

INTRO

MARKET OVERVIEW KEY NEWS

- Tornado Cash
- Advocacy
- Privacy policies
- Privacy coins ban
- Zero-knowledge hype

FINANCIAL STREAMS

- Investments
- Cryptocurrencies
- Traction
- Other funding options

BUIDLers

- Use-cases
- Trusted setups
- Github stats
- Ecosystems
- R&D
- Hackathons
- Governance

RISKS

- Political Polarisation
- Anonymity
- Self-security
- Configurable privacy vs Consent

OPPORTUNITY

- Security
- Biases
- Network states
- Legal defence

CONCLUSION

END NOTES

There is also the important broader philosophical case for cryptocurrency as private money: the transition to a "cashless society" is being taken advantage of by many governments as an opportunity to introduce levels of financial surveillance that would be unimaginable 100 years ago.

Cryptocurrency is the only thing currently being developed that can realistically combine the benefits of digitalization with cash-like respect for personal privacy.

- Vitalik Buterin, Ethereum co-founder



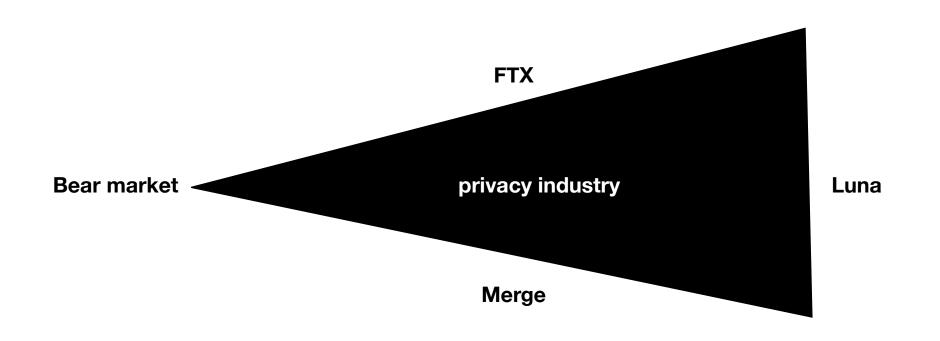
Introduction

This report's initial idea was the desire to structure the overall picture of the web3-privacy market. Explore hundreds of independent companies and their connections -present as an ecosystem with the potential for unity and collaboration.

Why is it important now? Regulators actively centralise the market. Moreover, while multiple agents are watching you, exchanges and wallets give you a sense of freedom of choice ("to KYC or not to KYC"). Analytics companies own & use your data without permission. Leaked news about the regulation of private cryptocurrencies and the Tornado Cash sanctions are a clear examples of why privacy needs advocacy.

Today, 300+ companies developing private solutions worldwide have a unique chance to unite and take responsibility for the original blockchain decentralisation ethos.

Privacy has been overshadowed by the hacks, scandals & financial crashes that happened last year.



Exception: the OFAC sanctions against Tornado Cash. Even then, newsbreak did not last long in the media and social networks.

Media analysis shows that privacy is a niche topic within an industry.

SBF saga has dozens of millions of views on YouTube



The biggest privacy-related case has ~1,5M views



X

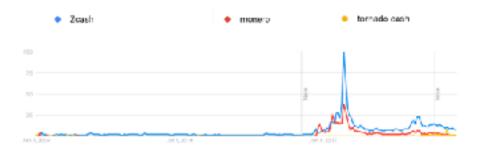
NFT has hundreds of millions of views



Privacy coins have the highest views because influencers promote them as investments



Privacy attention peak was 5 years ago.





Rare ecosystem bet on privacy

	Cosmos	Near	Polkadot	Avalanche	Polygon	Solana
Total amount of projects	266	998	550	304	1703	1500
Privacy projects	18	28	13	5	14	7
%	6.7	2.8	2.3	1.6	0.8	0.4



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MARKET OVERVIEW

300+ projects are building privacy solutions

\$1B+ funding committed in 2022 to projects & ecosystems

110M+ times privacy apps were downloaded from Google Play

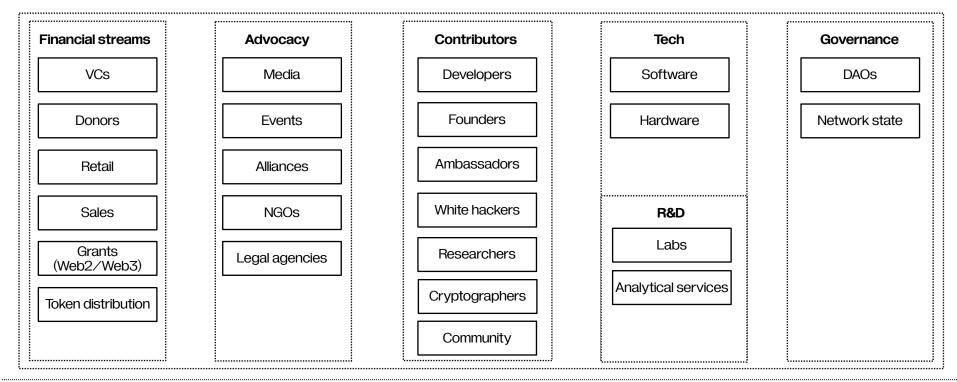
300+ vacancies exist in the market

727,681 Zcash total addresses

4,300 contributions across 177 countries participated in Manta Network's Trusted Setup

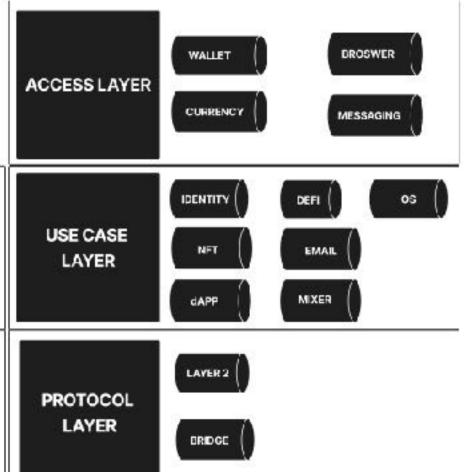
The privacy market is fragmented. Monero or Zcash holders are attacking everyone else & pro-compliance projects devalue anonymous activities.

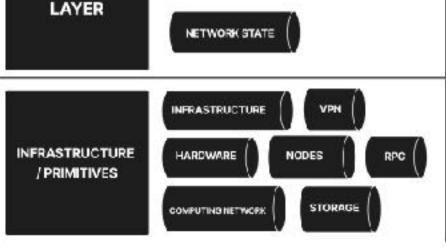




GOVERNANCE

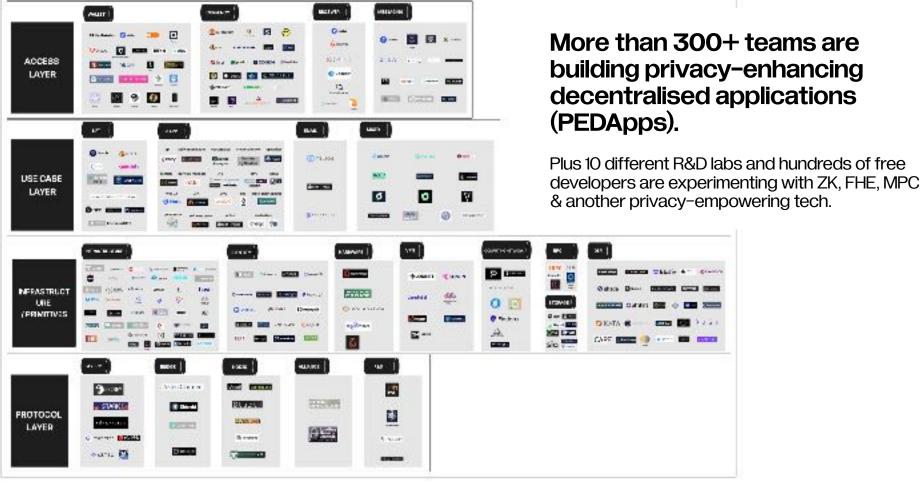
The market is moving towards a fullprivacy stack from network level privacy to selective identity disclosure.





