

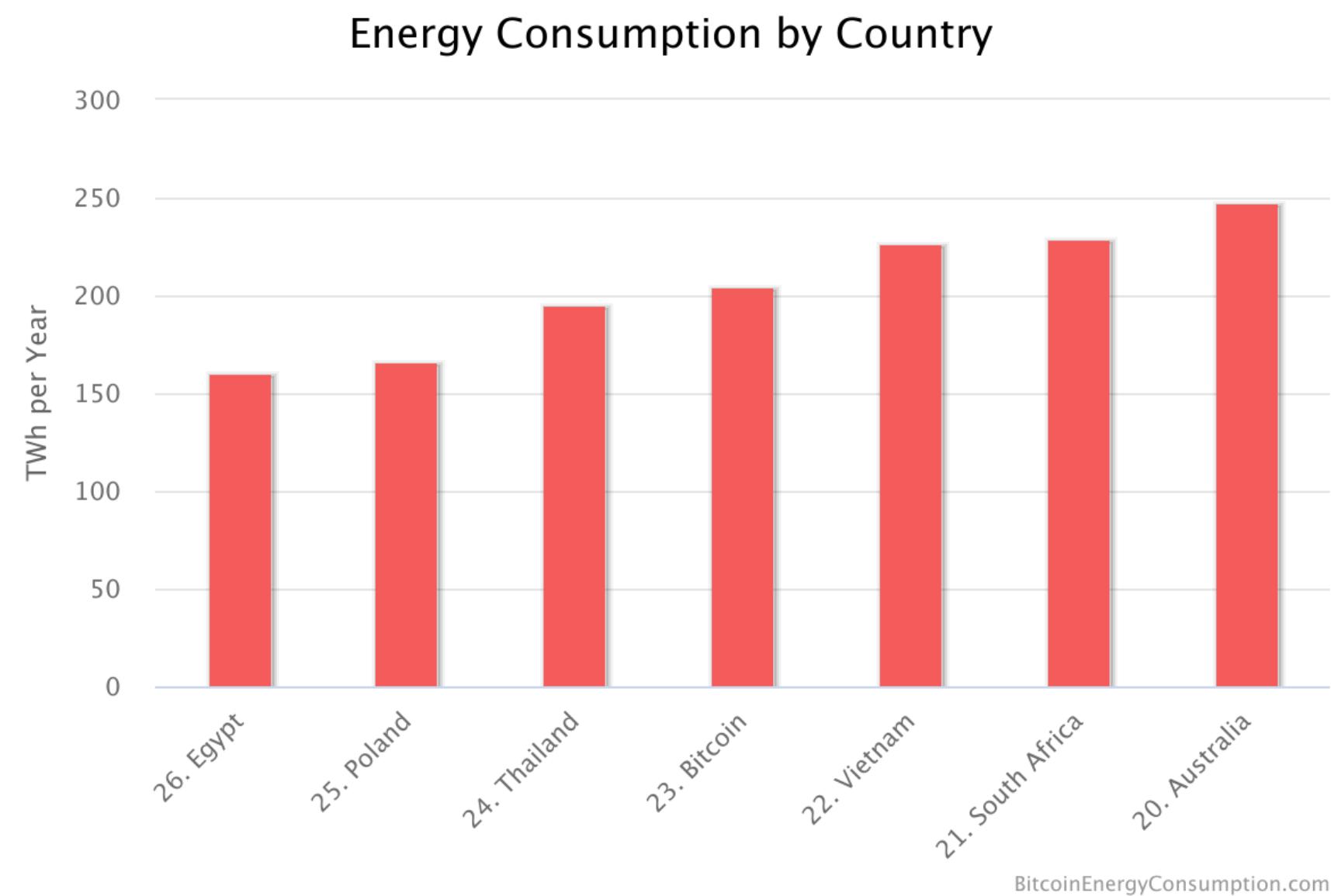
# Why use blockchain?

# Bitcoin Downsides

**Throughput** at most 7tx per second

**Confirmation** latency approx 1h

**Enormous energy consumption**



# Why blockchain?

## Blockchain

- No intermediary
- No single point of control
- Final settlement
- Immutability

# Why blockchain?

## Blockchain

- No intermediary
- No single point of control
- Final settlement
- Immutability
- Cheaper financial services
- Trust across borders
- Accountability

# Blockchain payments

## Blockchain



# Blockchain payments

## Blockchain

### Pro:

- Cheaper?
- Final?
- International
- No bank account needed

### Con:

- Throughput lacking
- Expensive to change



# Inter bank payments

- Financial
  - International bank payments
  - Avoid long settlement
  - Not an open blockchain  
(not everyone can be a miner)



