

Decentralized commercial banking and stable currency \_



### Problems With Commercial Banks

Massive infrastructure, HR & compliance costs

BANK



7% GDP consumed by financial services

Chronic bad judgement making loans

CREDIT CYCLE

Digitization of money creates civil liberties danger

We are closing your bank account.

You were involved in crypto.

No appeals process !!!





## Fiat Money

FACT 98% of money is created by commercial banks

#### CREATE NEW MONEY

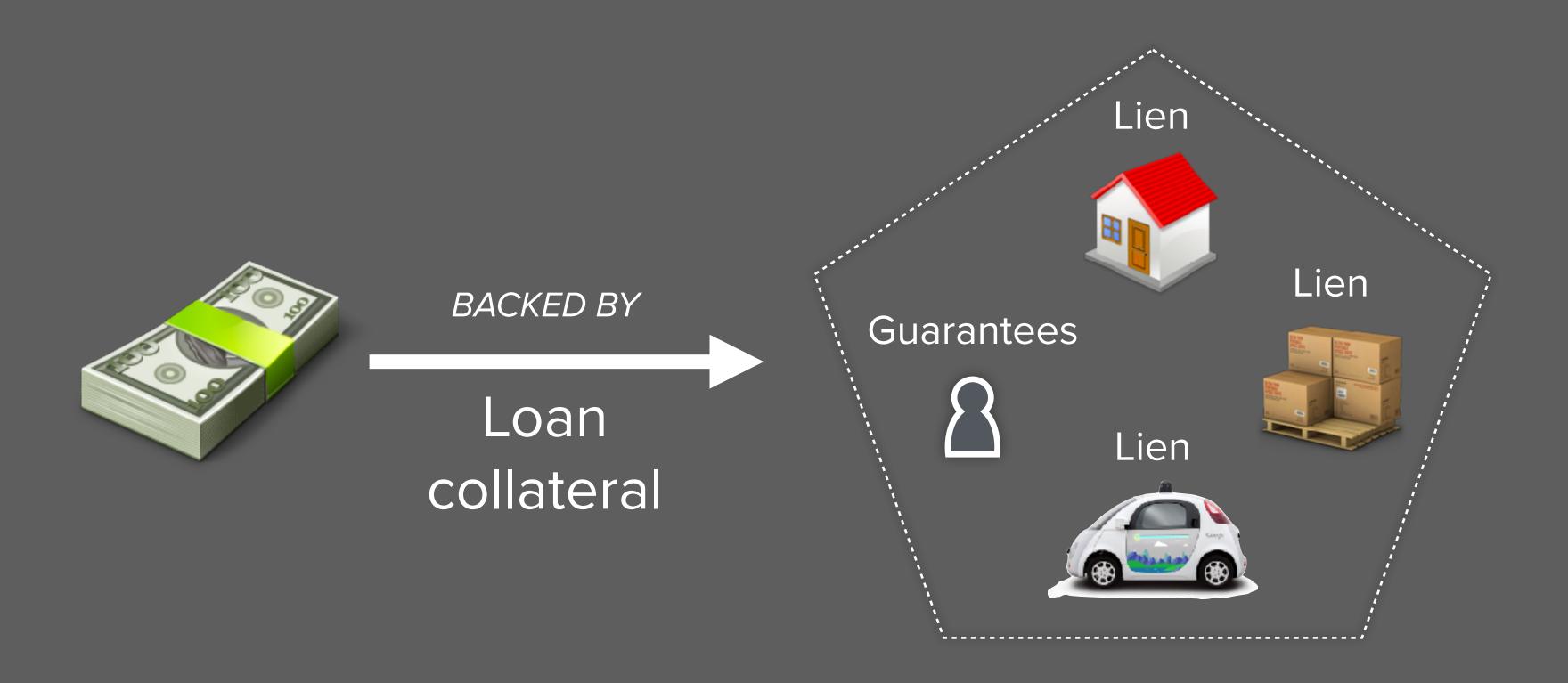


#### BALANCE SHEET

- Loan is asset
- Money is liability



# Fiat Money



Fiat money is a kind of aggregate IOU backed by legal claims on assets and cash flows



