

SECURE. PRIVATE. UNTRACEABLE.



MONERO

Rome, Italy

Welcome

Justin Ehrenhofer

Finance
Management Information Systems

/u/SamsungGalaxyPlayer or sgp_



UNIVERSITY OF MINNESOTA
Driven to DiscoverSM

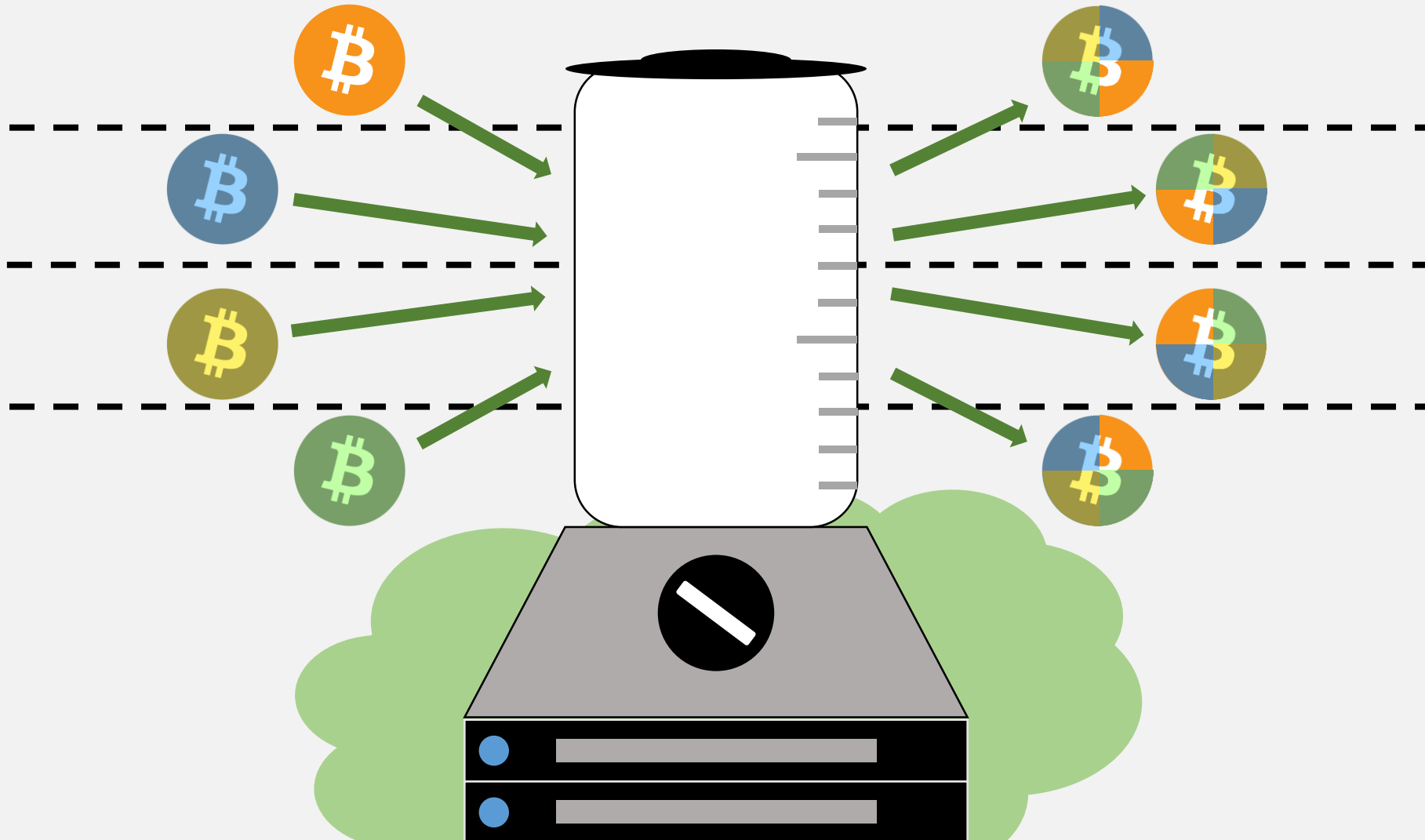


WIRTSCHAFTS
UNIVERSITÄT
WIEN VIENNA
UNIVERSITY OF
ECONOMICS
AND BUSINESS

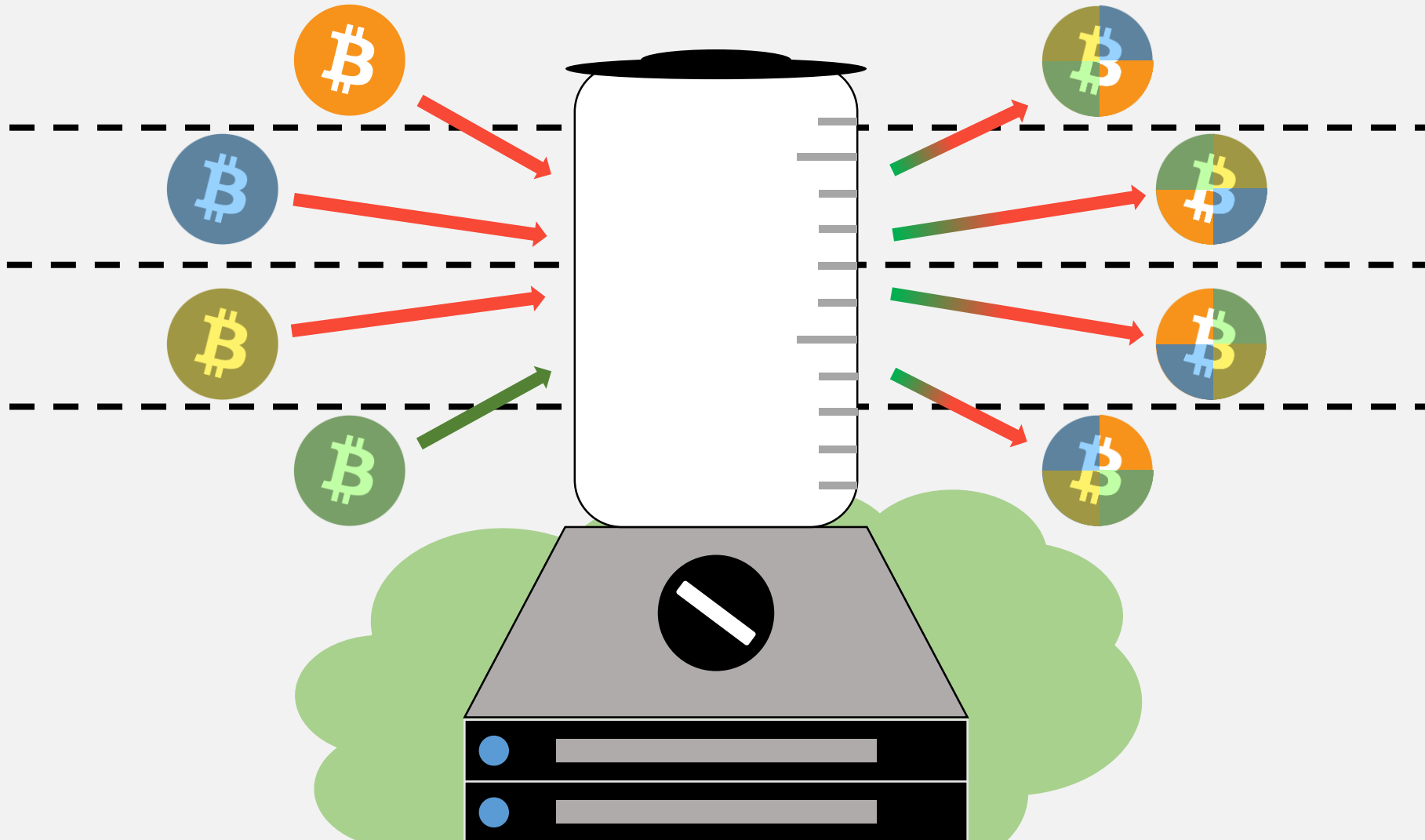


CryptoUMN.com

