

Dimension	Category	Characteristics						
<i>Explicit Incentives</i>								
(1)	Profit-sharing / cost-reduction	Dividends, token buybacks or burns	Issuer-sanctioned airdrops	Service discounts	Combinations / other	None		
(2)	Rights to CFs	Masternodes	Staking rewards	Combinations / other	None	None		
		A (0.4)	B (0.3)	C (0.3)	D (0 to 1)	E (0)		
		A (0.6)	B (0.4)	C (0 to 1)	D (0)			
<i>Implicit Incentives</i>								
(3)	Marketing claims / investor expectations				Quantitative variable: Expectations index (0 to 1)			
(4)	Network functionality at time t				Quantitative variable: Network functionality index (Inverse) (0 to 1)			
(5)	Asset utility at time t				Quantitative variable: Asset utility index (Inverse) (0 to 1)			
(6)	Initial issuance mechanism	PoW	Costly PoX e.g Proof-of-Burn	Snapshot / Fork / Airdrop	Costless PoX	Arbitrary Mint / Premine / Instamine	ICO	SAFT/Deferred Distribution
(7)	Ongoing issuance mechanism	PoW	PoX	Arbitrary Mint (algorithmic / autonomous)	Arbitrary Mint (centrally controlled)	None	F (0.85)	G (1)
		A (0)	B (0.2)	C (0.4)	D (0.55)	E (0.7)		
		A (0)	B (0.25)	C (0.5)	D (0.75)	E (1)		
<i>Stakeholder Alignment</i>								
(8)	Balance between network participants				Quantitative variable: Alignment index (Inverse) (0 to 1)			
<i>Network Governance</i>								
(9)	Governance Type	Masternode	Token/ticket	Reputation	Combination / other	None / off-chain		
(10)	Token-Holder voting rights	Upgrade & treasury	Upgrade	Treasury	Indirect (implicit)	None (explicit)		
(11)	Treasury / foundation supply control	A (1)	B (0.5)	C (0.5)	D (0.2)	E (0)		
(12)	Power asymmetry between issuer and investors				Quantitative variable: Insider supply control index (0 to 1)			
(13)	Human primacy over codebase / assets				Quantitative variable: Asymmetry index (0 to 1)			
					Quantitative variable: Mutability index (0 to 1)			
<i>Network Topology / Software Properties</i>								
(14)	Network centrality / distribution				Quantitative variable: Centrality index (0 to 1)			
(15)	Permissioned / proprietary elements				Quantitative variable: Openness index (Inverse) (0 to 1)			
(16)	Ease of node operation / software compatibility				Quantitative variable: Network compatibility index (Inverse) (0 to 1)			

Table 9: Securityness taxonomy (3rd iteration)

Dimension	Category	Characteristics						
<i>Longevity</i>								
	DURABILITY							
(1)	In/extra-protocol persistence	Quantitative variable: Technical / social antifragility index (0 to 1)						
(2)	Lindy type time-dependent effects	Quantitative variable in the time domain (0 to 1)						
	RESILIENCE							
(3)	Network & protocol robustness	Quantitative variable: Robustness index (0 to 1)						
(4)	Key entity risk / Layer N risk / Smart Contract risk / Cryptography risk	Quantitative variable: Externality index (Inverse) (0 to 1)						
(5)	Balance between network participants	Quantitative variable: Alignment index (Inverse) (0 to 1)						
<i>Portability</i>								
(6)	Transactional friction	Quantitative variable: Friction index (Inverse) (0 to 1)						
<i>Pervasiveness</i>								
(7)	Realness / Materiality	Quantitative variable: Materiality index (0 to 1)						
(8)	Memeticism / Simulacrisation Protocol breadth at time t	Quantitative variable: Protocol breadth index (0 to 1)						
(9)	Network maturity at time t	Quantitative variable: Maturity index (0 to 1)						
(10)	Network legitimacy at time t	Quantitative variable: Legitimacy index (0 to 1)						
<i>Fungibility / Privacy</i>								
(11)	In protocol	Full transparency A (0)	Opt-in privacy B (0.3)	Private with selective audit C (0.65)	Fully private D (1)			
(12)	Extra protocol	Coin mixing A (0.25)	Sender obfuscation B (0.25)	Node level C (0.25)	L2 / Sidechain D (0.25)	Combinations thereof E (0 to 1)	None F (0)	
<i>Supply Dynamics</i>								
(13)	Initial issuance mechanism	PoW A (1)	Costly PoX e.g Proof-of-Burn B (0.8)	Snapshot / Fork / Airdrop C (0.6)	Costless PoX D (0.45)	Arbitrary Mint / Premine / Instamine E (0.3)	ICO F (0.15)	SAFT/Deferred Distribution G (0)
(14)	Ongoing issuance mechanism	PoW A (1)	PoX B (0.75)	Arbitrary Mint (algorithmic / autonomous) C (0.5)	Arbitrary Mint (centrally controlled) D (0.25)	None E (0)		
(15)	Price elasticity of supply	Quantitative variable: Price Elasticity of Supply / unforgeable costliness (0 to 1)						
(16)	Inflation	None A (1)	Fixed/known B (0.5)	Adaptive/variable C (0)				
(17)	Scarcity	Hard cap (algorithmically enforced) A (1)	Cap (social consensus / implied) B (0.65)	No cap (promised) C (0.3)	No cap (no promise) D (0)			
(18)	Asset supply concentration	Quantitative variable: Proportion of supply controlled by insiders/foundation (Inverse) (0 to 1)						
<i>Demand Dynamics</i>								
(19)	Acceptability as payment method	Quantitative variable: Acceptability index (0 to 1)						
(20)	Settlement and value flows	Quantitative variable: Settlement index (0 to 1)						
(21)	Liquidity depth	Quantitative variable: Liquidity index (0 to 1)						
(22)	Volatility in price	Quantitative variable: Volatility index (Inverse) (0 to 1)						

