

# Blockchains and Applications

Elkington

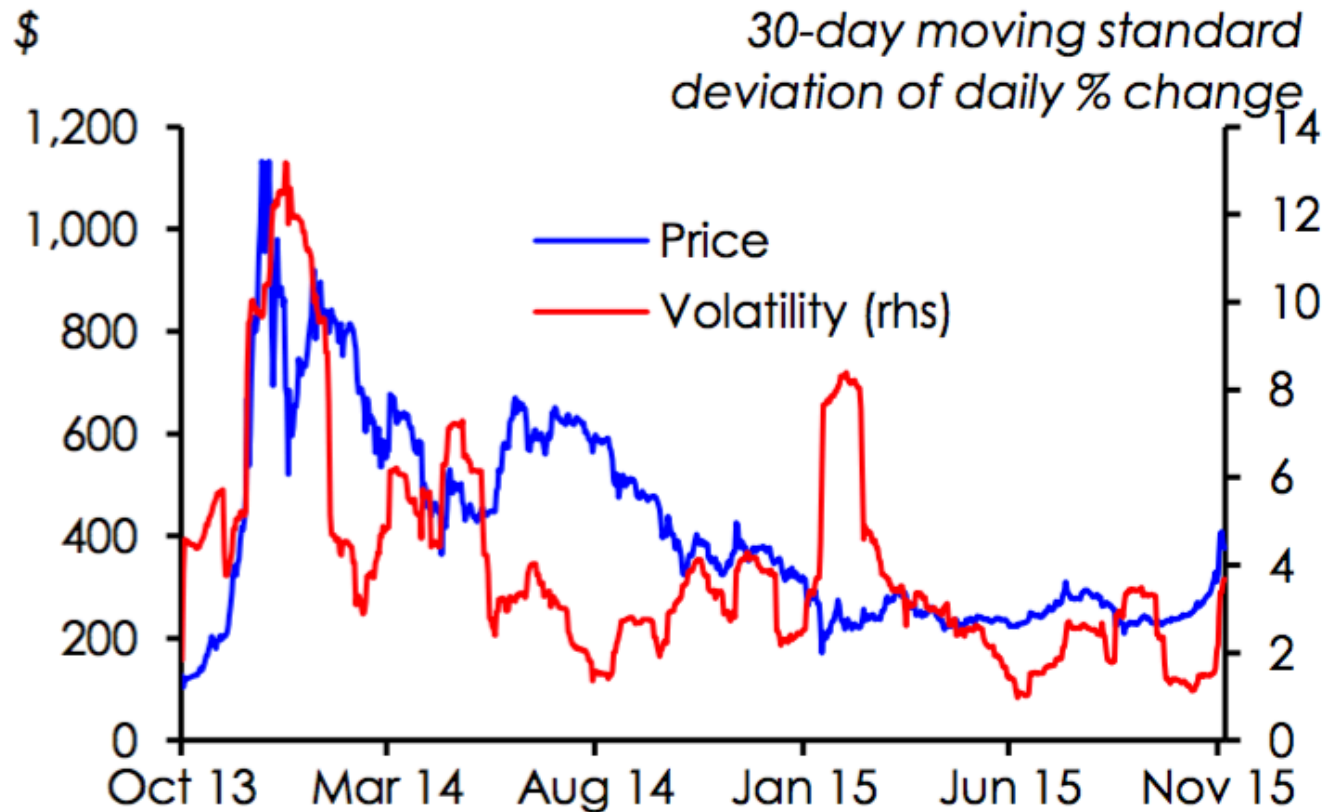


Understanding how Blockchains reduce financial complexity **December 2015**



