



chaincode

Breaking Bitcoin Core

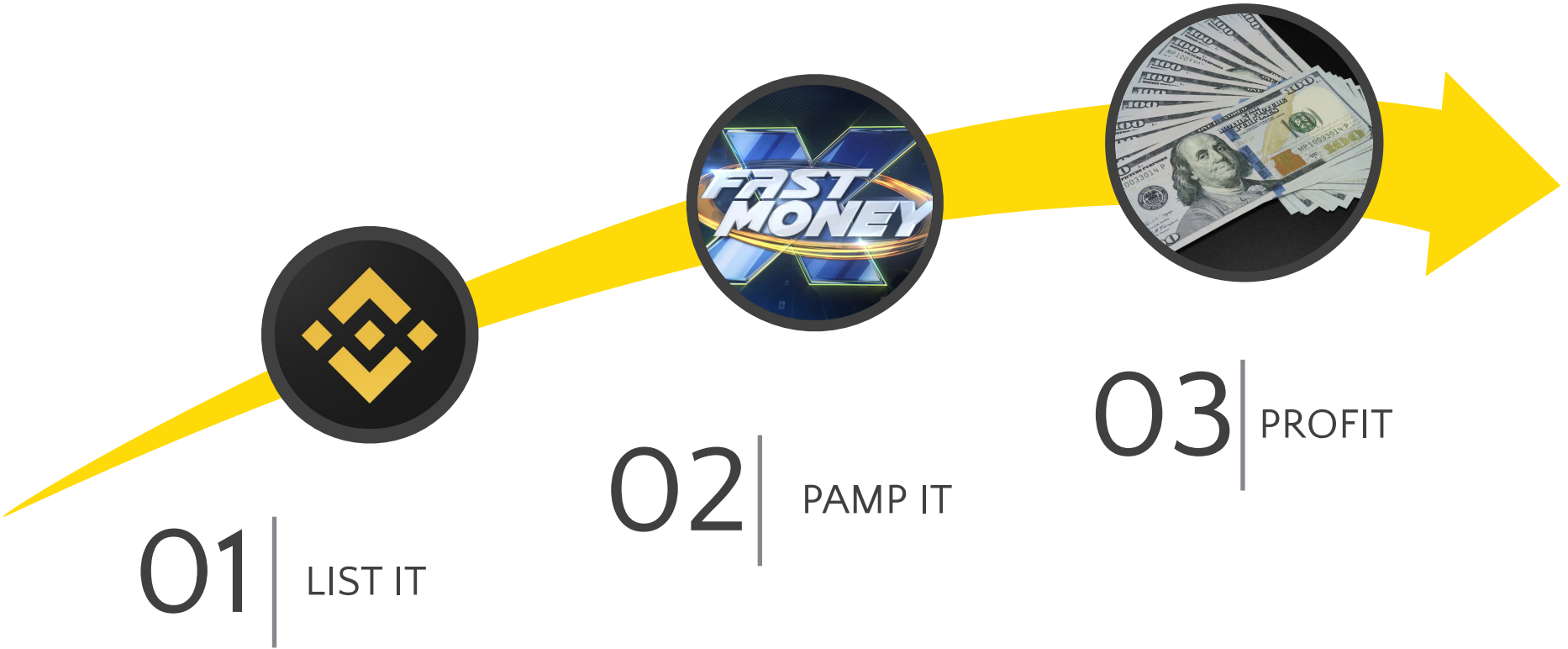
Chaincode Residency, June 20th 2019

Introducing

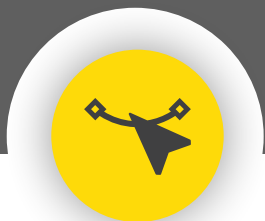


Bitcoin Residents' Vision

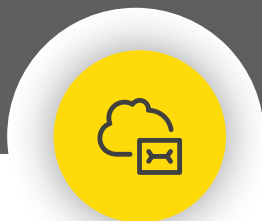
THE PLAN



UNIQUE FEATURES



MORE OPCODEs



**SATOSHI'S ORIGINAL
OP_RETURN VISION**



**REDUCE MEMPOOL
LIMITS**



**REMOVE UNNECESSARY
CHECKS**

MORE OPCODES

- Satoshi removed many of the original OPCODEs in 2010
- We've restored those OPCODEs including OP_CAT
- More OPCODEs = more features

Restore Satoshi's original OP_RETURN vision

- OP_RETURN was broken by Satoshi in 2010
- We've restored the original vision of OP_RETURN (and OP_*VERIFY)

Relax mempool limits

- CFP package size is needlessly limited to 25 txs
- RBF can only replace 100 txs
- We've relaxed those limits

Less unnecessary checking

- CheckBlock() previously skipped checking for duplicate inputs in a transaction
- This optimization was removed in 2018
- We've restored the duplicate input optimization

Your job - QA testing

- Make sure that we're safe from:
 - Stealing funds
 - Denial-of-service attacks
 - Inflation
 - Attacks on miners
 - ... and any other shenanigans.

Good luck!

<https://github.com/jnewbery/bitcoin/tree/2019-06-breaking-bitcoin-core>