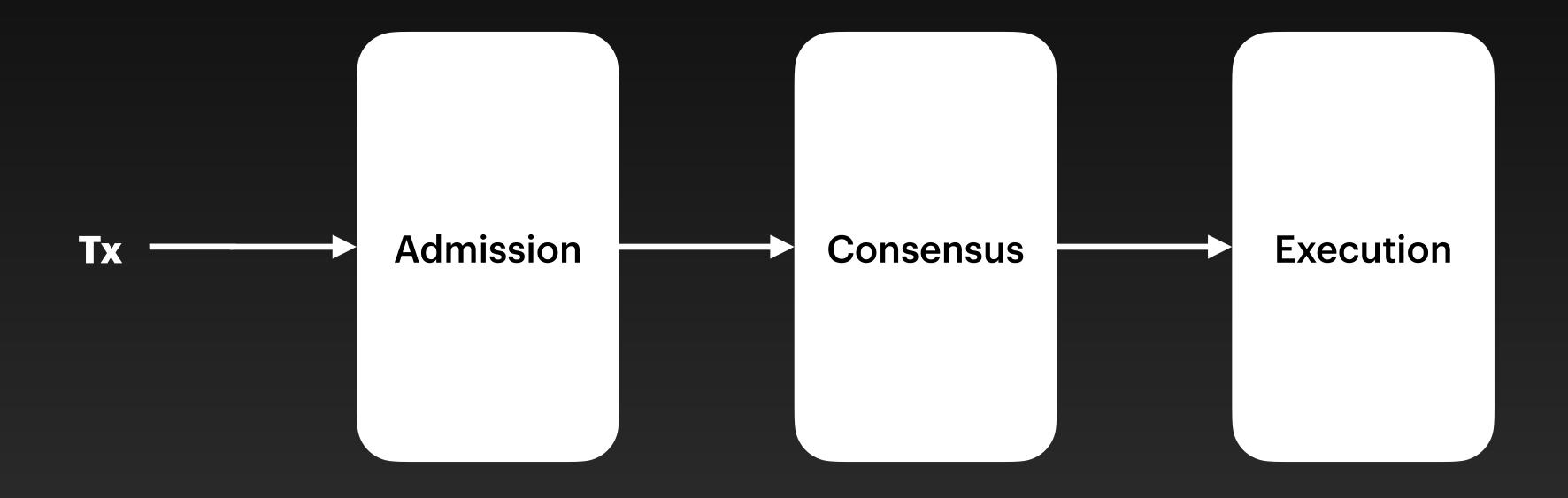
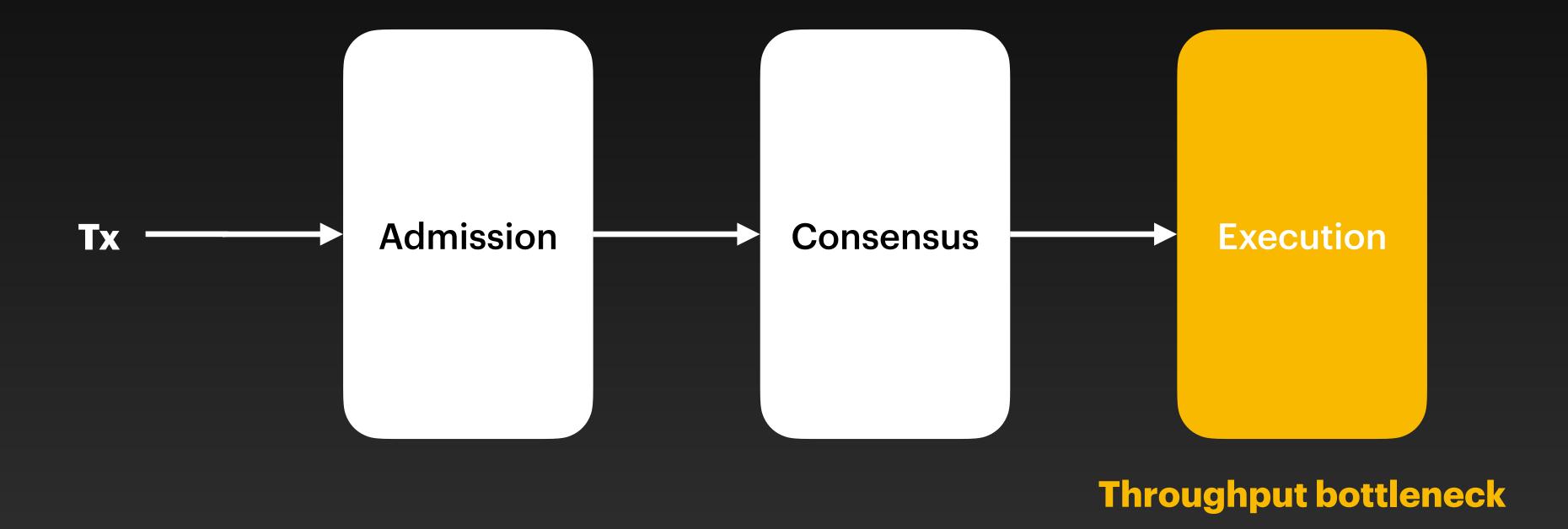
Elastic Asynchronous Distributed Execution