# Bitcoin Market

**Bitcoin Price and Volatility**

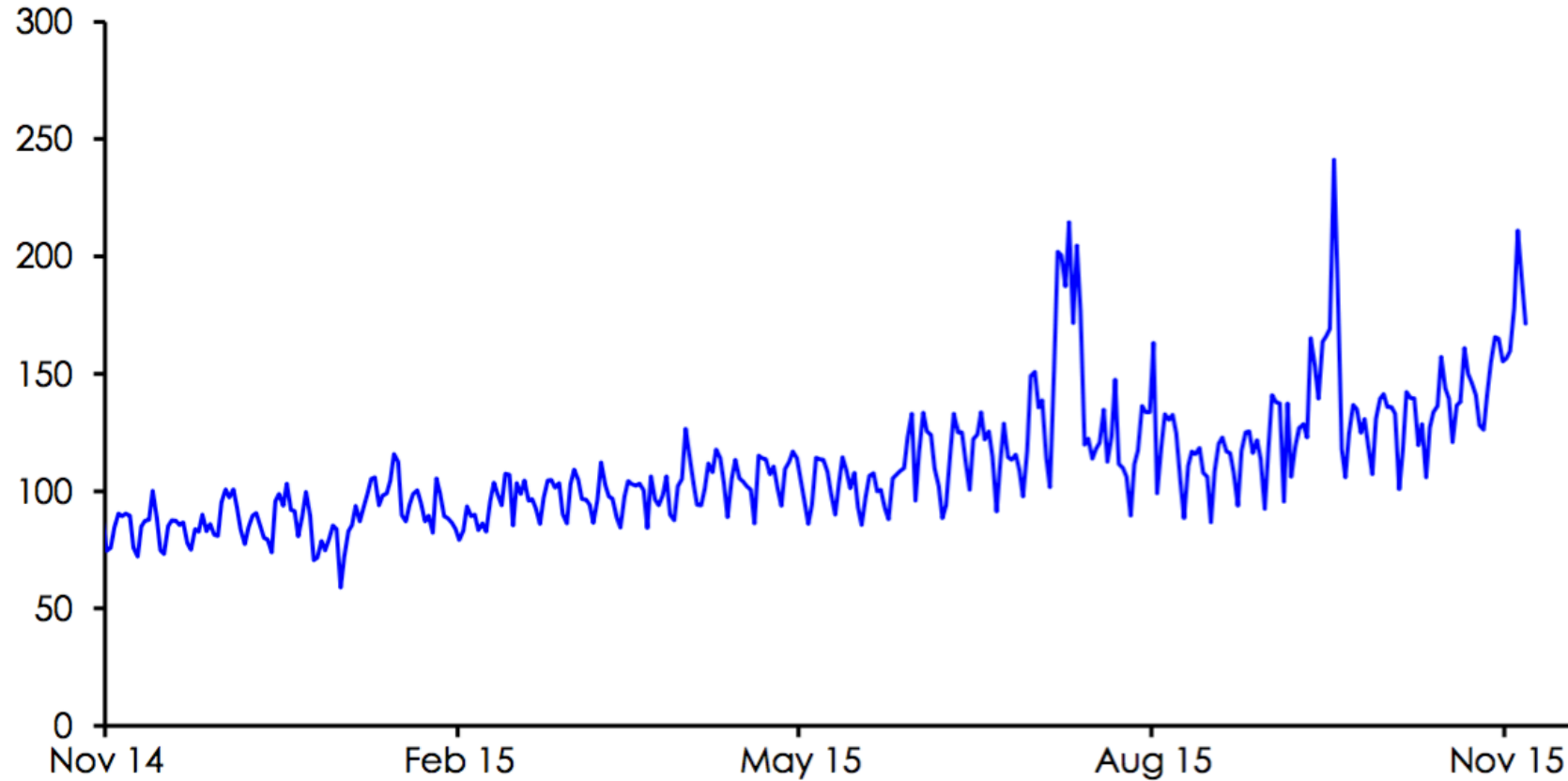


Source: [www.bitcoincharts.com](http://www.bitcoincharts.com), IIF.

