



PKIChain pvt Ltd

 | **PKICHAIN**

Problem

Public Key infrastructure (PKI) is vulnerable to the following attacks.

Centralized trust: current PKI trust is centralized, relying on the trust of Certificate Authority

MITM attacks: these attacks are prevalent and harder to detect

DOS/DDOS attacks: denial of service attacks can happen in the centralized PKI.

Transparency and audit: Traditional PKI does not provide transparency and audit to the domain owners.

Solution (Product/Service)

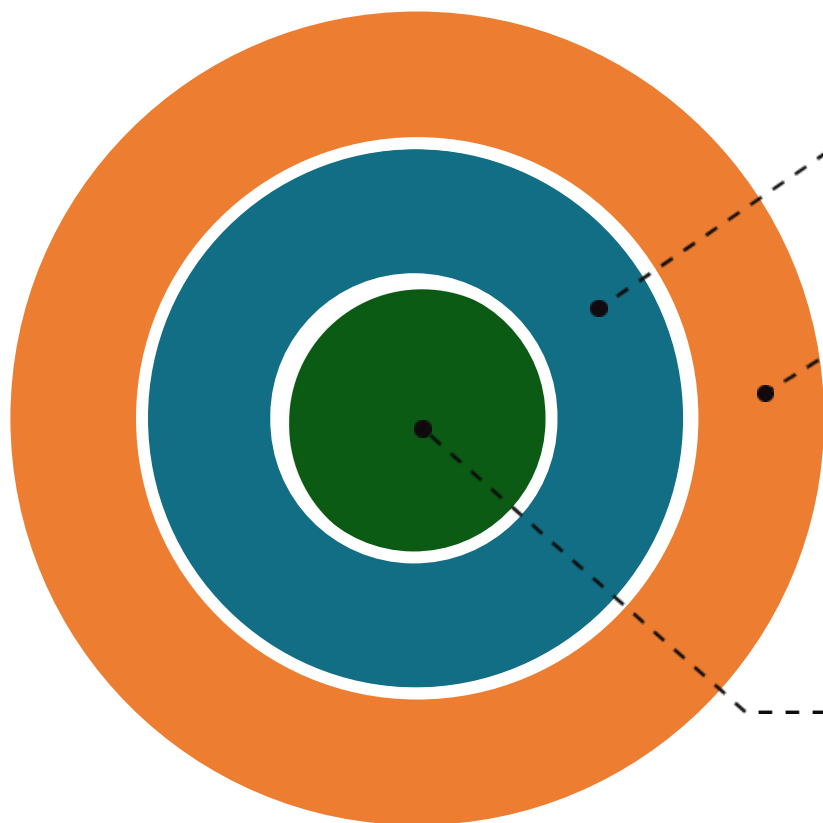


PKIChain is a blockchain-based decentralized certificate issuance, management, and revocation system to issue digital certificates.

We believe decentralized PKI is the future!

	PKIChain
Decentralized trust	Yes
MITM Attacks Detection	Yes
MITM Attacks Mitigation	Yes
Transparency and Audit	Yes
DOS/DDOS Attacks Prevention	Yes
Censorship Resistant	Yes

Target Market



Serviceable Available Market (SAM):

- The Banking, Financial Services, and Insurance (BFSI) industry
- Digital Document signing

Total Available Market (TAM):

- IoT and hardware security modules (HSM)
- Government and Defense
- Healthcare and manufacturing
- Media and Telecom

Serviceable Obtainable Market (SOM):

- **SSL/TLS Certificates**
- **Domain Validation**

9.8 Billion USD by 2026

Market Compound Annual Growth Rate (**CAGR**) of **20.2%**

Market Size

3.9 Billion USD

Market size in 2021

9.8 Billion USD

Market size by 2026





































Compound Annual Growth Rate

(CAGR) of 20.2% during the forecast period

Source: MarketsandMarkets Research Private Ltd.