Table 10: Moneyness taxonomy (3rd iteration)

Dimension	Category	Characteristics							
<i>Longevity</i>									
	DURABILITY								
(1)	In/extra-protocol persistence	Quantitative variable: Technical / social antifragility index (0 to 1)							
(2)	Lindy type time-dependent effects	Quantitative variable in the time domain (0 to 1)							
	RESILIENCE								
(3)	Network & protocol robustness	Quantitative variable: Robustness index (0 to 1)							
(4)	Key entity risk / Layer N risk / Smart Contract risk / Cryptography risk	Quantitative variable: Externality index (Inverse) (0 to 1)							
(5)	Balance between network participants	Quantitative variable: Alignment index (Inverse) (0 to 1)							
<i>Portability</i>									
(6)	Transactional friction	Quantitative variable: Friction index (Inverse) (0 to 1)							
<i>Pervasiveness</i>									
(7)	Realness / Materiality	Quantitative variable: Materiality index (0 to 1)							
(8)	Memeticism / Simulacrisation	Quantitative variable: Protocol breadth index (0 to 1)							
(9)	Protocol breadth at time t	Quantitative variable: Liquidity index (0 to 1)							
(10)	Liquidity depth	Quantitative variable: Maturity index (0 to 1)							
(11)	Network maturity at time t	Quantitative variable: Legitimacy index (0 to 1)							
(11)	Network legitimacy at time t	Quantitative variable: Legitimacy index (0 to 1)							
<i>Fungibility / Privacy</i>									
(12)	In protocol	Full transparency A (0)	Opt-in privacy B (0.3)	Private with selective audit C (0.65)	Fully private D (1)				
(13)	Extra protocol	Coin mixing A (0.25)	Sender obfuscation B (0.25)	Node level C (0.25)	L2 / Sidechain D (0.25)	Combinations thereof E (0 to 1)	None F (0)		
<i>Supply Dynamics</i>									
(14)	Initial issuance mechanism	PoW A (1)	Costly PoX e.g Proof-of-Burn B (0.8)	Snapshot / Fork / Airdrop C (0.6)	Costless PoX D (0.45)	Arbitrary Mint / Premine / Instamine E (0.3)	ICO F (0.15)	SAFT/Deferred Distribution G (0)	
(15)	Ongoing issuance mechanism	PoW A (1)	PoX B (0.75)	Arbitrary Mint (algorithmic / autonomous) C (0.5)	Arbitrary Mint (centrally controlled) D (0.25)	None E (0)			
(16)	Price elasticity of supply	Quantitative variable: Price Elasticity of Supply / unforgeable costliness (0 to 1)							
(17)	Inflation	None A (1)	Fixed/known B (0.5)	Adaptive/variable C (0)					
(18)	Scarcity	Hard cap (algorithmically enforced) A (1)	Cap (social consensus / implied) B (0.65)	No cap (promised) C (0.3)	No cap (no promise) D (0)				
(19)	Asset supply concentration	Quantitative variable: Proportion of supply controlled by insiders/foundation (Inverse) (0 to 1)							
<i>Demand Dynamics / Usefulness</i>									
(20)	Asset purpose	Access to service A (0.15)	Rights to CFs B (0.15)	Reward potential / spec. C (0.15)	Volatility hedge D (0.15)	SoV E (0.15)	Issuer-mandated airdrops F (0.15)	Payment / MoE G (0.15)	Combination / none H (0 to 1)
(21)	Asset utility at time t	Quantitative variable: Utility index (0 to 1)							
(22)	Settlement and value flows	Quantitative variable: Settlement index (0 to 1)							