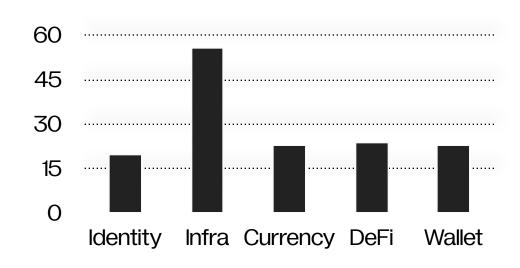
DAO

\Market overview\Market\



Developers are focused on building

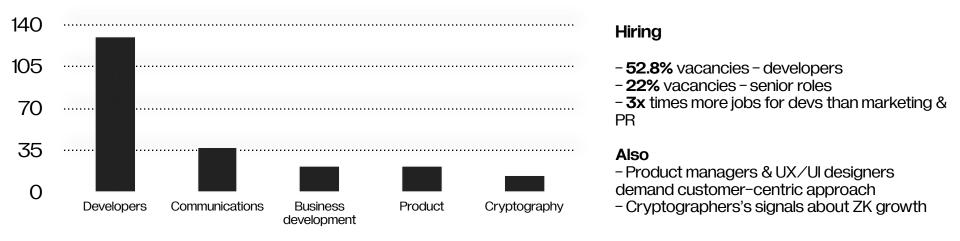
infrastructure, DeFi solutions, Decentralised identity.



Note: web3-identity is private by default. But it doesn't mean that developers share privacy-centric values.

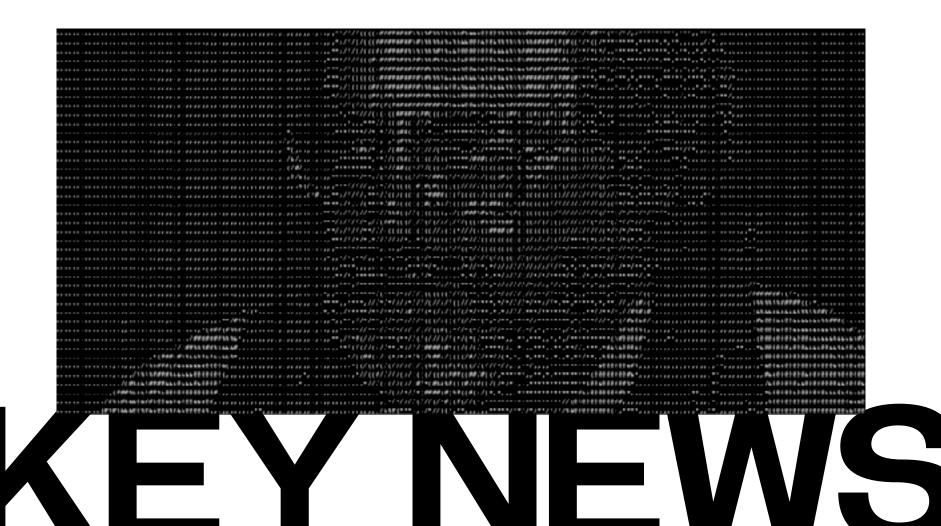


Time to build! 300+ open vacancies exist in the market.



Note: some companies decentralise teams via community engagement, builders programs & grants (Mina, NYM, Secret Network etc)





\Market overview\Key News\

<u>regulation</u>	legal	surveillance	<u>regulation</u>	<u>R&D</u>
Tornado cash x OFAC	Alliances	Metamask & Uniswap sensitive data aggregation backlash	Private currencies potential regulation	ZK advancement



Tornado cash sanctions & industry censorship had a chilling effect on the industry









Network censorship showed high dependence on US regulations.

Both market players & service providers like GitHub took actions to protect themselves from sanctions. Moreover, some privacy solutions executives became "red-flagged"

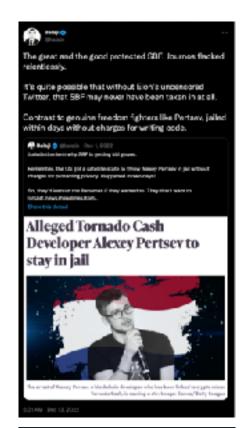
Censored-centric services: Github. Infura. Oasis. Alchemy Platform. Circle.







Open-source development advocacy consolidated unexpected players from the Russian-dev community & crypto lawyers to Balaji





https://setalexfree.nl



Tornado Cash brought greater issue

centralisation (regulation, compliance)

de-regulation & de-centralisation

In other words: how could decentralisation be accomplished within active censorship?



1,000 Solana validators go offline as Hetzner blocks server access

by Osato Avan-Nomayo









2 privacy-centric alliances were launched at Devcon Bogota

Universal Privacy Alliance



https://privacyalliance.com

Leading Privacy Alliance



www.leadingprivacy.com

Members

UPA (10): Nym, Manta Network, Secret network, Orchid, Electric Coin. Co, Status, Oasis Foundation, Railgun_, Aleo, Aztec **LPA (5)**: Blockwallet, Dusk Network, HOPR, Omnia, Panther protocol

Alliances commit to market advocacy

- Legal Fund
- Joint public statements
- Foster R&D
- Invest in education

Next events

UPA Feb 24th to March 5th at ETH Denver **LPA**

- Feb 28 ETH Denver
- 27–30 April ETH #Privacy Hackathon Istanbul
- 13-14 September Token 2049



Whistleblowers & long-term privacy advocates are already supporting the industry.

Edward Snowden participated in Universal Privacy Alliance & NYM launches



https://www.voutube.com/watch?v=i4oklUPOb_c

Chelsea Manning joined the NYM team



https://www.politico.eu/article/chelseamanning-crypto-token-nym-technologies-privacy Kurt Opsahl from EEF closed Devcon & contributed to ETH Brno



https://www.youtube.com/watch?v=zZybrj8vTNc

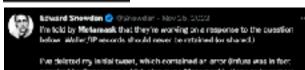




PRIVACY POLICIES

The community supported by Edward Snowden sent a signal to everyone trying to collect personal data – it's against decentralisation ethos.









NOV22-2002

Uniswap's new privacy policy sees backlash from decentralization buffs

Uniswap newly released privacy policy comes in light of the FTX crisis, an event that has shined a specified; on the need for state parents.



Collective action forced companies to listen to the community.



we do not collect and store personal data, such as first name, last name, street address, date of birth, email address, or IP address.

https://uniswap.org/blog/commitment-to-privacy

Dualscas

ConsenSys to Update MetaMask Crypto Wallet in Response to Privacy Backlash

The firm clarified its data-sharing practices and said it will rebuild idetailasis's settings page to addressuser concerns.

https://consensys.net/blog/news/consensys-data-retention-update/

Note: Uniswap & ConsenSys made PR statements but not direct actions.





"The European Union could ban banks and crypto providers from dealing in privacy-enhancing coins such as zcash, monero, and dash under a leaked draft of a money laundering bill" - Coindesk

U.S. to announce international cryptocurrency action -statement

Reuters

Not the first time privacy coins could be sanctioned & banned from the leading exchanges, compliant services & the media.

But this time ban could become more thoughtful from a regulatory perspective.



Zero-knowledge cryptography became a "silver bullet" for almost every privacy case imagined

Carlos Guzman

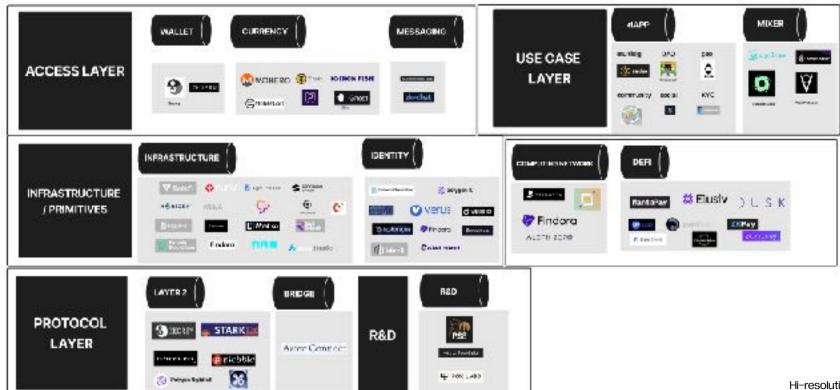
2023 will mark the beginning of a Cambrian explosion of zkrelated apps across privacy, identity and bridging, among other things. There will be a large industry focus on developing credible forms of zk-compliance as privacyrelated applications draw regulatory scrutiny. I believe we will look back upon the industrialization of ZKPs* as a key milestone in the wide enterprise migration from private to public blockchains.

