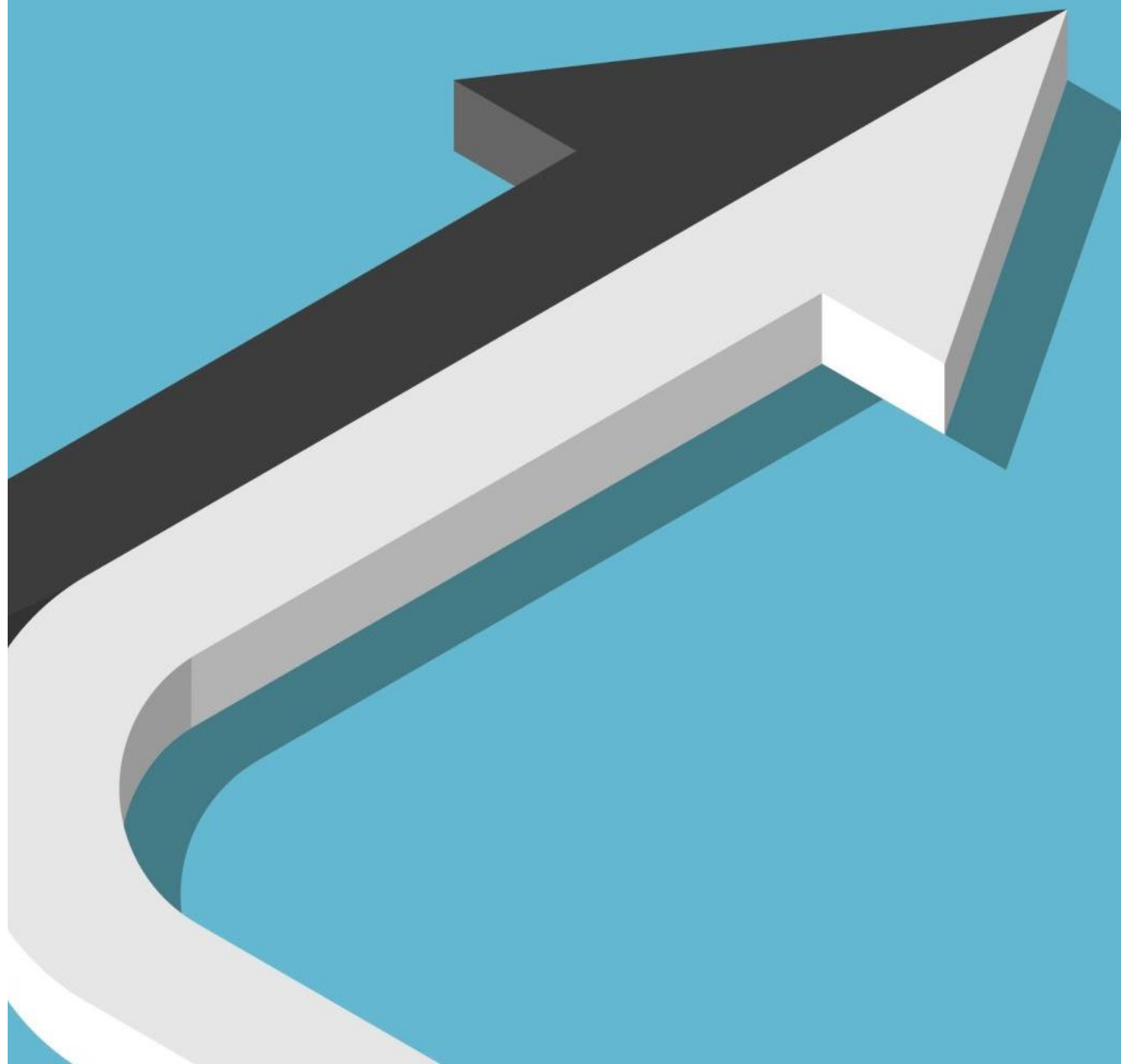


SMART VOTING

Luxembourg
Public
Blockchain

by **stampify**





PUBLIC

ELECTIONS

PROBLEMS



Lack Trust and Transparency

> 59% of Americans (USNEWS, 2020)



Time & Money consuming

> 11.000 working days (Estonia, 2020)



Paper is too complex

> 4% of error (Paperjam, 2020)



Electronic systems are unreliable

> "Unsafe source code" (PWC, 2014)



smart voting



FASTER



TRUSTED



TRANSPARENT



USER-FRIENDLY



REDUCE COSTS

Operational feasibility



Smart ID

Citizen private & public keys

Accessible

From any electronic device

Voting

Anonymous and secured

Design and technical implementation

The Smart Voting contract allows to manage :

- Voting time
- Data encryption
- Voting secrecy
- Voting validation
- Voting results



```
55 lines (47 sloc) 1.19 KB
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.4.22 <0.8.0;
3
4 contract Meeting {
5     address public owner = msg.sender;
6     uint public time_begin;
7     uint public time_end;
8     mapping(address => string) public cyphered_votes;
9     uint public votes_for;
10    uint public votes_against;
11    uint public votes_empty;
12
13    modifier restricted() {
14        require(
15            msg.sender == owner,
16            "This function is restricted to the contract's owner"
17        );
18    }
19
20    modifier open() {
21        require(
22            block.timestamp > time_begin && block.timestamp < time_end,
23            "This function is restricted to an open contract"
24        );
25    }
26
27    modifier after_end() {
28        require(
29            block.timestamp > time_end,
30            "This function is restricted to a finished contract"
31        );
32    }
33
34    constructor(uint tb, uint te) public {
35        time_begin = tb;
36        time_end = te;
37    }
38
39    function get_vote_cypher(address addr) public view returns (string memory) {
40        return cyphered_votes[addr];
41    }
42
43    function set_vote(string memory vote) public open {
44        cyphered_votes[msg.sender] = vote;
45    }
46
47    function set_result(uint vf, uint va, uint ve) public restricted {
48        votes_for = vf;
49        votes_against = va;
50        votes_empty = ve;
51    }
52
53 }
```


Inventiveness
and originality

A **Universal** Smart Contract
to operate a **Trusted** and **Inkless**
Democracy.



“Les jeunes DP plaident pour l’e-voting dès 2028”
Paperjam, 21SEP20.