Table 11: Commodityness taxonomy (3rd iteration)

	wt /	BTC	ETH	XRP	EOS	LTC	BCH	USDT	XLM	TRX	BNB
1 Profit share / cost red	0.025	0	0	0	0.3	0	0	0	0.3	0.3	0.3
2 Rights to CFs	0.025	0	0	0	0.4	0	0	0	0	0.4	0
3 Marketing Claims / Investor Expectations	0.05	0	0.7	0.85	1	0.2	0.3	0.3	0.7	1	0.8
4 Network Function	0.15	0.1	0.5	0.8	0.9	0.3	0.15	0.2	0.8	0.6	0.8
5 Asset Utility	0.1	0.3	0.45	0.8	0.9	0.4	0.5	0.2	0.7	0.85	0.85
6 Initial Issuance Mech	0.1	0	0.85	0.7	0.85	0	0.4	0.2	0.7	0.85	0.85
7 Ongoing Issuance Mech	0.05	0	0	1	0.55	0	0	0.75	1	0.25	1
8 Stakeholder Balance	0.1	0.2	0.65	0.9	0.8	0.5	0.6	0.7	0.9	1	1
9 Governance Type	0.025	0	0.2	0.2	0.6	0	0.2	0.2	0.2	0.6	0.3
10 Token-Holder Vote Rights	0.025	0	0	0	0.5	0	0	0	0	0.5	0.2
11 Treasury Supply Control	0.05	0	0.4	0.85	0.5	0.2	0	1	0.9	0.9	0.9
12 Power Asymm	0.1	0.2	0.6	0.9	1	0.3	0.4	0.8	0.9	0.9	0.9
13 Primacy Algo/Human Code & Assets	0.1	0	0.75	0.9	1	0.3	0.3	1	0.9	0.9	0.9
14 Network Centrality / Distn	0.05	0	0.2	0.7	0.8	0.4	0.3	1	0.9	0.9	0.9
15 Permissioned/Proprietary Elements	0.025	0	0	0.6	0	0	0	1	0.6	0	0.6
16 Ease of Node Operation / Compatability	0.025	0.1	0.3	0.6	0.9	0.1	0.2	1	0.6	0.9	1
TS10 SCORE		0.09	0.48	0.75	0.80	0.24	0.28	0.53	0.75	0.76	0.81

Table 12: Security category assignments and scores as of April 2019

	wt /	BTC	ETH	XRP	EOS	LTC	BCH	USDT	XLM	TRX	BNB
1 In/extra-protocol persistence	0.025	0.6	0.1	0.05	0.1	0.25	0.2	0.3	0.05	0.05	0.05
2 Lindy type time-dependent effects	0.025	0.3	0.15	0.05	0	0.2	0.05	0.1	0.05	0	0
3 Network robustness	0.05	0.4	0.2	0	0	0.15	0.05	0.05	0	0	0
4 Externality risk	0.05	0.3	0.1	0.05	0.025	0.15	0.05	0	0.05	0	0
5 Stakeholder alignment	0.05	0.65	0.8	0.1	0.1	0.3	0.1	0	0.05	0.025	0.025
6 Transactional friction	0.025	0.3	0.3	0.05	0.05	0.2	0.2	0.2	0.1	0.1	0.025
7 Realness / materiality	0.05	0.75	0.15	0.05	0.05	0.025	0.05	0.1	0.05	0.05	0
8 Protocol breadth	0.1	0.2	0.1	0.05	0.025	0.075	0.05	0.1	0.05	0.025	0
9 Network maturity	0.05	0.3	0.1	0.1	0.025	0.15	0.05	0.1	0.1	0.05	0.025
10 Network legit	0.025	0.6	0.4	0.1	0.2	0.05	0.1	0.1	0.1	0.05	0.025
11 Fung/priv in-prot	0.1	0	0	0	0	0	0	0	0	0	0
12 Fung/priv extra-prot	0.025	0.6	0.2	0	0	0.2	0.2	0	0	0	0
13 Initial issuance	0.025	1	1	0.3	0.15	1	1	0.8	0.3	0.15	0.15
14 Ongoing issuance	0.025	1	1	0	0.75	1	1	0.25	0	0.75	0.75
15 Price inelasticity	0.025	0.8	0.5	0.1	0.1	0.35	0.8	1	0.1	0.1	0.1
16 Inflation	0.025	0.5	0	1	0	0.5	0.5	0	1	0.5	0.5
17 Scarcity	0.025	1	0.3	1	0	1	1	0	1	0.3	0.3
18 Asset supply conc	0.05	0.5	0.3	0.1	0.15	0.2	0.2	0.2	0.05	0.05	0.05
19 Acceptability paym	0.1	0.3	0.15	0.05	0.05	0.1	0.1	0.1	0.05	0.025	0.025
20 Settlement/valflows	0.05	0.4	0.1	0.05	0.025	0.01	0.05	0.15	0.05	0.025	0.025
21 Liquidity depth	0.05	0.25	0.1	0.025	0.01	0.01	0.025	0.5	0.025	0.025	0.025
22 Volatility	0.05	0.3	0.1	0.05	0.05	0.05	0.05	1	0.05	0.05	0.05
TS10 SCORE		0.41	0.22	0.10	0.06	0.19	0.17	0.19	0.10	0.07	0.06