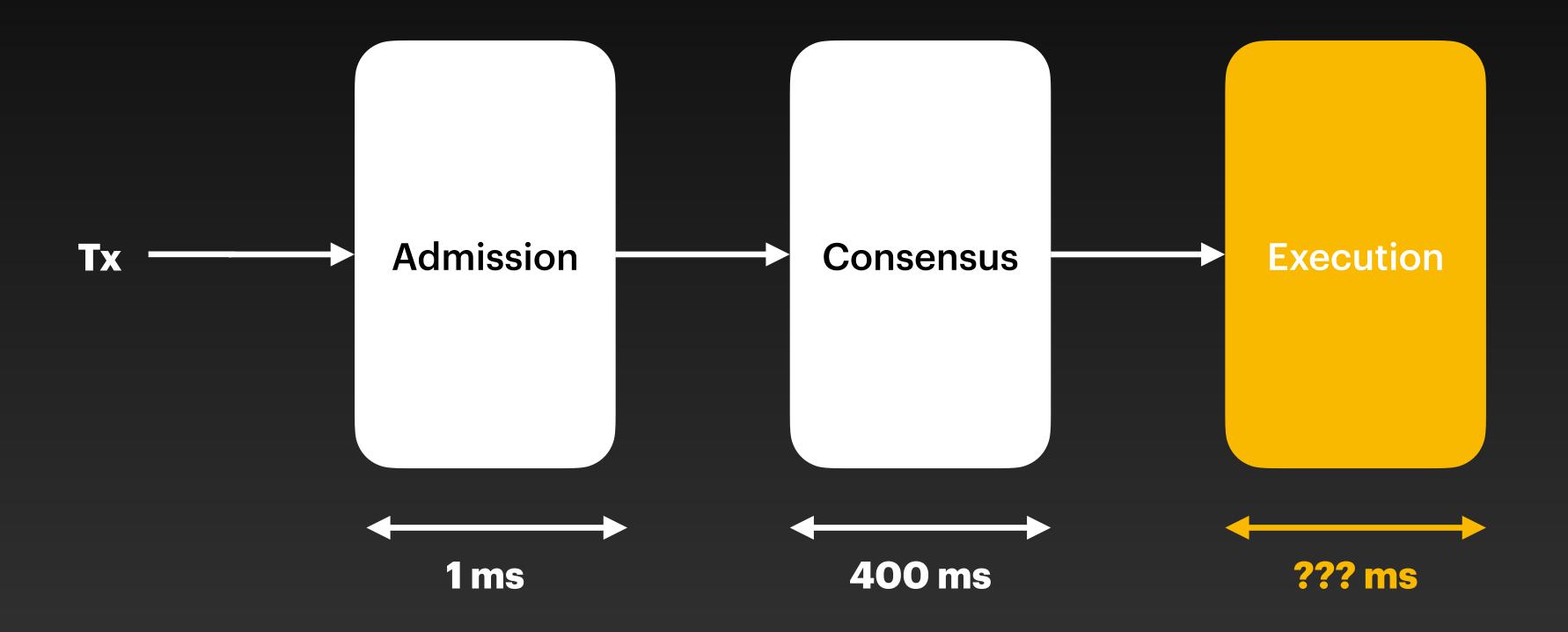
## Current State

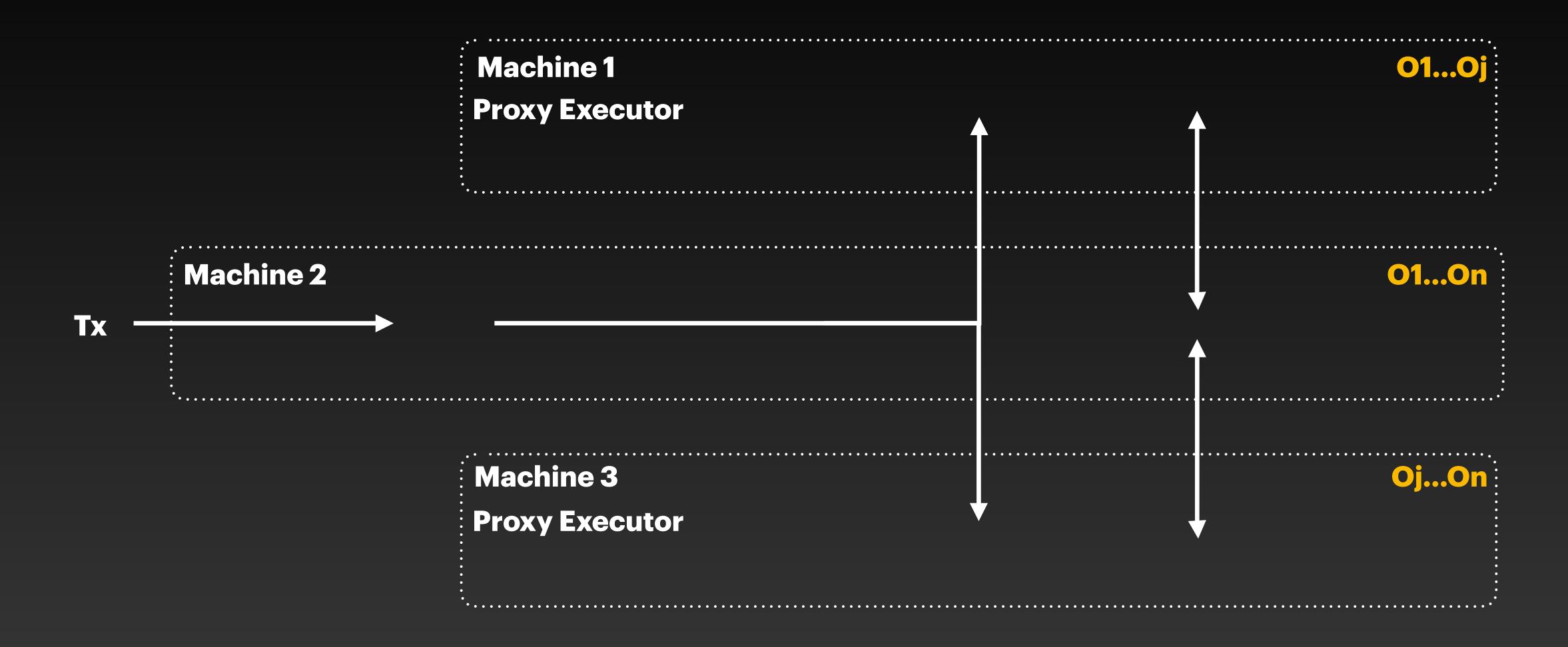


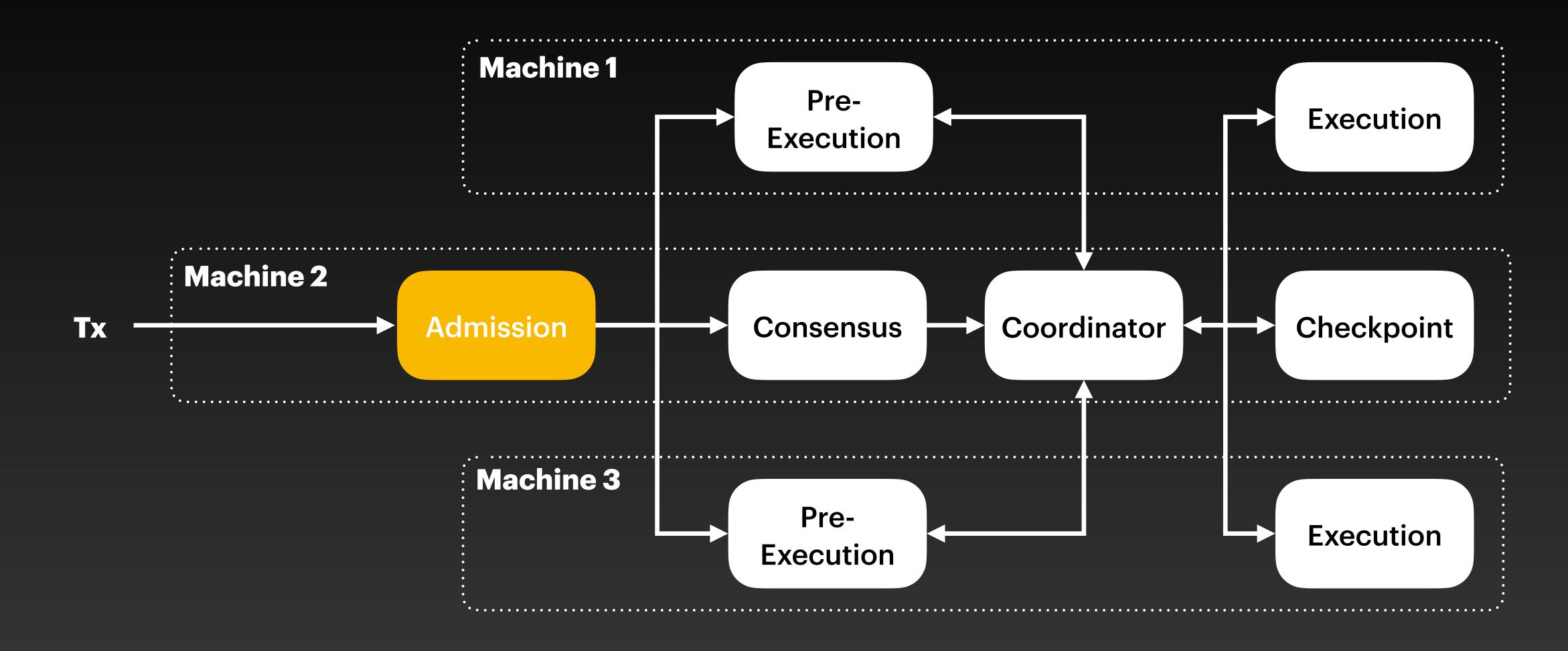
#### Current State