# Bitcoin Transactions

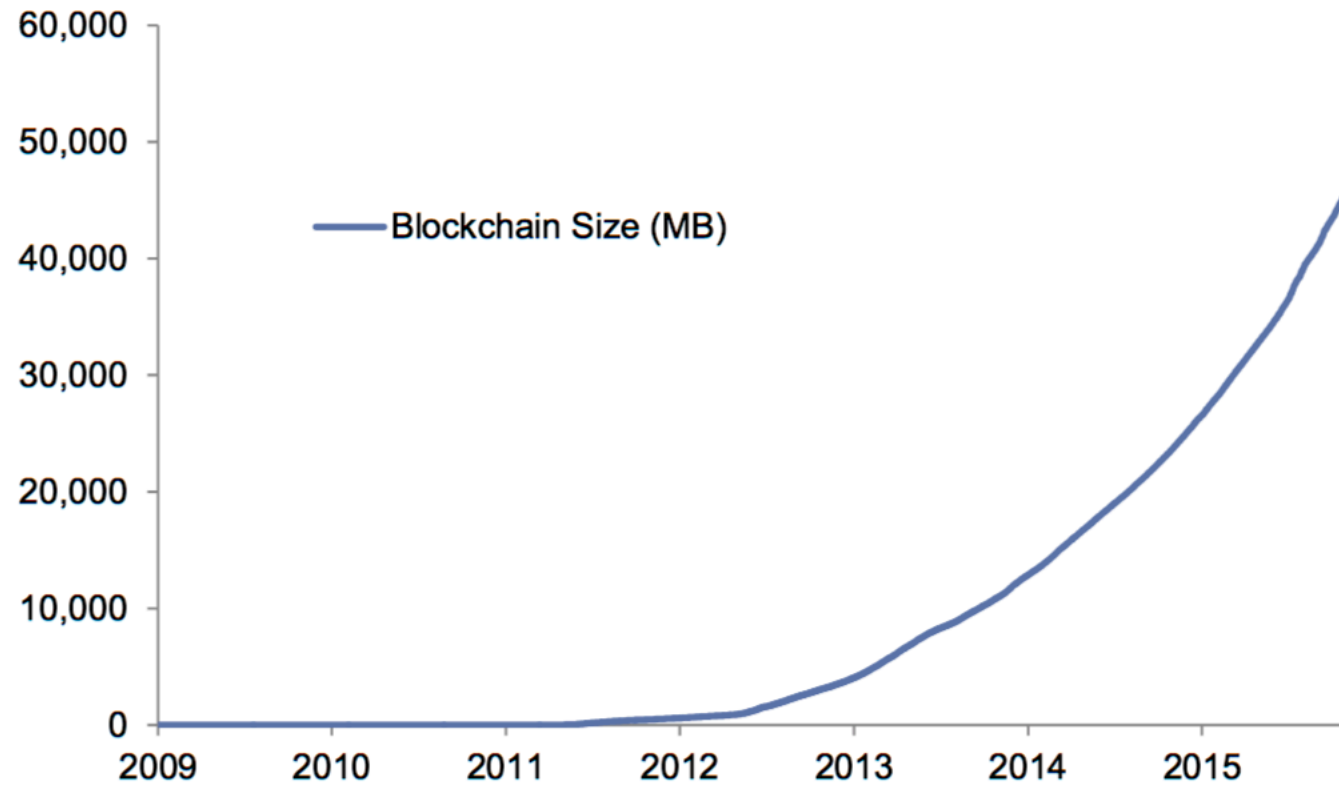
**Number of Bitcoin Transactions per Day**