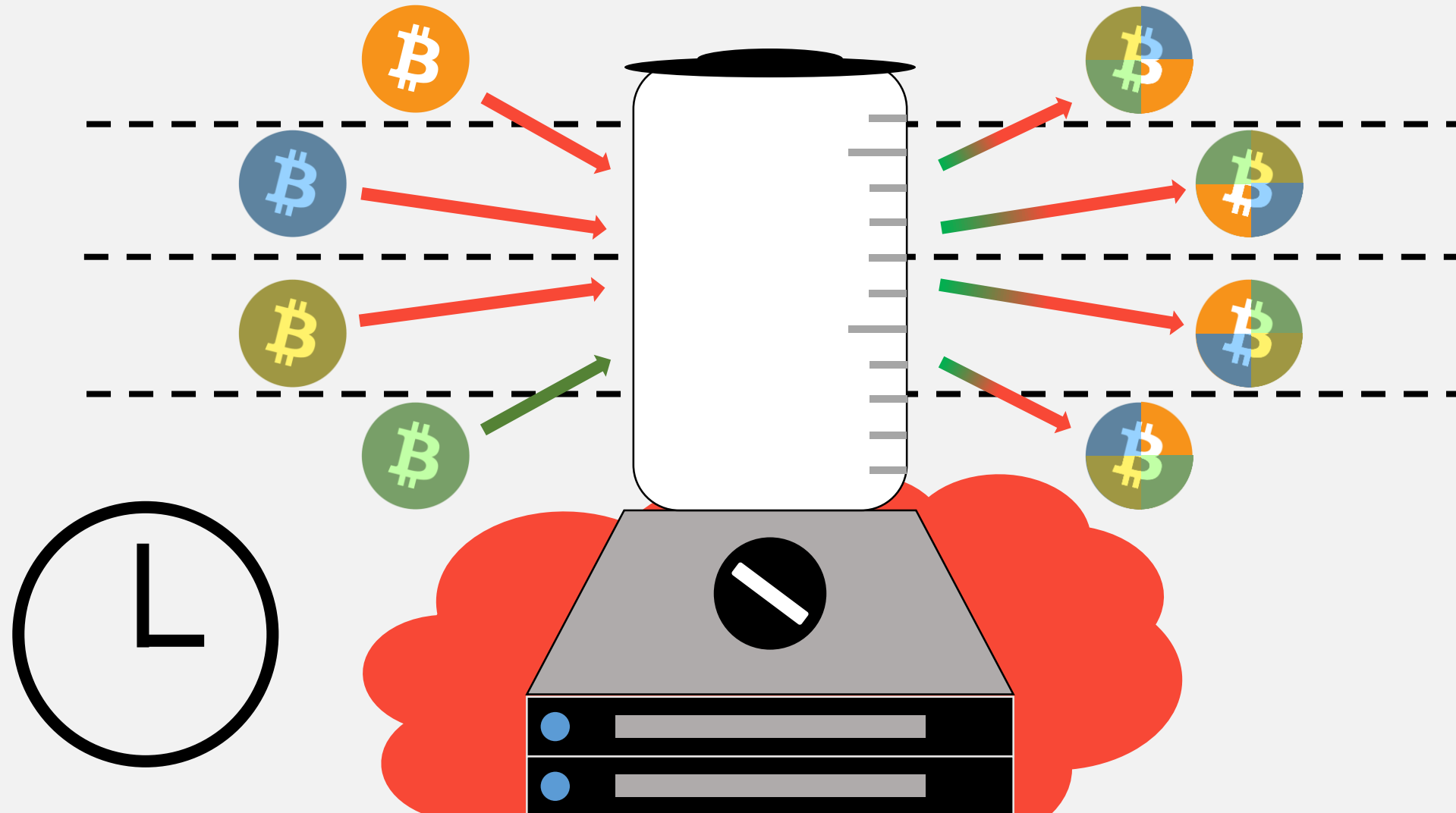
People Started Adding Tools to Bitcoin



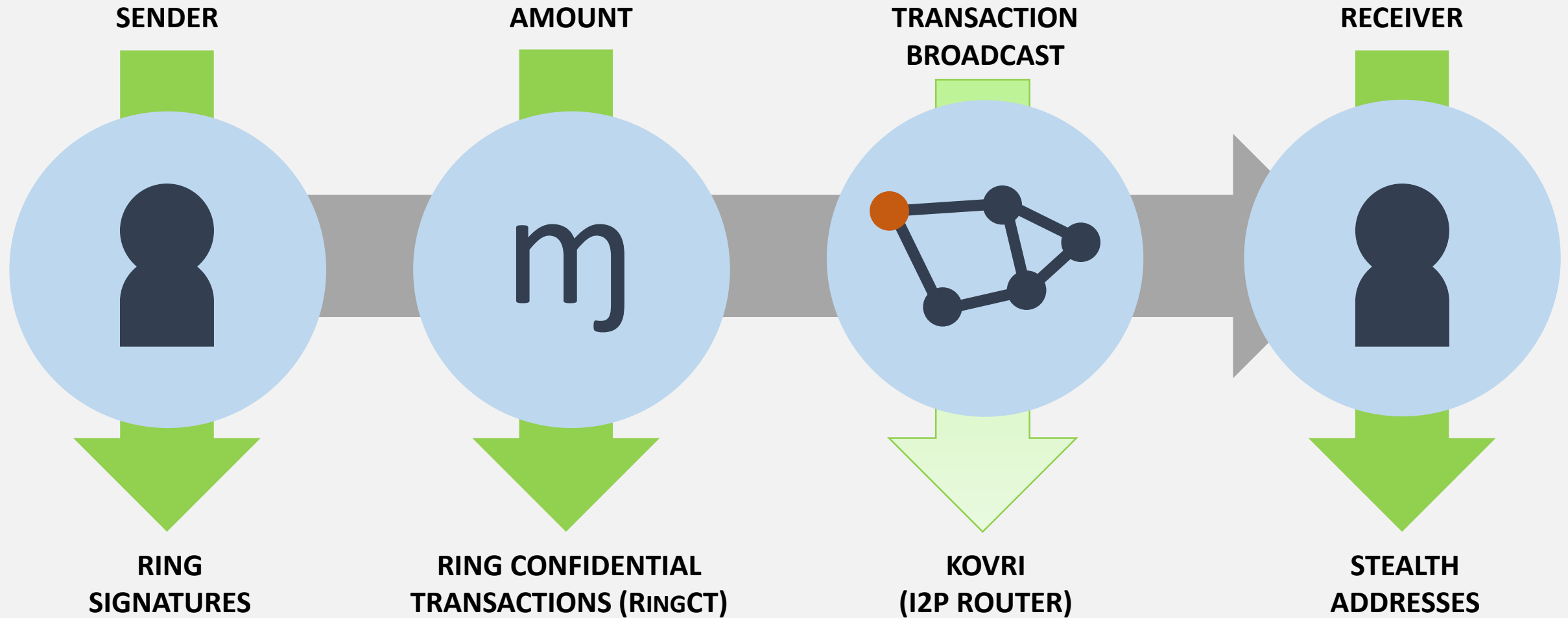
People Started Adding Tools to Bitcoin



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The Monero Difference



Ring Signatures & RingCT

BLOCKCHAIN

1 (Tx ID e4hn4ifqyd5ed)

8 (Tx ID hng6iwfumwf8)

15 (Tx ID wn3f4diiijffwn)

2 (Tx ID eshgni5lsvnf74)

