

#### Welcome

Justin Ehrenhofer

Finance Management Information Systems

/u/SamsungGalaxyPlayer or sgp\_

Driven to Discover<sup>SM</sup>



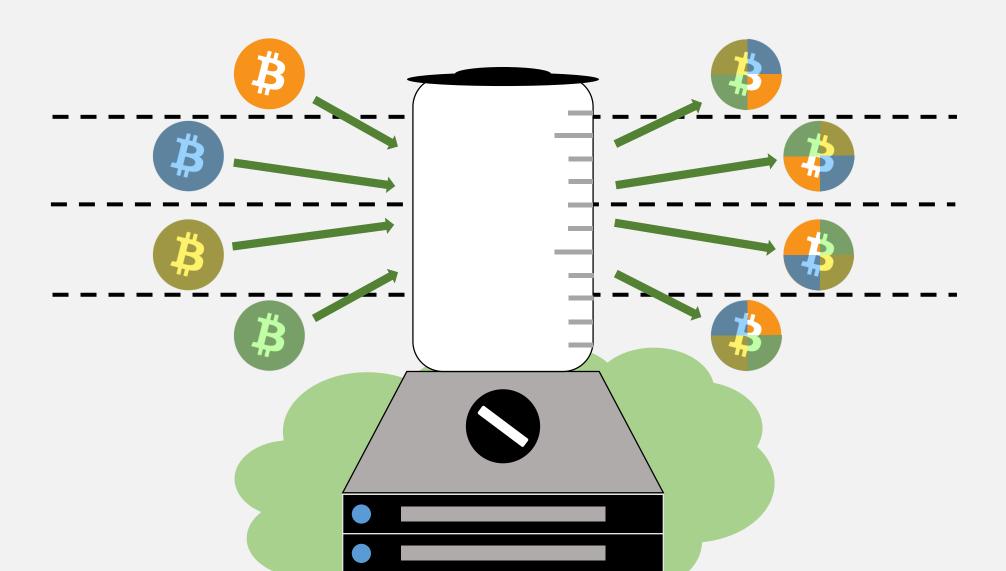




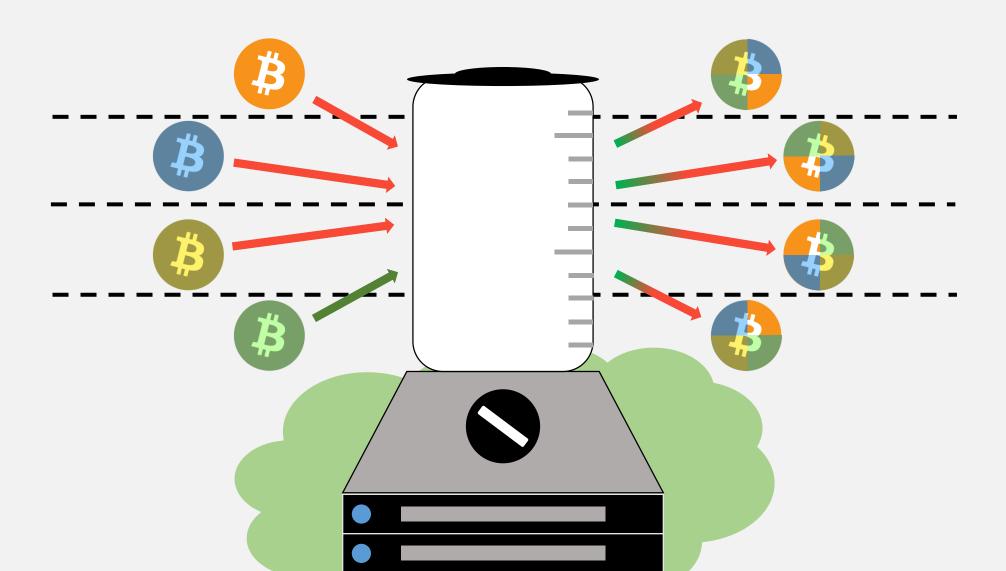
## A History of Decentralized Systems



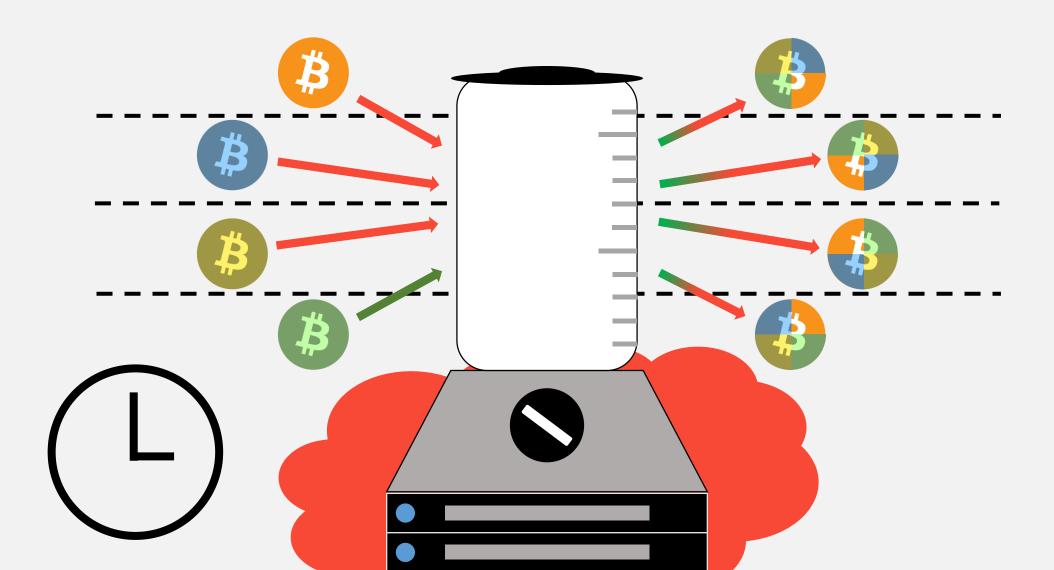