#### Ahhhhhhhhhh... make a World Computer...

#### Give out loans algorithmically

& create stable currency backed by loan collateral



### PHI is Currently In The Works

for Ethereum/EVM family networks



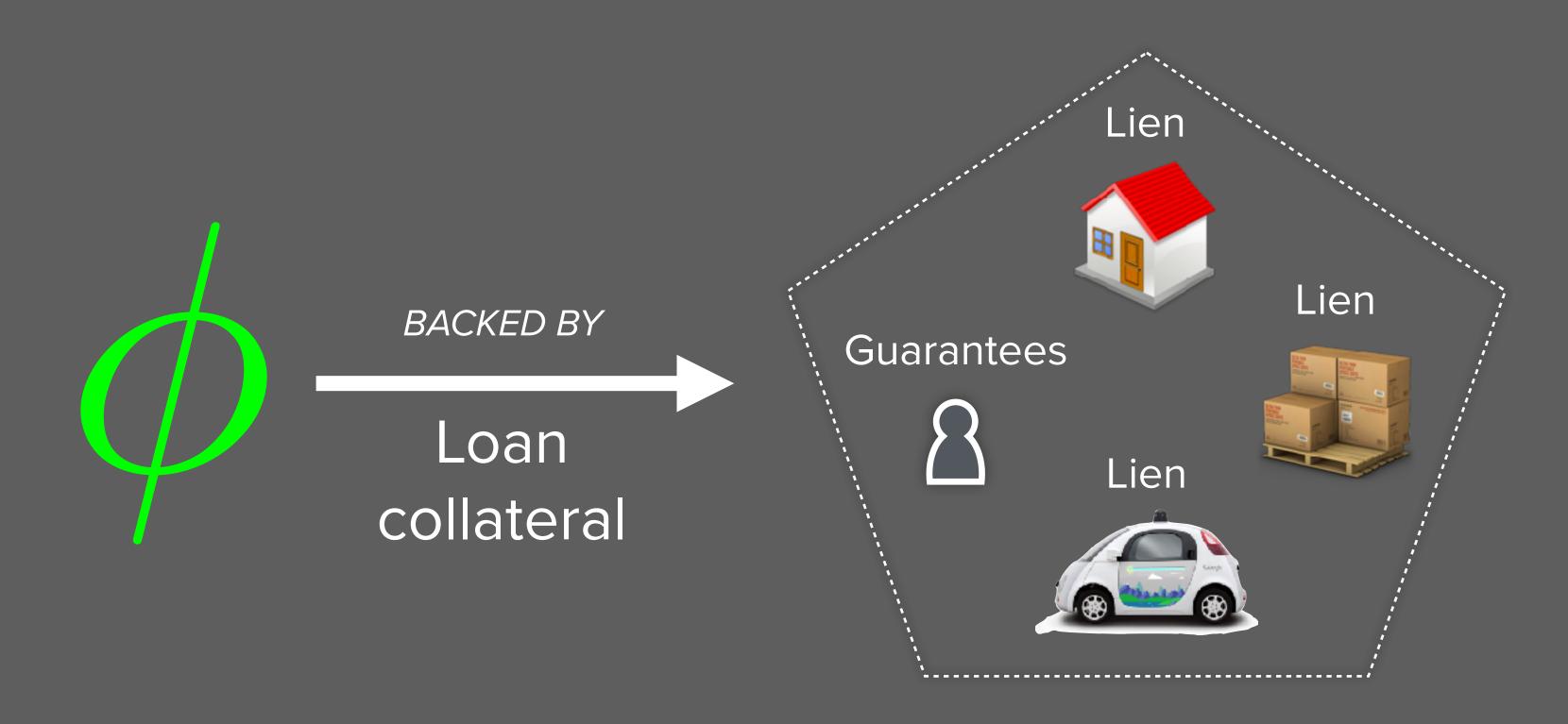


The Code is Law & smart contracts

Decentralized Cloud, Al governance, performance...