9 (Tx ID cb8vqfi8dfj65f)

16 (Tx ID 5 f8wnfdmmii)

3 (Tx ID wb4f5hdfdicnd)

10 (Tx ID fnidmfnu3dm8)

17 (Tx ID h8fn5mdfi4w)

4 (Tx ID nh5nogsefwjw)

11 (Tx ID twv8mf8dnfas)

18 (Tx ID n48gfwmfdkl)

5 (Tx ID fgwinw3fwtk54)

12 (Tx ID h5o8mfdngkd)

19 (Tx ID fnidmnfdsam)

6 (Tx ID ybwnng8nengf)

13 (Tx ID 7nr8mrjffijdtm)

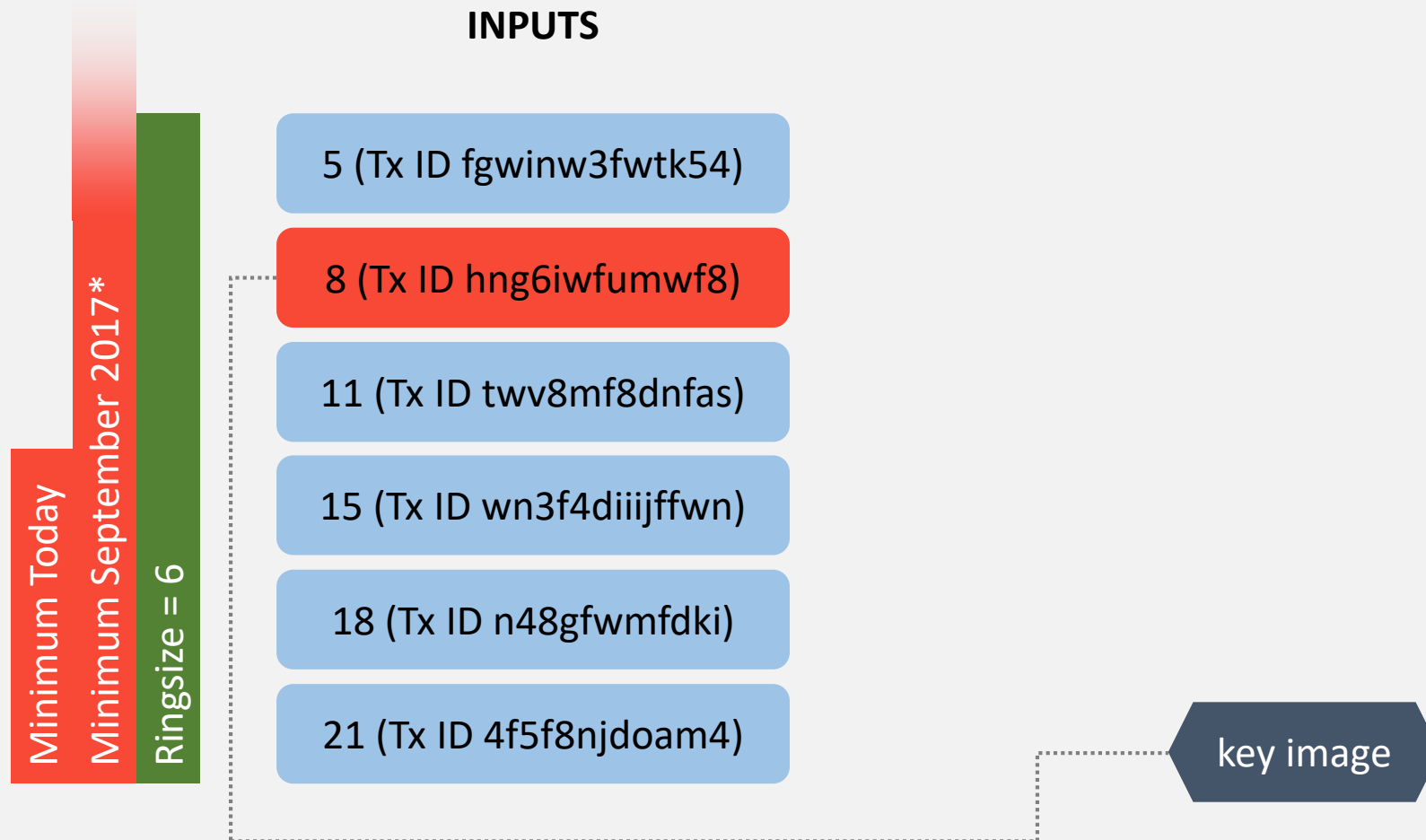
20 (Tx ID t4vn8lf8djer4)

