

ACTUS + DLT = SFC

Smart Financial Contracts

casper

Mark Greenslade June '23

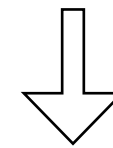
**SFC
Integrity**

**SFC
Tokenisation**

**SFC
Payments**

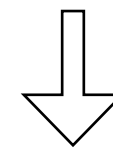
ACTUS

(Counter Parties, Term Set, Algorithm, Cash Flows)



Cryptographic Proofs

(Signatures, Attestations, Fingerprints, ZK-Proofs)

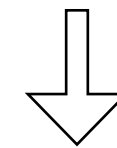


DLT

(Smart Contract)

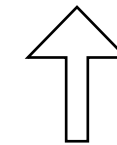
Minting

(Identifiers, Direction, Counter Parties, Balances, Metadata)



DLT

(Smart Contract)

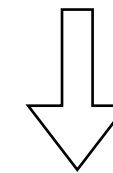


Servicing

(Auditors, Rating, Regulators, Markets)

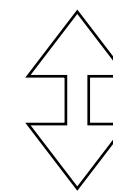
ACTUS Cash Flow

(Timestamp, Direction, Amount, Denomination, Obligor)



Payments Engine

(Verify, Calculate, Open, Close, Default, Notify)



DLT

(Smart Contract)

SFC Principles

- **Occams Razor**
As Little As Possible, As Much As Necessary
- **Chain Agnostic**
Standard Smart Contracts
- **Privacy Preserving**
Who, What, When, Why
- **Trust But Verify**
Cryptographic Proofs Everywhere

SFC Challenges

- **Regulatory Certitude**
Robust. Nuanced. Adaptive.
- **Counter-Party Risk**
Identity -> KYC/AML. Defaults -> ???
- **Post Quantum Security**
Cryptography equivalent to Y2K
- **Jurisdictional Anchoring**
Smart Legal Contracts
- **Technological Flux**
Multi-Decadal Platforms

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