# PHI Money



Phi money is also an aggregate IOU backed indirectly by legal claims on assets and cash flows



### PHI Localization

PHI currency works together with the local currency





#### PHI Localization

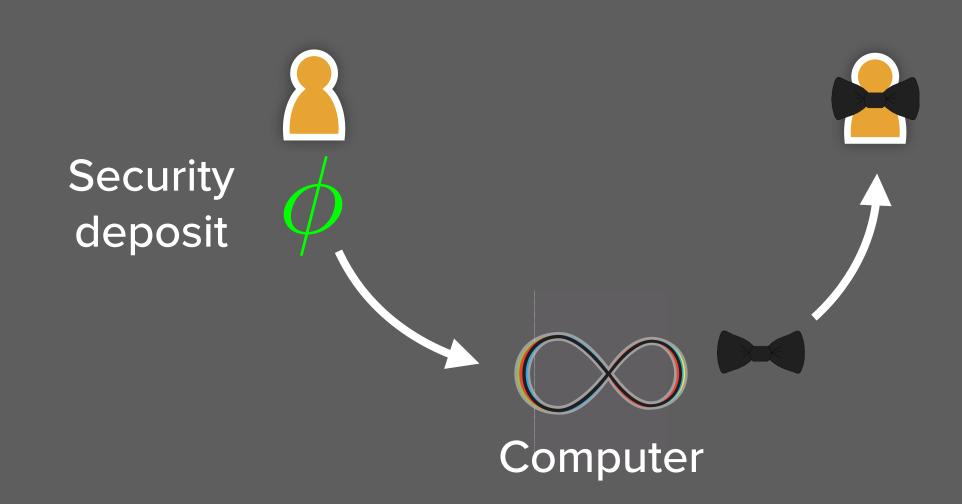
#### Our candidate countries for initial PHI networks are small and crypto friendly

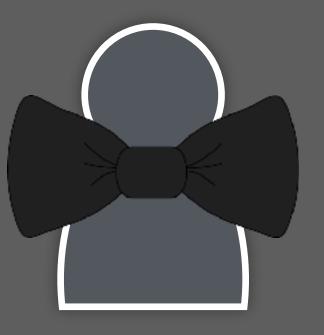
Regulators and other governmental organizations interested in improving lending to businesses and consumers are invited to make contact: more judicious, more accessible, less expensive lending





## Anyone Can Be A PHI Validator





Example (paid in PHI)