*thousand*



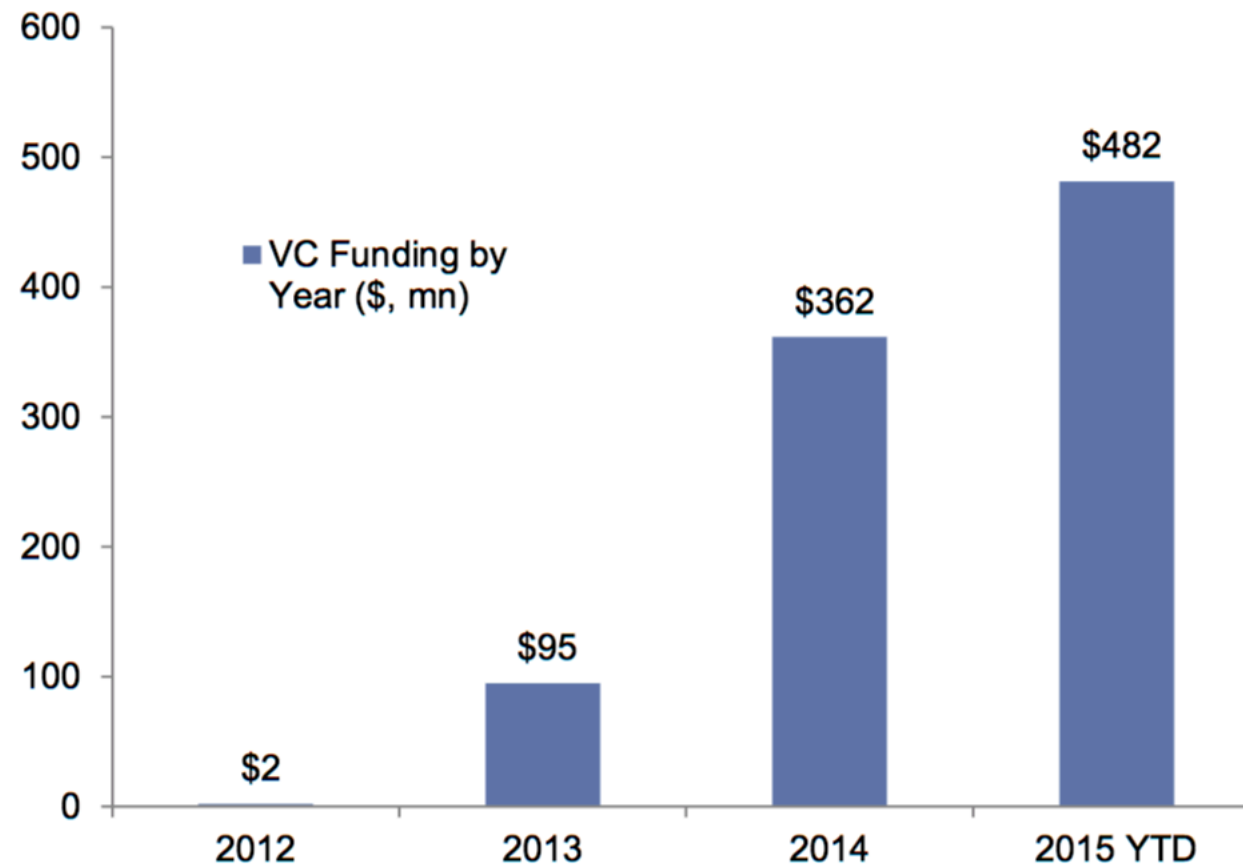
Source: [blockchain.info](http://blockchain.info).