7 (Tx ID e4bgn8flwwrj8)

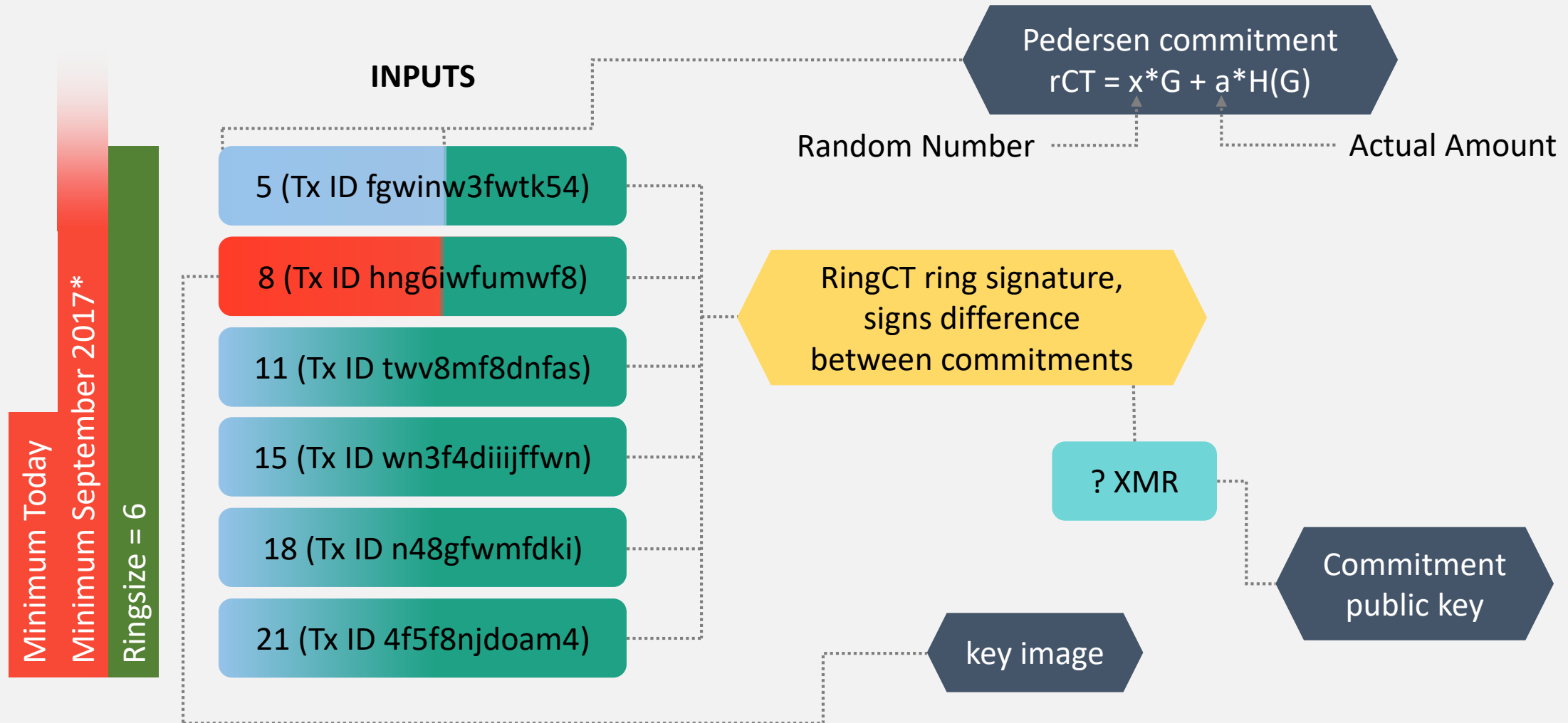
14 (Tx ID f8n8madkrjmd)

21 (Tx ID 4f5f8njdoam4)

Ring Signatures & RingCT

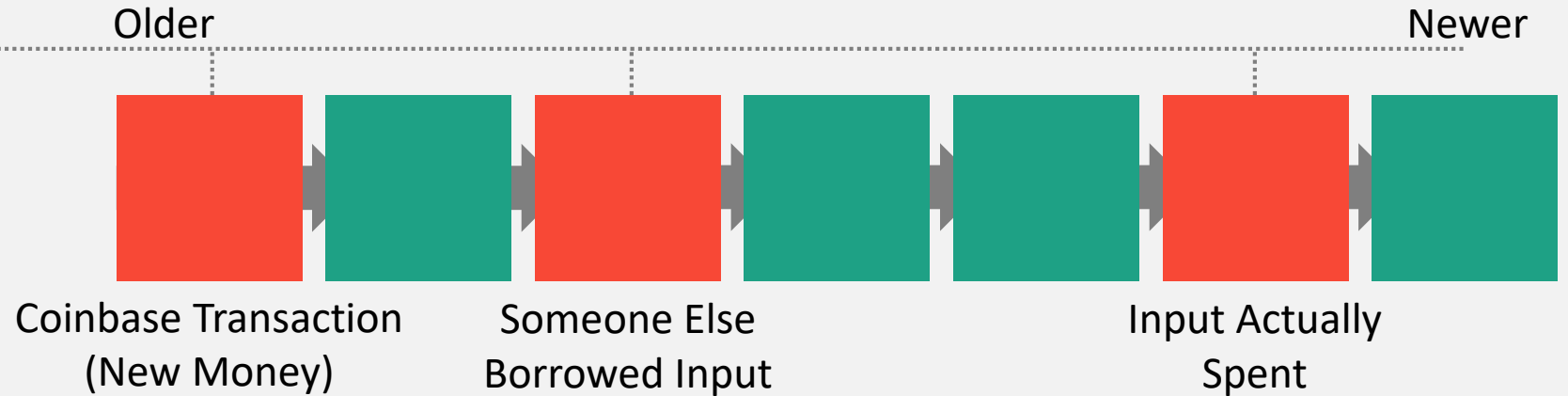
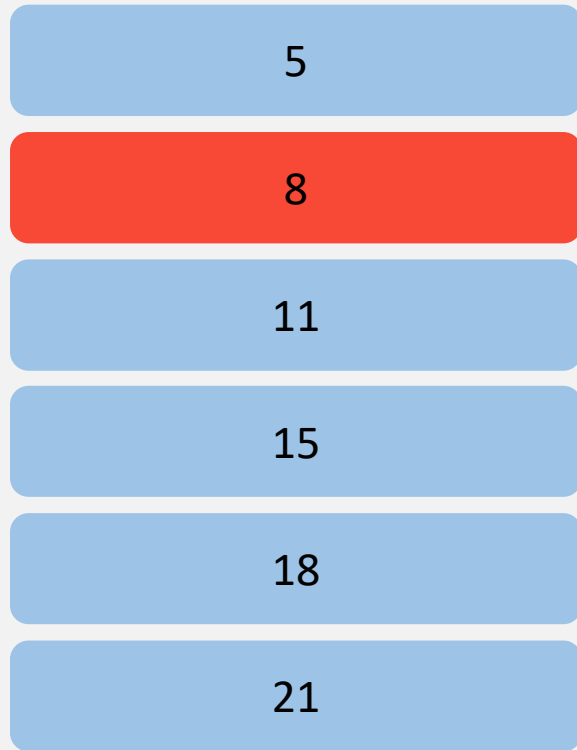