**Deposit** \$50,000

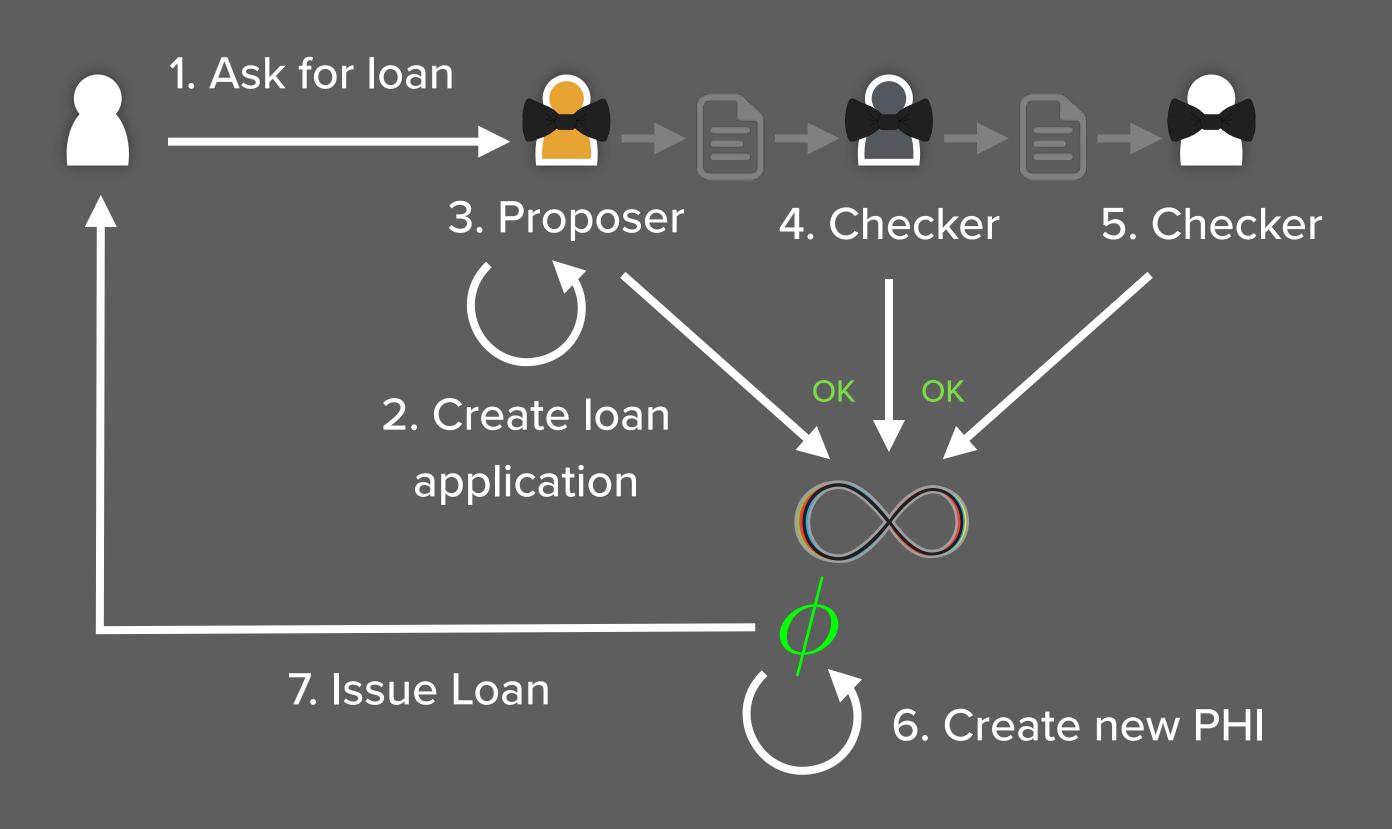
Max Loan \$5,000

Max Loans \$500,000

Anyone can become a PHI Validator by making a security deposit to the computer. If a loan you approve becomes delinquent the computer takes compensation from your deposit.



