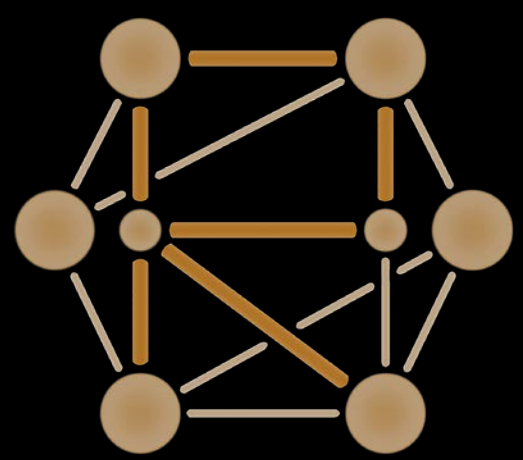




# RAYS Enterprise Privacy Blockchain Solution

- Imagine that you are the head of an enterprise (company) and you want to send the enterprise data or make a payment to your employees at public blockchain network.
- In all the traditional blockchain systems, whatever you will share on the public blockchain can be seen by anyone using the same blockchain.
- This is against the rules of privacy and one's right to privacy. Your employees may not want their salaries to be shown on public blockchain network.
- Regulations such as GDPR prohibit such practices.
- As a result of this, all activities performed on a public blockchain network are non-compliant to the rules set by such regulations.
- Blockchain networks such as Ethereum fail in these scenarios and may be violating the laws.





## RAYS Enterprise Privacy Blockchain Solution (cont.)

- In this scenario, one may consider a blockchain network which is private or offers complete privacy.
- Doing so kills the essence of blockchain technology and is against the basic principles of this innovation.
- Is there a solution in this situation to still ensure individuals privacy while making the use of a public blockchain network?
- Yes! RAYS Network exactly aims to solve this problem. Each transaction to be made at RAYS blockchain network will have an option before transmission whether the transaction should be public or private.
- A public transaction at RAYS public network will be like a normal transaction such as the transactions made at Ethereum blockchain.

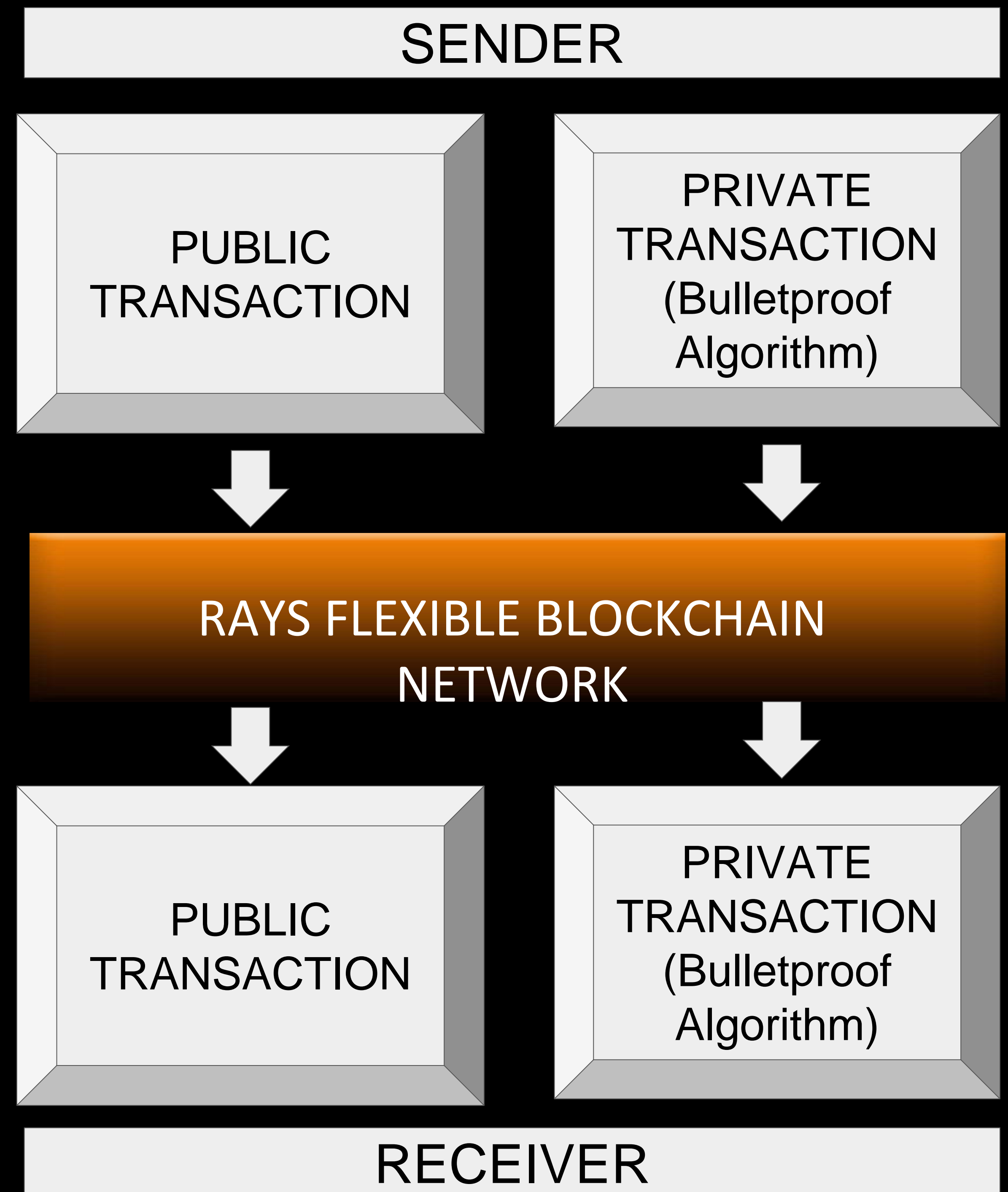






# RAYS Enterprise Privacy Blockchain Solution (cont.)

- It is possible to make a Private transaction on a Public blockchain network. In this way, everyone can see that a transaction is made. But no one except the intended receiver can see what is inside the transaction.
- This will be made possible with the use of a Bulletproof algorithm. Each transaction will be locked by the sender and can only be opened by the intended recipient.
- Bulletproof is a type of Non Interactive Zero-Knowledge Proof algorithm.



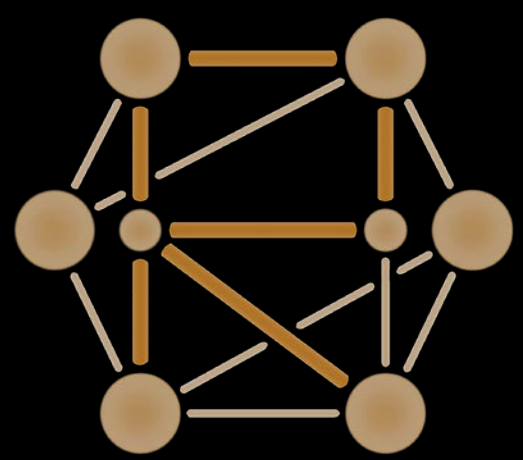




# Bulletproof Protocol

- Bulletproof protocol is the latest theoretical protocol under tremendous research that aims to revolutionize the privacy in cryptocurrency and blockchain.
- Logarithmic in size, Bulletproof protocol reduces the block transaction size to a great deal compared to other Privacy protocols such as ZK-SNARKs and Non-Interactive Zero Knowledge Proof of Knowledges (NIZKPK), being or planned to be used by ZCash, Ethereum and EOS, respectively.
- For example, If all Bitcoin transactions were confidential and used Bulletproofs, then the total size of the UTXO set would be only 17 GB, compared to 160 GB with the currently used proofs.
- This is a significant improvement in terms of reducing the size of the whole blockchain network.
- Hence, Bulletproof Protocol is logarithmically smaller than other linear privacy protocols.





# Bulletproof Protocol (cont.)

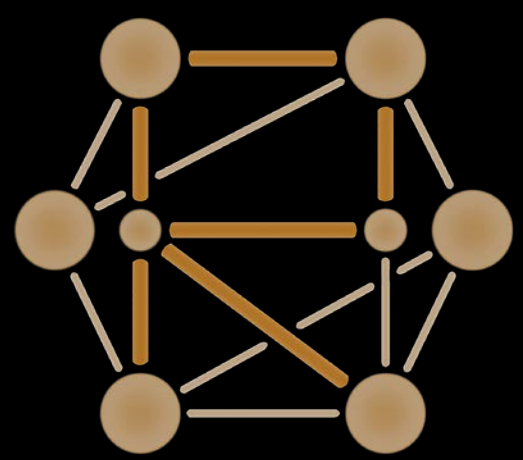
“Bulletproofs are short non-interactive zero-knowledge proofs that require no trusted setup. A bulletproof can be used to convince a verifier that an encrypted plaintext is well formed. For example, prove that an encrypted number is in a given range, without revealing anything else about the number. Compared to SNARKs, Bulletproofs require no trusted setup.

