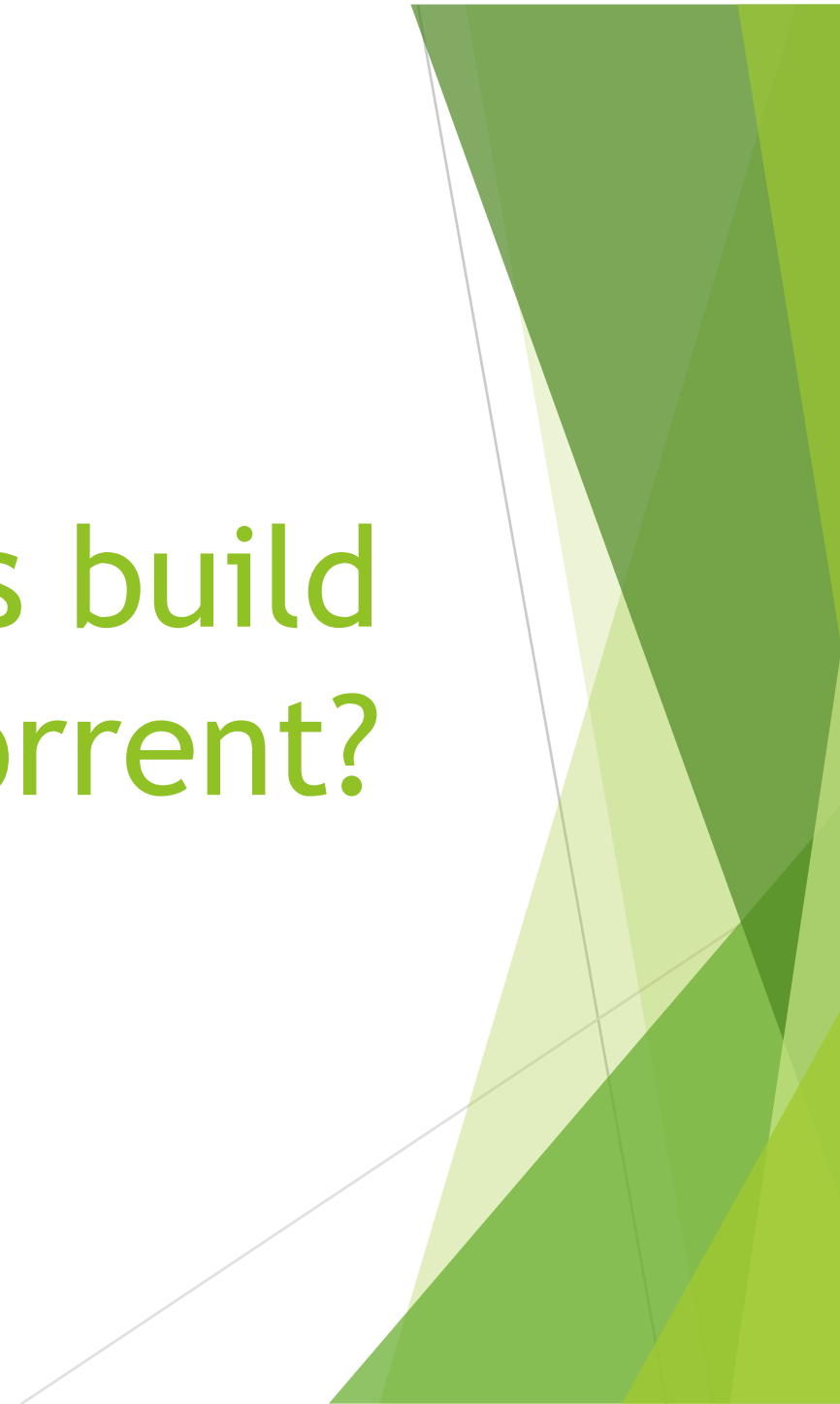


Do incentives build
robustness in BitTorrent?



What is the problem?

- ▶ Free riding
- ▶ Tit-for-tat
- ▶ Can strategic clients improve thier performance?
- ▶ What can we exploit?
- ▶ Modeling bitTorrent/Altruism



BitTyrant

- ▶ Strategic client
- ▶ Maximize reciprocation:
 - ▶ Maximize reciprocation bandwidth per connection
 - ▶ Maximize number of reciprocating users
 - ▶ Deviate from equal split



Results

- ▶ Performance gain when using a strategic client.
- ▶ Consistent
- ▶ Many BitTyrant peers leads to disadvantage under several circumstances



Thank You