# People Started Adding Tools to Bitcoin



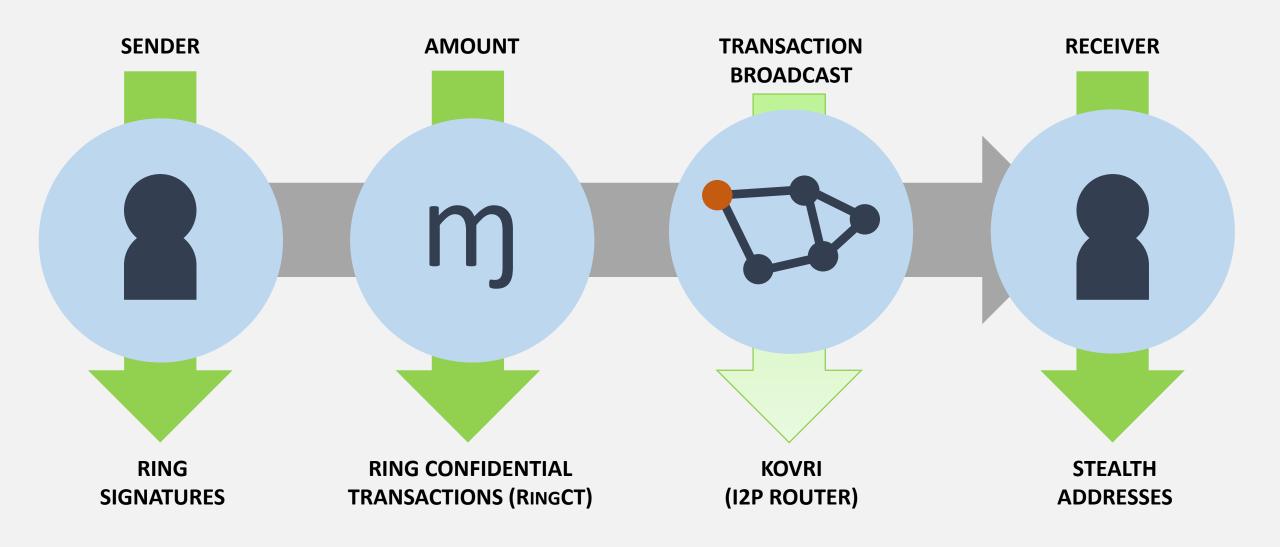
# People Started Adding Tools to Bitcoin



# People Started Adding Tools to Bitcoin



### The Monero Difference



**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 n48gfwmfdki)

5 (Tx ID fgwinw3fwtk54)

12 (Tx ID h5o8mfdngkd)

19 (Tx ID fnidmnfdsam)

6 (Tx ID ybwnng8nengf)

