

# Governing together

Blockchain Summit Uruguay, Montevideo  
September 05, 2019

## Introduction



# Camilo Rodriguez

- Decred collaborator



**How do we make  
sure a Blockchain  
lasts in time?**

## How do we make sure a Blockchain lasts in time?

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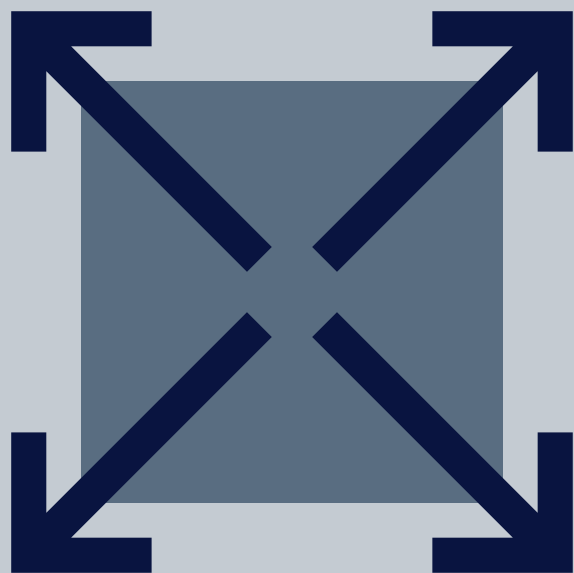
- Technical innovation
- Decentralized decision making
- Self-funding
- Balanced incentives