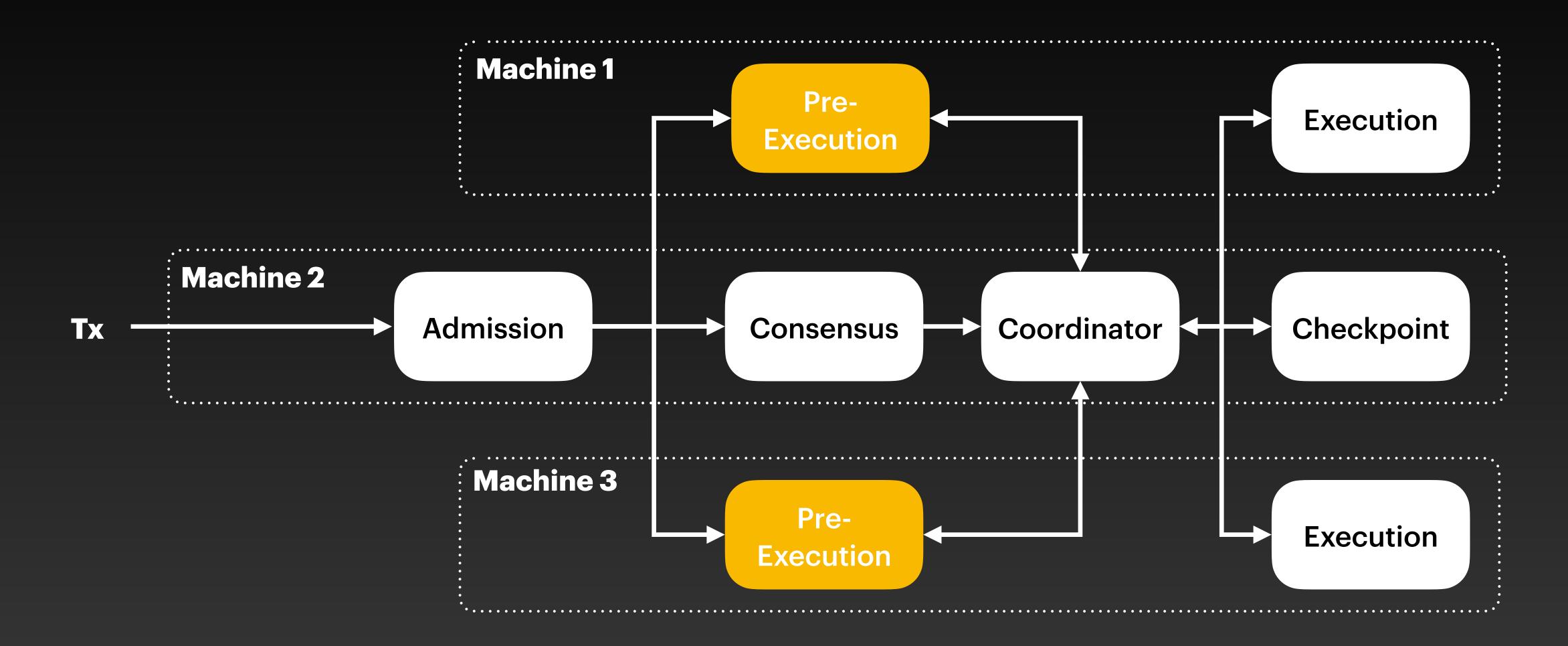


## Current State



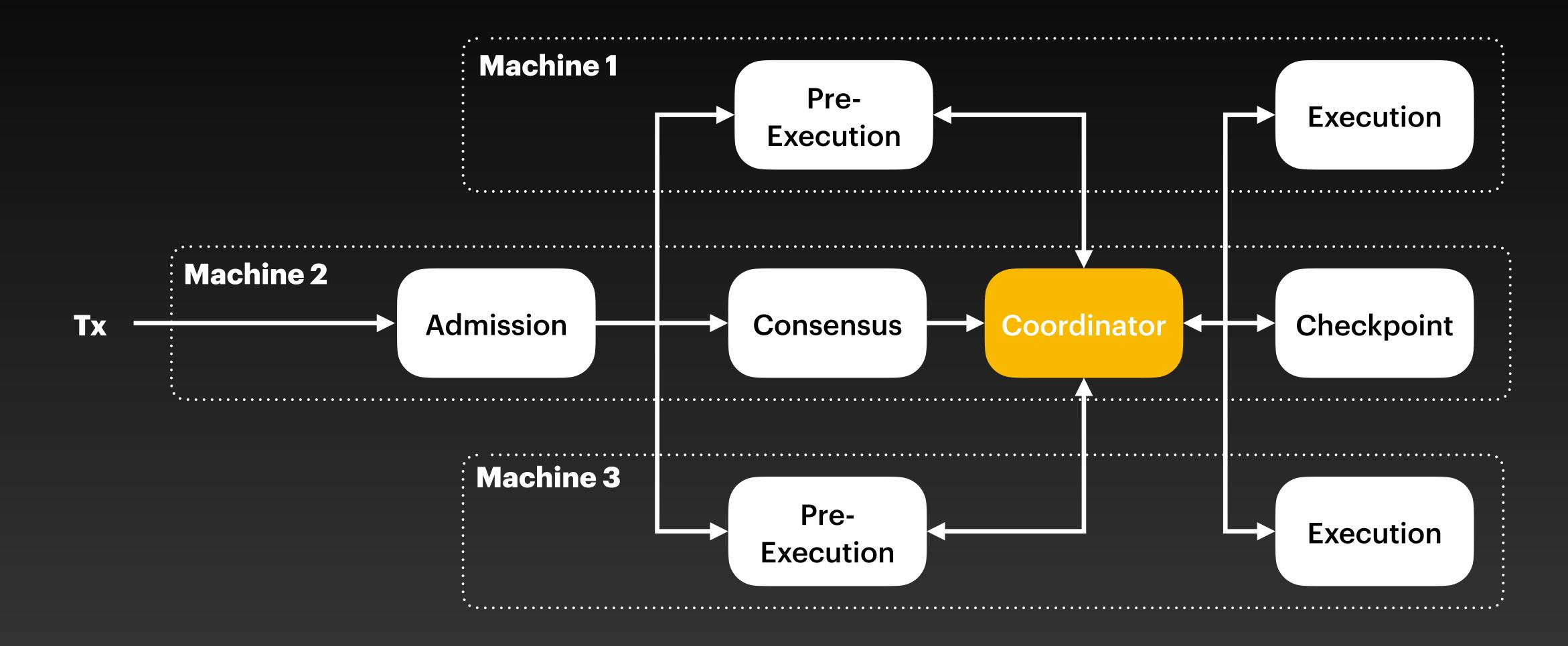


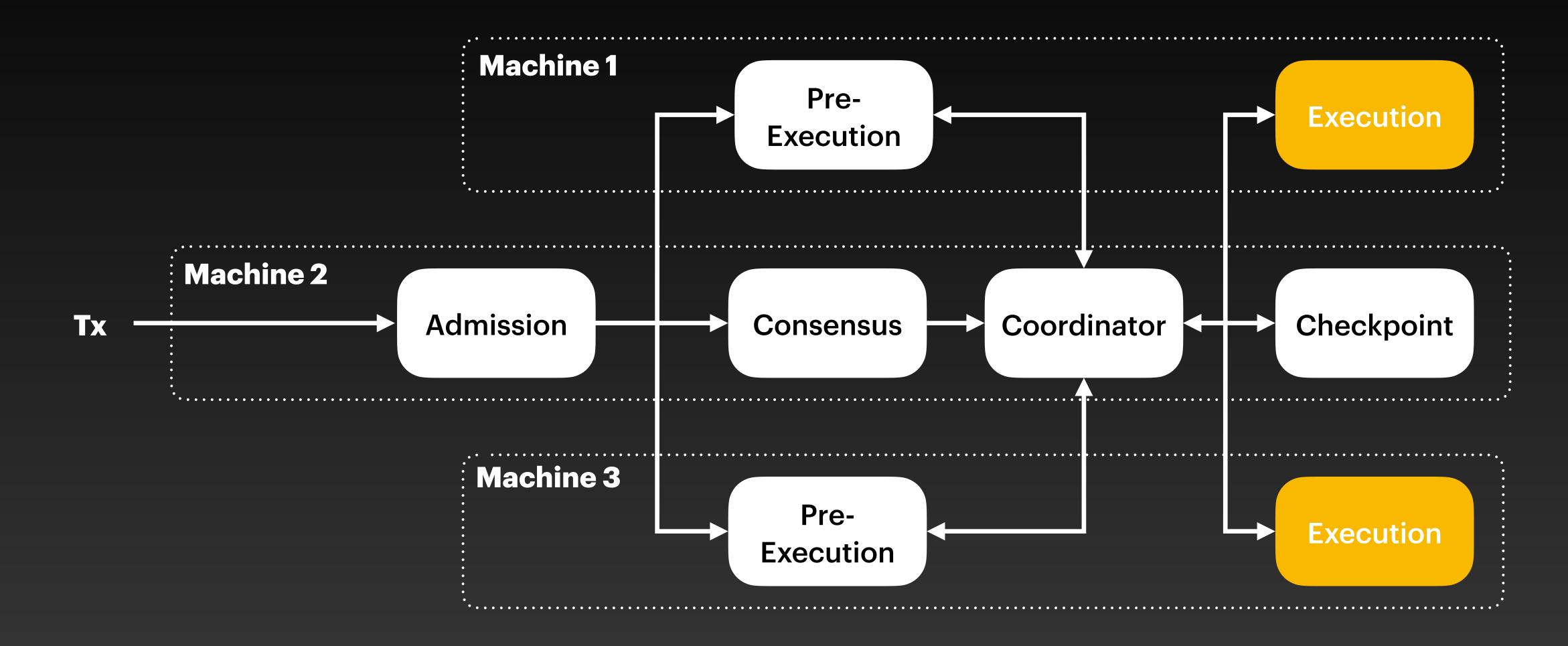




#### Pre-Executors