Bulletproofs are designed to enable efficient confidential transactions in Bitcoin and other cryptocurrencies. Confidential transactions hide the amount that is transferred in the transaction. Every confidential transaction contains a cryptographic proof that the transaction is valid. Bulletproofs shrink the size of the cryptographic proof from over 10kB to less than 1kB. Moreover, bulletproofs support proof aggregation, so that proving that  $m$  transaction values are valid adds only  $O(\log(m))$  additional elements to the size of a single proof.

Bulletproofs have many other applications in cryptographic protocols, such as shortening proofs of solvency, short verifiable shuffles, confidential smart contracts, and as a general drop-in replacement for Sigma-protocols.”


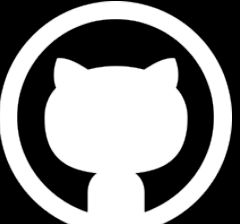
Source: Applied Cryptography Group (Stanford University) [-Click here to find more](#)

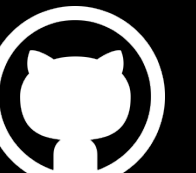




# Bulletproof Protocol (cont.)

More details about Bulletproof Protocol can be found here:

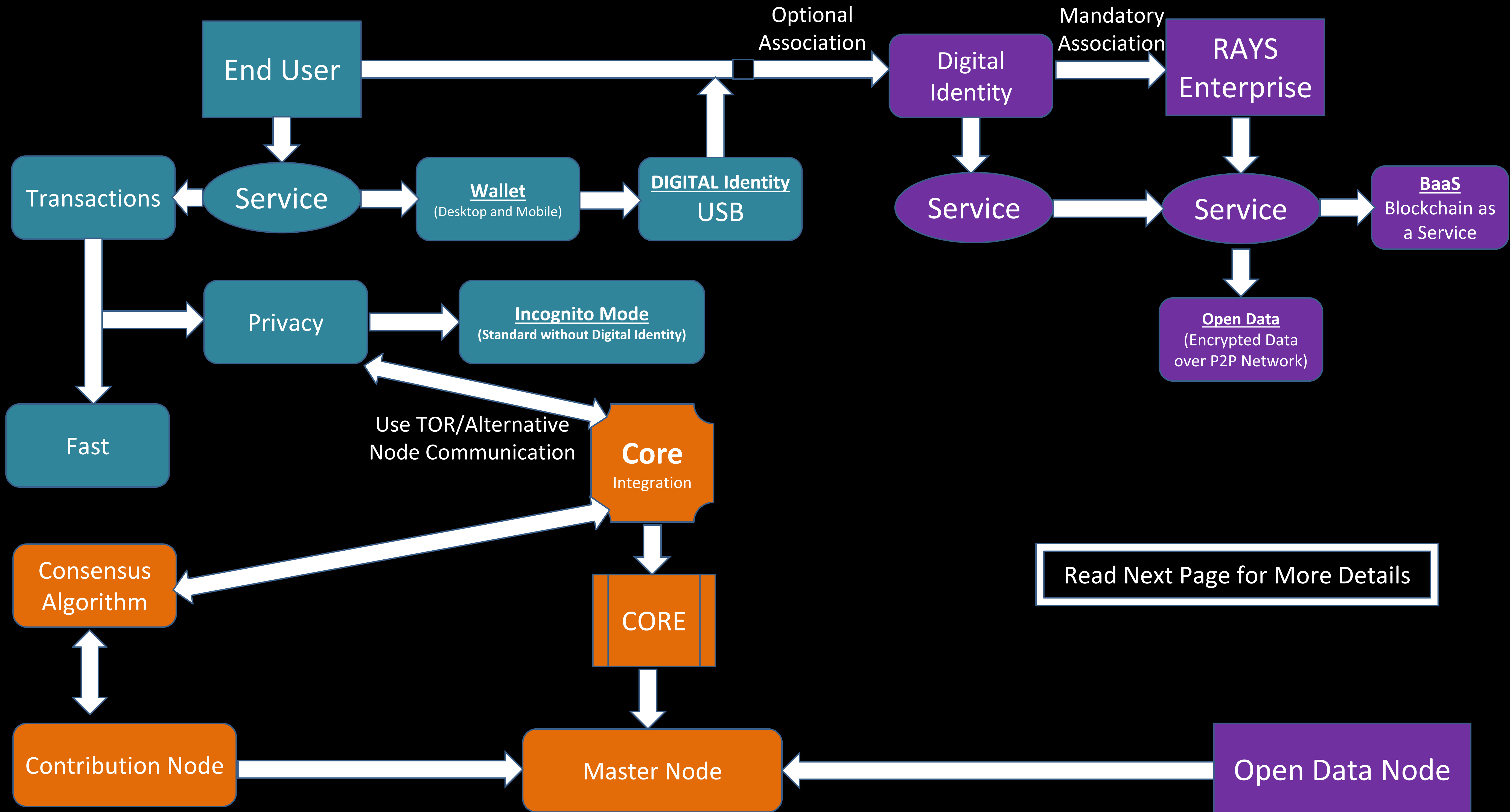
- [Research Paper: Cryptology ePrint Archive: Report 2017/1066 \(Forthcoming at IEEE S&P 2018\).](#)
- **Bulletproofs implementation** in Secp256k1lib   
An implementation of Bulletproofs in C by Andrew Poelstra and Pieter Wuille. Uses constant time operation for proving and is very fast. Includes a tool for converting Pinocchio circuits to Bulletproof circuits and generating proofs for arbitrary statements. Work in progress and will still be improved and expanded.
- **Prototype Code** 







# RAYS Ecosystem







## Digital Identity

Cloud Wallet  
Biometrics, USB and 2  
Factor Authentication  
RAYS Enterprise  
(Companies Only)  
Global Permissioned  
Data  
Cloud Storage  
Allow Person or  
Company to View  
Data that is in the  
System

## Enterprise Users

Understand End Users with  
Digital ID  
Permission based Open Data  
System  
Near Real-time Data Updates  
Data Redundancy (Never Lose  
Data)  
Third Party Application  
Integration

## Open Data Node

Each Company will have an Open Data Node. This will be integrated within the core package and will relay information back to each Master Node depending on the permissions

### Node Permissions

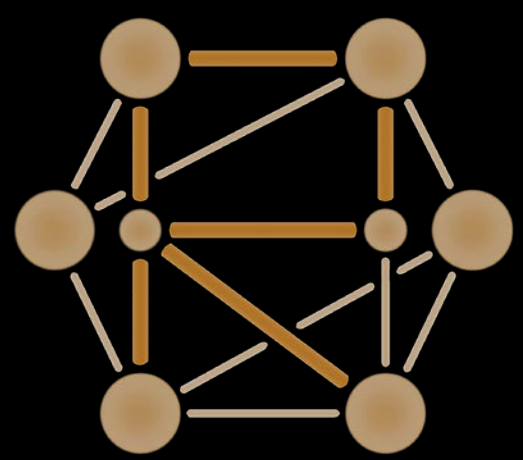
1. Private Internal Industry Data - Master Node has No knowledge of Data
2. Public Cross Industry Data - Master Node has Knowledge of Data
3. Internal Industry Public Data - Master Node has Knowledge of Data
4. Private Cross Industry Data - Master Node has No Knowledge of Data

This Open Data Node will be a Decentralized File System

### Key Focus

Security and Transfer Speed  
Association with Digital Identity to File (Individual or Company)  
Graphic User Interface for Accessible Files

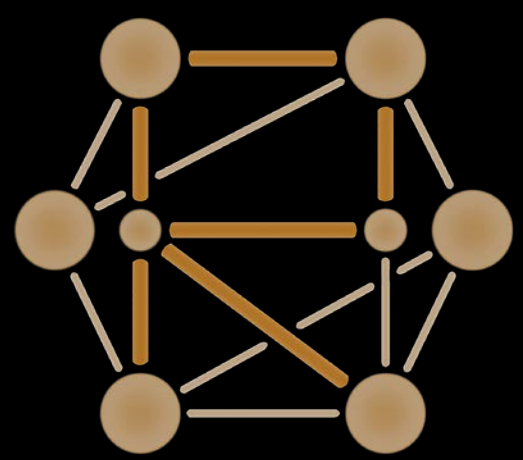




## We are Community Driven.

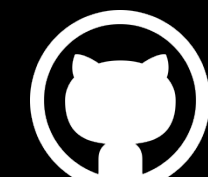
- From the very beginning, our task was to create something useful for large companies, private, and retail investors in a way that ensures the fulfillment of everyone's requirements. We will always be in close contact with our community, because in our hearts, we all know that **our community is the most important member of our team.**
- As a part of our commitment to ensure the maximum safety of the investment by our investors and project believers, coins for Team, Advisors, and Bounty and Referral Program will be locked for Six months with a monthly release of 16.66% and will be distributed over the entire month. Monthly distribution will be random as decided by the management to counter the pump and dump effect.





