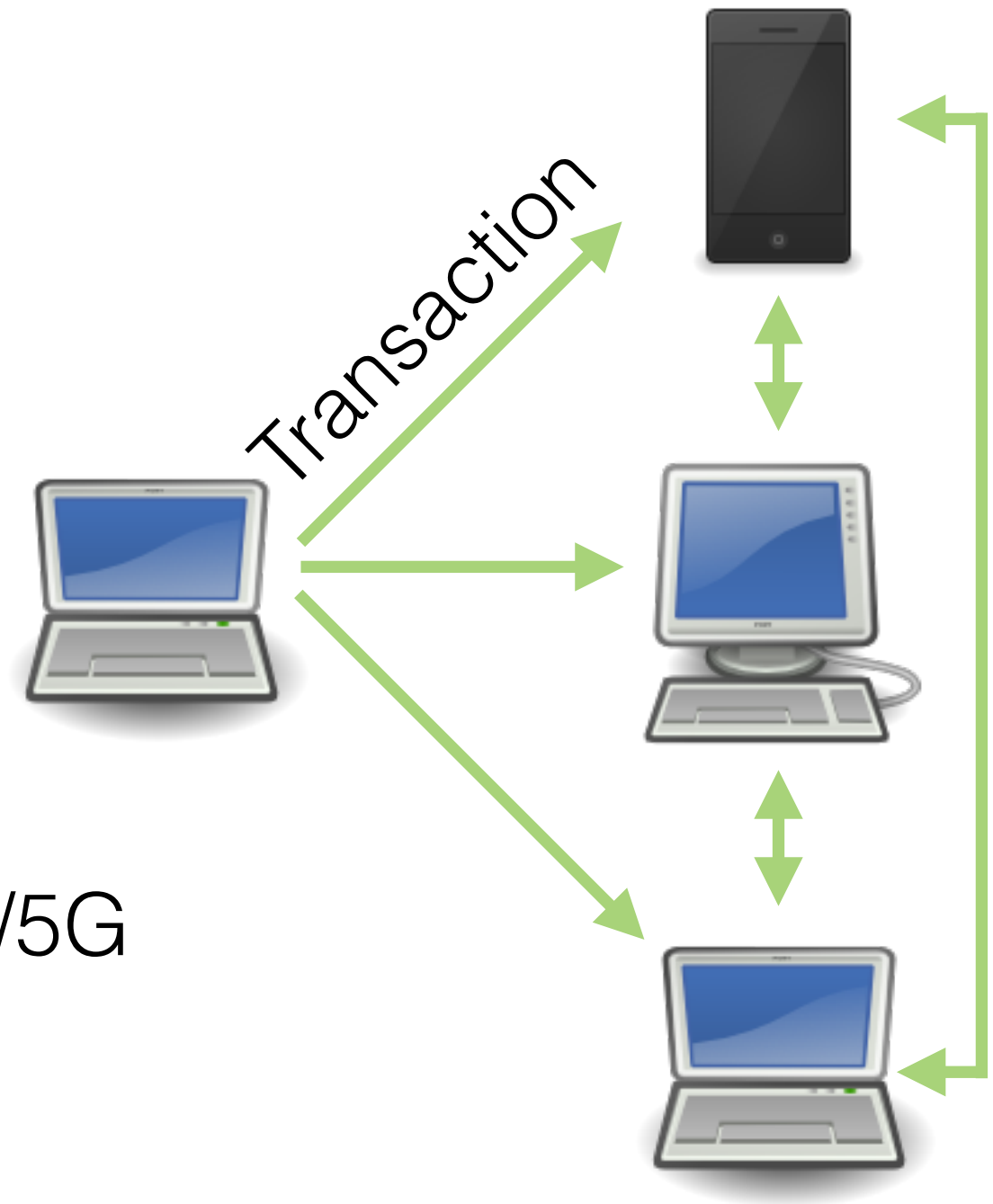




Blockchain Privacy Lightweight Clients

Blockchain Broadcast Data Model

1. Log of transactions (>300 GB)
2. Mobile phones receive irrelevant transactions
3. Limited data traffic over 3G/4G/5G



Private Mobile Blockchain Clients

Goal: Hide from the other nodes what the light client is interested in.

1. Private Information Retrieval

➡ PIR and SPV

2. Bloom Filter

➡ Bitcoin lightweight client implementation

3. Trusted Execution Environment

➡ Bite or Zlite