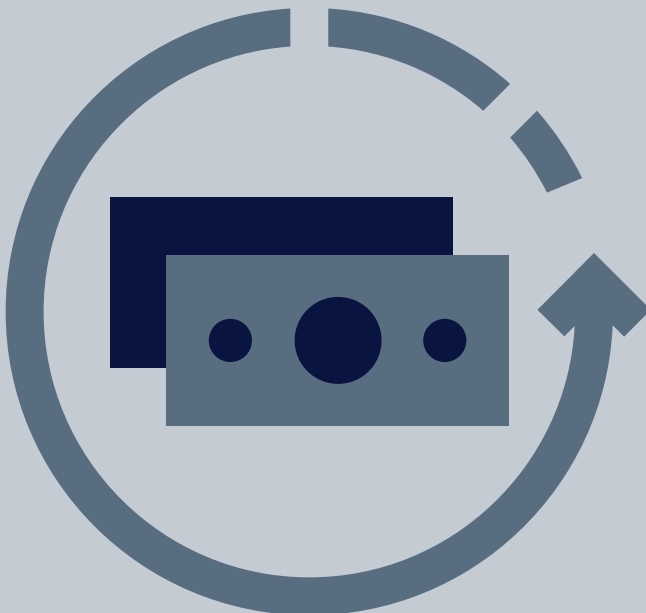
# Three main pillars



Security



Adaptability



Self-funding



## Security

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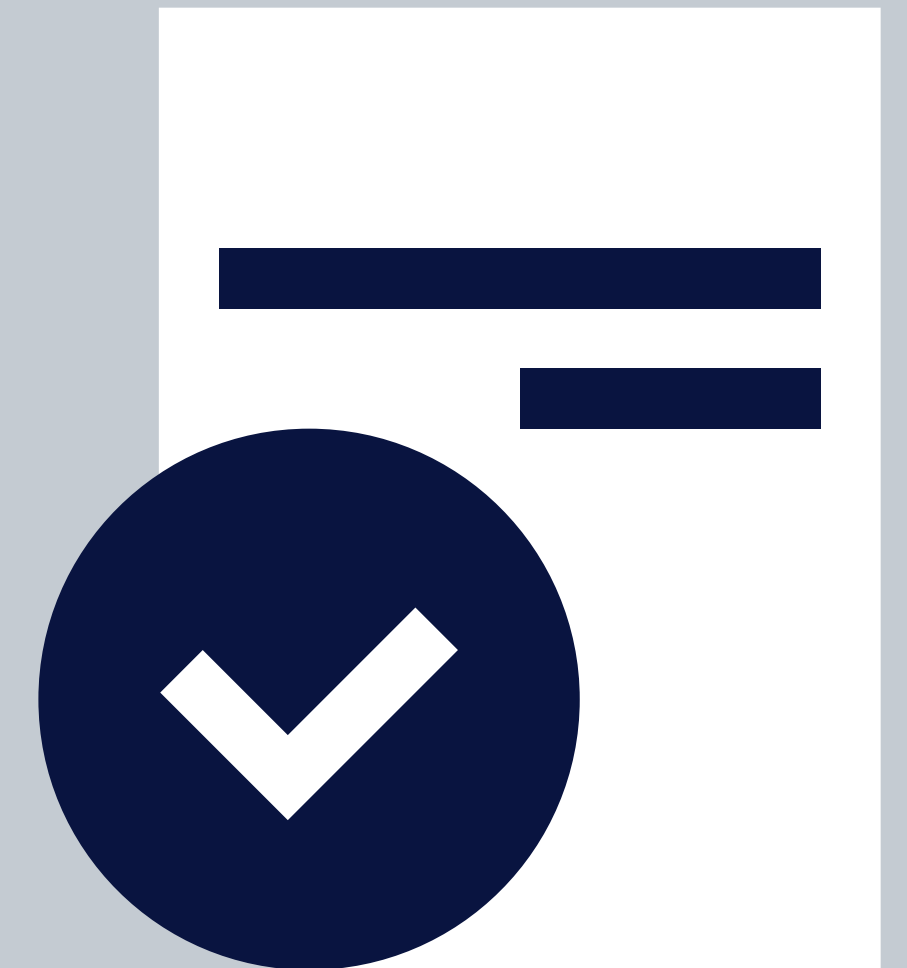
- Hybrid PoW/PoS system
- Miners create blocks
- Stakeholders validate blocks
- PoS audits PoW