<https://www.marketsandmarkets.com/Market-Reports/public-key-infrastructure-market-145372975.html>

Competitor Analysis

	PKIChain	Sectigo	Comodo	Digicert	Godaddy	Starfield Technologies
Cost efficient	\$	\$\$	\$\$	\$\$	\$\$	\$\$
MITM Attacks Detection						
MITM Attacks Mitigation						
Transparency and Audit						
DOS/DDOS Attacks Prevention						
Decentralized trust						
Censorship Resistant						

Business Model

Products	Pricing (\$)
DV SSL Certificate with Blockchain Seal	10
Domain Validation Request by CA	1

10K

SSL Certificates
Served

219K

Domain Validation
Requests Processed

\$16K

Projected Revenue in
2023

\$329K

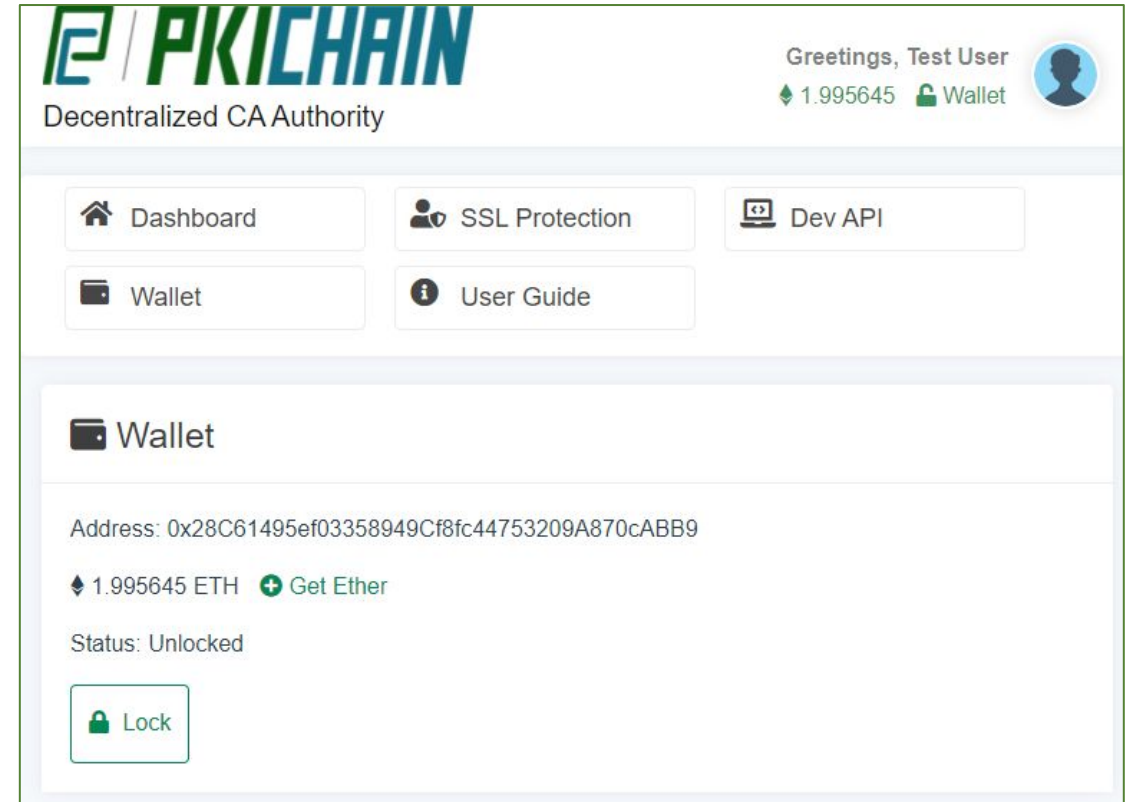
Projected Revenue in
2024



Traction (Product)