# Size of Bitcoin Blockchain



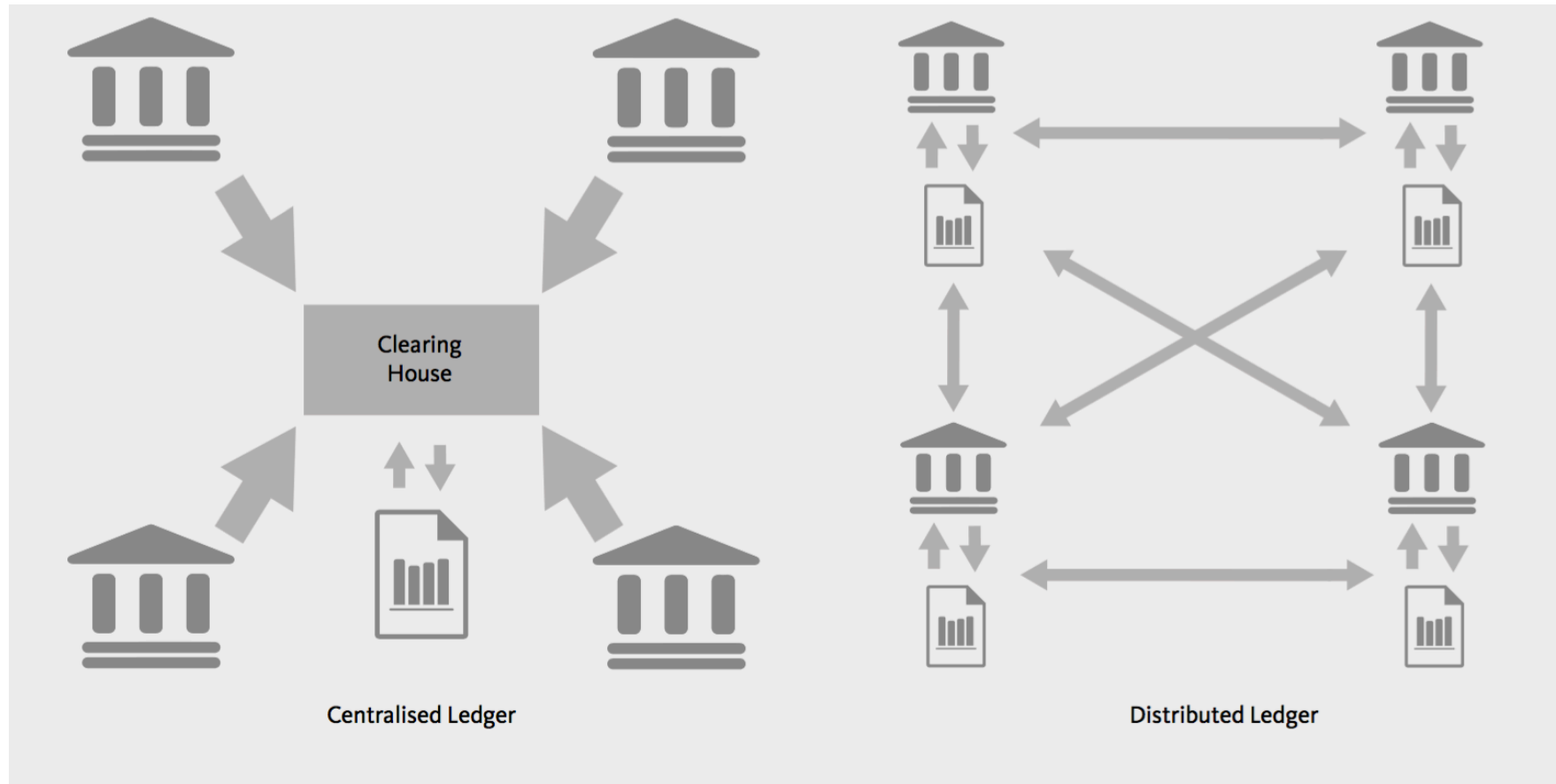
Source: blockchain.info, Goldman Sachs

# VC Funding of Blockchain Startups

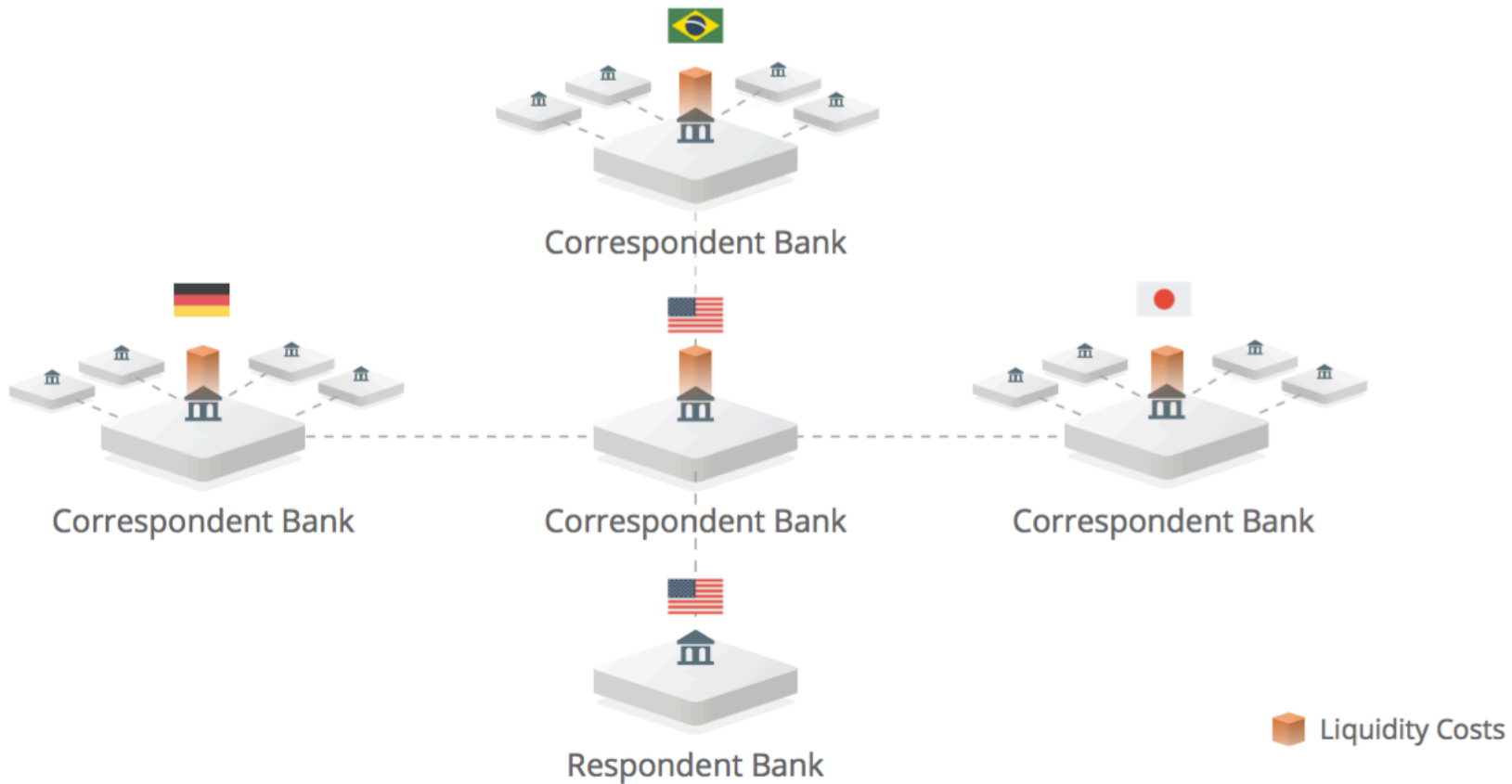