-Paul Brady FY Clerks of

https://minaprotocol.com/blog/zkreport-2022

Blockchain Leader

20% of all privacy-enhancing solutions use ZK



A research approach to ZK leads to imagining the whole ZK stack.

ZK social stack

There are many parallel efforts to reimagine and rearchitect online social systems to be more decentralized, permissionless, and censorship-resistant. Though different in their approaches, all these initiatives are creating basic building blocks for identity and reputation, then playing with different ways to stack the structure.

This helps to broaden ZK implications & approach them from a helicopter view (interconnected ecosystem).



The majority of ZK solutions are working on scalability, putting privacy aside.

Examples: privacy is a secondary effort for Polygon or StarkNet.

StarkNet is picturing L3 & L4-enabled privacy.



L3s and Fractal Layering

Multiple L3s will ride on top of an L2. Moreover, additional layers (L4, etc.) may be built upon L3 for fractal layering solutions.

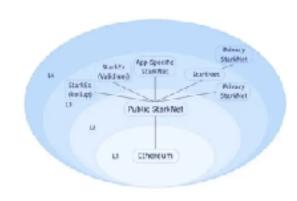


Diagram 1 & layered ecosystem





There are multiple sources of income for privacy projects.

Investment track			Community		
VCs	Grants	Donations	TGE	Trading	

Commercial
B2B / B2C Sales

INVESTMENTS

VCs are interested in privacy.

Aleo raised \$270M total this year, and projects like Aztec or Espresso Systems closed their new rounds amid the bear market Aleo Raises \$200M in Series B to Expand Private-by-Default, Blockchain Platform



Business

Espresso Systems Raises \$32M to Bring Scaling and Privacy to Web 3

"Privacy loves company"

Last year NYM & Secret Network announced partners' commitments to support builders.

Savvy investors know: the stronger the ecosystem - the higher interest within retail investors & people using utility tokens.

Business

Privacy-Focused Blockchain Secret Network Announces \$400M in Funding

The project includes a \$225 million ecosystem fund and \$175 million accelerator pool.

Nym Technologies raises \$300M to advance internet privacy, sending token price up

The finial innovation fund will support research on misnets and privacyenhancing technologies.

1.3B both VC & retail investors supported the development of the privacy tech

Web3 privacy funding			Ecosystem fund	
\$298M	series B	Aleo	\$400M	Secret Network
\$273M	saries D	ANWARATS 💠	\$300M 🕻	NYM
\$136.7M	retali	Mina	\$160M (Oasis Foundation
\$119JM	series B	O Aztec	\$100M	Findora
\$107.4M	series B			
\$100M	retail	Status		
\$58M	retail	Secret Network (ex-Entyme)		weh3
\$55.6M	retail	NYM 🔤		privach
\$46M	retail	😑 Masik		into
\$47.8M	retali	Orohid Labo		
€35.4M	sood	Manta Network		

Still Privacy-centric investments play relevantly small role within whole Web3 investment landscape - around 4-5%.

Q4 2022

1 Web3/NFT/DAO/Metaverse/Gaming	31%
2 Trading/Exchange/Investing/Lending	13%
3 Infrastructure	7%
4 Payments/Rewards	7%
5 Tokenisation	7%
6 DeFi	6%
7 Privacy + security	4%

Q3 2022

1	Web3/NFT/DAO/Metaverse/Gaming	41%
2	Trading/Exchange/Investing/Lending	10%
3	Enterprise Blockchain	8%
4	DeFi	7%
5	Infrastructure	6%
6	Privacy + security	5%



Funds diversify their privacy-portfolios investing in different projects at the same time.

POLYCHAIN CAPITAL

Aleo, Anoma network, Manta Network, NYM, NuCypher, Oasis Labs, O(1) Labs, Webb, Disco, Thesis, Foundation, =nil;, Light Protocol

FENBUSHI

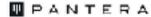
CAPITAL +. gf.network
Secret, Manta, Automata, Lit, Zcash, Sia, NuCypher, Status,

Polychain is an absolute champion – 13 privacy projects.

Fenbushi + gf.network – 9 projects.



Aztec, Keep Network, Starkware, Mina



Mina, Oasis, Starkware, Zcash



post-ICO/IDO/TGE landscape

Retail fundraising is a common practice in the market. Projects from Status to Secret (earlier – Enigma) managed to deliver post–ICO products & scale decentralised tech.

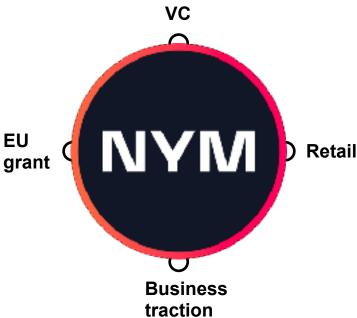


Privacy services diversify funding

Privacy builders know it's a "red flag" industry where communal funding isn't enough to sustain long-term growth.

NYM example

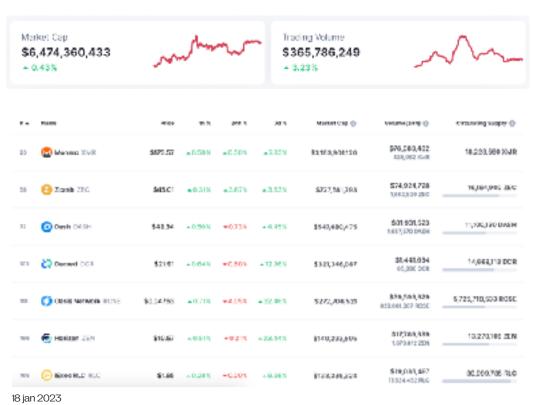
- receive initial money from the EU
- attract VCs
- outreach retail investors
- experiment with the token business utility
- empower ecosystem growth with the token supply





CRYPTOCURRENCIES

The bear market hit privacy coins trading volume & capitalisation.



Economy shed more than 54% against the U.S. dollar as it dropped

from \$11.7B in Jan. 2022 to the current \$6.4B.

NFT category Market Cap, for example, is \$16,34B





Monero still is the largest privacy coin by market cap.

Jan. 2022

XMR's price was around \$202.97 per unit and it had a market valuation of around \$3.66 billion on Jan. 19, 2022.

Today, XMR is exchanging hands for around \$174.05 per coin and it has an overall market capitalization of around \$3.17B.



Zcash

holds the second-largest privacy coin market valuation this year and in January it was around \$1.53 billion.

Today, ZEC is exchanging hands for around \$45.23 per coin and it has an overall market capitalization of around \$731M.

Comparing Monero's Market cap with other privacy currencies

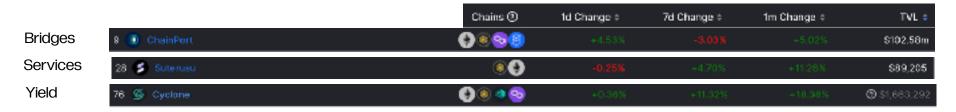
Monero	\$3.17B
Zcash (ZEC)	23%
Decreed (DCR)	10%
Oasis Network (ROSE)	8.5



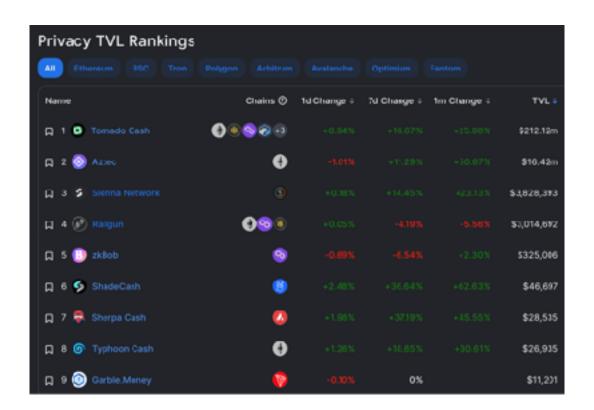
1.3% - privacy projects' DeFi market share

Category	Ranking (by TVL)	Protocols	TVL
Dexes	1	674	\$17.72b
Privacy	16	9	\$235.21m

Privacy projects ranking by categories



Tornado cash & Aztec are DeFi privacy champions



Project spotlight

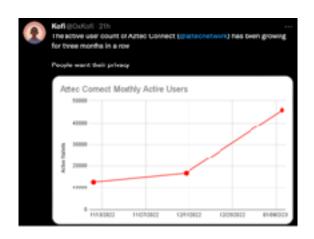


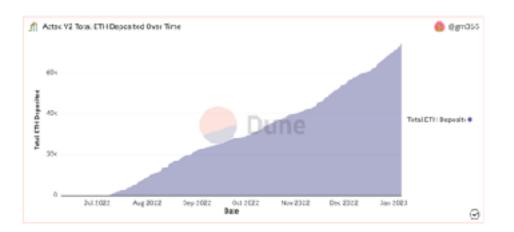
Aztec Layer 2 network brings scalability and privacy too Ethereum.