Ring Signatures & RingCT

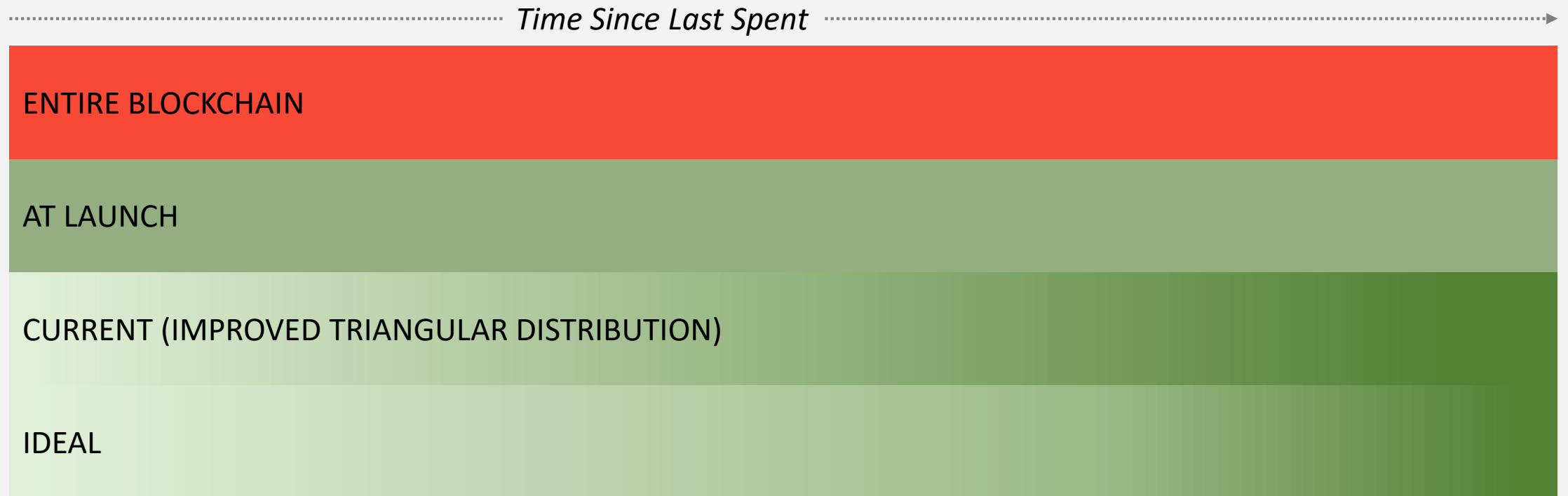


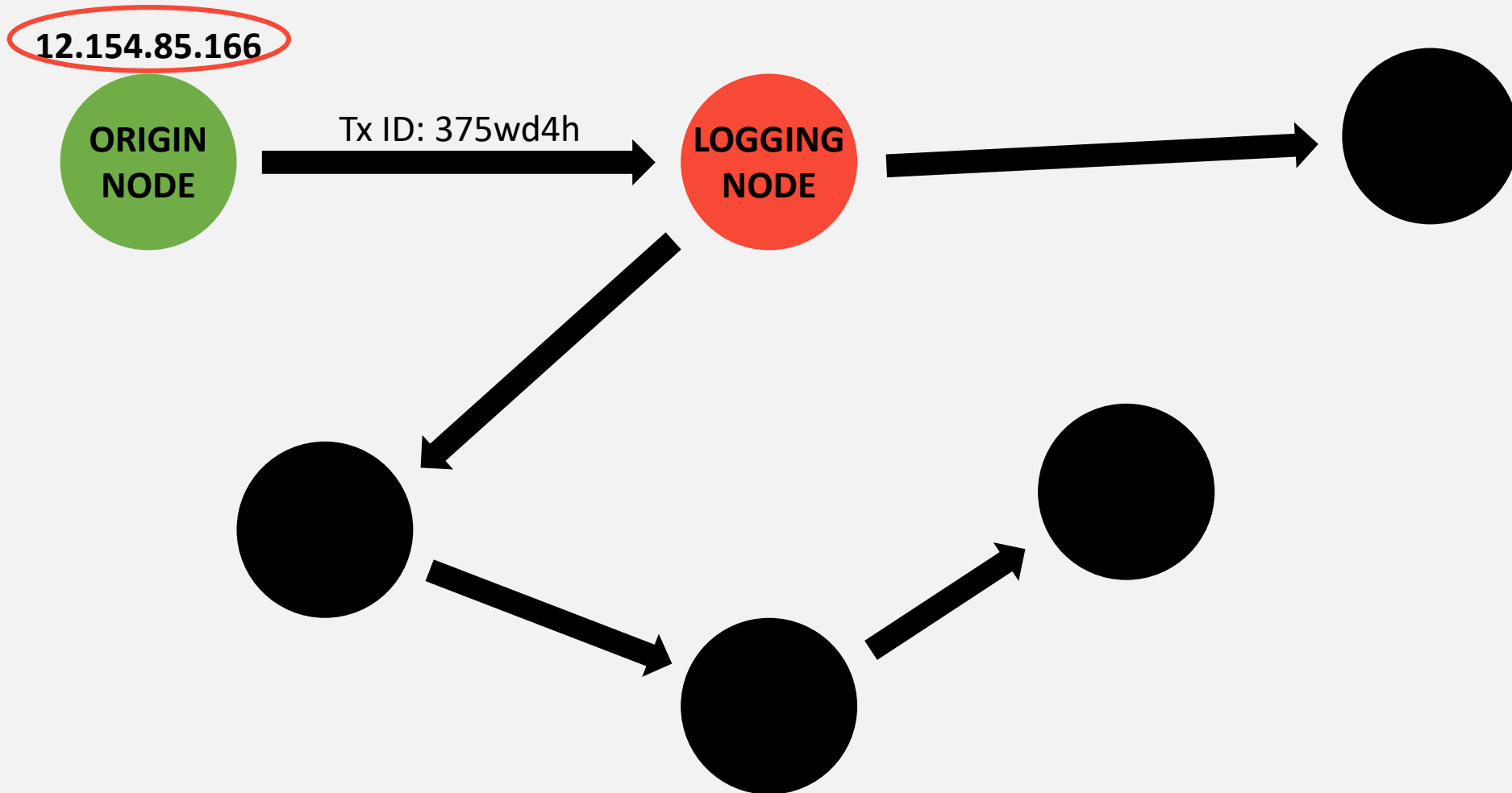
Ring Signatures & RingCT

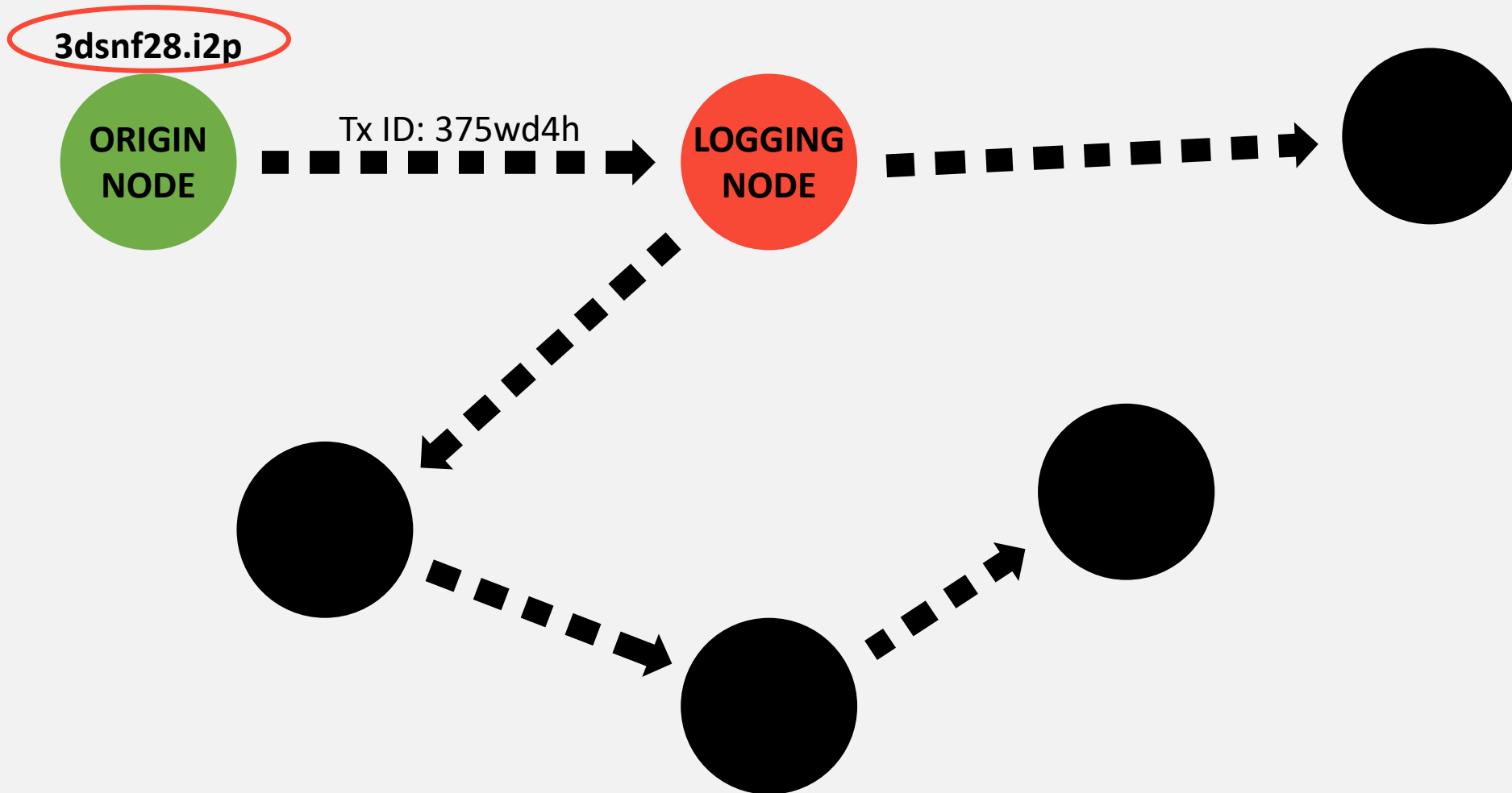
INPUTS



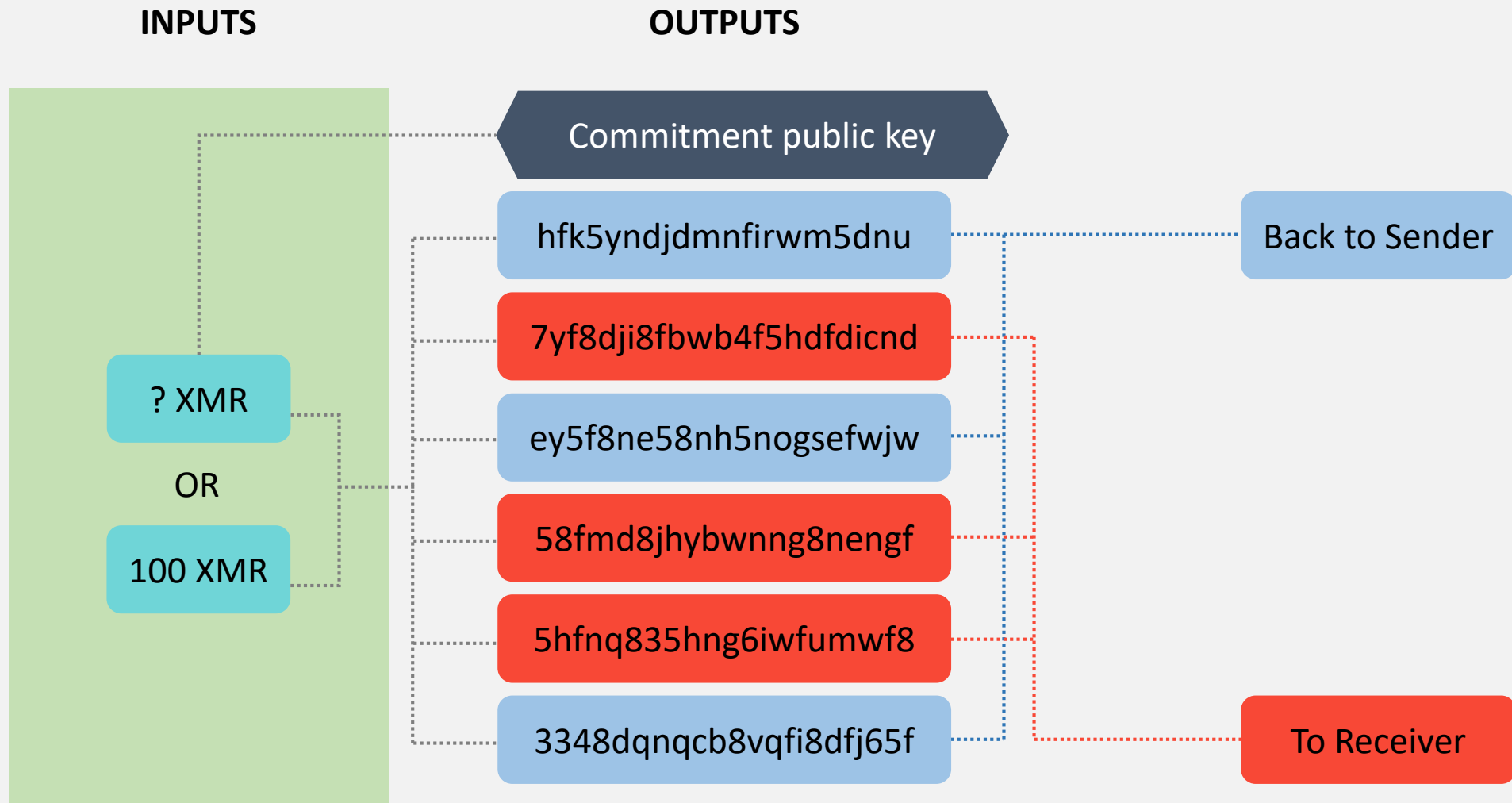
How Inputs Are Selected



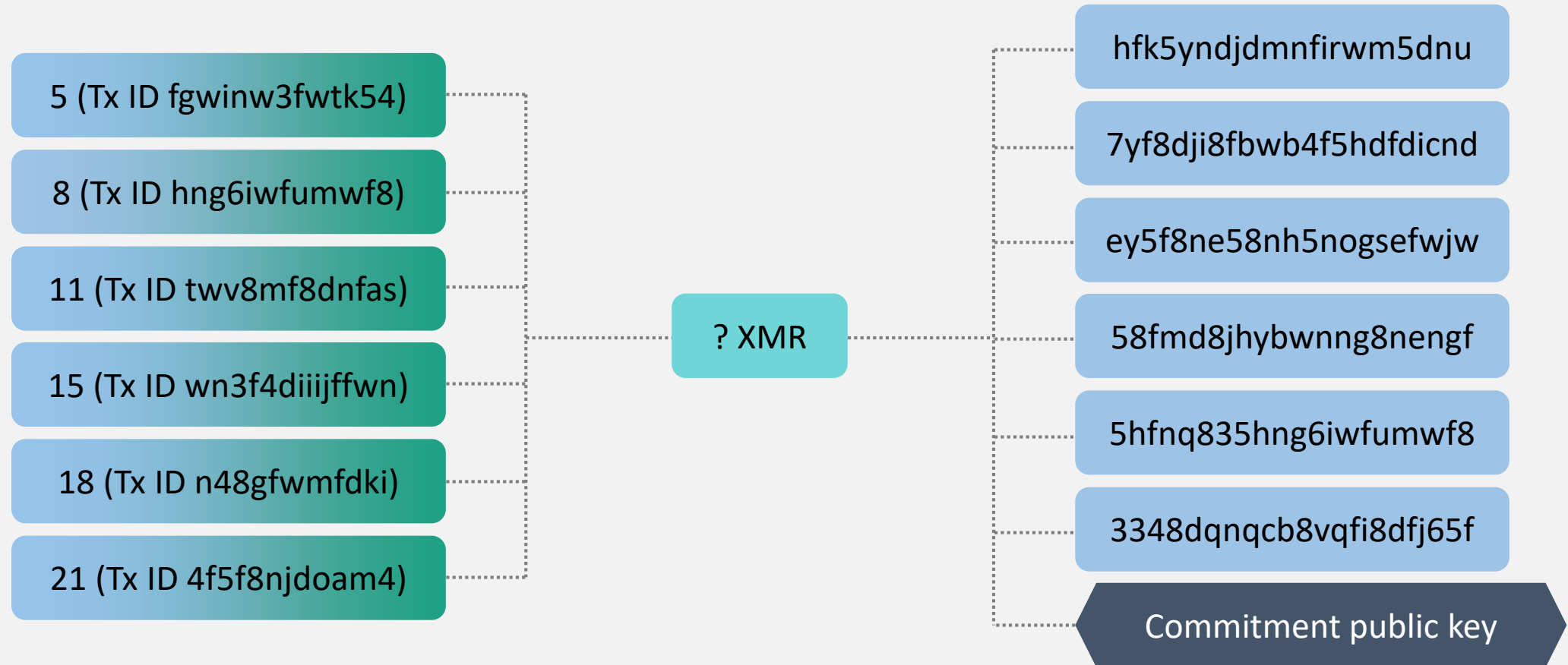




Stealth Addresses



Summary

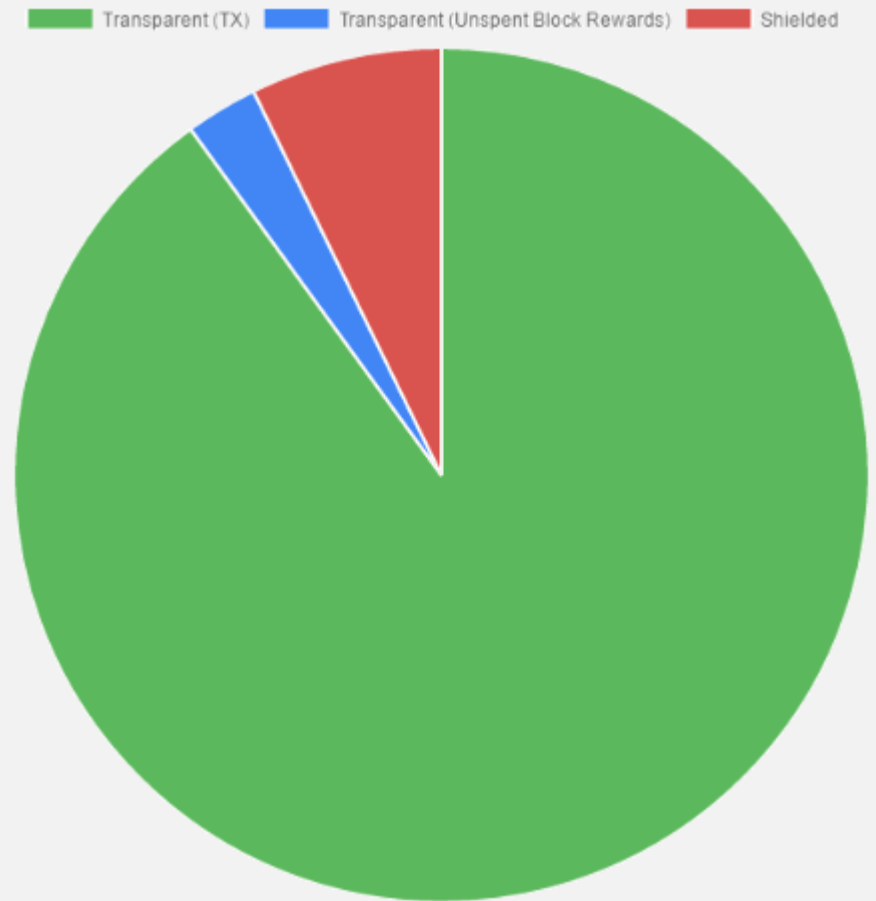


Mandatory Privacy

mixins used in transactions (%)