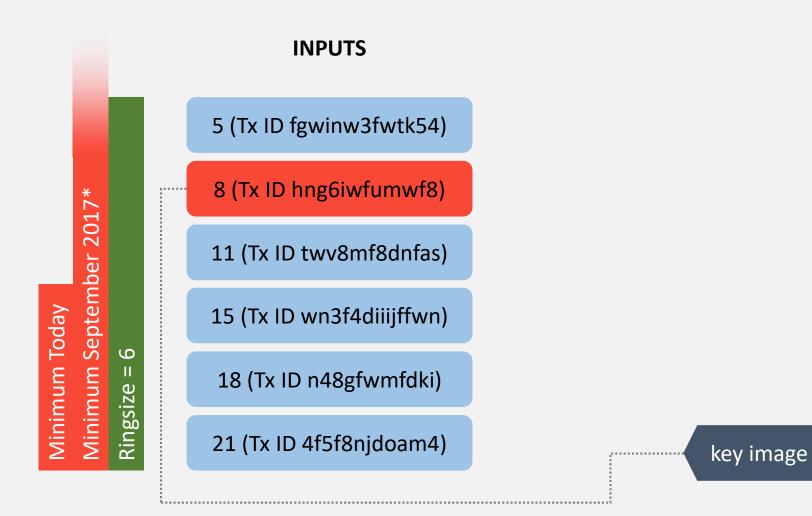
13 (Tx ID 7nr8mrjffijdtm)

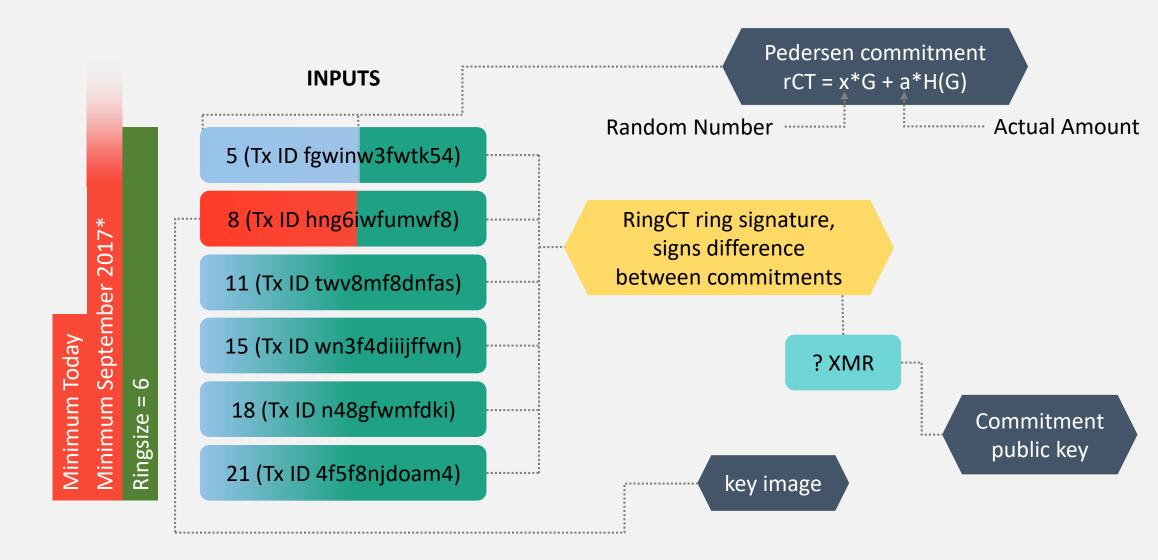
20 (Tx ID t4vn8lf8djer4)

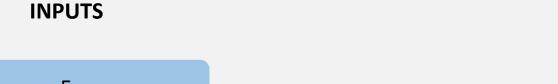
7 (Tx ID e4bgn8flwwrj8)