Aztec uses zkSNARK proofs to provide privacy and scaling via our zkRollup service.

\$16.28M TVL

1M network transactions since launch (Aztec Connect)







Casual dApps like browsers & messengers are driving privacy literacy & direct sales.

Browsers

Brave	100M+
Carbon	5M+
Status	1M+
Opera Crypto Browser	1M+
Puma Browser	500K+

Messengers

Session Messenger	1M+
Status	1M+
BChat - Web3 Secure Messenger	100K+
xx messenger	10K+

Wallets

Edge	500K+
Samourai Wallet	100K+
Green: Bitcoin Wallet	100K+
Beldex Wallet	10K+

VPN

Mysterium VPN	500K+
Orchid: VPN, Secure Networking	100K+
BelNet: A decentralized VPN	10K+

"Office" alternative suite

Skiff Mail	100K+
Skiff Pages	5K+
Skiff Calendar	100

Important note: downloads aren't equal recurrent or paying users



Independent developers & researchers have access to various funding streams from communities to ecosystems.



Rotki - The portfolio tracker and accounting tool that protects your privacy





Estimated lifetime funding received ~\$456,000

Gitcoin

https://ccs.getmonero.org

https://aztec.network/grants

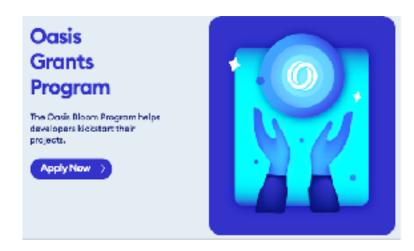


~5% of the market players have grant programs

Usually, they are ecosystem-centric players like Mina or Oasis Foundation.

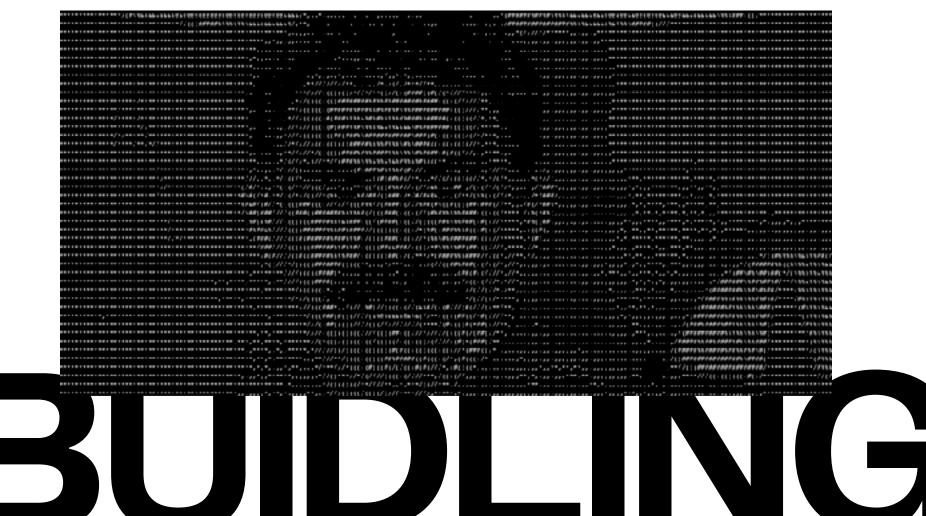
Grants are norms for community engagement within the privacy currencies

- -Zcash
- Monero
- MobileCoin



Interesting examples: DID (Dock), Storage (Sia) or post-quantum solutions (xx)







Developers explored 500+ different private use-cases. And it's just the beginning of potential privacy implications.

multisig	2FA	KYC	reputation	Verifying Supply Chains
gated community access	OS	cross-chain comms	Malicious actors blocklist	Proof of GitHub Contributions
portfolio manager	DAO voting	social	Private NFT	RPC
MEV minimisation	geo	credentials	Viewing Keys	Unique in-gaming items
api	notes	Age verification	Private galleries	Order history (marketplace)
Sensitive doc sharing	Anon bids	E-mail	VPN	Storage

R&D plays a crucial role in privacy landscape creation (beyond just financial use-cases) & argumentation against privacy sceptics.



Private NFTs played insignificant role in the Global NFT sales (\$21,9bn in 2022)

Reference:

Stashh marketplace trading volume ~ \$7M (last 12 months)

Major players like OpenSea don't promote privacy, more anti-scam safety.





Read this as a necessity for the Privacy-Web3 Market-Fit



TRUSTED SETUPS

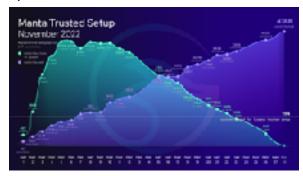
A multi-party computation ceremony turned into creative community-activation.

Manta Network breaks a world record with 4,300 contributions.

Namada

"Remarkable sources of randomness ranged from <u>more</u> to <u>less</u> appetising delicacies, environmental noise recording <u>by Palo Verde Generation Station</u> or <u>Oregonian nature combined with winter rain sounds</u>, spotty friends or <u>little half-human and half-ET</u>'s frenetic typing".

4,300 contributions across 177 countries



https://twitter.com/MantaNetwork/status/1600322208898981889

2.510 contributions



https://blog.namada.net/completion-of-the-namada-trusted-setup/





Privacy solutions developers extensively contribute to the general blockchain codebase.

- **43000+ commits** were generated by the top10 privacy projects
- 2 privacy services in top10 GitHub commits at Cryptomiso tracker: Mina & Mask Network
- 2nd the most popular Mina

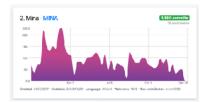








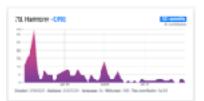
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https://github.com/MinaProtocol



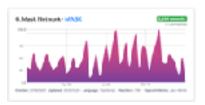
https://github.com/status-im



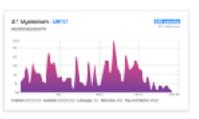
https://github.com/harmony-one



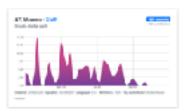
https://github.com/hyle-team/zano



https://github.com/DimensionDev/Maskbook



https://github.com/mysteriumnetwork



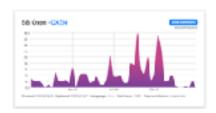
https://aithub.com/monero-ecosystem

Other notable GitHub repositories

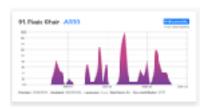
- https://github.com/AztecProtocol
- https://github.com/darkrenaissance/darkfi
- https://github.com/Manta-Network
- https://github.com/scrtlabs/SecretNetwork
- https://github.com/hymtech



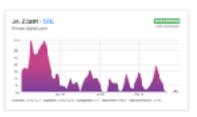
https://github.com/particl



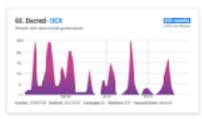
https://aithub.com/oxen-io



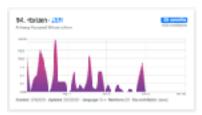
https://github.com/PirateNetwork



https://github.com/zcash



https://github.com/decred



https://github.com/horizenofficial

100 contributors in the Main GitHub repo – example of active collaboration within privacy projects

General analysis showed high developer activity & contribution within privacy solutions.