# How will we achieve real Privacy and Security?

- We will achieve real privacy and security by choosing the right algorithm (in this case the **Bulletproof Algorithm**). By refining it in our unique way, we will be able to achieve really high network scalability and keep the highest standards of safety at the same time.
- The implementation of one of the two additional protocols such as **TOR or I2P** will allow our users to enjoy total privacy. Thanks to these two protocols, **none of the transactions can be traced in any way**.
- The implementation of the bulletproof protocol will make the **RAYS Network also immune to attacks from quantum computers**.







# Ultra-Fast Transactions with Zero Fees

- By choosing a multi-algorithm protocol, we will be able to improve it in an appropriate and unique way for us to maximize the scalability of our blockchain network.
- Through the internal voting of our development team, we have unanimously chosen that **our blockchain network will have the zero transaction fee**, which means that all transactions carried out by **RAYS Network** will have negligible costs so that RAYS cryptocurrency may get well adopted at highest possible level.



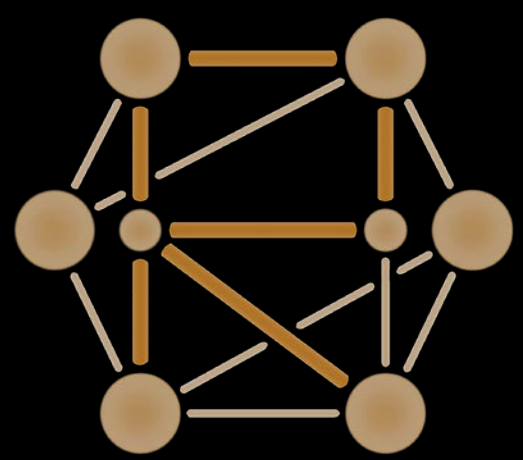




# Customized-Delegated Proof-of-Stake (C-DPoS)

- One of the special features of our project is **Customized-Delegated Proof-of-Stake or C-DPoS**. It is the most decentralized, fast, and efficient protocol known to date. C-DPoS is an extended version of DPoS with inclusion of Trusted and Efficient labels being assigned to best performing Delegates.
- C-DPoS a robust and flexible consensus protocol. Deterministic selection of block producers will allow transactions to be confirmed in an average of just 1 sec.
- **DPoS is the best consensus algorithm** in terms of maintenance costs and security. By implementing this algorithm, our users (RAYS holders) will be able to stake RAYS coins even when they have their wallet turned off. This is a much more pleasant and convenient solution than in the case of ordinary PoS where users (holders) must have a 24/7 wallet open.

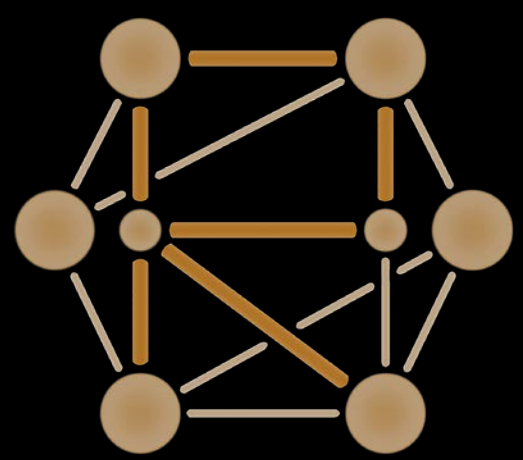




# Quantum Proof

- No one really knows when but one thing is certain that quantum computers may appear soon, which is why we decided to make **RAYS Network** a cryptocurrency immune to attacks from these quantum computers.
- Bulletproof Protocol is immune to quantum attacks.
- Through the use of Bulletproof Protocol, **RAYS Network** will become a cryptocurrency, resistant to attacks by quantum computers and what's more, it will be the quintessence of our project which at this point **RAYS Network** will become the most private and secure cryptocurrency in the world.





- No one has been able to implement his project for daily payments so far. **RAYS Network** will solve this problem. At this stage of development of our project, we already have sufficient knowledge, expertise and have made significant progress to turn this dream into reality.
- We also know that **RAYS Network** together with its nearly free transactions will revolutionize the entire market, therefore we will do our best to release it for our community.







# RAYS Microtransactions

- One of the biggest challenges in the blockchain technology is its potential to be used for microtransactions.
- The main challenge to the adoption of microtransactions is the transaction fee. No one wants to make a payment of 0.01\$ by spending 1\$ transaction fee.
- **RAYS Network** aims to turn this dream to come to reality. With our ZERO transaction fee feature, RAYS will make it possible for microtransaction adoption.
- Bulletproof protocol further facilitates this feature as it has a built in capability to facilitate bundles of transactions in each block.



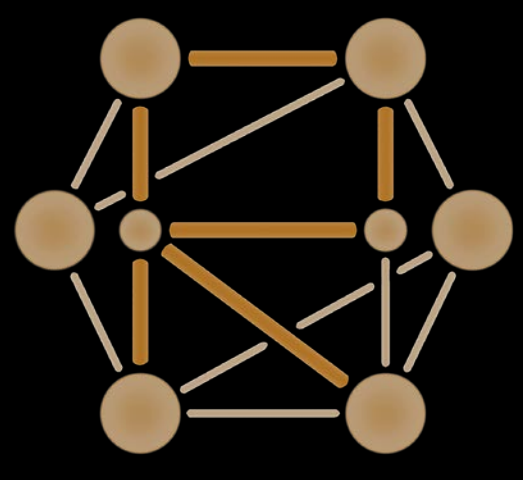




# RAYS Multi-Transaction System

- Imagine a wallet where a user may send payment to hundreds of his contacts using just one click. Have you seen or heard of it before? We don't think so.
- One of our planned blockchain feature is a one-click **Multi-Transaction System** (MTS) where a head of the company can send payments to all of its employees using just one click. There are hundreds of such possible applications of blockchain. Not even limited to digital currency payment, in such blockchain network, one user may send data to hundreds of other users or systems in the blockchain.
- **RAYS Network** is privileged to announce such single-to-multi user transaction system and such Multi-Transaction System will be implemented using Bulletproof Protocol.

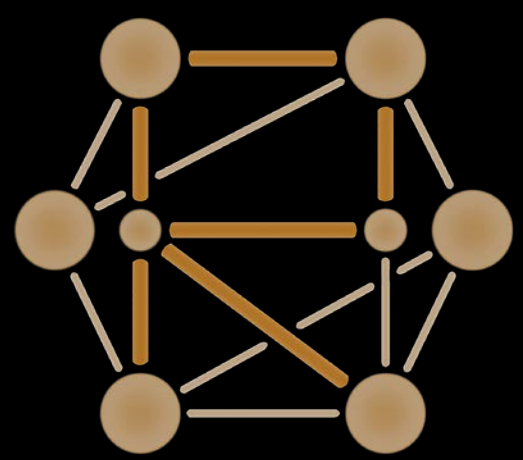




# Types of Wallets

|                         |                                   |
|-------------------------|-----------------------------------|
| Paper & Hardware Wallet | Paper Wallet                      |
|                         | USB, Ledger Nano S, TREZOR, OPOLO |
| Cloud Wallet            | Web-Based or Online               |
| Software Wallet         | Desktop (MAC, Linux, Windows)     |
|                         | Mobile (Android, iOS)             |
| RAYS 3S Wallet          | Safe, Secure, & Smart Wallet      |





# RAYS 3S Wallet - Secure, Safe, & Smart

RAYS 3S Wallet will be a highly secure hybrid wallet with the encapsulation of keys using KEMs on hardware by means of highly advance cryptographic primitives like data protection, hash functions, digital signatures, and OAKMD schemes.

- **Secure**

**Zero Trust:** RAYS Wallet's security will be based on the principle of zero trust and will be protected by NIST approved advanced cryptographic primitives.

**2FA:** RAYS Wallet will have Two Factor Authentication.

**Anti Phishing:** RAYS Wallet will have Anti Phishing Measures.

- **Safe**

**Pin Key:** RAYS Wallet provides currency holders with a high degree of security via the use of a unique PIN key that can be up to 9 digits long.







# RAYS 3S Wallet - Secure, Safe, & Smart

**Total Privacy:** RAYS Wallet will use extra level of protection that doesn't log private information when connecting to network.

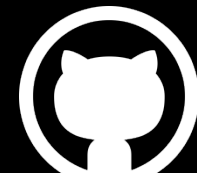
**Recovery:** In the event of lost of the wallet seed, the user can easily backup his/ her wallet credentials via of a "recovery scheme".

## ▪ Smart

**Automatic Disable Feature:** if a person tries to hack/ access the wallet forcefully, it will automatically disable itself after a certain number of failed attempts.

**Accountability:** RAYS Wallet needs physical approval for all internal transactions to be executed.

**Smart KMS:** The smart security policy of a key management system provides the rules that are to be used to protect keys and metadata that the Key Management System supports.