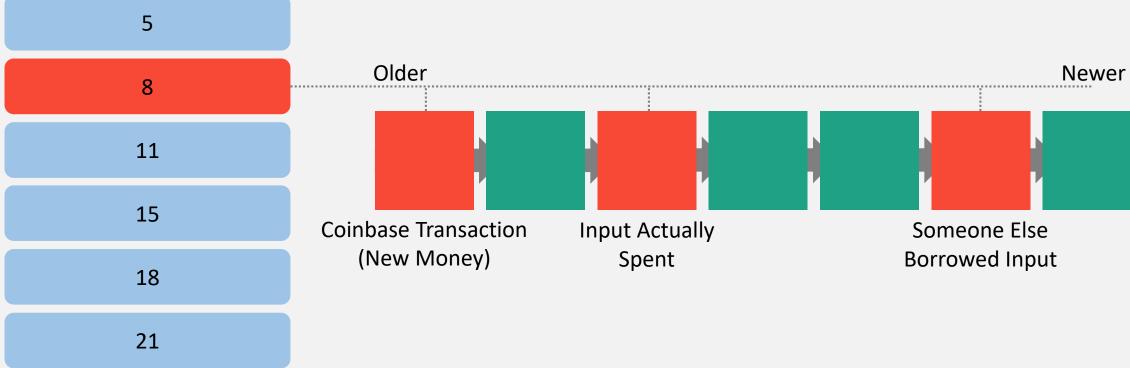
14 (Tx ID f8n8madkrjmd)

21 (Tx ID 4f5f8njdoam4)