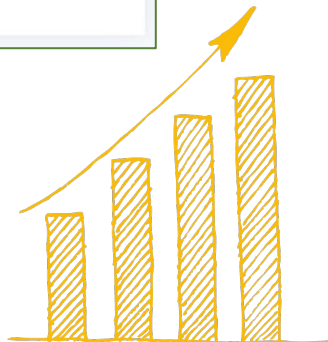


PKIChain Domain Verification

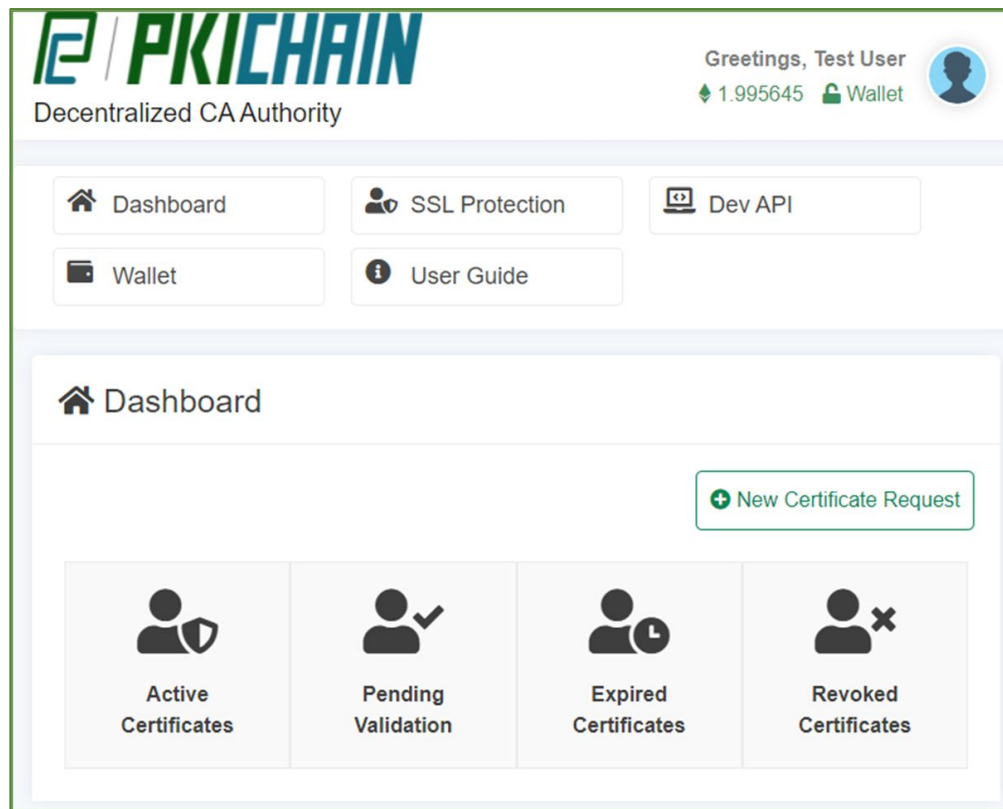


PKIChain Wallet

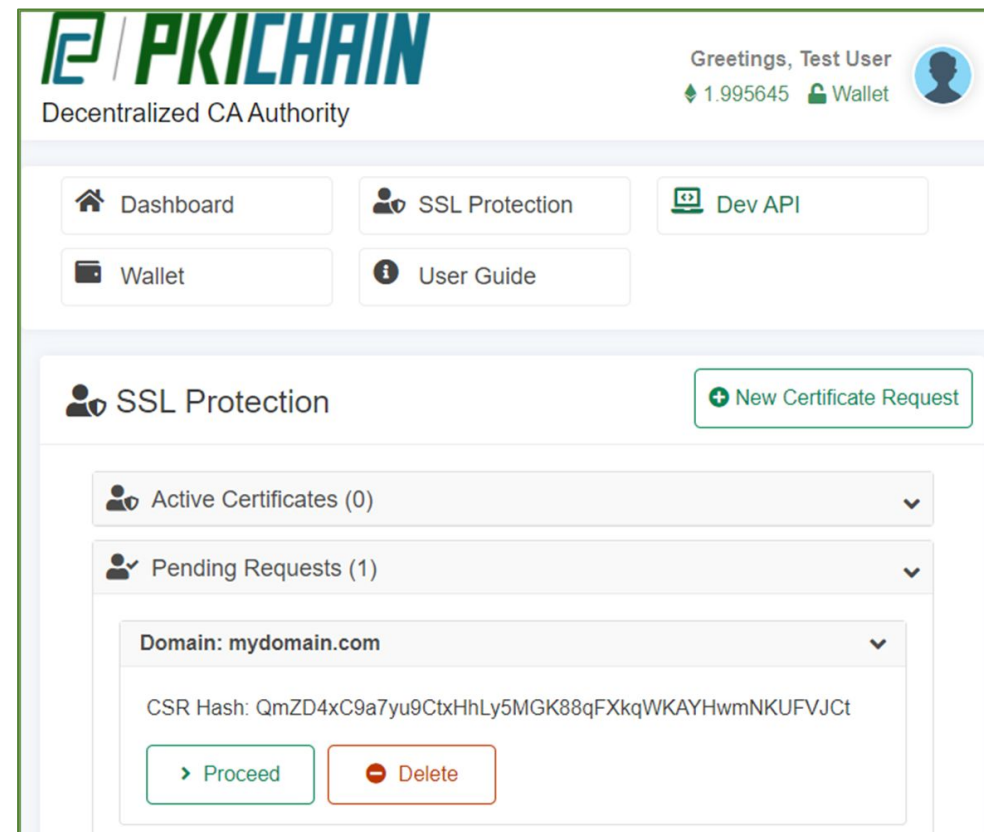
In future roadmap PKIChain also have aim to launch its own stable coin



