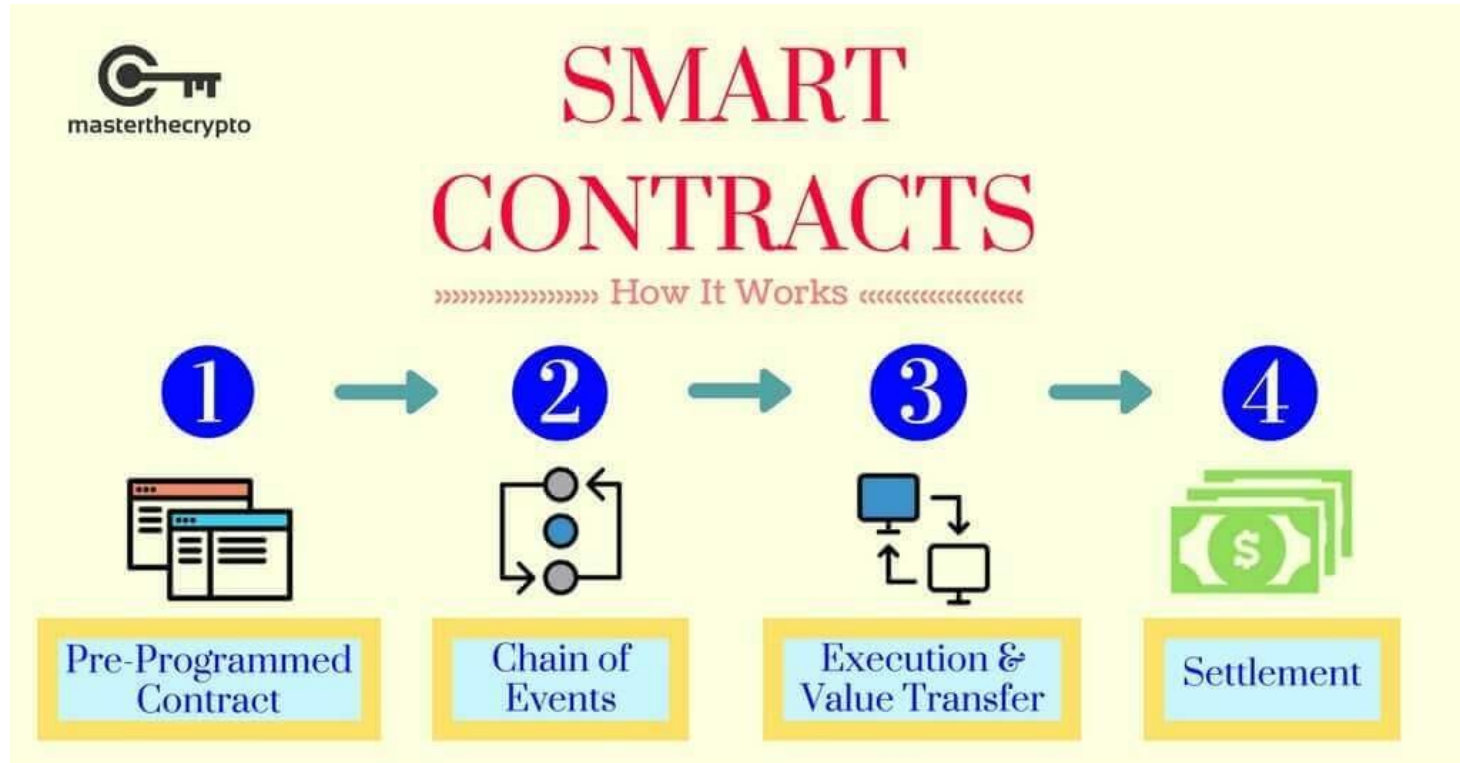


Smart Contracts

Smart contract

```
1  contract MetaCoin {
2      mapping (address => uint) balances;
3
4      function MetaCoin() {
5          balances[tx.origin] = 10000;
6      }
7
8      function sendCoin(address receiver, uint amount) returns(bool sufficient) {
9          if (balances[msg.sender] < amount) return false;
10         balances[msg.sender] -= amount;
11         balances[receiver] += amount;
12         return true;
13     }
14
15     function getBalance(address addr) returns(uint) {
16         return balances[addr];
17     }
18 }
19 |
```

Smart contract



1



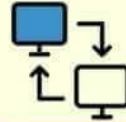
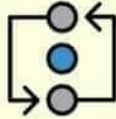
2



3



4



Settlement



Digital Twin



Token economy



Energy ?

- Local Energy Communities
- Demand Side Management / Demand Response
- Product/Service Systems