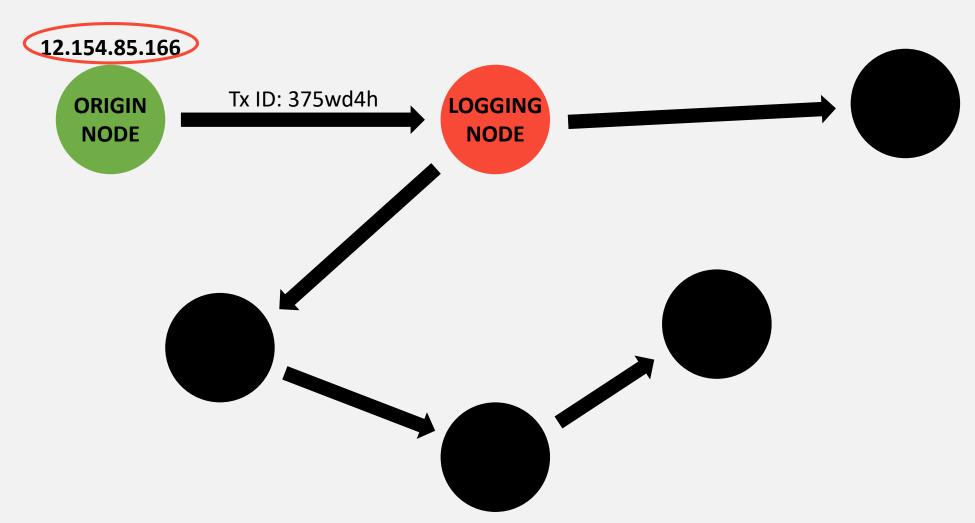




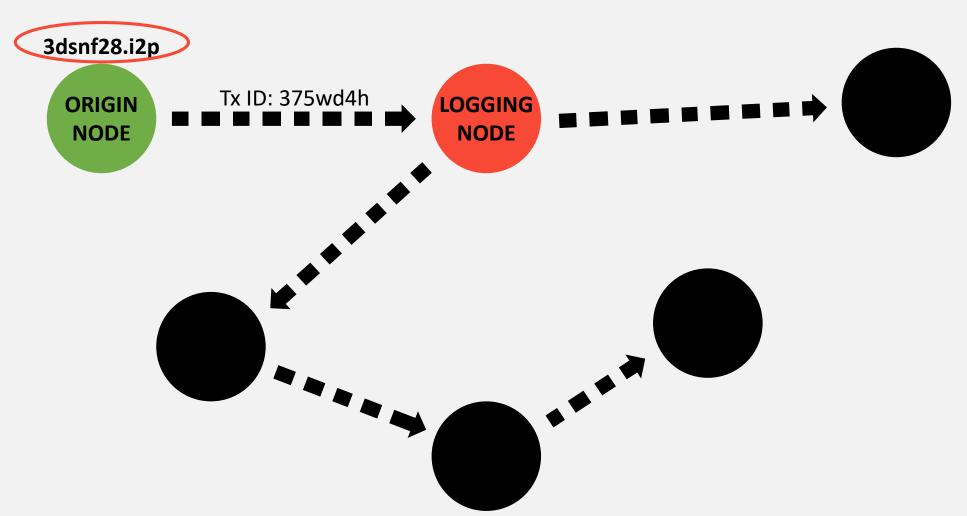
# How Inputs Are Selected

Time Since Last Spent **ENTIRE BLOCKCHAIN** AT LAUNCH **CURRENT (IMPROVED TRIANGULAR DISTRIBUTION) IDEAL** 

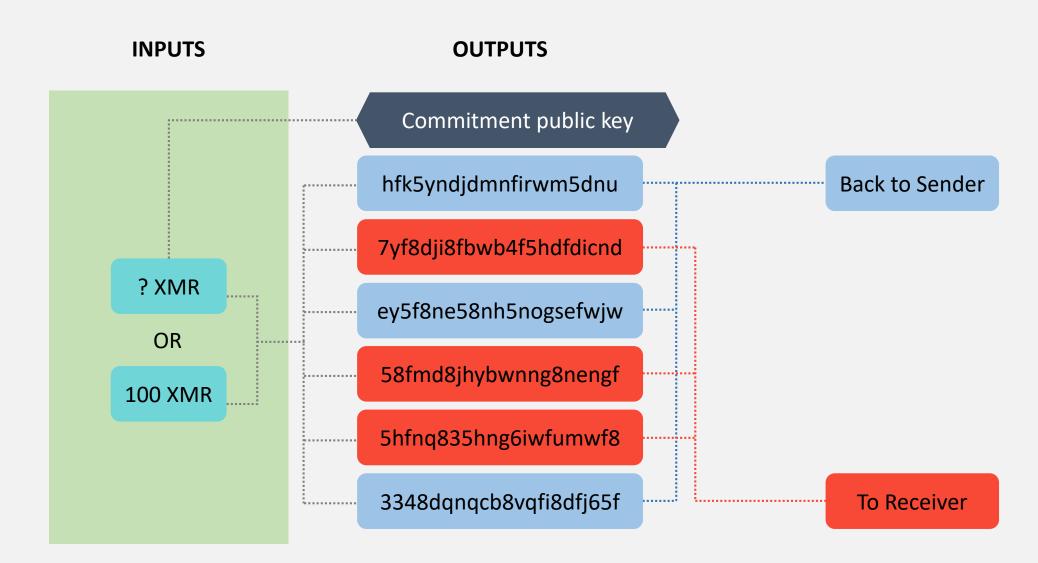








### Stealth Addresses



## Summary

? XMR

5 (Tx ID fgwinw3fwtk54)

8 (Tx ID hng6iwfumwf8)

11 (Tx ID twv8mf8dnfas)

15 (Tx ID wn3f4diiijffwn)

18 (Tx ID n48gfwmfdki)

21 (Tx ID 4f5f8njdoam4)