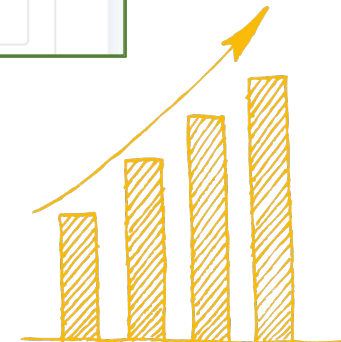
Traction (Product)



PKIChain Dashboard

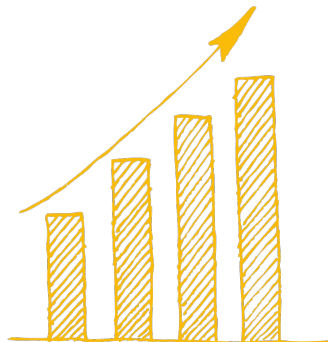
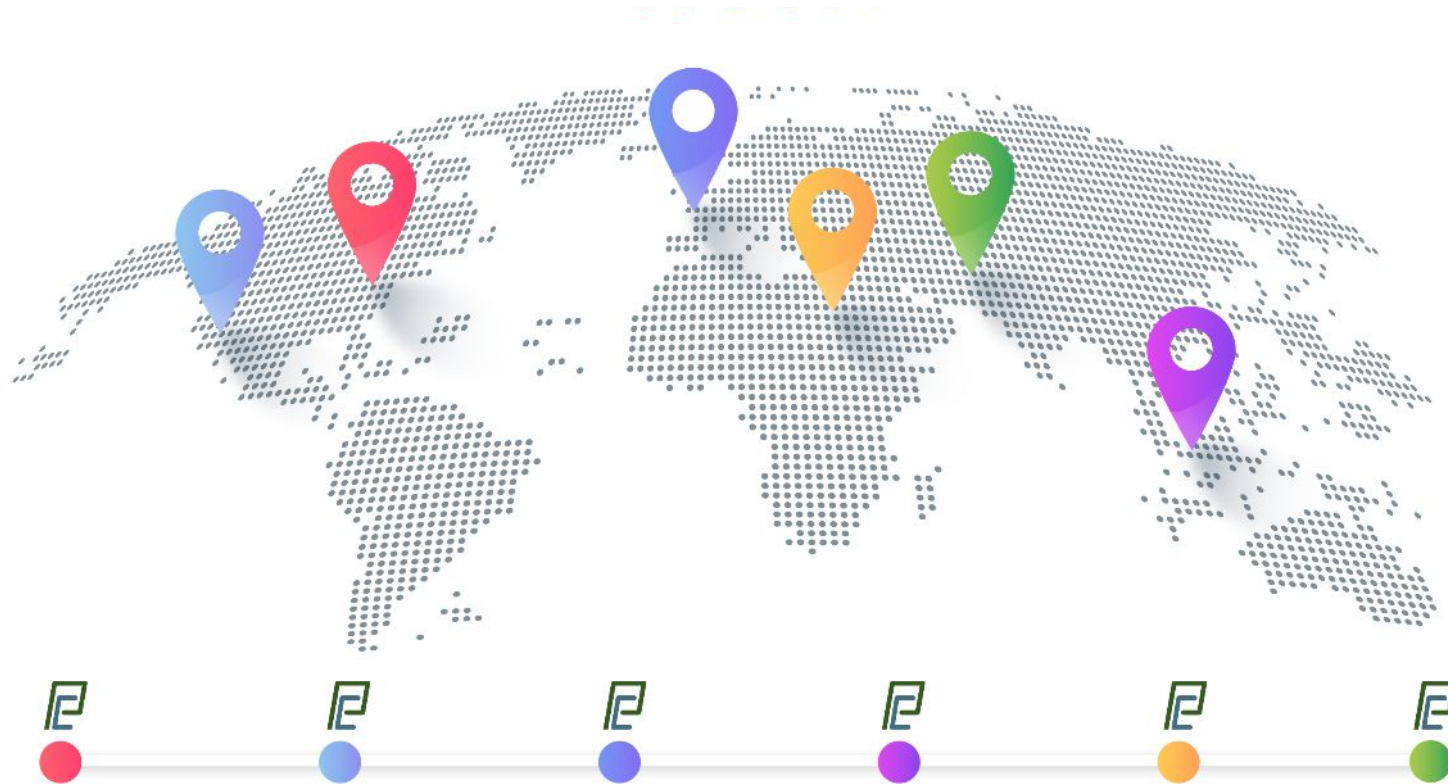