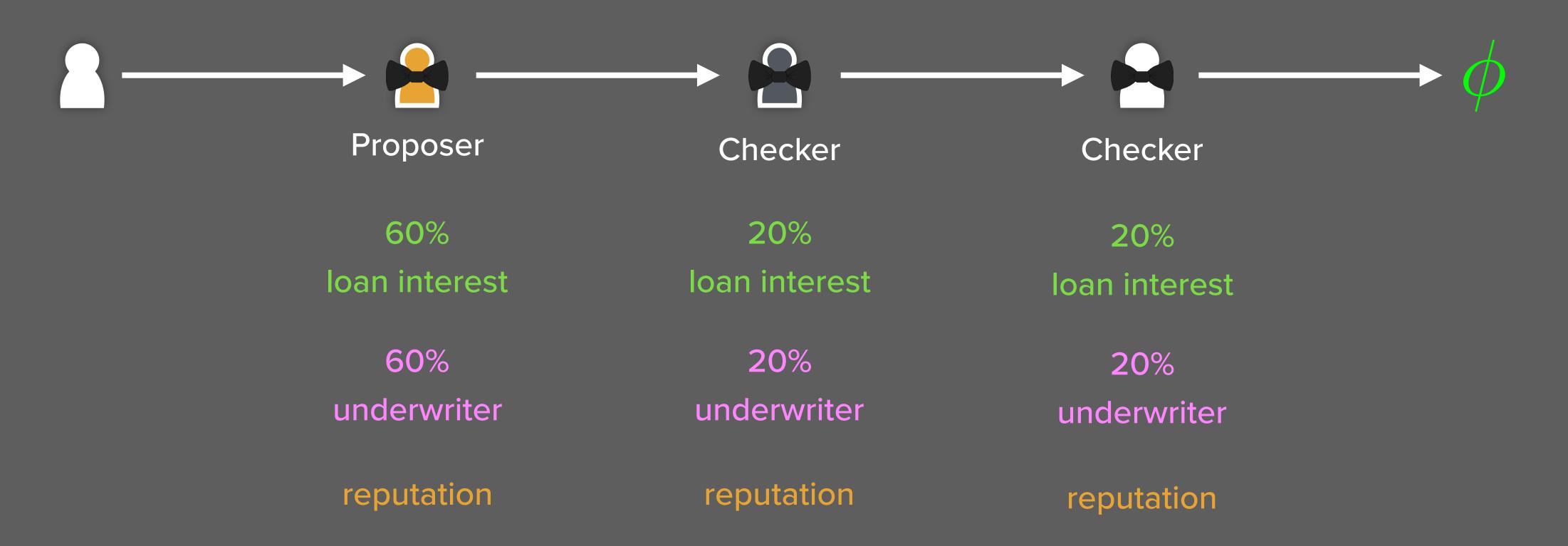
### How Computer Issues Loans



- Random sequence validators
- Who's next is unknowable
- Length sequence is unknowable
- Choice validators
- Size of their deposit
- Reputation
- Loan application
- Format is open standard



#### Validator Incentives



**EXAMPLE** 



## Validator Reputation



Loans performing

Deposit size maintained

Incompetence & game playing are losing strategies

The lower your reputation falls the longer the validation chains and the harder it is to make returns from your security deposit, which can get "frozen"



Loans have delinquent payments

Deposit size decreasing

Other validators reject loans

If validation decision rejected by others, can appeal and computer decides using new random sequence





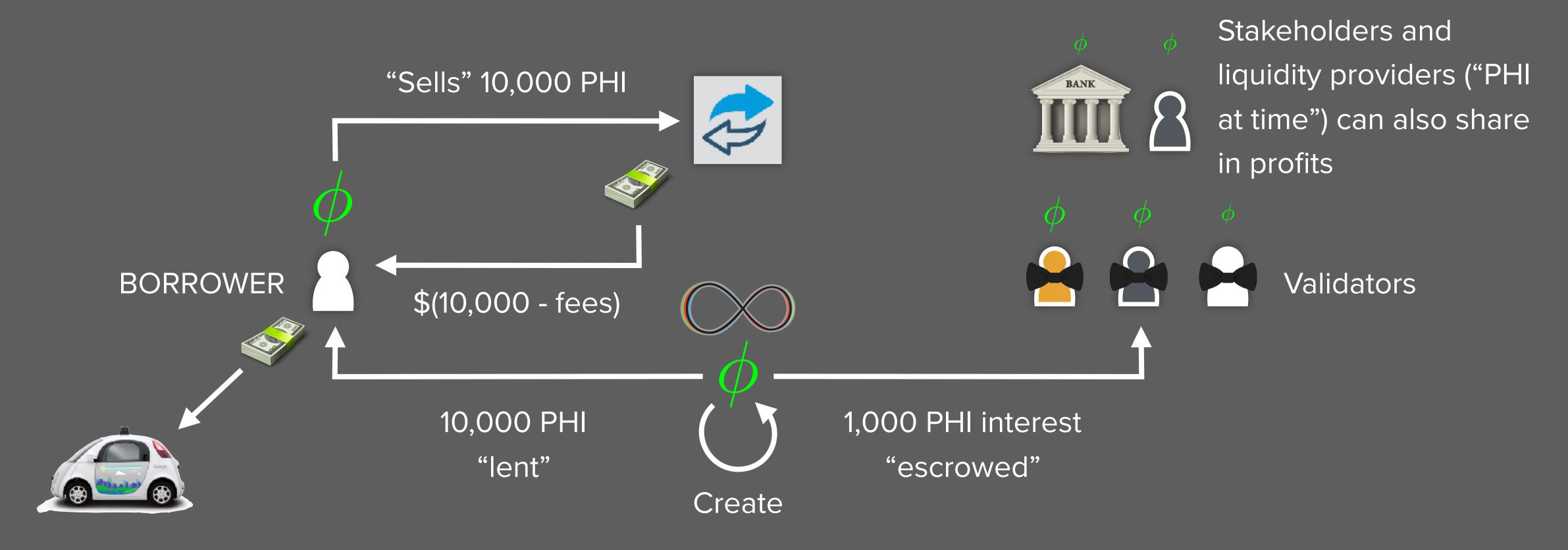
So the computer gives out loans algorithmically using "randomness".