hfk5yndjdmnfirwm5dnu

7yf8dji8fbwb4f5hdfdicnd

ey5f8ne58nh5nogsefwjw

58fmd8jhybwnng8nengf

5hfnq835hng6iwfumwf8

3348dqnqcb8vqfi8dfj65f

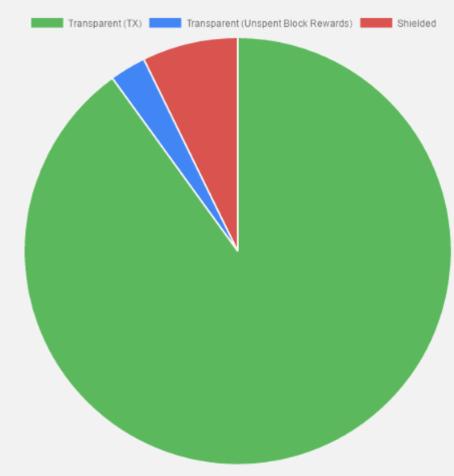
Commitment public key

# **Mandatory Privacy**

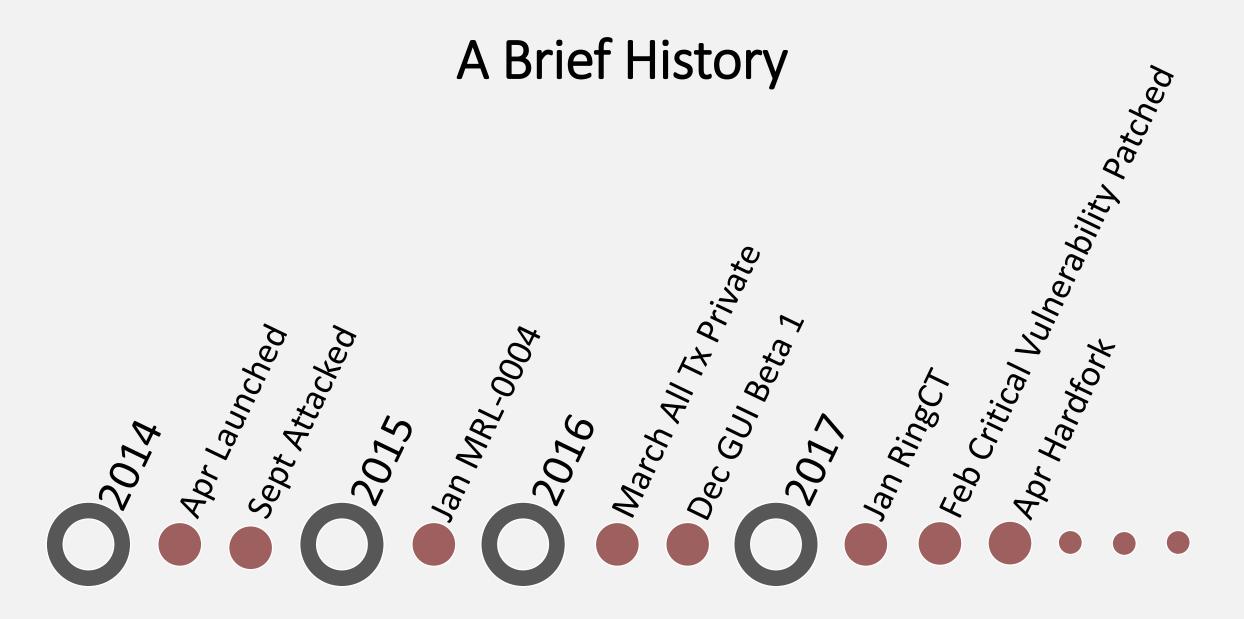
#### mixins used in transactions (%)

