

About us

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- Legal professional for a major protocol Foundation
- Led stablecoin regulatory research for Risks and Protection
 Dashboard at CCAF (Cambridge Centre for Alternative Finance)

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- Blockchain analytics at a crypto exchange
- Banking (credit risk modeller, developer)

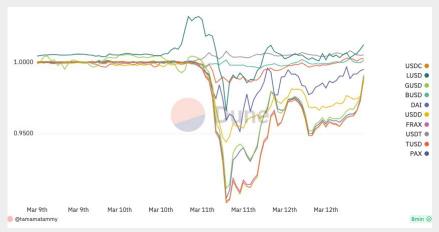
The two stablecoin events

The Fall of Terra, May 2022



- UST market capmarket cap ~\$18B USD in April
- 3rd largest stablecoin
- Collapse due to fundamental flaw in design

The SVB collapse, Mar 2023



- USDC fully backed by cash and cash equivalent
- 3rd largestlargest stablecoin
- Depeg due to the custodian risk it exposed to
 - cash != banking notes

About SRAF

Building a multidimensional stablecoin risk assessment framework

Defining stablecoin risk:

- price becomes too volatile over time - too high or too low
- price significantly lower than pegged value
- complete failure
- value cannot be accessed



The challenge of having a single rating

- Difficult to assign weights on different risk categories
- Not enough data for probability of depeg model
- Not only depeg matters high/volatile stablecoin price can
 also harm users

Our approach:

Use the framework to analyse and compare risk amongst stablecoins, users decide the importance of each category based on their own objective and risk appetite

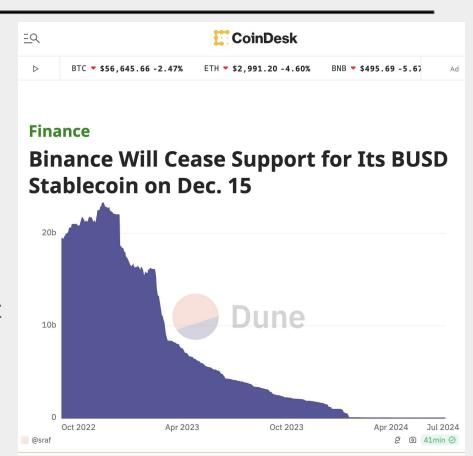
BUSD unwind

Authority actions

- Feb, 2023, New York DFS ended minting of BUSD at Paxos
- Dec 2023, Binance stopped supporting BUSD

Impacts to users

- Users were able to redeem BUSD at1:1 as reserve was not impacted
- Users were not able to trade BUSD on Binance



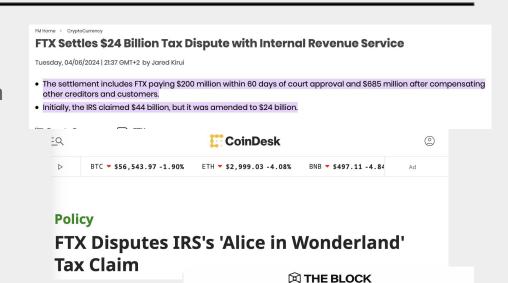
FTX collapse

Authority actions:

 Dec 2023, IRS demanded \$24B from FTX for unpaid tax

Impacts to users

- Some remaining assets was used to pay bankruptcy lawyers
- \$200M was paid before client compensation



funds

BTCUSD 56,536.00 -2.20% ETHUSD 2,997.53 -4.16% BCHUSD 322.93 -6.00% FTX says IRS demand for \$24

billion in unpaid taxes is

delaying recovery of user

What if FTX has its own stablecoin?

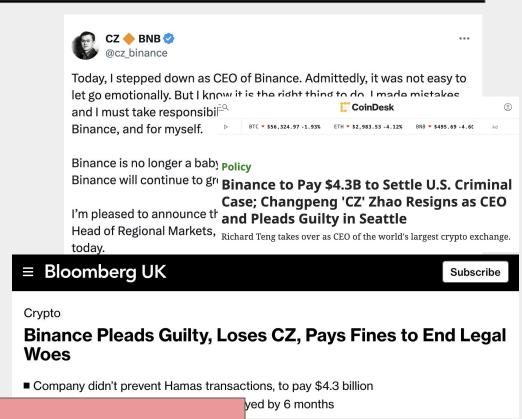
Binance enforcement

Authority actions

- Nov 2023, Binance was fined for \$4.3B for various wrong doings
- CEO CZ stepped down and was sentenced to jail

User impact

- No direct impact to the users as Binance has the money to pay
- Several countries, including Australia and Cyprus, revoked or suspended Binance's operating licenses



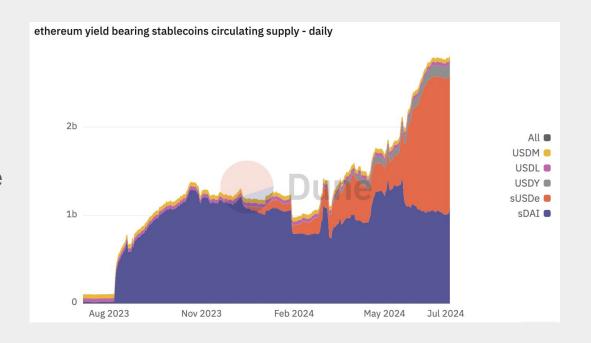
What if Binance didn't have the money to pay?