Zcash	100
Particl	100
Status	100
Mina	76
Mask	74
Secret Network	50
Mysterium	38
NYM	35
DarkFi	27
Aztec	22

This is a reference table, not ranking

ECOSYSTEMS

The Privacy category is frequently missing from the protocol ecosystems

Payments Portfolios Tornado cach Sens anarymous transactions on inthereum. Prowsers Browsers Brave Cam takens for browsing and support your favorite creators with them.

Polygon Defi 862 UHBRY 278





Selected teams managed to develop extensive ecosystems like Secret.

DAPPS + ECOSYSTEM

Secret 28 dapps

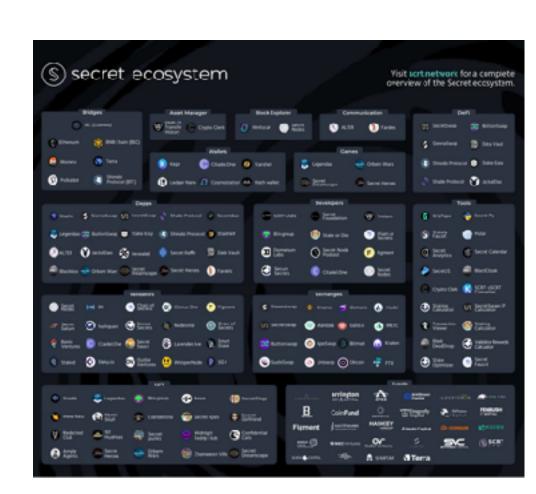
https://scrt.network/ecosystem/dapps

Tooling + eco

https://scrt.network/ecosystem/tools

Note: the amount of ecosystem players usually doesn't match traction (both applicability & TVL)





2022 was the year of ecosystem funding commitments. Oasis, NYM, Secret announced hundreds of millions dedicated to internal & external developers.



"Our ecosystem fund grew from \$160 million to \$235 million with support from new partners", - Oasis Labs.





10+ labs are scaling privacy implementation

maturing cryptography, building use-cases, delivering services for ecosystems.







www.p0xeidon.xyz

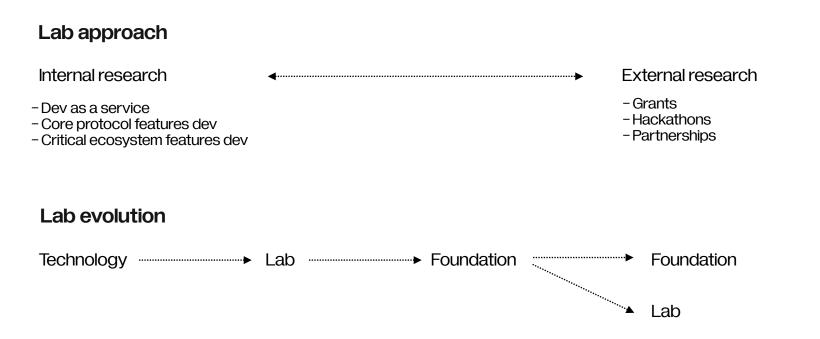
https://ollabs.org

https://appliedzkp.org



R&D labs is a typical entity responsible for the tech delivery behind protocols & solutions.

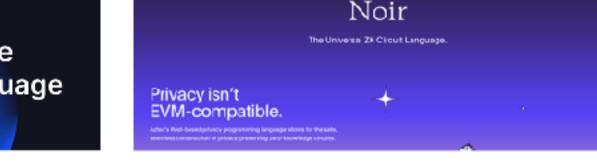
Some labs research new technologies beyond locked-in ecosystems like Polkadot or Cosmos, & even act as a governing body before foundation.



Extensive R&D contribution lead to 2 separate ZK language development.

Aztec





https://leo-lang.org

https://developer.aleo.org/getting_started/

Privacy companies' codebase legacy would be beyond just privacy but accelerate general ZK-applications development & experimentation.



HACKATHONS

2022 was the year of privacy-centric hackathons.

Both privacy projects & event organisers put efforts into making privacy a cornerstone of the crypto market.

To name a few:

ETH Berlin or ETH Brno.









Winners' examples

rsociety



LET'S HACK ETHBERLIN. We redistribute the 10k winner DAI from the Open Track to all the hackers, claimable from our smart contract.

Lunar Wallet



Is the first privacy native Ethereum wallet based on a built-in integration of TOR. This architecture enables users' IP addresses to be isolated from third parties.

Important mention: 1st Monerokon in 3 years happened in Lisbon

NYM collaborated with Filecoin to foster innovation within KYIV Tech Summit.

The Ukrainian-Russian war is a catalyst for privacy-centric projects, especially when your sensitive data could lead to unprecedented threats.

The "Citizen5" winner follows the general NYM's trajectory for supporting freedom of speech via Anon data storing & sharing. Julian Assange, Edward Snowden & many other activists leaking sensitive data are applicable here.



nttps://blog.nymtech.net/be-brave-as-ukraine-build-anondrop-at-the-kviv-tech-summit-hackathon-4959ea99cfb8



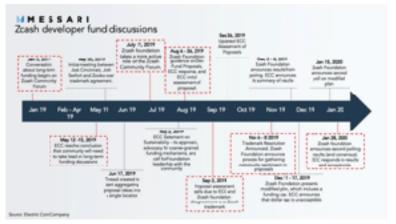
Decentralised governance is more mature within key privacy coins Zcash & Monero.

Zcash highlights

- Transparency reports
- Foundation + Electric Coin. Co
- GitHub-centric ZIPs
- Public incorporation & financial docs
- active & public R&D

2 vs 100+

Improvement Proposals comparison Mina vs Zcash



https://messari.io/report/decentralizing-zcash



MIP	Rackgeund	MIP Stage	MIP Owner
Remove supercharged reserts in the with initial telenomics	NF flog ontoises distribution	Frailtation	garethologies#1955
Reduce wallet creation fee	Organia discussion un Mira Rosearch	DHME	Suchthelisticon #5388

https://github.com/MinaProtocol/MIPs



https://github.com/zcash/zips

Privacy companies don't rush to decentralise their efforts when "everyone is making DAO around".

Phala, Mina & Status are the ones to follow for active DAO transformation

deepdao.io stats

rank	‡organization	treasury:	÷ las; ÷ 24hrs	top treasury tokens	main treasury	; token holders	# Hfetime * participants	‡ proposals	; votes
21	Phala	\$74.7И	70.0%	•	Ф	<u>≗</u> 2.9k	<u></u> o	■ 24	<u>™</u> 77
00	Tornado Cash	1984	21 49:1%	O 🕦 😡 😡 🐲	•	<u>≗</u> 1.0k	<u>a.</u> 179	□ 91	E 400
159	AssangeDAO	\$308.9¢	70.1%	🕖 👄 🖨 🖸 🔕	0	₫ 6.3k	₫ 11k	12	 36k
238	(m Status	\$3.7k	70.1%	O 🕩 💋 🚳 😡	0	<u></u> 2	1 2	23	₫ 17

Note that the Tornado Cash case affected DAOs that went on hiatus. Sacred Finance example

- DAO announcement
- <u>Discord silence</u>



The next big step for privacy companies – make financials transparent & accountable

	UNRESTRIC	TED FUNDS	RESTRICTED FUNDS - 20G		
LIQUID ASSETS	COIN BALANCE	USD VALUE	COIN BALANCE	OBDAVINE	
USO	2,532,529.72	\$5,532.530	2,441,89145	\$2,441,893	
usoc	3-	3-	50,000	\$60,000	
ZEG	177,263.44	80.865.627	142,760,52	7,646,051	
BTC	6214	\$1,208.183	-	\$-	
ETH	11.89	315,814		9.	
		616.622,463		680,447,844	
LIAMUTTES					
GRANT COMMITMENTS		\$102,580		\$2,728,918	
ACCRUED EXPENSES A PAYROLL LIABILITIES		8170.038			
		\$275,513		\$2,739,918	
NET LIQUID ASSETS		\$16,344,941		\$7,700,026	

USB VALUE (at of Sept. 98); \$55,66 USB/ZEO | \$19,443.77 USB/BTO | \$1,859.56 USB/ETH NB: This simplified balance sheet does not include intangible or illiquid essets and liabilities that would appear on EP's fall balance sheet (e.g., trademark, etc.).