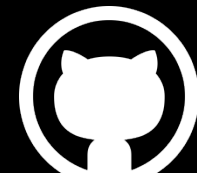


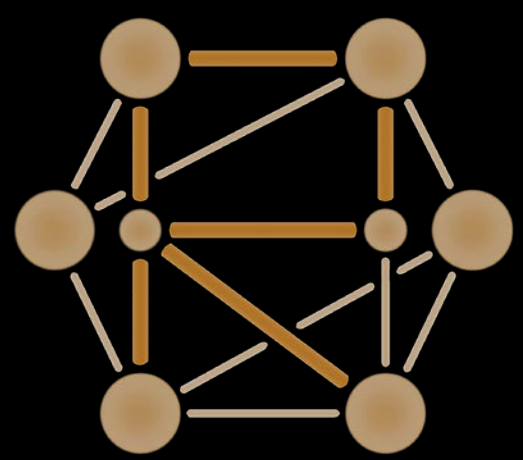




# RAYS Exchange and A.I. Master-Nodes

- Alongside our partnership with leading cryptocurrency exchanges to ensure the availability of **RAYS Network** coins to most of our clients, **RAYS Exchange** will be our exchange whose edition we have planned for Q4 2018/Q1 2019.
- **A.I. Master-Nodes** will be special master-nodes that will improve and further protect our network. **A.I. master nodes** will also help RAYS network to be adopted as a Flexible Blockchain Network (FBN) for switching between Enterprise Privacy Blockchain Solution (EPBS) and General Cryptocurrency User.

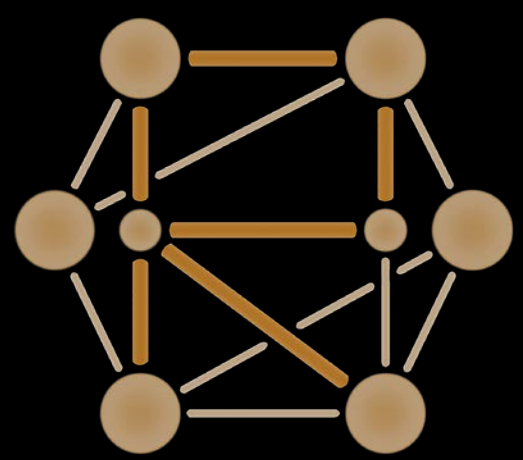




# General Data Protection Regulation (GDPR) Compliance

- The **RAYS Enterprise Blockchain Privacy Solution (EPBS)** is the Blockchain as a Service (BaaS), Open Data and APIs to build on top of **RAYS Network**. This will allow us to perfectly integrate various enterprises. More details about this venture will be presented in whitepaper which will be released in Q3 (2018).
- As a part of our business model, our long term plan includes the development and deployment of a blockchain ecosystem that would be compliant to the latest European Union General Data Protection Regulation (GDPR). This will make **RAYS Network the first and unique blockchain to comply with GDPR**, a distinct feature compared to existing blockchains such as Ethereum and EOS.





# General Data Protection Regulation (GDPR)

- The General Data Protection Regulation (GDPR) (Regulation (EU) 2016/679) is a regulation by which the European Parliament, the Council of the European Union and the European Commission intend to strengthen and unify data protection for all individuals within the European Union (EU). It also addresses the export of personal data outside of the EU. The GDPR aims primarily to give control back to citizens and residents over their personal data and to simplify the regulatory environment for international businesses by unifying the regulation within the EU. When the GDPR takes effect, it will replace the Data Protection Directive (officially Directive 95/46/EC) of 1995. The regulation was adopted on 27 April 2016. It will become enforceable on the 25th of May 2018 after a two-year transition period and, unlike a directive, it does not require national governments to pass any enabling legislation, and is thus directly binding and applicable.



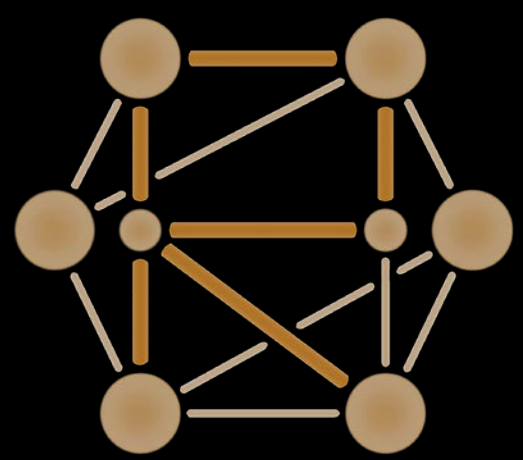




# Our Solution to GDPR and Other Possible Future Regulations

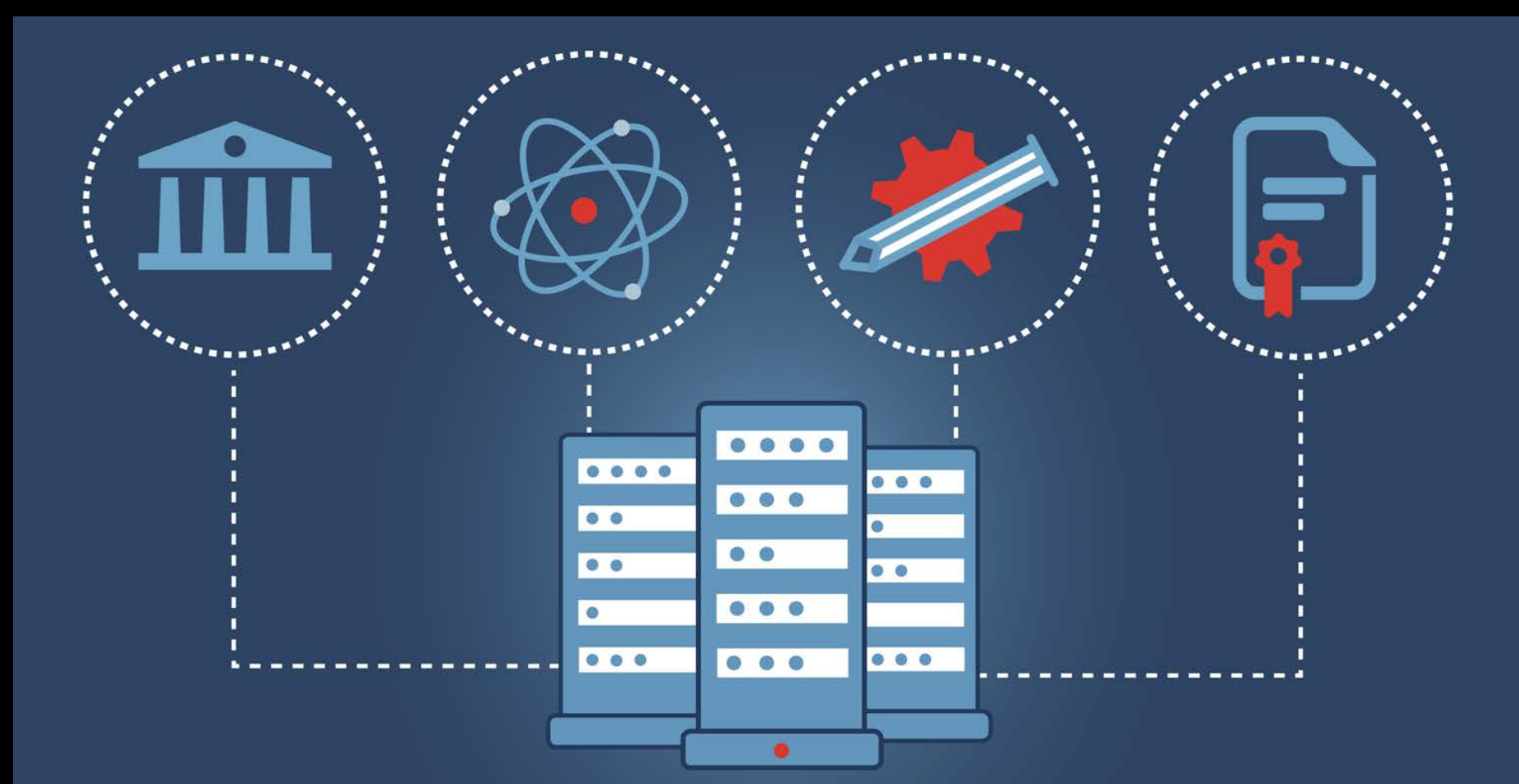
There are many aspects and implications to these kinds of regulations. However most important with regards to data storage and exchange for platforms such as RAYS Network is that it prohibits making personal data public. This implies that storing personal data on a public blockchain actually violates these laws, even when the data is hashed or encrypted, as it still represents the same data. A distributed public database or blockchain therefore can't offer a proper solution, when the data is stored on the public chain. Another aspect of GDPR is that customer data cannot be stored outside of the EU. A worldwide, permission-free, public blockchain like Ethereum is not able to satisfy this regulatory demand. These are some of the reasons why many digital identity and data exchange platforms have failed. They haven't failed due to the technological aspects, but due to not adopting legislation and regulation. We at RAYS Network are ready to take care of this challenge by providing a Data Privacy and Control option to our clients and users.