The rise of yield bearing stablecoin

Authority actions

- Not much happening yet
- Easier to be identify as security
 - E.g. Paxos Lift Dollar
 USDL is not available
 in the US

Yield-bearing stablecoin circulating supply



Key Motivations

Assuming all other aspects of a stablecoin function as expected, the primary concerns for users arise from the actions of authorities remains:

- will their stablecoin holding be impacted when authorities take actions
- will their stablecoin trading activities be impacted when authority take actions

Authorities' concerns

Do stablecoins pose risks to consumers and the broader economy?

Can stablecoins serve as a means of payment and a store of value?

- Consumer protection and market integrity
- Financial Stability
- Illicit Activities

Key stablecoin regulatory frameworks

	Framework	Key authorities	Progress	Start from
EU	MiCA	ESMA, ECB	In application (partially)	2020, Come to effect in 2024
UK	DP23/4	FCA, BOE	under development	2018~2019
US	FIT 21	US Congress	Proposed	2023
	Payment Stablecoin Act	US Congress	Proposed	2024
	Clarity for Payment Stablecoin Act	US Congress	Proposed	2022
HK	legislative proposal for stablecoins	НКМА	under development	2022
SGP	Single Currency Stablecoins	MAS	under development/expected to be adopted in 2024	2022

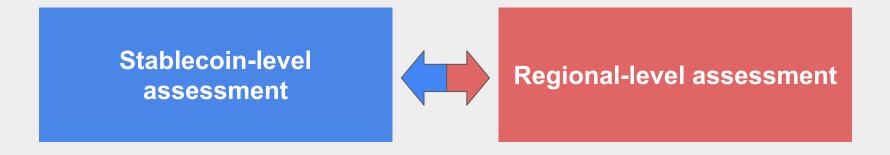
Potential regulatory actions

Within authorities' legal jurisdiction:

- Restricting trading or other relative activities on centralised crypto platforms
- Restricting operations, including issuance and redemption
- Imposing fines
- Seizing reserves at custodial institutions

Our approach

We have establish <u>a semi-analytic approach</u> that can <u>objectively</u> help stablecoin users to better understand regulatory risks.



Risk metrics at stablecoin level

Factor	Description
Stablecoin type	Custodial and or non-custodial
Operation location	Where does the stablecoin project is registered
Issuer	Who is responsible for issuance and redemption and what authorities have a say to the issuer
Reserve custodian location	Where/where are the reserve asset custodians? Are reserves bankruptcy remote?
If reserve bankruptcy remote	if the stablecoin project or the reserve custodian goes bankrupt, other creditors don't have a claim on the stablecoin reserve
% supply at key CEX	Portion of the stablecoin supply at centralised exchanges, how likely trading activities can be restricted by regulators in EU, UK, US, SGP, etc
% jurisdictional exposure of reserve assets	Portion of the RWA in reserve by region. e.g, holding of US treasury will have a connection to US laws and regulations

Risk metrics at regional level

Factor	Description
Key authorities	Who are the key regulatory bodies that are in relation to crypto and stablecoin
Regulatory history	Regulatory events in relation to crypto projects in the past
Stablecoin regulatory framework progress	If the jurisdiction has a stablecoin specific regulatory framework and what is its status

Case study

	USDC	USDT	DAI		Authority	Regulator history
Stablecoin type	Custodial	Custodial	Non Custodial			
Operation location	us	British Virgin Island	Onchain	US	SEC, CFTC, FinCE;	Rich, on CEX and crypto
Issuer	CB Circle	Bitfinex	MakerDAO	NY DFS		projects
Reserve location	US	tbc	Onchain, RWA	EU	EMSA, EBA	Mainly on CEX
Is reserve bankruptcy remote	No	Unknown	Onchain: Yes RWA: tbc			
% supply at CEX	~9%	~33%	~2%	UK	FCA, BOE	Mainly on CEX
% jurisdictional exposure of RWA	100% US	Mostly US	~11% CB USDC institutional reward			
			~11% short term US Treasury	SGP	MAS	Mainly on CEX

	Authority	Regulatory history	Regulatory framework progress
US	SEC, CFTC, FinCE; NY DFS	Rich, on CEX and crypto projects	Proposed
EU	EMSA, EBA	Mainly on CEX	In application (partially)
UK	FCA, BOE	Mainly on CEX	Under development
SGP	MAS	Mainly on CEX	Under development

Wrapping up

- Regulatory risk is extremely complex and challenging to be assessed systematically
- It requires ongoing efforts to establish and refine regulatory standards and guidelines - which also creates uncertainty
- Key concerns for stablecoin users are:
 - Direct impact stablecoin value get hold or lost
 - Indirect impact stablecoin activities are restricted

The stablecoin/crypto industry should be actively participate in the discussion of developing stablecoin regulatory framework

Thank you for coming!

- Follow us for more updates!
 - SRAF: X (@tamamatammy)
 - Ola: linkedin (aleksandra-fiutowska), X (@olafiuu); Twitter (olafiuu)
- Previous presentation on other risk categories can be found <u>here</u>
- The working paper for stablecoin risk assessment framework is going live soon