The big future challenge for this ecosystem is privacy. The status quo involves putting large amounts of information on-chain, which is something that is "fine until it's not", and eventually will become unpalatable if not outright risky to more and more people. There are ways to solve this problem by combining on-chain and off-chain information and making heavy use of ZK-SNARKs, but this is something that will actually need to be worked on; projects like Sismo and HeyAnon are an early start. Scaling is also a challenge, but scaling can be solved generically with rollups and perhaps validiums. Privacy cannot, and must be worked on intentionally for each application.

- Vitalik Buterin, Ethereum co-founder





Blockchain neutrality dilemma:

how the network could be positive for humanity if it's censored (incl. self-censorship)?

Enterprise + state-ready decentralisation

- -100% Compliant
- Approved by Governments + Corporations
- Approved by business consultancies like EY + Gartner

Point of collision

- -KYC
- Privacy policies (data aggregation)
- Capitalistic extraction practices
- Relations between corporations & state

Decentralisation

- 100% control over the privacy
- Selective disclosure
- Anonymity to non-democratic governments

Lots of corporations can't join public protocols feared of transparency, hacks & sensitive data leakage.

But privacy solutions from Polygon to Oasis Labs are fostering corporate-blockchain fit.

COMPANIES - BLOCKCHAIN

Equifax and Oasis partnering to build 'privacy first' on-chain KYC solution



Privacy market has a completely opposite attitude to corporations

- one camp wants to abolish corporations
- other wants to transform them (ConsenSys, Oasis Labs)

Privacy Policies outrage shows that corporate &/or complaint practices are a centralised rudiment. So it would be hard for these companies to sit on 2 chairs:

- 1. Enterprise-friendliness
- 2. Community-driven.





Market actors should analyse corporate solutions to check if they match the initial Bitcoin, Ethereum ethos.

COMPONENTS EY Biockshein differentiators

Ernst & Young Principal and Global Innovation Leader Paul Brody is bullish on the outlook of Ethereum going into 2023. He predicts a shift towards industrial, instead of purely financial applications.

EY blockchain solutions

EY OpsChain Contract Manager: Engage in a procurement workflow by issuing request for quotes, contracts, purchase orders and invoices across a network of trusted business partners.

EY Blockchain Analyzer: Smart Contract & Token Review — Review the underlying code of smart contracts to increase confidence in blockchain-enabled transactions.

EY Blockchain Analyzer: Tax calculator — Upload transactions to download a Form 8949, which is used to calculate capital gains for US tax returns.

EY OpsChain Traceability: Improve traceability and transparency across the supply chain through the use of notarization and tokenization.

EY OpsChain Public Finance Manager: Provides governments and public sector organizations the solutions and tools for the effective management of public finances, while producing near-real-time performance reporting and advanced analytics.

EY Blockchain Analyzer: Reconciler – Bulk-reconcile on-chain and off-chain data to identify matches and mismatches of transactions.



"We are opposed to the state"

- Amir Taaki

DarkFi challenges compliant privacy & state dominance over the web.

Privacy (or even anonymity) is integral to DarkFi's political agenda. "Decentralisation" is a political notion, but selected few privacy leaders to go anti-state in their communication.





www.youtube.com/watch?v=QkXzyv5lKms



PSE is trying to apply reputation to anonymity. Basically, creating a scoring for everyone.



The UniRep protocol evolved from an ethresearch proposal by Barry WhiteHat for a system where users could be banned or have their reputation destroyed even if they are anonymous.

The proposal outlined a mechanism for giving positive and negative reputation in a way that the user must accept while maintaining privacy.



Open question: how not to replicate negative policing practices from around the world on-chain.

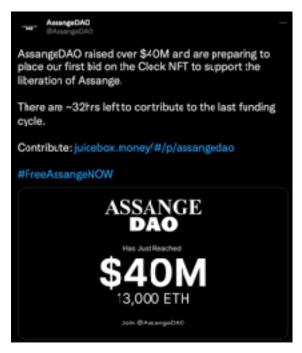


Political polarisation goes beyond socalled CeFi & DeFi markets. It raises questions about the community's values.

"Ethereum was not invented to make you rich, Ethereum was invented to make you **free**."

@owocki

Privacy helps to imagine a world where whistleblowers could work for humans without risk.



https://assangedao.org



How do trust projects if their team is fully anonymous?

They should attract a broader audience to scale. How could anyone trust them if founders stay anon?

There are several exploration trajectories

- 1. Powerful storytelling behind the project.
- 2. One non-anon central figure ("martyr").
- **3.** Appealing product (non-anon NFTs made by Banksy).
- **4.** Non-anon partner: NGO like EEF or Whistleblower.
- **5.** Great cause ("War on the big tech").

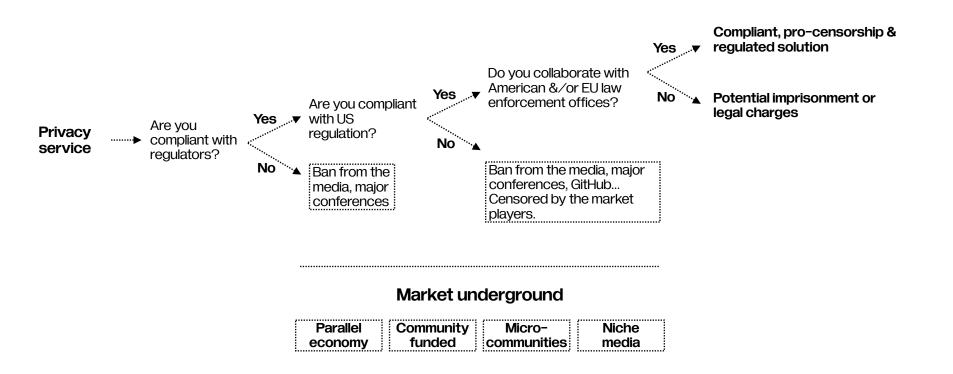


A potential investor asked why he should buy genesis tokens from anons of LunarDAO?

https://lunardao.net

The Future of the privacy-as-an-ideology is under attack.

You can get imprisoned if you don't play by the USA rules.



SELF-SECURITY

Privacy solutions are even more sensitive to hacks then non-privacy. Hacked funds and exposure of sensitive information damage market image.

Secret Network Crypto Transactions Not So Secret After All

Secret Network was supposed to keep transactions private, but researchers warn there's no telling now many people have decrypted them

AN ARROST MARKET COLOR AND ARROST AND DESCRIPTION AND



Case: https://twitter.com/socrates1024/status/1597637285058863104

SGX.fail website: https://sgx.fail

Only security audits, white hackers & community could prove that solution is private.

Privacy companies are experimenting with bug bounties, white hackers relations, security auditing to find a well-balanced approach to self-security.

Sienna's partners

Certik Halborn





Sienna



https://sienna.network/audits/



CONFIGURABLE PRIVACY VS CONSENT

An open question to configurable privacy is how to avoid "dark patterns" like altering consent & giving agency over decision-making to a human?

Example:

- companies after GDPR found a way to trick humans: gather their data & surveil
- the web3 UX/UI should deliver true power over not just data, but the consequences of its leakages

Imagine this as a humanistic alert protecting the user from fast actions from "Do you want to share your data with actor X?" to "We don't recommend sharing this data if ...".

<u>cryptofireside.com</u> privacy & transparency form





Explore more

- Aztec
- Espresso Systems
- Ruby
- Cerebrum
- Manta Network

Web2 is lying to you



guardian.co.uk example

Web3 is confusing you

ZKP-enabled asset tracing for auditability

Yellow Submarine's sidechain supports auditable privacy-preserving assets using SNARK-friendly hybrid encryption and advanced Zero-knowledge Proof technologies such as Matrix sigma and binary-checking-friendly TurboPlonk.

https://ys.finance/

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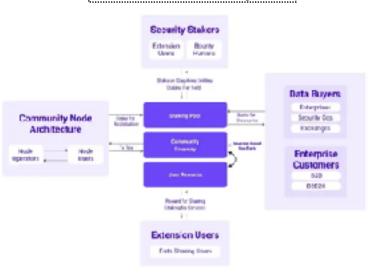


Privacy could become a forefront of security. But instead privacy market delegate security advocacy to companies like Chainalysis.