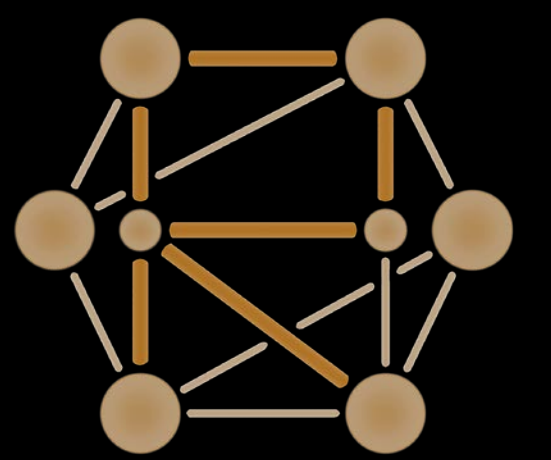


# RAYS Research Laboratory

- Soon after our private sale, **RAYS Network** is keen to collaborate with top-ranked academic institutions for the establishment of **RAYS Research Laboratory**. This will be a network of laboratories all around the world where researchers will collaborate for the research and development of blockchain solutions for various industrial and general use case problems.
- Initial target universities for this research collaboration are Korea Advanced Institute of Science and Technology (KAIST), South Korea; Delft University of Technology, Netherlands; Purdue University, USA; and York University, Canada. We have a vision to expand this collaboration to more academic institutions.







# THE TEAM - RAYS of RAYS Network - Co Founders

RAYS Network is proud to present one of the best teams in the crypto space. Each member of RAYS project is backed by a massive experience and the skills required to make any project successful. These members are truly the RAYS of RAYS Network.



**Tomek Betko - CEO - Head of Business Partnerships**



The brain behind RAYS Network project, Mr. Tomek has researched more than 100 blockchain projects before launching RAYS Network.



**Umar Shafiq - Chief Strategy Officer**



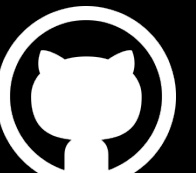
Studying his PhD in Aerospace Engineering, Mr. Umar is the head of blockchain and HR strategy at RAYS Network. He has an impressive know-how of blockchain ecosystems.



**Michal Mikolajczyk - Chief Compliance Officer**



A Master degree in Law, aided by an in-depth knowledge of blockchain and I.T systems, Mr. Michal takes care of the legal establishment at RAYS Network.







# THE TEAM - RAYS of RAYS Network - Advisors



**Ismail Malik - CEO of Blockchain Lab, Editor in Chief at ICOCROWD**



Mr. Ismail Malik is one of the best and top-rated advisors in the world of blockchain. He has advised top rated blockchain projects such as ICON (ICX),



**Daniel Steeves - Editor at ICO Crowd, Board Advisor at SYNCO**



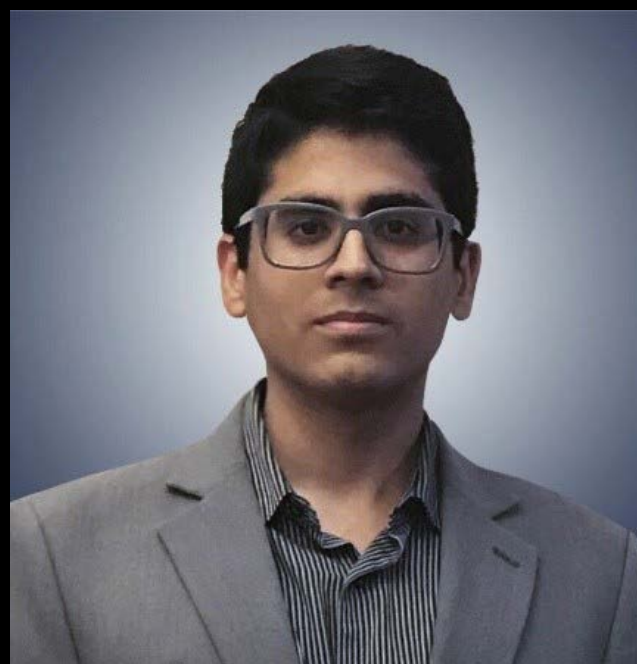
Head of Steeves Solutions, Mr. Daniel is a prominent blockchain advisor and FinTech strategist.



**Badri Narayanan Gopalakrishnan - PhD., Advisor to Governments**



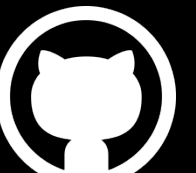
Affiliated with University of Washington, Dr. Badri is the head of RAYS Research Laboratory for collaboration of RAYS Lab with many universities worldwide.



**Kamish Rehmatulla - CEO Arcadia Media Group**



Mr. Kamish is leading Arcadia Media Group which is a network of expert marketing individuals from the world of Blockchain.







# THE TEAM - RAYS of RAYS Network - Advisors



**Dr. Fahad Guraya - Ph.D - CEO at opolo.io**



Having earned a Ph.D in Artificial Intelligence (A.I), Dr. Fahad is the founder of Opolo, the first smart cryptocurrency wallet powered by Artificial Intelligence.



**Simon Emil Bierling - Former Twitter Employee**



Expert in Social Media Marketing, Mr. Simon is backed by outstanding experience from successful ICO campaigns such as TheSelfKey project



**Muhammad Shakil - CEO at BandZ Network**



Mr. Shakil is pursuing his PhD in Network Security from KAIST, South Korea. He is a serial entrepreneur and has a huge experience in the world of Blockchain.

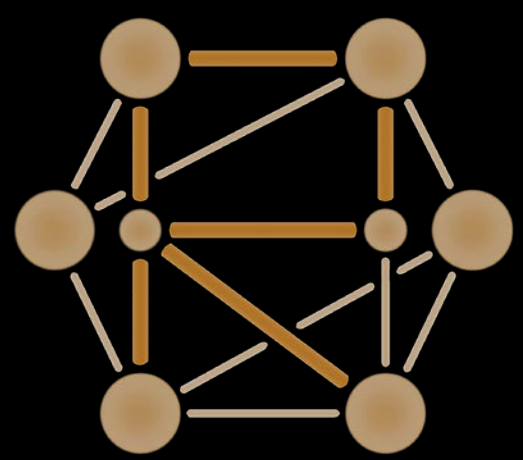


**Dr. Subhajit Chakraborty - Ph.D (Finance), Ph.D Researcher in CS**



Dr. Subhajit is currently pursuing his 2nd Ph.D in Computer Science from University of Massachusetts Lowell, USA. He has a strong knowledge about Blockchain technology.





# THE TEAM - RAYS of RAYS Network - Advisors



## Joss Colchester - Founder and CEO at Complexity Labs



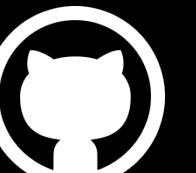
Mr. Joss is extremely well learned and experienced instructor in the field of blockchain, computer science and computer networks. He has over 25000 followers on youtube (channel name Complexity Labs).



## Nadeem Shaikh – Head of System Architecture at Nauticus



Mr. Nadeem is an IBM Certified Blockchain Developer. He is leading as a Technical Officer in multiple projects such as Nauticus and CanYa.







# THE TEAM - RAYS of RAYS Network - Business Partners



## Keiran Hussey - Specialist Blockchain HR Manager



Mr. Keiran has a tremendous experience in Blockchain HR management.



## Daniel Farr - Principal Blockchain Consultant



Mr. Daniel is a principal blockchain consultant and IPO analyst.



## Pankhuri Bansal - Marketing Manager at Bitcoin Gold and Hubo Token



Ms. Pankhuri is a marketing specialist. She has a rich experience in cryptocurrencies marketing forums. She is also a specialist in writing articles about blockchain projects.



## Jason Coles - Community Director at Nauticus



Mr. Jason is an experienced Blockchain advisor. He has helped over 75 different companies develop and release their own cryptocurrency.







# THE TEAM - RAYS of RAYS Network - Business Partners



## Taha Dhailey - DApp Developer and Blockchain Trainer



Mr. Taha is affiliated with Edureka and delivers lectures on Cryptography, Hash functions, Blockchain Mechanism, Bitcoin scripts and Bitcoin Mining, Ethereum and smart contract development, and Hyperledger.



## Umer Aslam - CEO Digitize Coin



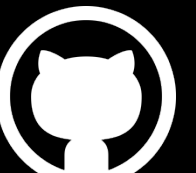
Mr. Umer is a highly skilled individual, a blockchain strategist and is a good combination of expertise in Engineering and Management. He has served IBM.



## Anas Alvi - CTO at AppZilla.in



Mr. Anas is leading a team of 30 developers at AppZilla and has got amazing experience in iOS and android app development.







# THE TEAM - RAYS of RAYS Network - Operations



**Bilal Dastagir - CEO of rayswallet.com, Specialist Cryptographer**



With real-systems based experience and a Master of Science degree in Cryptography from University of Leicester - UK, Mr. Bilal is the chief architect of RAYS 3S Wallet.



**Shahid Karimi - Web and Servers Manager**



Mr. Shahid has over 10 years of experience for a number of endeavors such as Web Development, Web Management and Servers Management.



**Emily Su - Business Strategy Officer**



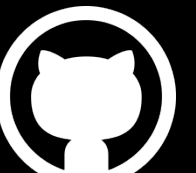
Ms. Emily Su is skilled in financial and quantitative analysis, financial modelling, corporate finance, entrepreneurship and business strategy.