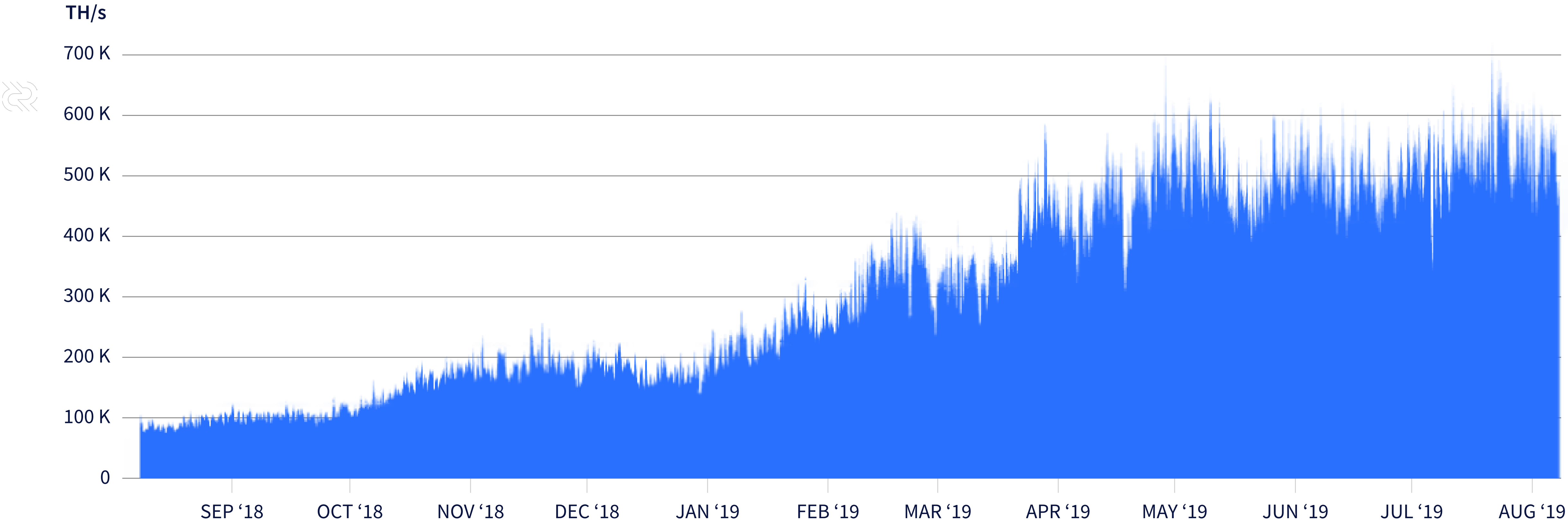
## PoW Security

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- Timestamping
- Blake256(14r)
- More hashrate, more security