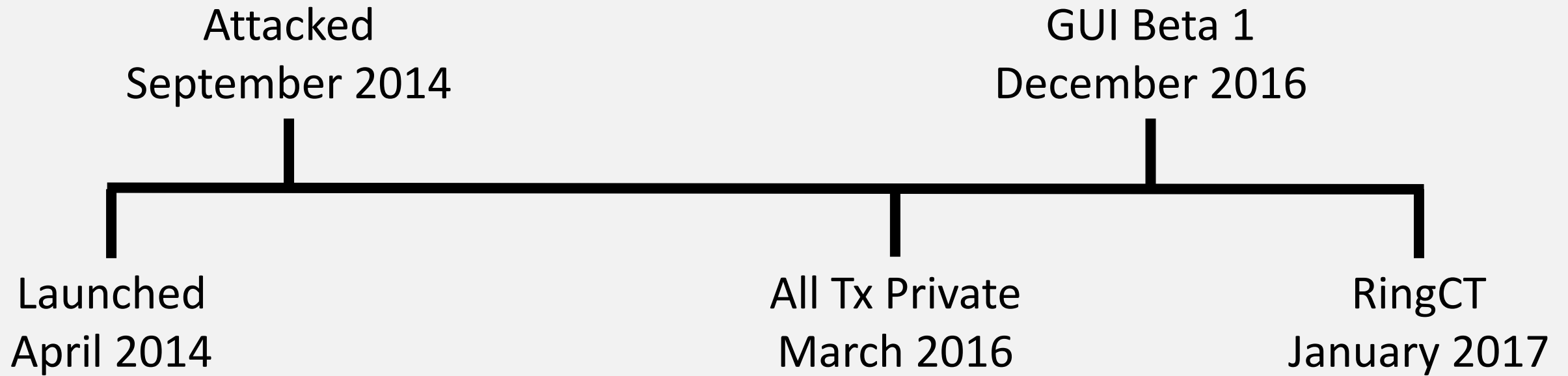
mixin:	none :(1 - 2	3 - 9
last day	66.74	10.95	20.25
last week	66.11	6.96	24.76
last month	64.47	5.42	28.13
last year	73.04	7.36	18.16

Source: MoneroBlocks.info 24 Feb 2016



Source: zcha.in 15 March 2017

A Brief History



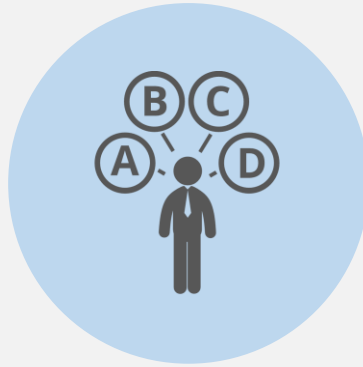
Regulatory Compliance and Transparency

(with the View Key)



Transparency