**Sadia Bruce - Business Development Officer**



Ms. Sadia has got a massive experience from Credits Blockchain and Smart Contracts project as a Senior Investor Relations Manager.







# THE TEAM - RAYS of RAYS Network - Operations



**David Bochno - Social Media Expert**



Mr. David holds excellent experience in Social Media Design and Management.



**Tetiana Liulka - Graphic Designer**



Ms. Tetiana has got a rich experience in Graphic Designing. She is the brain behind most of the nice-looking presentations at RAYS Network.



**Philip Amara - Blockchain Strategist**



With his unmatched knowledge in blockchain, Mr. Philip is one of the early believers and supporters of RAYS Network project.







# THE TEAM - RAYS of RAYS Network - Business Managers



## Rodrigo Duarte Freitas - Blockchain Marketing Specialist



Holding a degree in Industrial Design, Mr. Rodrigo is a passionate blockchain researcher and a specialist at blockchain projects marketing.



## Vivek Lalan - iOS Developer and Social Media Expert



Mr. Vivek is skilled in developing mobile applications. He is also skilled at making social media campaigns.



## Michael Gehlert - Blockchain Enthusiast and Legal Advisor



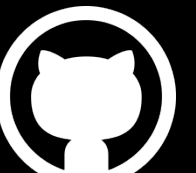
Mr. Michael is a Blockchain-IT-Forensics specialist for law firms using the Blockchain,& is engaged to bring the future decentralized infrastructure of web 3.0 and Industry 4.0.



## Ashonzay Matlock - Blockchain Trainer



A well-rounded Agile Expert with 9+ years of progressive leadership in various sectors of financial services.







# THE TEAM - RAYS of RAYS Network - Business Managers



## Darryl Lo - Founder and CEO at Alpha Blockchain Solution



Mr. Darryl has a tremendous experience of Community Management at famous blockchain projects such as Sentinel Chain and DeepCloud AI.



## Riasad Hadi Hossain - Social Media Expert



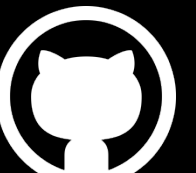
Mr. Riasad has served many blockchain projects such as TraDove Inc., Perhalic, and Poker Sports for various roles such as advising and consultancy.



## Aqib Malik - UAE Business Expert



Mr. Aqib has a rich experience as a Purchasing Manager and Lead Team Member for many projects in and across the UAE.







# THE TEAM - RAYS of RAYS Network - Business Managers



## Rangana Punchyihewa - Community Management Expert



Mr. Rangana is an Electrical Engineer with strong abilities in Electrical Engineering, Blockchain Enthusiast, Crypto-Currency Researcher, and ICO Promoter.



## Luciano DeAngelo - Project Manager at ARCADIA



Mr. Luciano is a young blockchain enthusiast having a multidimensional and multidisciplinary experience ranging from marketing to advising many ICOs.



## Ahmad Dewanto Choirul Huda - ICO Campaign Management



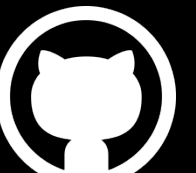
An experienced campaign manager with multiple years of experience, handling bounty management projects including Odem, Realisto, Iagon, Cherr.io, and Streamity.



## Elisha Owusu Akyaw - Marketing Specialist



Mr. Elisha is a marketing specialist and has got a huge experience for marketing many blockchain projects such as Token TV, Token Media and Cleared Funds.







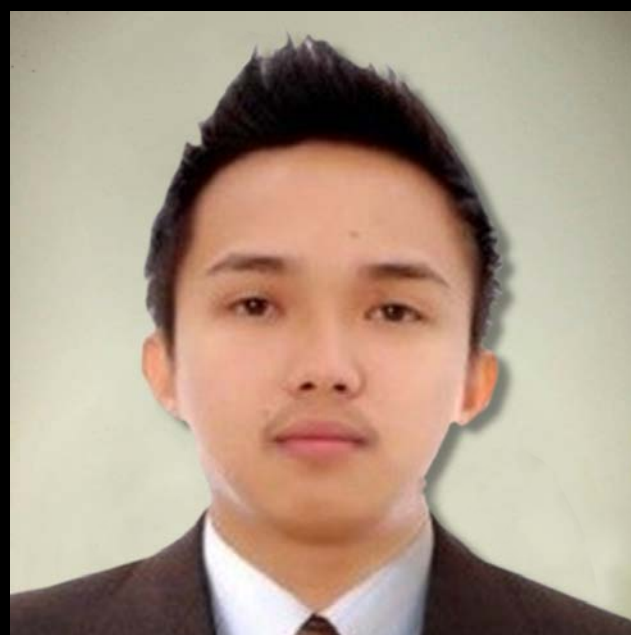
# THE TEAM - RAYS of RAYS Network - Business Managers



## Tian Hua Chen - Programming Specialist



Mr. Tian has over 20 years of experience in programming languages. He is now focussed on using his expertise in blockchain development.



## Guiller Jay Felix - Specialist in Bounty Management



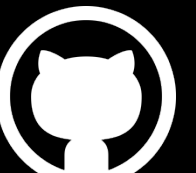
Mr. Guiller is extremely well experienced when it comes to Bounty Management. He has served two successful projects such as Mobilink and SaveDroid before joining RAYS.



## Roland Alexander - Crypto Consultant



Mr. Roland is the Operation Manager at 'Crypto Consultant'. He has also served the famous Helium Pay project as an operation manager.







# THE TEAM - RAYS of RAYS Network - Blockchain Developers



**Dr. Mattias Kruskopf (Ph.D) Blockchain Research Advisor**



Dr. Mattias holds a degree PhD Degree in Physics and is a Post Doctorate at National Institute of Standards and Technology (NIST) USA.



**Sal Kuyateh - Blockchain Developer, Security Auditor, and Analyst**



Mr. Sal has over two years of experience in Blockchain Development and Analysis. He is an expert in C++ programming.



**Nemanja Lazic - Blockchain and Smart Contract Developer**



Mr. Nemanja has over 10 years of experience in Computer Science applications. He is very handful in creating smart contracts and is an expert in Solidity.



**Hassan Hashmi- DPoS Architecture Designer**



Mr. Hashmi is a Gold Medalist in Engineering. He possesses a strong know-how of blockchain with a specialty in Delegated Proof of Stake





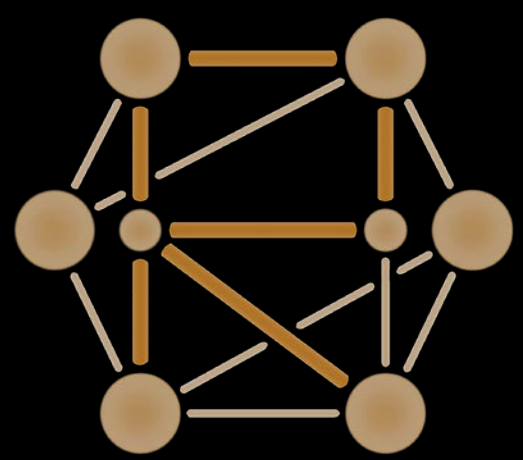


THE TEAM - RAYS of RAYS Network - You

# Join RAYS

If you are a Blockchain Researcher, a Blockchain Developer, a Marketing Manager, a University Professor, or a Business Manager, then RAYS Network is the best place for you to join and be a part of the future. RAYS always welcomes the individuals who intend to contribute to the blockchain technology and the society. Send us your CV at [career@rays.network](mailto:career@rays.network) and we will get back to you instantly.





# RAYS-Shield (XSH) Coin Partnership (Blockchain Development)

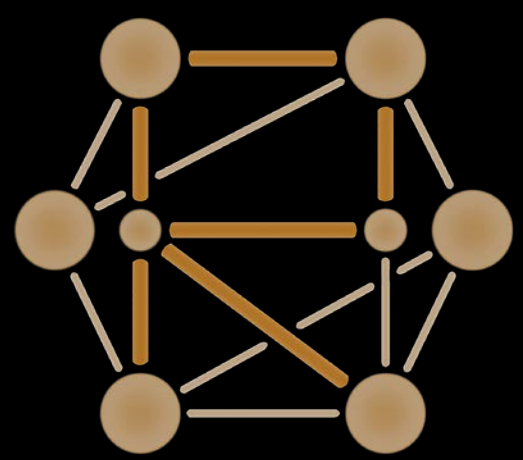


LEADING THE FUTURE OF CURRENCY

# SHIELD CURRENCY

- **RAYS Network** is proud to announce its partnership with Shield (XSH) Cryptocurrency ([www.shieldx.sh](http://www.shieldx.sh))
- The SHIELD currency mission is to provide its users with fast, secure, and anonymous transactions. Developed with five mineable algorithms, no ICO, and no premine, SHIELD is fast becoming a leading player in the peer to peer currency space.
- SHIELD Project's technical team is assisting researchers at RAYS Network to solve various blockchain problems





# RAYS-Complexity Labs Partnership (Blockchain Research)



- **RAYS Network** is proud to announce its partnership with Complexity Labs ([www.complexitylabs.io](http://www.complexitylabs.io))
- Complexity Labs has produced over 300 videos and ebook tutorials on its platform covering a variety of subjects such as Blockchain Technology, Graph Theory, Computer Networks, and Computer Science.
- Complexity Labs has over 10,000 unique visitors every month.
- Over 1.5 million video views has been recorded to date for the topics covered by Complexity Labs
- More than 100,000 video views are recorded every month.
- Complexity Labs has partnered with RAYS Network for the Research of RAYS ecosystem and blockchain technology.