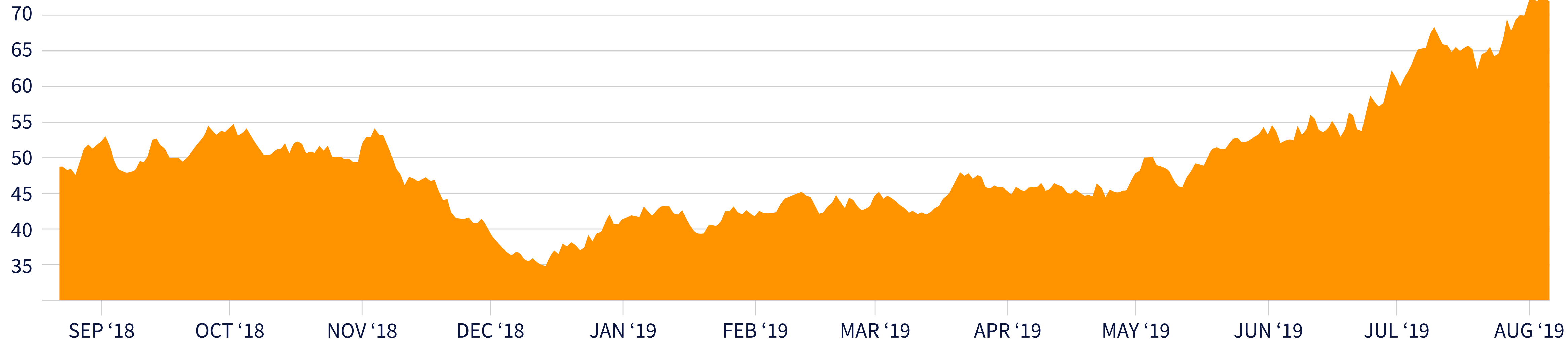
# Hashrate growth



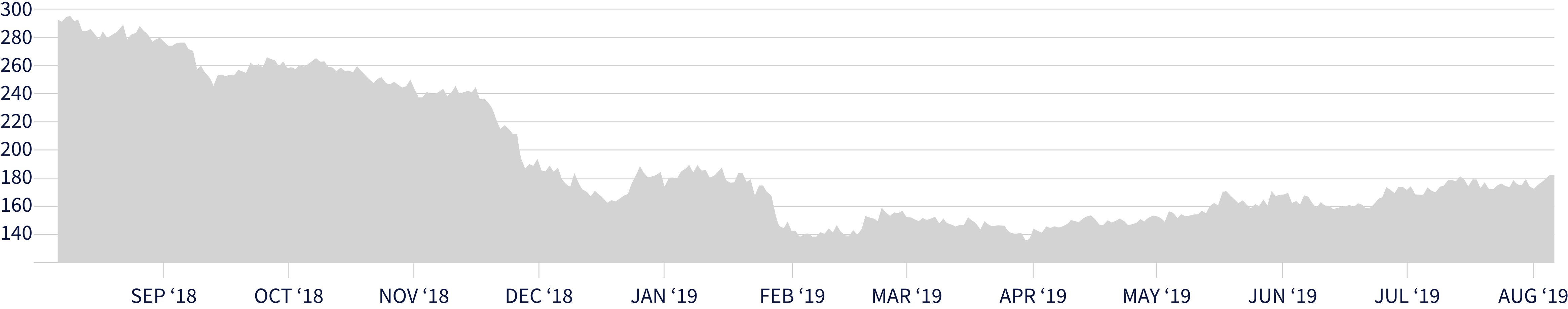




EH/s



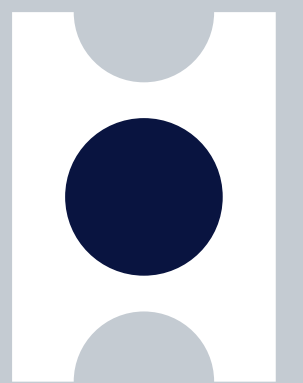
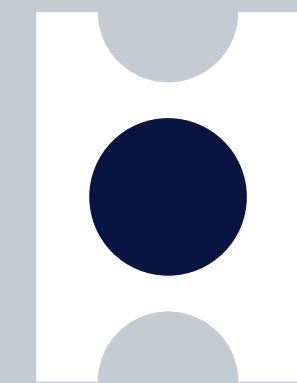
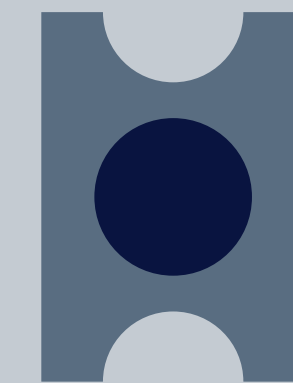
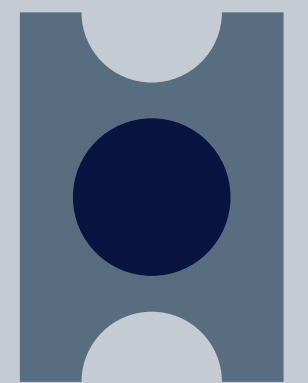
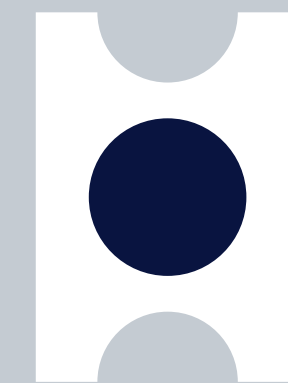
TH/s