Private wallets, for example, secure funds from hacking by default. But if you visit the product's website, they will say "We live in an Orwellian surveillance society where your information is being used to typecast and manipulate you". Meaning the state, but not hackers, scammers & other bad actors.

Radical on-chain security example.

Decentralized Security Incentivized for Everyone



https://www.interlock.network/

Opportunity: broaden audience range of privacy protection & became the mainstream toolbox for newcomers to "shield" themselves from cybercriminals.

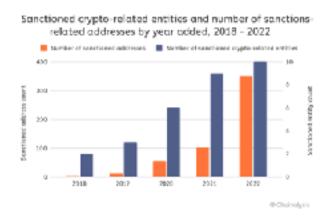
Companies like Chainalysis or TRM would work with law enforcement units worldwide following the transactions.

Privacy actors could actively add additional narration to general communication

- how could solutions be used to enhance security?
- what are the ethics of dev teams?

Denying that the market is full of scammers opens the door to cyber forensics to come & dominate the security agenda.

Chainalysis



How 2022's Biggest Cryptocurrency Sanctions Designations Affected Crypto Crime





Market is full of biases that stop founders to join their forces.

Privacy is for criminals

Privacy is norm

Why do you want to be anon if you have nothing to hide?

Privacy is a human right

People don't want privacy

Privacy is normal.

Privacy is for good guys, It's for moms and bike messengers and foodies.

Privacy is for business mortings and voting beaths. It's why we have shower curtains. It's why we have that little pedicok con in our browser par.

Physicy protects you from discrimination and from identity thatt, and it keeps your load-delivery history under wraps, it can also shield you from those cready somebody-has-definitely-been-listening-to-my/floughts adsion social media apps.

Phracy soft about shufting out everyone and everything, Instead, privacy gives you the power to choose what and with whom youll share, it provides safety, control and the right to grant access.

Privecy gives you the shirty to express yourself to be creative, to spend your time and your money in whatever manner you like, without the southry of others. It protects our intimate moments, our most embarassing ambifione, our radical likess and the shirty to be our true covers.

Privacy is freedom, consent, dignity and security.

Privacy is normal.

NGOs like The Electronic Frontier Foundation have defended civil liberties for years.

That's why their level of augmentation against biases is more mature than the industrial players.

Collaboration with such NGOs would help to prepare mature ambassadors of both free speech & privacy (beyond legal officers).

Open question: how to make communities participate in privacy-as-a-movement? Creating an army of privacy guardians all over the world.

Code is Speech is a Core Principle

For decades, U.S. courts have recognized that code is speech. This has been a core part of EEE's advocacy for the computer science and technical community, since we established the precedent over 25 years ago in Senstein v. U.S. Dep't of State. As the Tornado Cash situation develops, we want to be certain that those critical constitutional safeguards aren's skirted or cliumed. Below, we explain what those protections mean for regulation of software code.

https://www.eff.org/deeplinks/2022/08/code-speech-and-tornado-cash-mixer

US Treasury announcement: ECC's engagement on policy for economic freedom

Honois Crim Company | August 8, 2019



https://electriccoin.co/blog/us-treasury-announcement-eccs-engagement-on-policy-for-economic-freedom/

Privacy companies could use comms to empower biased people.

But they conflict with each other at the moment.



We can reclaim the internet together

Building a world where your life belongs to you.

Privacy first. Privacy second. Live online without a trace.

Next generation privacy for web3



Discover a world of complete privacy with Sahara

Welcome to the world of encrypted DeFi 👉

Unchain the value of sensitive data. At scale.

Next Privacy Finance Ecology Protocol



NETWORK STATES

Parallel economies evolute into Network states.

The Status team is launching Logos - a "grassroots movement" to provide trust-minimized, corruption-resistant governing services and social institutions to underserved citizens.

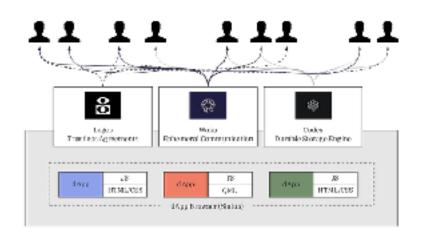
The main difference between Balaji's Network state & Logos is a non-capitalistic approach to the parallel economy from the latter.



Logos.co

The network state is an example of parallel economy executed within the Status' tech stack: Browser, Messenger, Storage plus DAO.

These services are highly synchronised with Ethereum ethos, decentralisation & Sovereignty.



Jarrad Hope, Status CEO

ETH Barcelona: From Crypto-Currencies to Crypto-States

Paralelni Polis: Cypherpunk Suprajurisdictions against the Nation-State





LEGAL DEFENCE

2023 will be a year of privacy's legal defence. Alliances, private currencies teams, non-profits like EEF or Coincentral would advocate for "privacy as a human right".



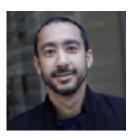
Blockchain Association Benri Corporation Betapersei Caribbean Blockchain Alliance CvberStorm The Crypto Freedom Lab DeFi Education Fund Desert Blockchain Edge Electric Coin Co Espers Filecoin Foundation Free Software Foundation FrogCoin LearningProof Ledger Manta Network Mobilecoin MotaCoin Mysterium Network Nighthawk Wallet for Zcash Nillion Network Nym Technologies Protocol Labs Proton Quiet **Radiant Commons** ReddCoin Reneum SealVault Secure Internet Voting The Tor Project Tutanota WCOIN Web 3.0 Technologies Foundation Web3 Working Group WebQ.org

Zcash Foundation



Legal experts & policy makers are already part of privacy-centric projects.

@ghappour



Prof <u>@BU_Law</u> & General Counsel <u>@nymproject</u> Formerly: trial attorney, Guantanamo habeas counsel.

@paulbrigner



Head of U.S. Policy and Strategic Advocacy @ElectricCoinCo

@silkenoa



crypto lawyer & mathematician - blockchain aficionada & feminist - previously CLO/GC at @gnosisDAO - @LSEMaths & @StanfordLaw alu



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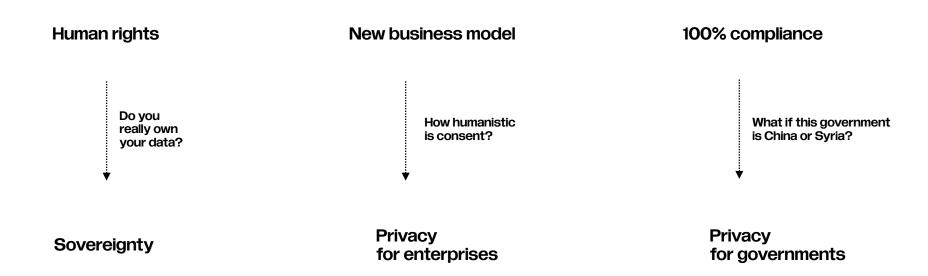
Analytical companies collect & analyse personal data right now.

Law enforcement agencies surveil the network. If there will be no community pressure – people won't even know about it.



Market actors have different views on privacy.

It's a "default lifestyle" for Monero followers, protection from prosecutions for Iran citizens, and the barrier to mass surveillance for law enforcement agencies.



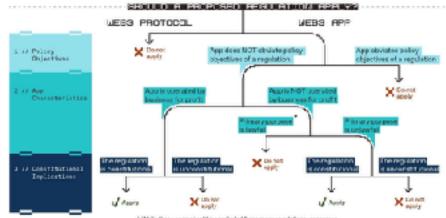


Privacy market players are aware that extensive regulation could lead to

- open-source developers being imprisoned
- DAO voter's prosecution
- DAO-as-an entity sanctioning
- solutions banning, censoring, removing
- financial sources sanctioning

If this happens, privacy would have a "red flag" among investors, devs, media, and mass audiences.

REGULATE WEBS APPS, NOT PROTOCOLS FRAMEWORK



 White these apparamental be addeded from many applications, consumer postnetiles and shall a regulations was difficulty to insentials to apply.

https://al6zcrypto.com/regulate-web3-apps-not-protocols-part-ii-framework-for-regulating-web3-apps/



Blender.io, Tornado Cash, Bitzlato cases showed that regulators would stress out all projects related to third-party money laundering or drug trafficking.



- 1. Develop.
- 2. Test.
- 3. Scale.