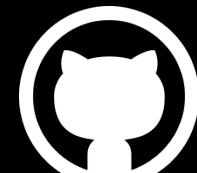


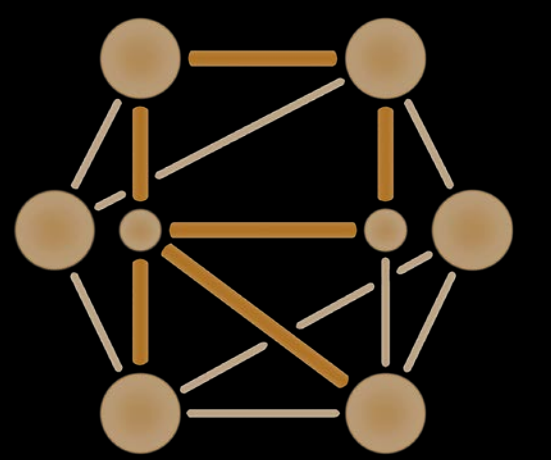


# RAYS-opolo.io Partnership (opolo.io wallets)



- **RAYS Network** is proud to announce its partnership with **opolo.io** for providing the cryptocurrency wallet solutions
- opolo.io is developing state-of-the-art cryptocurrency wallet solutions for many platforms including hardware and software
- opolo.io will be integrating RAYS tokens in all of their wallets offerings
- opolo.io will also provide an Artificial Intelligence (AI) based algorithm to exchange the coins at lowest price
- The mission of opolo.io is to make wallets for every possible platform



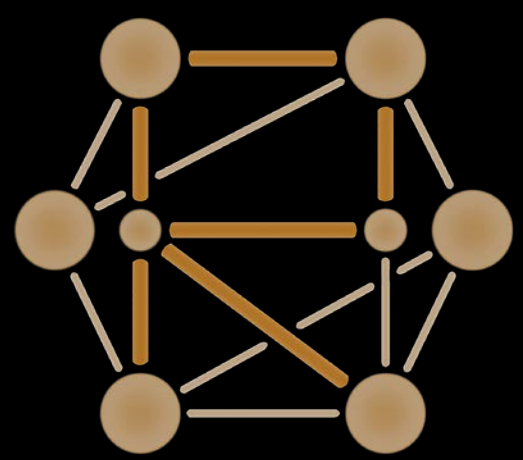


# RAYS-AppZilla Partnership (iOS and android apps)

## Appzilla

- **RAYS Network** is proud to announce its partnership with [appzilla.in](https://appzilla.in) for providing the iOS and android mobile phone apps for RAYS cryptocurrency
- Appzilla has a tremendous experience in developing the mobile apps solutions
- Appzilla has over 200 employees worldwide and has completed over 100 projects to date
- Appzilla has previously served world-famous industrial clients such as 'Coca Cola' and 'Virgin Enterprise'
- Appzilla will develop state of the art and secure mobile apps for RAYS Network providing wallet solutions.





Our Partnerships - You

# Become a RAYS Partner

If you are a company or an enterprise, or an online educational resource, then RAYS Network is the best place for you to join as a partner and be a part of the future. RAYS always welcomes the individuals and partners who intend to contribute to the blockchain technology and the society. Contact us at [contact@rays.network](mailto:contact@rays.network) and we will get back to you instantly.



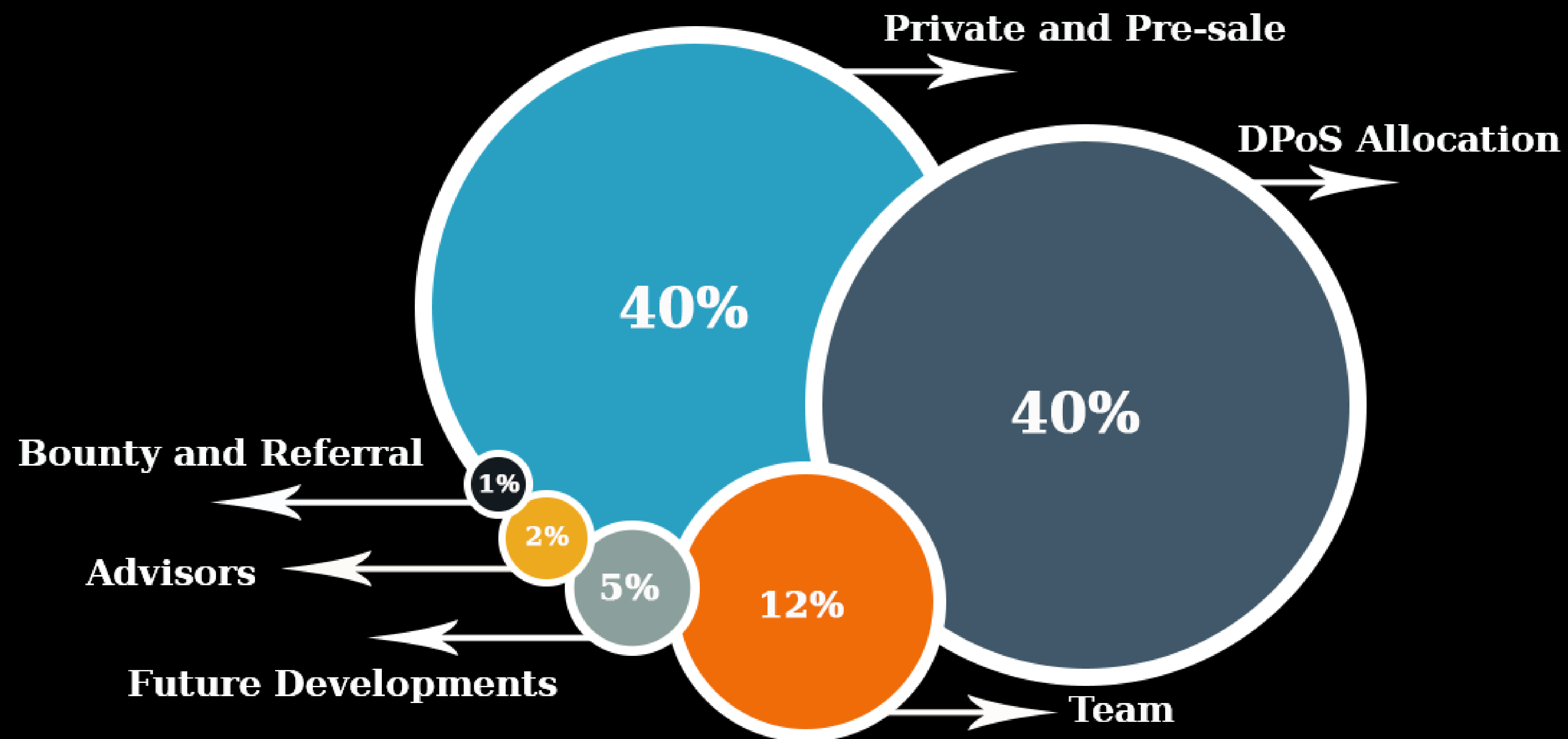


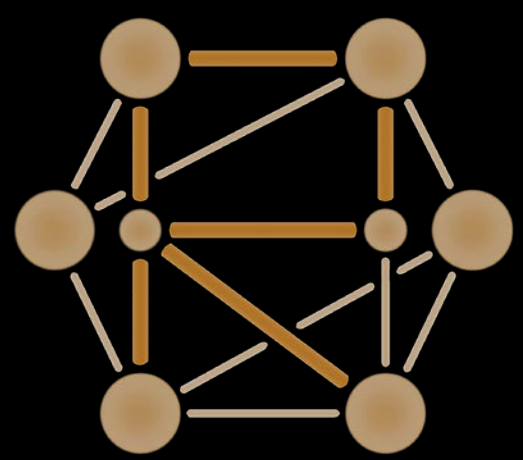


# RAYS Coins Distribution

**Total Supply** = 500 Million RAYS coins

**Initial Circulating Supply** = 300 Million RAYS coins





# RAYS Token Sale Plan

Soft Cap = 3 Million USD

Hard Cap = 15 Million USD

## SALE SCHEDULE

Private & Pre Sale

July –Nov 2018

Public Sale

Dec 2018

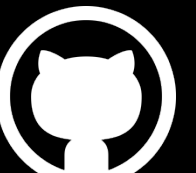
PRIVATE  
SALE  
(30%  
RAYS)