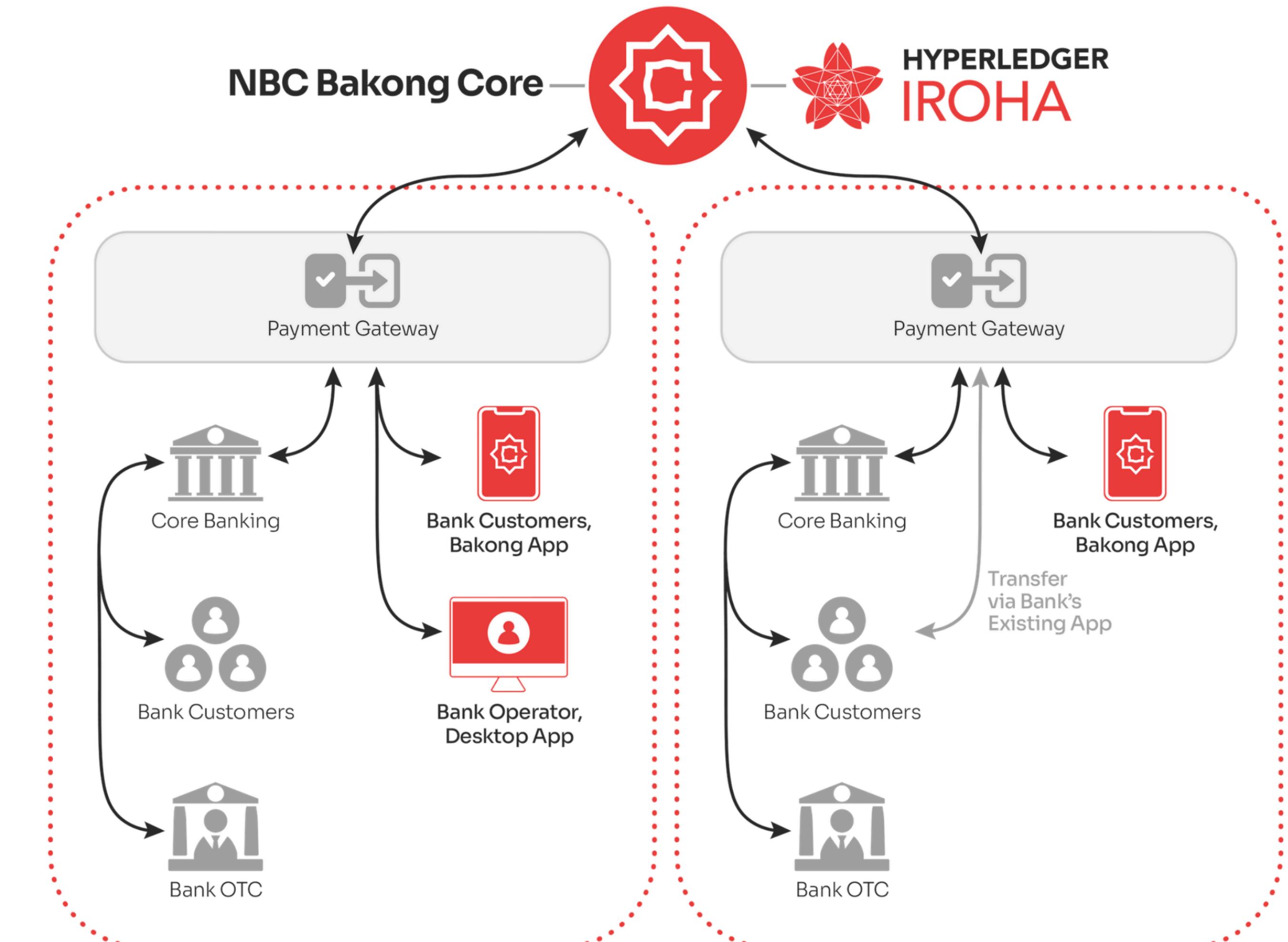
# Central bank digital currency

Reading questions:

- What are the mentioned benefits of blockchain?
- What are mentioned challenges in the system?
- <https://www.weforum.org/agenda/2022/01/cambodia-hybrid-digital-currency-blockchain-bakong/>
- <https://www.weforum.org/agenda/2021/08/cambodias-digital-currency-ishowing-other-central-banks-the-way/>

# Central bank digital currency

- Inter bank payments
- Inter customer payments?
- Not an open blockchain  
(not everyone can be a miner)



# Use cases

## Blockchain

Use cases for group discussion

- Use based mobile data
- Microtransactions for digital content
- Olive oil supply chain