Table 13: Moneyness category assignments and scores as of April 2019

	wt /	BTC	ETH	XRP	EOS	LTC	BCH	USDT	XLM	TRX	BNB
1 In/extra-protocol persistence	0.025	0.6	0.1	0.05	0.1	0.25	0.2	0.3	0.05	0.05	0.05
2 Lindy type time-dependent effects	0.025	0.3	0.15	0.05	0	0.2	0.05	0.1	0.05	0	0
3 Network robustness	0.025	0.4	0.2	0	0	0.15	0.05	0.05	0	0	0
4 Externality risk	0.025	0.3	0.1	0.05	0.025	0.15	0.05	0	0.05	0	0
5 Stakeholder alignment	0.025	0.8	0.25	0.1	0.1	0.3	0.1	0	0.05	0.025	0.025
6 Transactional friction	0.025	0.3	0.3	0.05	0.05	0.2	0.2	0.2	0.1	0.1	0.025
7 Realness / materiality	0.05	0.75	0.15	0.05	0.05	0.025	0.05	0.1	0.05	0.05	0
8 Protocol breadth	0.025	0.2	0.1	0.05	0.025	0.075	0.05	0.1	0.05	0.025	0
9 Liquidity depth	0.025	0.25	0.1	0.025	0.01	0.01	0.025	0.5	0.025	0.025	0.025
10 Network maturity	0.025	0.3	0.1	0.1	0.025	0.15	0.05	0.1	0.1	0.05	0.025
11 Network legit	0.025	0.6	0.4	0.1	0.2	0.05	0.1	0.1	0.1	0.05	0.025
12 Fung/priv in-prot	0.025	0	0	0	0	0	0	0	0	0	0
13 Fung/priv extra-prot	0.025	0.6	0.2	0	0	0.2	0.2	0	0	0	0
14 Initial issuance	0.025	1	1	0.3	0.15	1	1	0.8	0.3	0.15	0.15
15 Ongoing issuance	0.025	1	1	0	0.75	1	1	0.25	0	0.75	0.75
16 Price inelasticity	0.05	0.8	0.5	0.1	0.1	0.35	0.8	1	0.1	0.1	0.1
17 Inflation	0.025	0.5	0	1	0	0.5	0.5	0	1	0.5	0.5
18 Scarcity	0.025	1	0.3	1	0	1	1	0	1	0.3	0.3
19 Asset supply conc	0.025	0.5	0.3	0.1	0.15	0.2	0.2	0.2	0.05	0.05	0.05
20 Asset purpose	0.05	0.6	0.75	0.45	0.6	0.6	0.6	0.45	0.6	0.6	0.6
21 Asset utility	0.375	0.9	0.6	0.2	0.1	0.4	0.3	0.3	0.3	0.1	0.1
22 Settlement/val flows	0.05	0.4	0.1	0.05	0.025	0.01	0.05	0.15	0.05	0.025	0.025
TS10 SCORE		0.68	0.42	0.18	0.12	0.34	0.31	0.27	0.23	0.13	0.12

Table 14: Commodity category assignments and scores as of April 2019