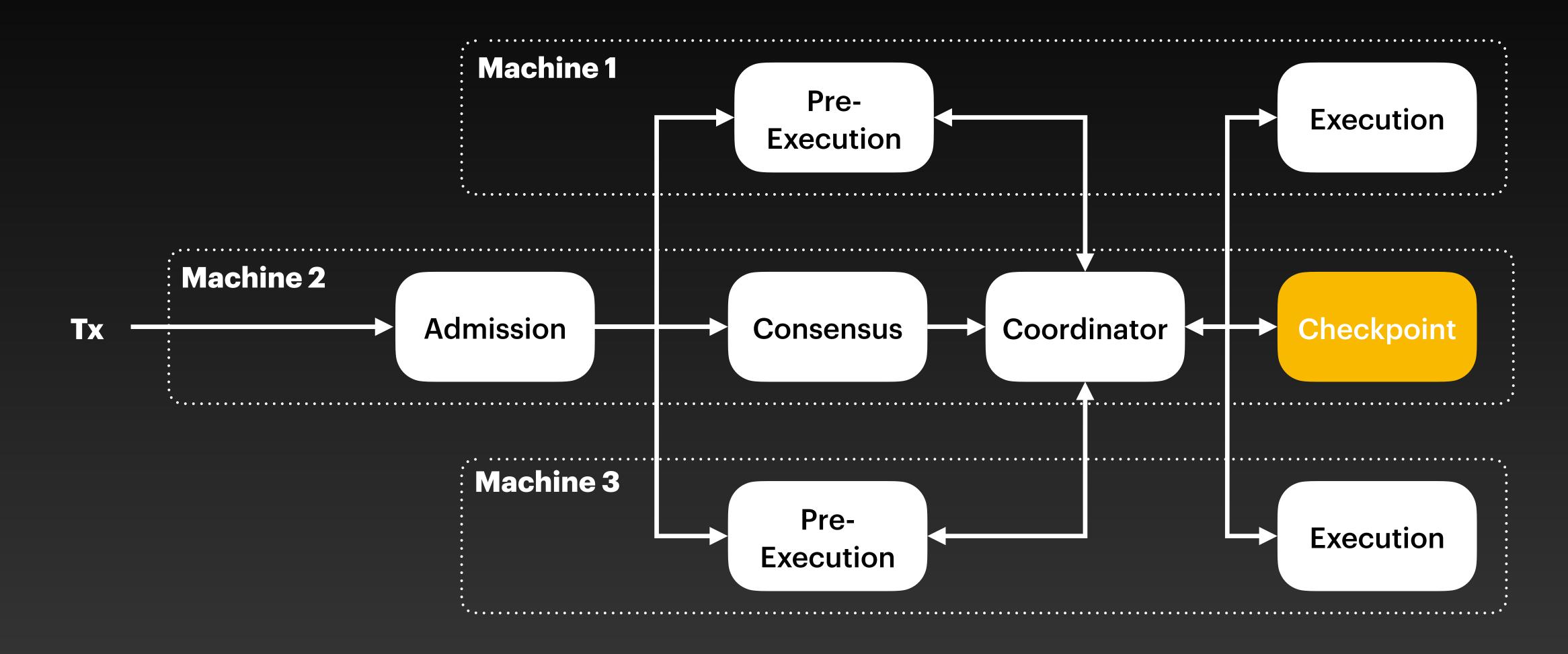
- Execute transactions
- Compute lookup table with:
  - Calls to pre-compiled functions
  - Status of cryptographic checks
  - Id of dynamic objects
- Forward results and table to coordinator
- Lazy update objects state





## Merge Operation

- Adopt pre-execution if lookup table contains versioned inputs
- Skip authenticators verified by pre-executors
- Read from lookup table all dynamic objects
- Adopt from lookup table results to pre-compiled functions if in lookup table



## State Update

- Primary executor keeps stats of pre-execution misses
- Push state update when misses exceed a threshold
- Hold state snapshot for crash-recovery