

@ETHBerlin hackathon DEZENTRALIZED PENSION SYSTEM

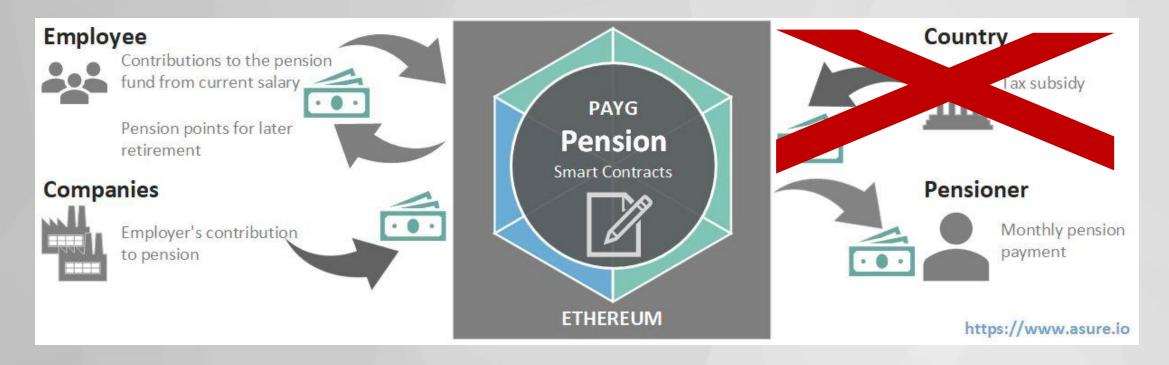
www.asure.io

WHY? AND WHY DECENTRALIZED PENSION SYSTEM?

- 1. We want to improve people lives
- 2. Many industrial countries are in trouble
- 3. Globalization

decentralization and crypto is awesome!!!

PAYG / Redistribution Scheme



Pros

- Inflation save
- Connected to current salaries
- Government protects you against risks

Idea

Tokenization of pension points => DECENTRALIZED PENSION TOKEN (DPT)

Cons

Must be mandatory

INCENTIVATION MODEL

Join early and profit

$$f(x) = 1.5 - \log(0.12 * x)$$

Pay longer - receive longer (40 years)

$$ReciveTimeInMonths = \frac{(\sum PaymentMonth)^2}{12*40 years}$$

Pay more ETH - receive more DPT

$$DPTs = 1 + \frac{amount - amount_{max}}{TargetPrice - amount_{max}} * DPTFactor$$

Pension smartcontract

deposit(uint256 amount) public payable returns (bool)

claim(uint16 year, uint8 month) public returns (bool)

retire(uint256 amount) public returns (bool)

withdraw(uint16 year, uint8 month) public returns (bool)

Lessons learned

- People must only participate once
- People who leave the system last are at a disadvantage

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THANK YOU



Demo: https://ethberlin.asure.io

GitHub: https://github.com/AsureFoundation/ETHBerlin