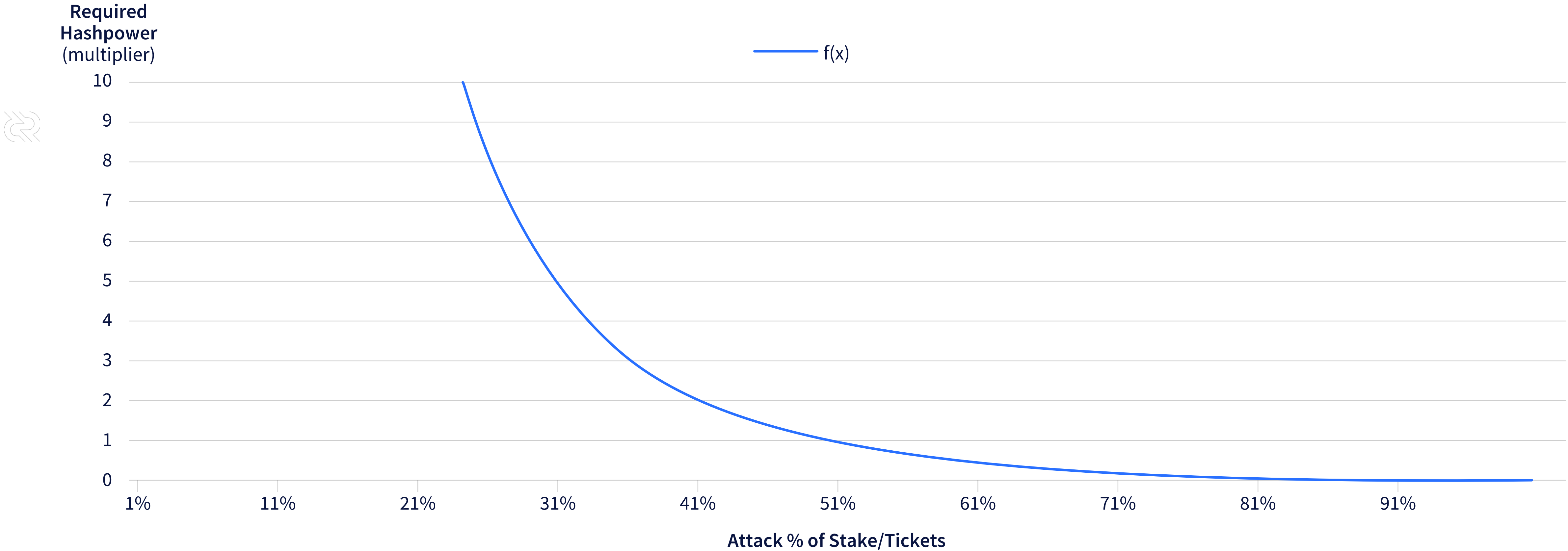
## PoS security

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- Buying tickets
- PoS block validation
- Participation
- Every new block needs **3 out of 5 tickets**, of random picked tickets to be valid
- PoS as 2FA for PoW



# Security against majority attacks



## Adaptabilidad & Governance

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- 60-30-10 distribution
- Voting for changes
- **Decentralized treasury**



# Politeia: The governance platform

- To learn more about Politeia, visit: [proposals.decred.org](https://proposals.decred.org)

The screenshot shows the Politeia website interface for public proposals. The browser address bar displays <https://proposals.decred.org/?tab=approved>. The page header includes the Politeia logo and the title "Public Proposals". Below the header, there are tabs for proposal status: "In Discussion" (2), "Voting" (0), "Approved" (23), "Rejected" (10), and "Abandoned" (11). The "Approved" tab is selected.

Three approved proposals are listed:

- RFP: Decred Designated Market Maker**  
by jz\_bz  
published 2 weeks ago  
version 2 edited 2 weeks ago  
Status: Proposal voting finished  
Votes: ✓ 14074, ✗ 2093  
YES: 87.05% (60% progress bar)  
Quorum: 16167/8271 votes  
89 comments | permalink | search votes
- Decentralized Exchange Development**  
by chappjc  
published 2 weeks ago  
version 2 edited 2 weeks ago  
Status: Proposal voting finished  
Votes: ✓ 14914, ✗ 1693  
YES: 89.81% (60% progress bar)  
Quorum: 16607/8142 votes  
16 comments | permalink | search votes
- TinyDecred: A Python Toolkit for Decred**  
by buck54321  
published 3 weeks ago  
Status: Proposal voting finished  
Votes: ✓ 12837, ✗ 786  
YES: 94.23% (60% progress bar)  
Quorum: 13623/8217 votes  
21 comments | permalink | search votes