PKIChain CSR Request



Traction (PKIChain server nodes)

PKIChain Worldwide Server Locations



Traction (Peer Reviewed Research)

PKIChain is based on Peer Reviewed Research and Formally Verified Blockchain Certificate Management System. Code base is proprietary.

PKIChain's incentive driven model is pending for US patent.



Traction (Events)

Market Events

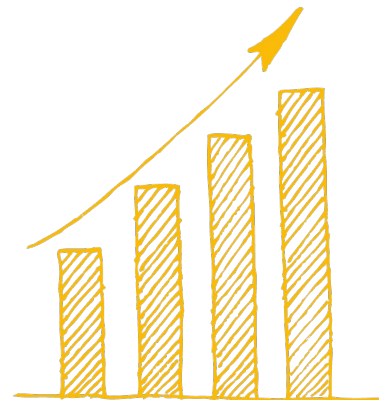


PKIChain product demo is shown in a market event managed by IEEE and National Center for Cyber Security Pakistan.

Product Demos



PKIChain product demo is shown to the one of the world's leading PKI Solutions providers Ascertia (Pvt) Ltd.

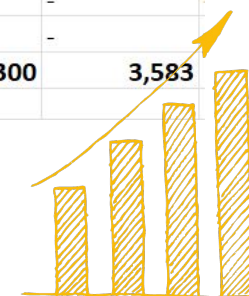


Roadmap

2022	2023	2024
Start	Growth	New Services
<ul style="list-style-type: none">• Research publication ✓• MVP Development ✓• Build Website and Integrations i.e., payment gateway ✓• Codebase formal verification ✓• Deployment on the Blockchain mainnet ✓• Partnering with a Certificate Authority and Licensing ✓• Product demos and partnerships with PKI Solutions providers ✓	<ul style="list-style-type: none">• CA's outreach and demos to the potential clients and partners• Build support system• Development of knowledgebase and documentations for developers• International payment gateway ✓• Integrations modules for cPanel and key Hosting softwares• Partnerships with Hosting providers• PKIChain system upgradation	<ul style="list-style-type: none">• Cover the portion of the serviceable available market• Introducing digital document signing based on PKIChain• Introducing Zero-knowledge proof for code signing and domain validation• Expansion of PKIChain server nodes

Financial Projections

PKIChain Pvt Ltd									
Starting no. of certificates	10	starting no. of requests (Enterprise)	200						
cost per SSL	\$10	cost/request (Enterprise)	\$1						
	1 Month	2 Month	3 Month	4 Month	5 Month	6 Month	7 Month	8 Month	9 Month
SSL Certificates	10	30	60	100	145	201	267	341	413
Requests pay-as-you-go (Enterprise)	200	600	1200	2004	2906	4010	5333	6827	8260
Revenue	300	900	1,800	3,006	4,359	6,015	8,000	10,240	12,390
Growth Rate	nill	200%	100%	67%	45%	38%	33%	28%	21%
Costs	50	150	300	501	726	1,003	1,333	1,707	2,065
Gross Profit	250	750	1,500	2,505	3,632	5,013	6,667	8,533	10,325
- HR (Blockchain dev and DevOps)	2000	2000	2000	2000	2000	2000	2300	2300	2300
- RnD	600	600	600	600	600	600	600	600	600
- Marketing Expenses	50	150	300	501	726	1003	1333	1707	2065
- Administrative expenses (office)	280	280	280	280	280	280	280	280	280
- Blockchain Network Cost	21	63	126	210	305	421	560	717	867
- Domain and website cost	25	25	25	25	25	25	30	30	30
- Customer Management and Care	400	400	400	400	400	400	600	600	600
- Server Costs	0	0	0	0	0	0	0	0	0
Operating Expenses	3376	3518	3731	4016	4337	4729	5703	6233	6742
Operating Profit	(3,126)	(2,768)	(2,231)	(1,511)	(704)	284	963	2,300	3,583
- Licenses	5000	-	-	-	-	-	-	-	-
- Taxes	-	-	-	-	-	-	-	-	-
Net Profit	(8,126)	(2,768)	(2,231)	(1,511)	(704)	284	963	2,300	3,583