A view key is used to reveal all transactions for a Monero account, or just the key for a single transaction



Selected Parties

View keys can be given to selected parties, or can be made public



Charities

By publishing their view key, charities can invite easy public oversight



Parents

Children can be given their own accounts, and parents can monitor their spending

Monero Limitations



Ongoing Development



Multisig



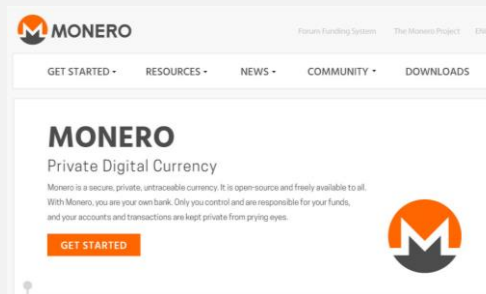
Sub-Addresses



Translations



Lightweight
Wallet

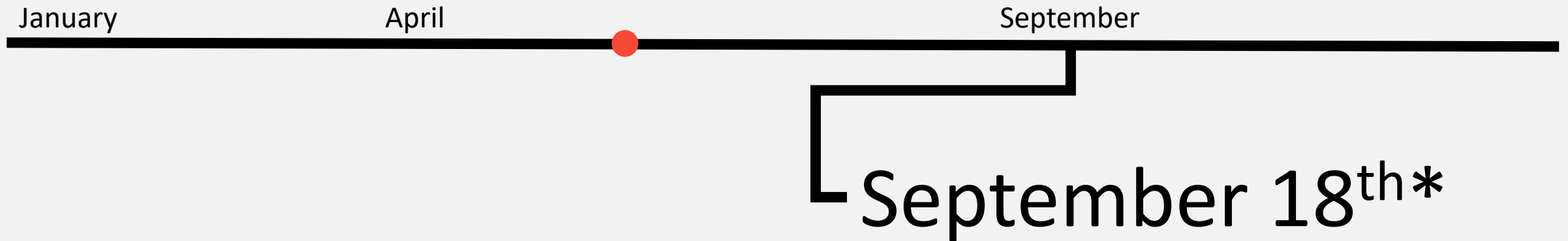


Website
Redesign



RingCT
Optimizations

Hardfork Schedule



- **Mandatory RingCT**
- **Minimum ringsize ≥ 5**
- Fluffy blocks
- Improved input selection algorithm

Thank You!



getmonero.org



[/r/Monero](https://www.reddit.com/r/Monero)



monero.stackexchange.com