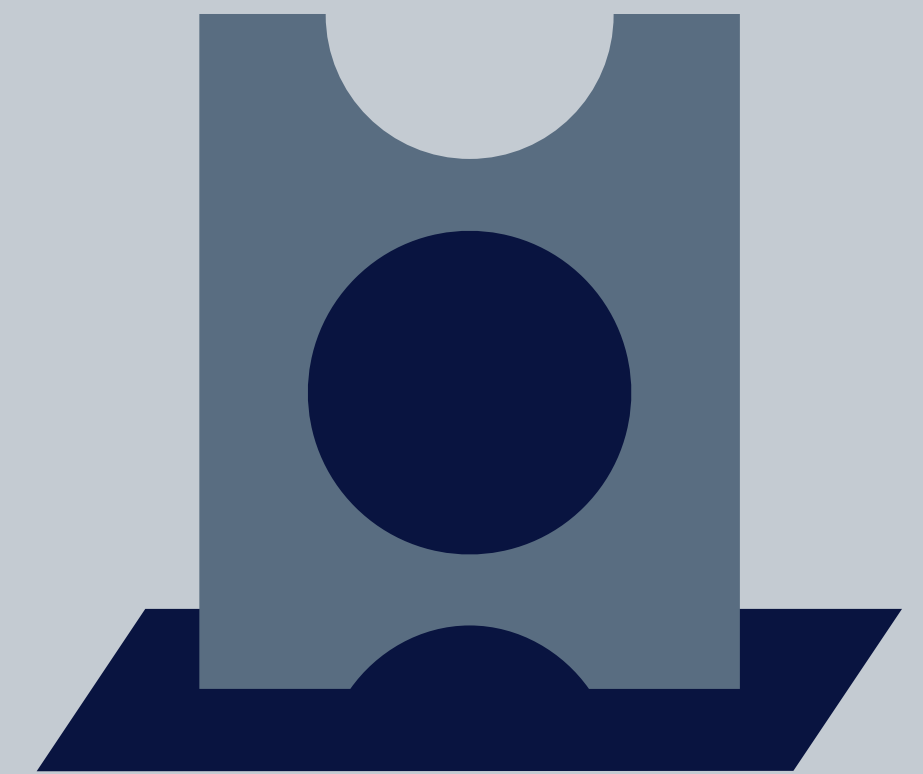
Each proposal has a "See on GitHub" link in the top right corner.



## Voting

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- The Voting Phase lasts **2016 blocks**
- **20%** of live tickets **must participate**
- **60%** of those tickets **must vote 'YES'**

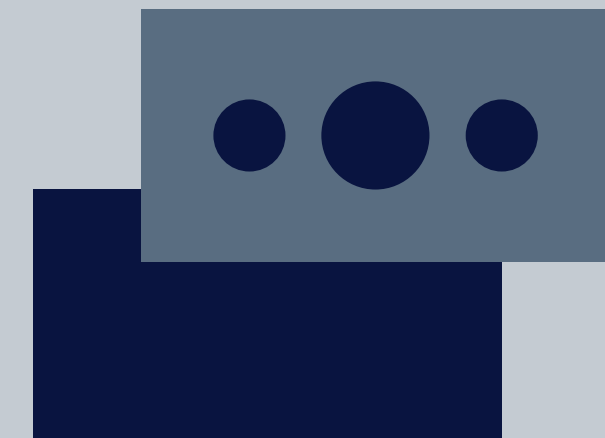
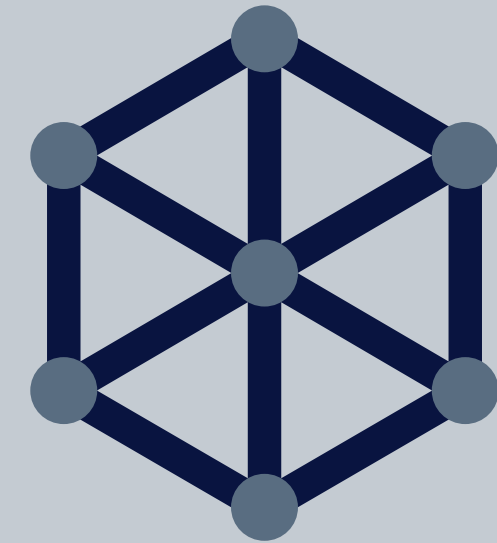


# Conclusions

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- Hypersecurity thanks to PoW/PoS
- On-chain & off-chain governance
- Self-funding







thank  
**YOU**

Join the conversation!



[www.decred.org](http://www.decred.org)