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

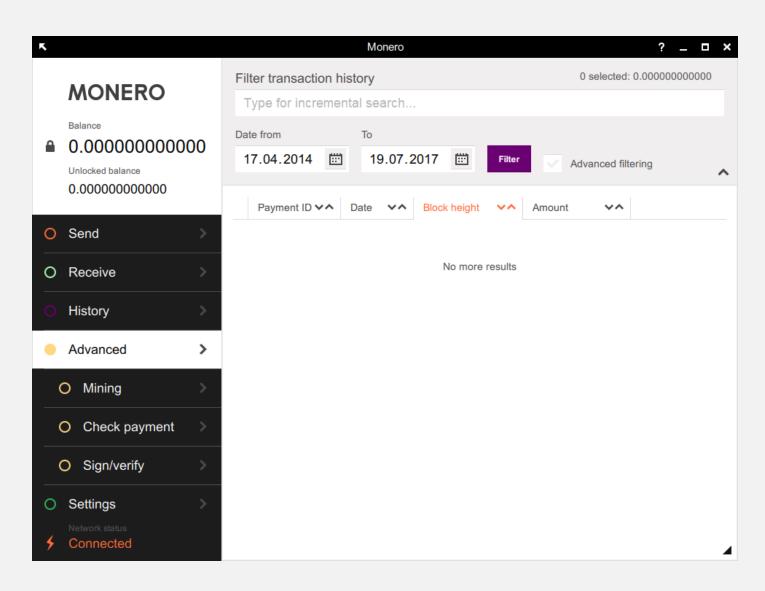
Source: MoneroBlocks.info 24 Feb 2016



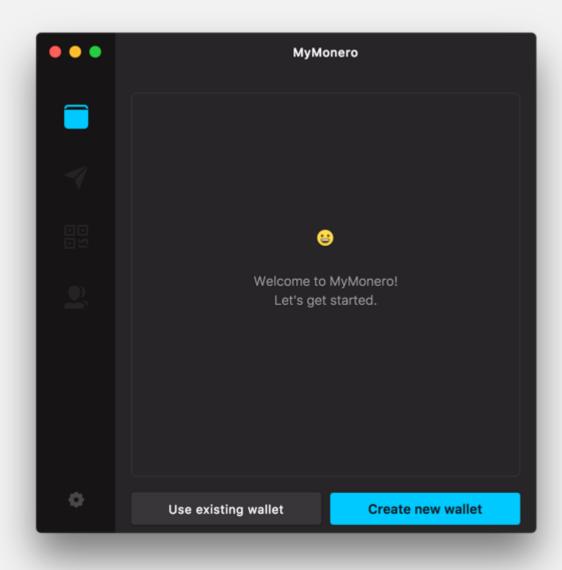
Source: zcha.in 15 March 2017



### The Infamous GUI



# MyMonero Lightweight Wallet



# 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**



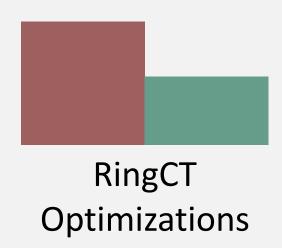
## **Ongoing Development**









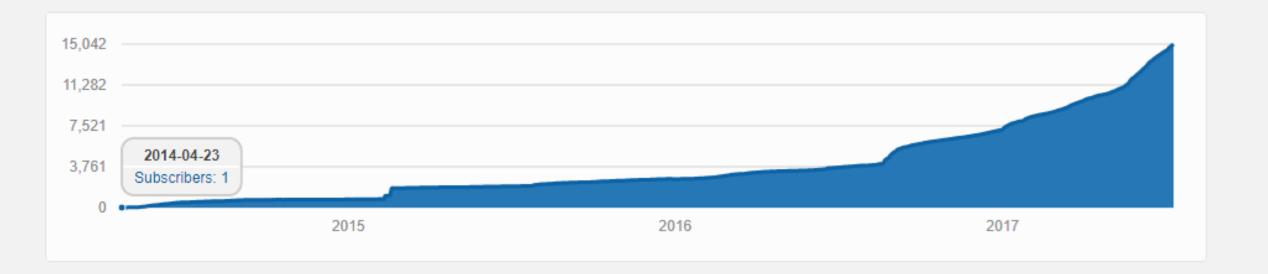




### Hardfork Schedule

September April January L September 18<sup>th</sup>\* Fluffynet Network Topology Experiment 1 Tier 1 nodes Mandatory RingCT Bridge node • Minimum ringsize ≥5 (likely 10) Tier 3 Explorer Node Fluffy blocks (in testing now) Improved input selection algorithm **MAINNET** Tier 2 nodes **FLUFFYNET** 0MQ **Sub-Addresses** 

# **Community Growth**



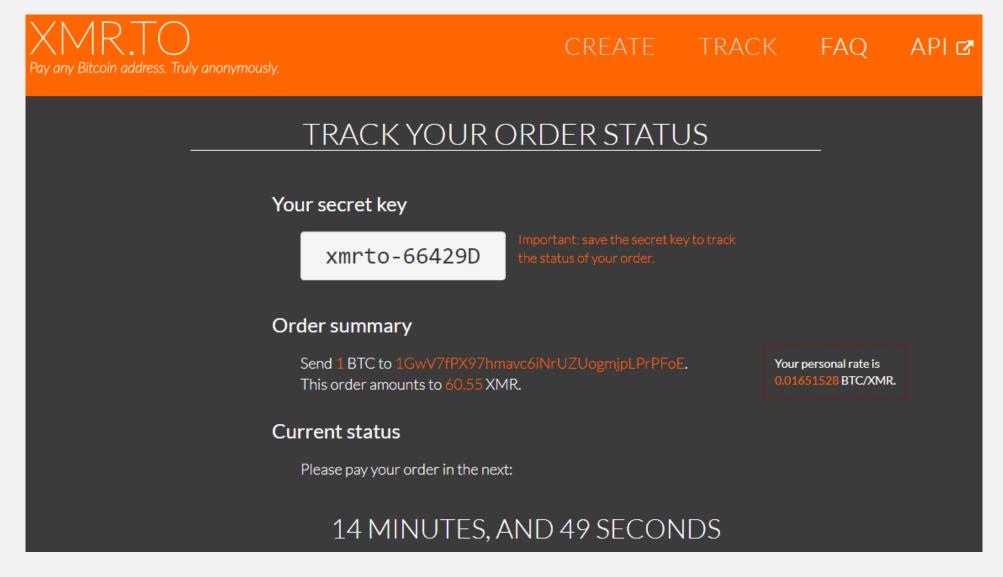
# **Community Growth**

#### Commits per Month

Zoom 1yr 3yr All



## XMR.TO – Pay Bitcoin Addresses with Monero



### Thank You!



getmonero.org



/r/Monero



monero.stackexchange.com



justin@ehrenhofer.org