Source: Coindesk, Goldman Sachs

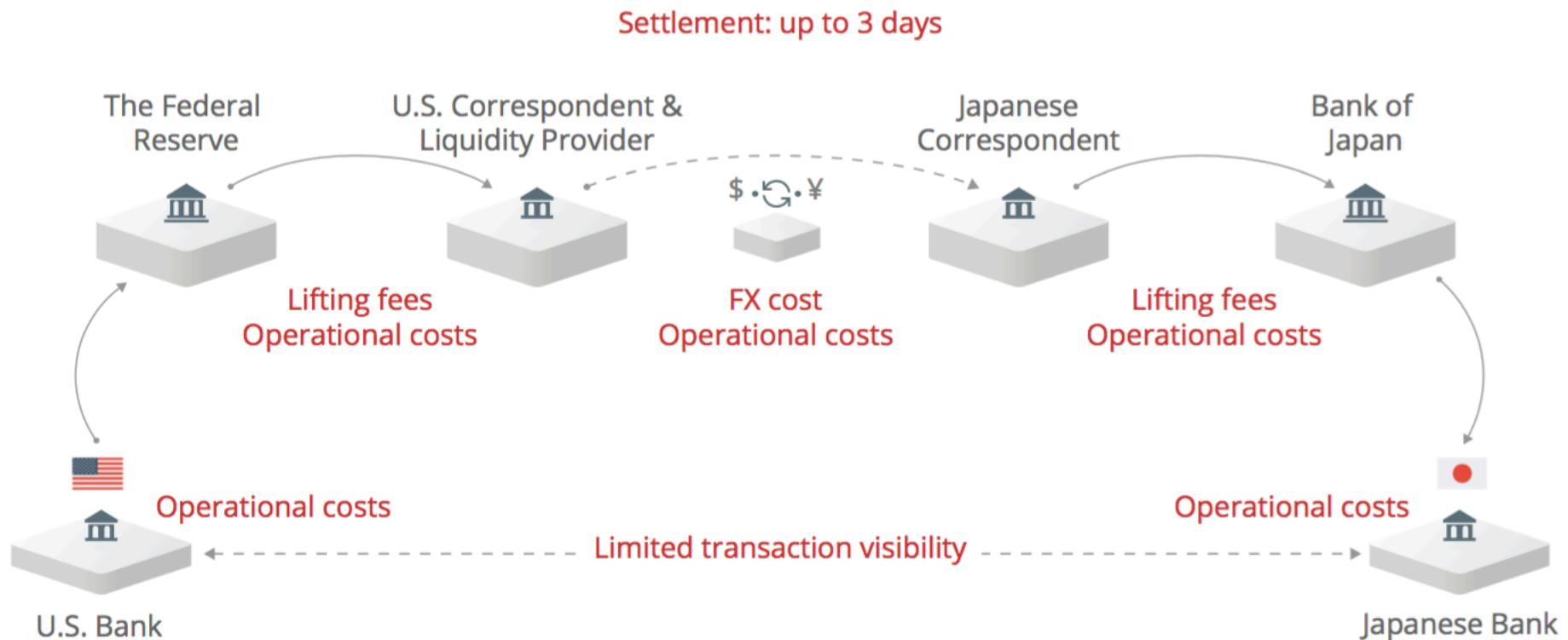
# Overview of Blockchain transactions compared to traditional transactions