- 1. Try to crack.
- 2. a) Positive aggregate data & surveil.
 - b) Negative put legal pressure.

ZK magic won't solve all privacy-related issues. Tornado Cash has ZK, for example.

Zk-Rollups will remain centralized. All rollups live on Ethereum rely on a centralized party known as a sequencer to order transactions.

Sequencers learn all your transactions and can profit from MEV at your expense.

2023 will be a year of ZK R&D, hacks & extensive testing. Think of it as an experiment to be proved – you won't be disappointed with its breaches.

FHE (fully homomorphic encryption), MPC (Multi-Party Computation) are other secure approaches to look up to in 2023.



https://twitter.com/lngo_zk/status/1614707710959681537

Programmers were degraded to robots by their bosses – Ivan Jelincic, DarkFi

The tension between regulators & community would lead to the new developers class (or return to the roots of "free developers").

Cypherpunks, Lunarpunks rhetorics help to unify various people around code self-sovereignty. So developers could capture value in projects & become owners of their societal roles.



https://www.youtube.com/watch?v=QA3YZVDUN5s



The general privacy usecases are just on the horizon.

2023 will be a year of general privacy applicability from gated access to DAOs to private NFT collections.

Give Feedback On Proposals Anonymously

Anoun allows noun-holders to give feedback on proposals while maintaining their privacy using zero-knowledge proofs.

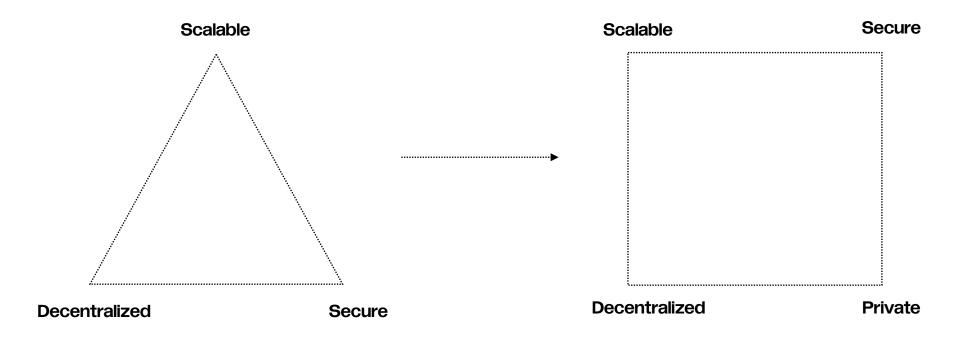


AnonDAO AnonNFT Anon???



Blockchain quadrilemma is already here:

should we give away privacy in exchange for security or scale extensively (rollups) with privacy-as-a-secondary need & what would happen with privacy if the network becomes more centralised?



Privacy is significant in Big tech's public policy.

It diverts attention from Surveillance capitalism, market monopolisation & locked ecosystems. Web3 actors should ask themselves about the differences between them & champions of centralisation?



Privacy is a fundamental human right. It's also one of our core values. Which is why we design our products and services to protect it. That's the kind of innovation we believe in.



Your privacy is our priority. With end-to-end encryption, you can be sure that your personal messages stay between you and who you send them to.



At Microsoft, we value, protect, and defend privacy. We believe in transparency, so that people and organisations can control their data and have meaningful choices in how it is used. We empower and defend the privacy choices of every person who uses our products and services.

www.apple.com/privacy/

www.whatsapp.com/privacy

https://privacy.microsoft.com/en-GB/

Vision is the necessity for privacy-enhancing services.

It's rare for a privacy product company to have a long-term roadmap.

Example #1: the Manta network's roadmap ended last year (it was updated within the newsletter – generalised take for 2023).

Example #2: Electric Coin Co. – they published a 30-year vision. Here, the vision should be taken as a public commitment to popularising private cryptocurrencies. This entails the need for a comprehensive strategy and people with strategic thinking.



NYM

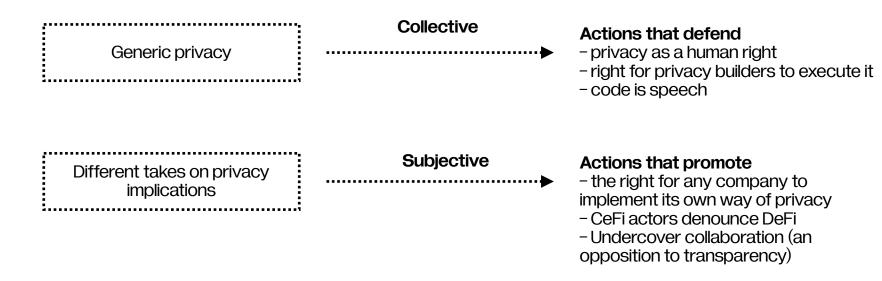




Year end reports is a nice source of further research helping to understand how projects approach their commitments, roadmaps & future plans.

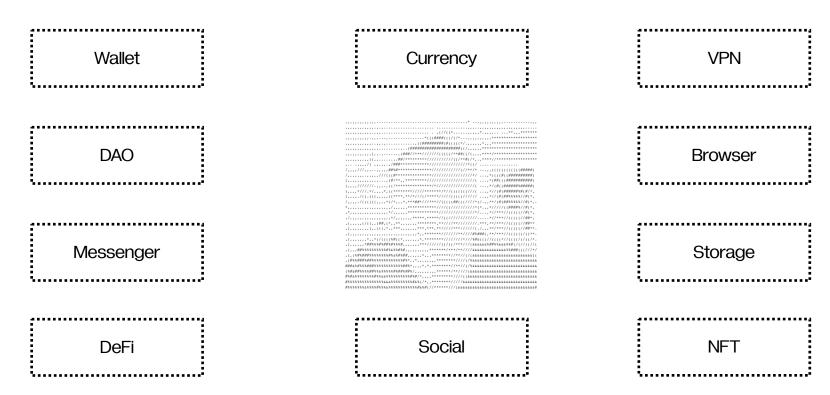
<u>Iron Fish</u>	Lit	Partisia Blockchain
Oasis Protocol	<u>Particl</u>	Ruby Protocol
<u>Findora</u>	Manta Network	<u>BlockWallet</u>
<u>Aleph Zero</u>	Sia	Phala Network
<u>Aleo</u>	<u>Horizen</u>	Skiff
<u>Suterusu</u>	NYM	Oasis Protocol

Market players should find out ways to distinguish between different takes on privacy (Monero Vs Zcash) & collective action that protects both users & builders.



You don't need to live in a distant future to access full-stack privacy.

While network-level privacy is around the corner (1 year+) - casual dApps from wallets to messenger are available today.



If web3 means ownership over data Then it should be private

Data ownership Privacy Governments Big tech You Data Data brockers Analytical companies Marketing agencies Hackers

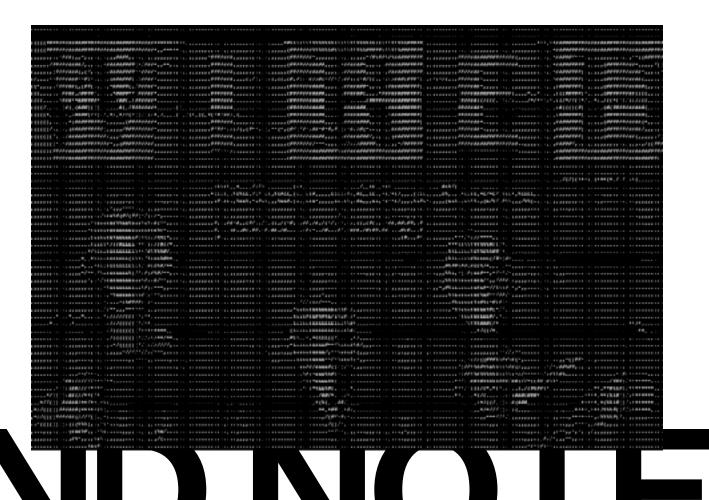
To rephrase a famous quote

First they came for **Monero**, and I did not speak out – because I was not a Monero person.

Then they came for **Tornado cash**, and I did not speak out – because I was not using Tornado cash.

Then they came for **NYM**, and I did not speak out – because I was not using mixnets.

Then they came for me - and there was no one left to speak for me.



\Fnd notes\

Market overview

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Conclusion

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Let's organize!



