collisionless

CSCD71 Blockchain and Decentralized Applications

Privacy, Regulatory Compliance and Adoption



November 18 2022

Our Agenda

- A Brief History of Blockchain: Industry Perspective
- Current Regulatory Landscape
- 3 Considerations for Builders: Privacy
- 4 Considerations for Builders: Regulatory Compliance
- 5 Consideration for Builders: Adoption
- Where are We Headed?

A Brief History of Blockchain: Industry

Perspective

1991	Chain to secure blocks	2014	Mt. Gox
1992	Merkle Trees	2017	ICO Boom
1993	PoW	2018	Crypto Winter
1994	Hal Finney's RPoW	2019	Libra & Global Regulatory Changes
2008	BTC whitepaper	2020	DeFi + COVID
2009	BTC live	2021	NFT Boom, BTC ATH, El Salvador
2013	Silk Road	2022	Crypto Carnage

Current Regulatory Landscape

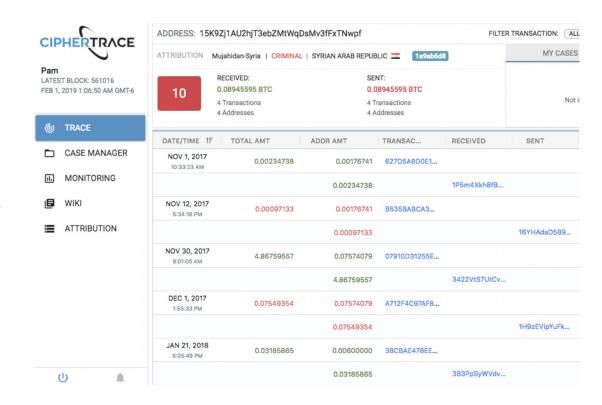
- VASPs globally are starting to be scrutinized like banks although regulatory compliance happening at different paces ("sunrise issue")
 - application and licensing requirements
 - transaction monitoring and reporting obligations
 - compliance obligations
- Regulatory frameworks differ in robustness across jurisdictions (Bruce Fenton on Twitter: "Stocks are the lifeblood of all companies and [the US government has] made it so scary that industry players will work in every country in the world except North Korea, Iran and the USA.")
- Slow or non-existent regulation or lazy regulation is partially to blame for FTX collapse

Current Regulatory Landscape

- Disagreement about what should be regulated
 - Tornado Cash (OFAC sanctioned code, 2022)
 - DeFi

Considerations for Builders: Privacy

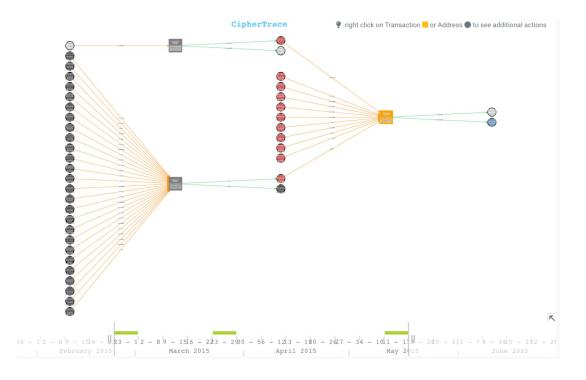
- Blockchain analytic firms attribute blockchain addresses to contextualize risk, controlling entity (not PII), entity type, entity location, counterparty interactions and gather IP intelligence from SVP devices
- Private companies are building tools in the spirit of existing AML regimes, which question the desire for privacy
 - KYC dependencies
 - ie. use of mixers constitute high risk
 - ie. use of coin joins or privacy-focused wallets constitute high risk





Considerations for Builders: Privacy

- Transaction graph analysis builds out the entire blockchain ecosystem, attributing counterparties throughout the transaction flows
- Will on chain transparency give rise to a surveillance machine?
- NFTs forming a web of all digital interactions
- Connecting metadata to reveal individuals
- Is privacy important in the digital age?
- Secrecy vs privacy?



Considerations for Builders: Regulatory Compliance

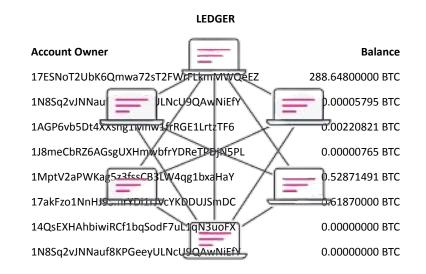
 Developers and engineers must participate in, and stay abreast of the regulatory discussion

- What should be regulated? Businesses?People? Code?
 - O Where is the line in the sand?
- Is code speech and if so, should it be protected?
- Should developers be held accountable for malicious use of their code?
 - What implications would this have on innovation?



Considerations for Builders: Adoption

- privacy-enhanced protocols
- user friendly non-custodial wallets
- end-user education
- security best practices
- inheritance planning (https://twitter.com/brucefenton/status/15
 93069948523646978
- criticality of code reviews
- exchange transparency: proof of reserves, liabilities, cash flow transparency
- macro-picture: how will what we build affect global politics, financial stability, the sovereignty of a nation-state and its people?





Where are we Headed

- 2022 Contagion Fallout
 - bankrupt projects
 - regulatory wrath
 - constricted funding
 - loss of trust
- Banking
- Insurance
- Legal