# Schematic of International Financial Transactions



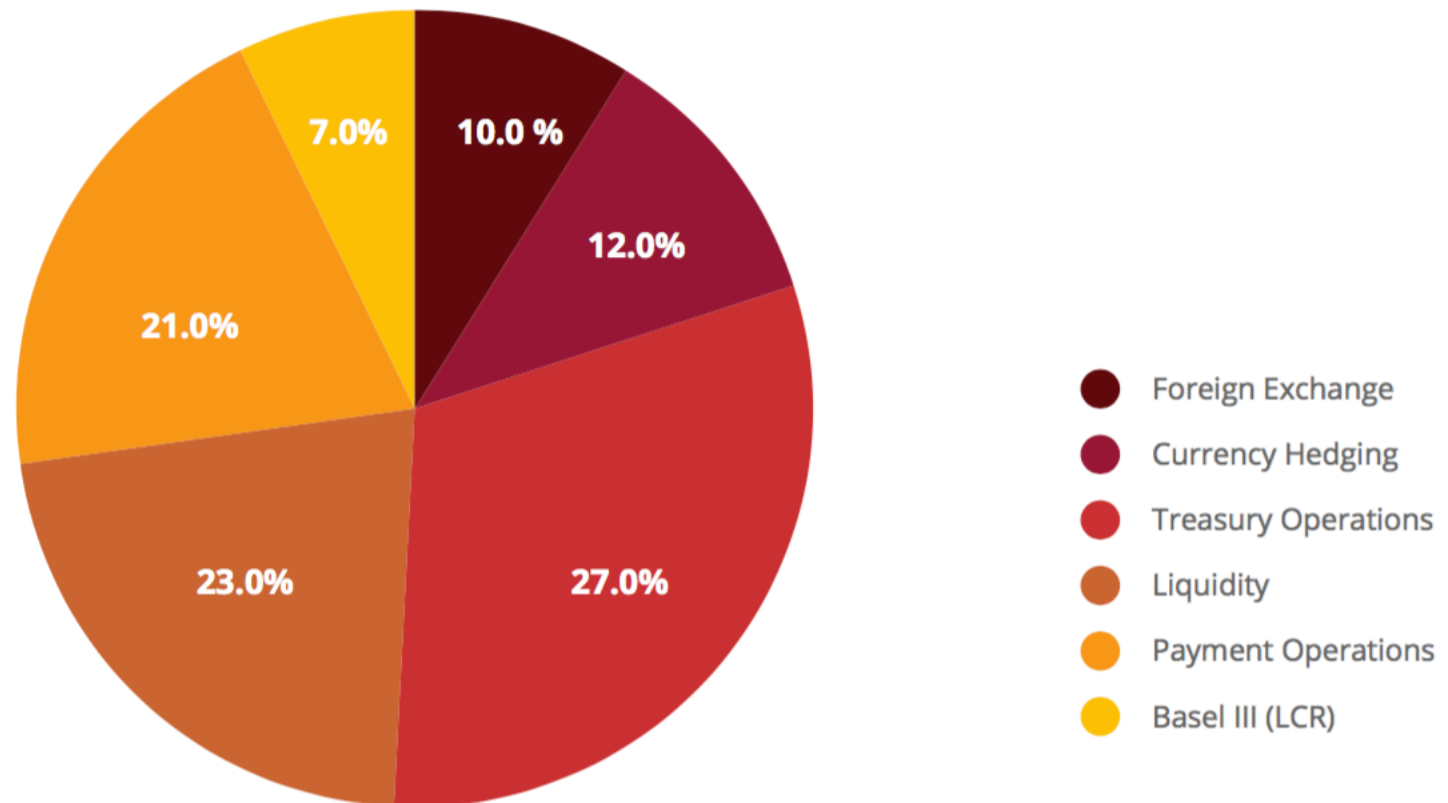
# Bottlenecks of Financial Transactions



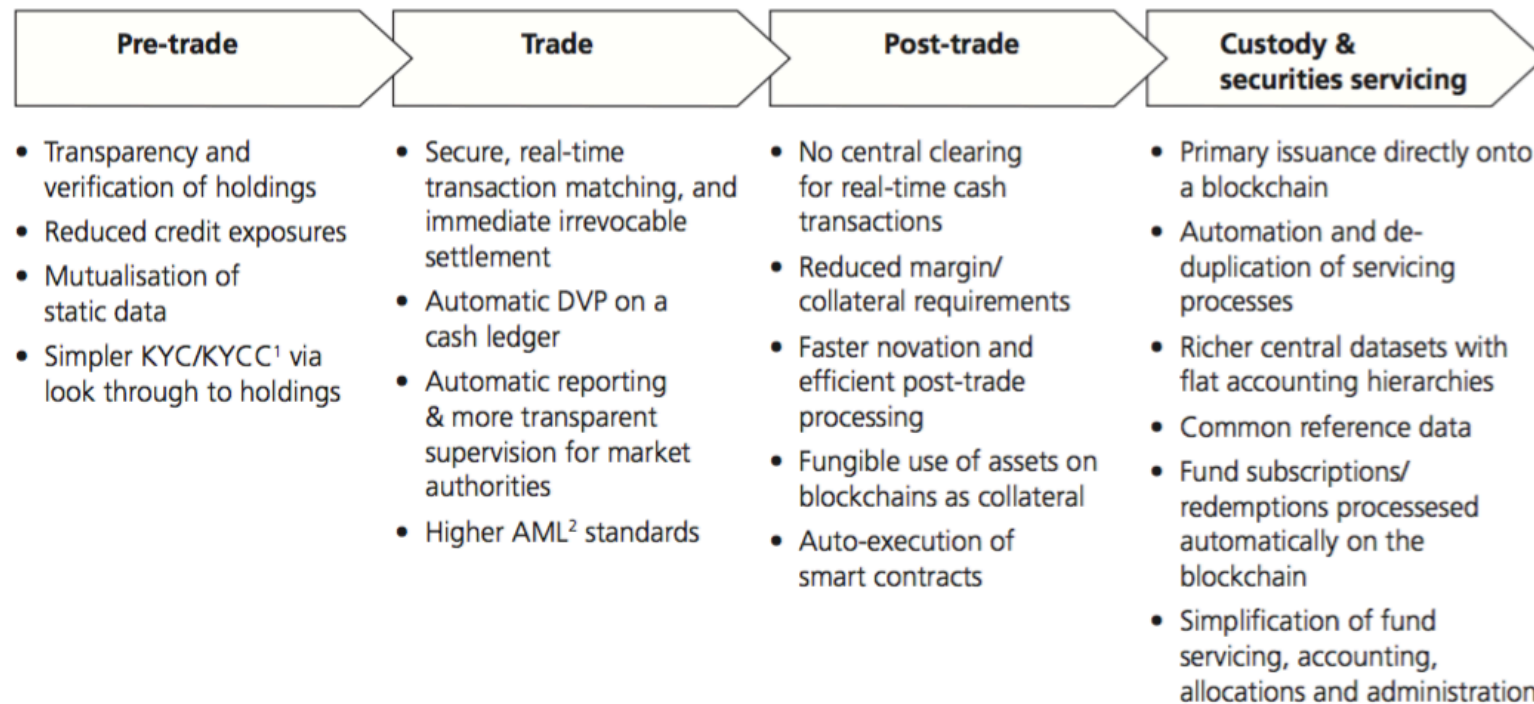


# Division of financial transactions

## International Payment Servicing - Cost Breakdown



# Flow of transactions on a blockchain



# Conclusions

1. Bitcoin continues as the largest blockchain with the highest potential to implement mass market smart contracts
2. Current financial transactions have major bottlenecks that could be solved by blockchain applications
3. Blockchains have advantages in pre-trade, trade, and post-trade situations