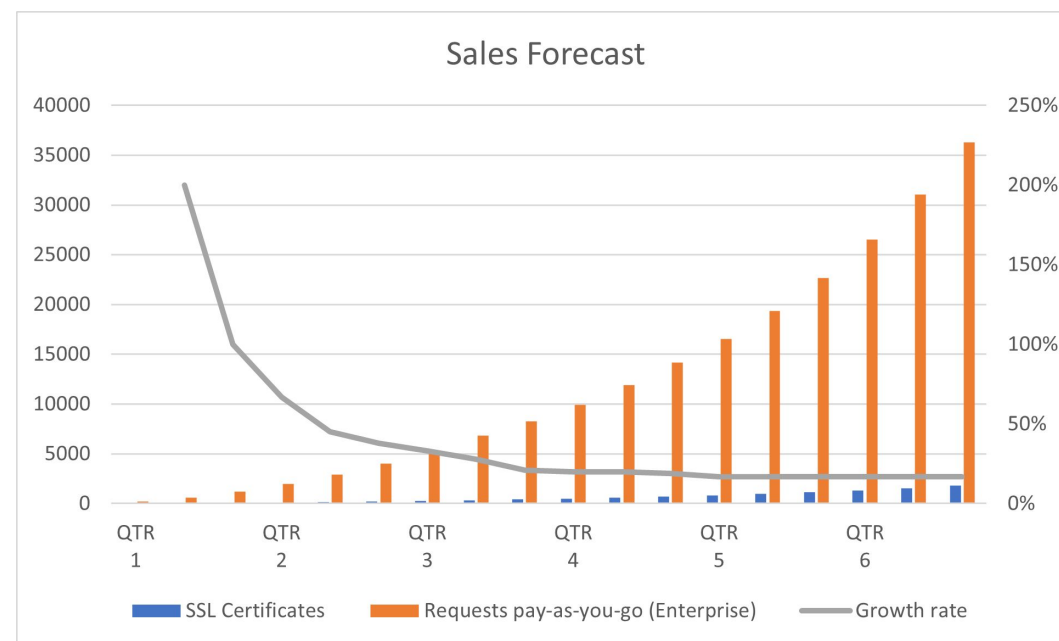


Financial Projections

Cash Requirements

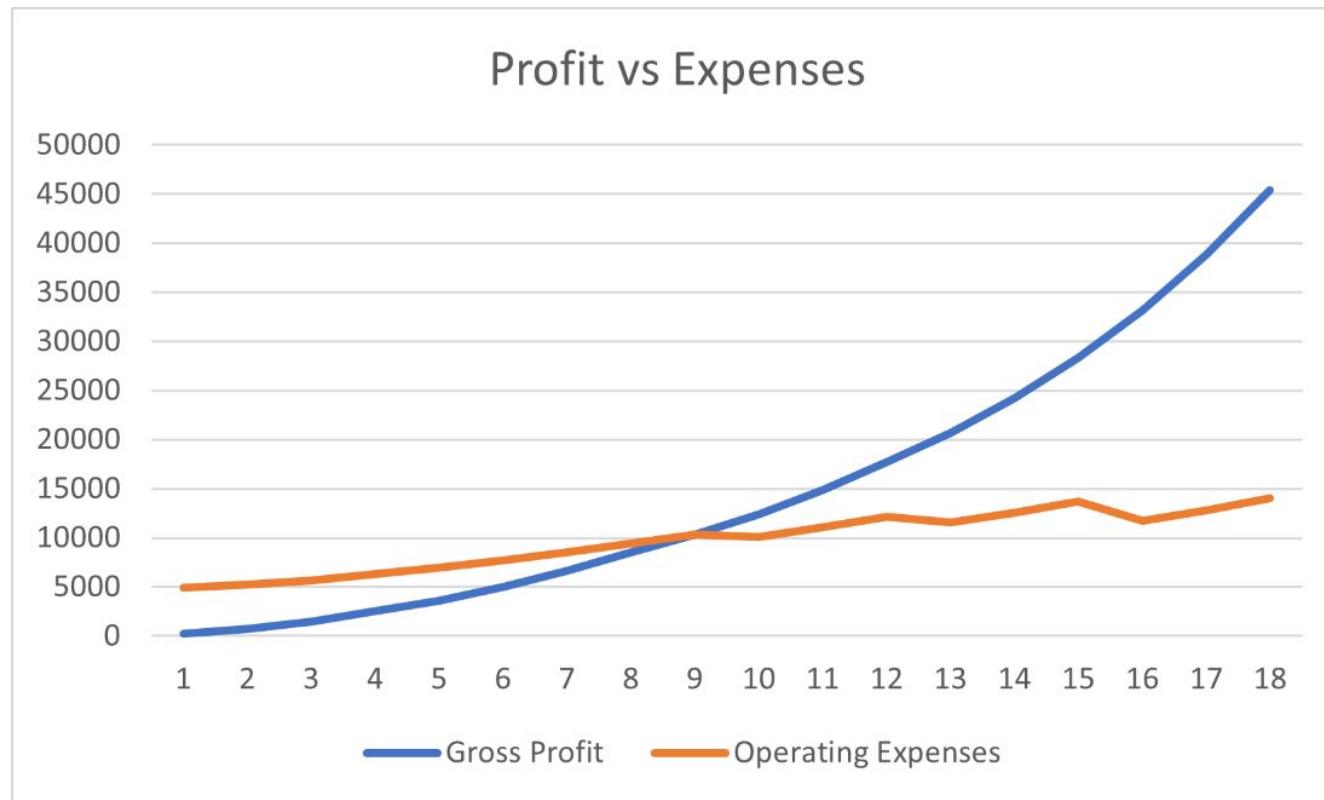
6 Months Cash Requirements		12 Months	18 Months
Costs	2,730	14,095	38,119
HR (Blockchain dev and DevOp E	12,000	13800	15000
RnD	3,600	4500	3600
Marketing Expenses	2,730	9600	13193
Administrative expenses (office s	1,680	1680	1680
Blockchain Network Cost	1,147	5920	16010
Domain and website cost	150	180	180
Customer Management and Care	2,400	3,600	4,200
Server Costs	-	0	840
Licenses	5,000	0	0
- Revenue	16,380	84,573	228,712
Cash burn (six months)	15,057	(31,197)	(135,891)
Cash at hand	10,000	0	17,702
Cash burn	15,057	(31,197)	(135,891)
Working capital	0	0	0
Cash requirements	25,057	(31,197)	(153,593)

Sales Forecast



Breakeven Analysis

Breakeven analysis given the projections



Team

Dr. Muhammad Umar Janjua

Cofounder and CEO PKIChain

Dr. Umar is leading the PKIChain, he has extensive experience in the domain. He worked at Microsoft for 10 years, he was in the response team at Microsoft when industry's most notorious DigiNotar hack occurred. He has many patent contributions, publications at Microsoft and beyond. He has deep understanding and connection with the problem PKIChain is solving.

Zubair Khalid

Cofounder and CTO PKIChain

Zubair Khalid has deep passion for the Blockchain technology, he has introduced the incentivization scheme of the PKIChain model. He has the vision to democratize the PKI ecosystem where every communications is secure and free from interference of powerful entities.

M Danish Bilal

Cofounder and COO PKIChain

M Danish Bilal is the software research engineer and has master's degree in data science. He has specialization in Blockchain and information security. He has keen interest in distributed technologies and making the systems more transparent. He strongly believes that every person has the right to privacy however we are still in the way realizing these goals. He is committed in making the PKIChain a global success story.

Thank you!