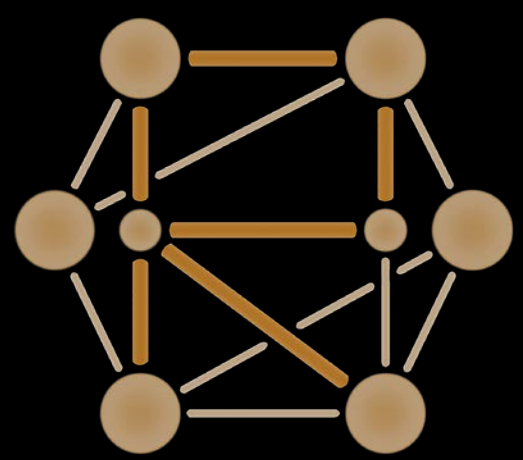
PRE  
SALE  
(30%  
RAYS)

PUBLIC  
SALE  
(50% RAYS)

\* The sale plan mentioned here is subject to market conditions and may vary

\* The investment of the investors will be returned in case the soft cap is not reached





RAYS - Your Perfect Investment Option

# Contribute to RAYS

If you are an VC, a company, or an institution, then RAYS Network is the best place for you to contribute to the future. RAYS always welcomes the individuals and enterprises who intend to contribute to the blockchain technology and the society. At RAYS, your investment is secure and safe. In case the RAYS Network token sale campaign does not reach its Soft cap of 3 Million USD, then your contribution will be returned. Therefore, your contribution at RAYS Network is 100% safe. For more information, contact us at [sale@rays.network](mailto:sale@rays.network) and we will get back to you instantly.

Note: Due to the regulations, contributions from citizens of U.S.A, and China are not accepted at RAYS. For more information, contact us at [sale@rays.network](mailto:sale@rays.network) and we will get back to you instantly.



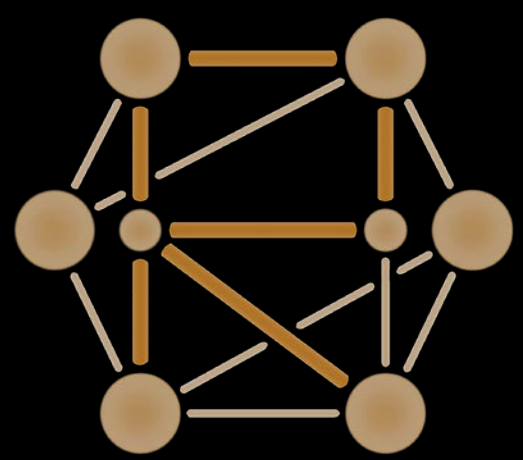




# Summary

- **RAYS Network** is a new blockchain ecosystem consisting of an Enterprise Privacy Blockchain Solution (EPBS), and a Cryptocurrency (RAYS coin) which until now has not been offered on exchanges. RAYS is a Flexible Blockchain Network (FBN) which may switch itself between privacy and speed as per the demand of our clients .
- **RAYS Network** is based on a Customized-Delegated Proof of Stake (C-DPoS) consensus algorithm and Bulletproof Protocol. These algorithms are selected to ensure even better speed compared to the traditional DPoS algorithm.
- Our technical and full whitepaper alongside all necessary information will be made available to RAYS Network community in Q3 of 2018. The contents of this whitepaper may get modified time to time, based on the requirements in the best interest of blockchain development and community needs. We believe in the existence of ready to use products and are trying our best to make it happen with the help of our technically strong and dedicated team members.





# SKYMAP - It's not just a 'Roadmap', It's a 'Road to Sky'

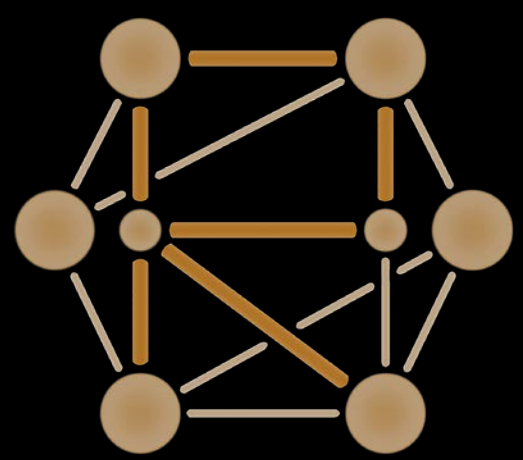
2018  
Q1

- RAYS idea created
- Initial Team Formulation
- Creation of Roadmap
- Official social medias & official email
- Github for RAYS Project developers
- Research and Study of Existing Blockchain Protocols and Algorithms
- Understanding the needs of customers
- Team Discussion and Decisions for Solutions to ensure the requirements of Community
- Pre-Whitepaper Preparation

2018  
Q2

- Website Launch
- RAYS Network Ltd registration (first office in UK)
- RAYS Skymap
- Pre-launch marketing strategy and materials
- Research regulations and compliance procedures
- RAYS Enterprise and Digital ID Core Preparation
- RAYS 3S Wallet Discussion
- Find current projects that will provide valuable functionality to RAYS Enterprise
- Whitepaper 1.0 release
- Preparation for AI Master Nodes Dev & Quantum Proof
- Preparation of Digital ID Implementation
- Understanding Industries and Integration
- Marketing campaigns launched to increase awareness of RAYS Project
- Preparation for Private and Pre Sale
- AlphaMVP – RAYS Simulator 1
- ERC20 Smart Contract for Token Sale
- Smart Contract Audit





# SKYMAP - It's not just a 'Roadmap', It's a 'Road to Sky'



- Private and Pre Sale
- Technical Whitepaper 1.0 release
- Preparation for Exchange Listings
- Preparation for RAYS Cloud Wallet
- FBN Blockchain Development Starts
- Release of Cloud wallet
- RAYS Partnerships
- Preparation of Windows and Linux wallets
- RAYS Enterprise Relocation
- Team Expansion



- First Partnership Announcement
- Release Windows and Linux Wallets
- List on at least one top rated exchange other than IDEX
- Listing on <https://coinmarketcap.com>
- Preparation for RAYS Smart Contracts
- Technical Whitepaper Update 1.1
- Release New Roadmap for 2019
- Preparation for RAYS Mobile App
- Establishment of RAYS office in Asia
- Academic Collaborations and Establishment of RAYS Research Laboratory
- Skymap for year 2019 release

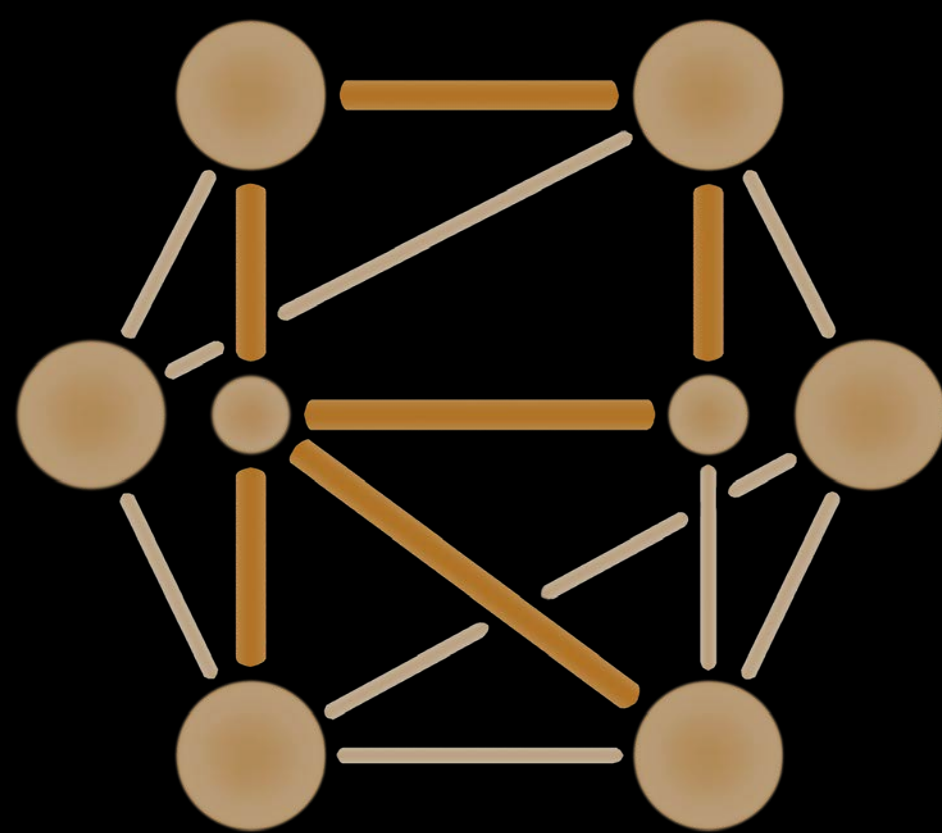


- AI Master nodes
- Quantum Proof
- More Exchanges
- New Partnerships

- RAYS Flexible Blockchain Network (FBN) Performance and Security Audits
- RAYS 3S Wallet
- RAYS Mainnet Deployment
- **And a Lot More to Come**







# Follow RAYS

Click to Join our Social Media Outlets and catch-up the latest updates of the RAYS Project