Can DFINITY's Threshold Relay technology power this?

Absolutely! The randomness it creates is <u>perfect</u>



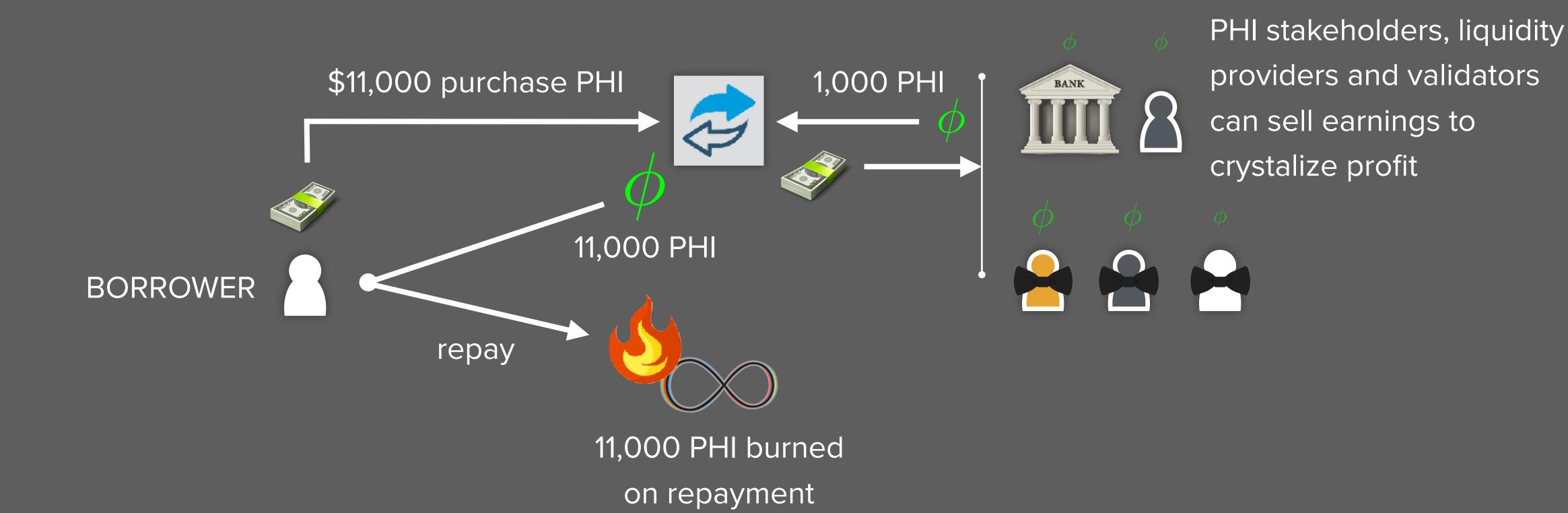
#### PHI Loan Flows



Total PHI created (loan + interest) = borrower's obligations in \$ = 11,000 PHI-USD



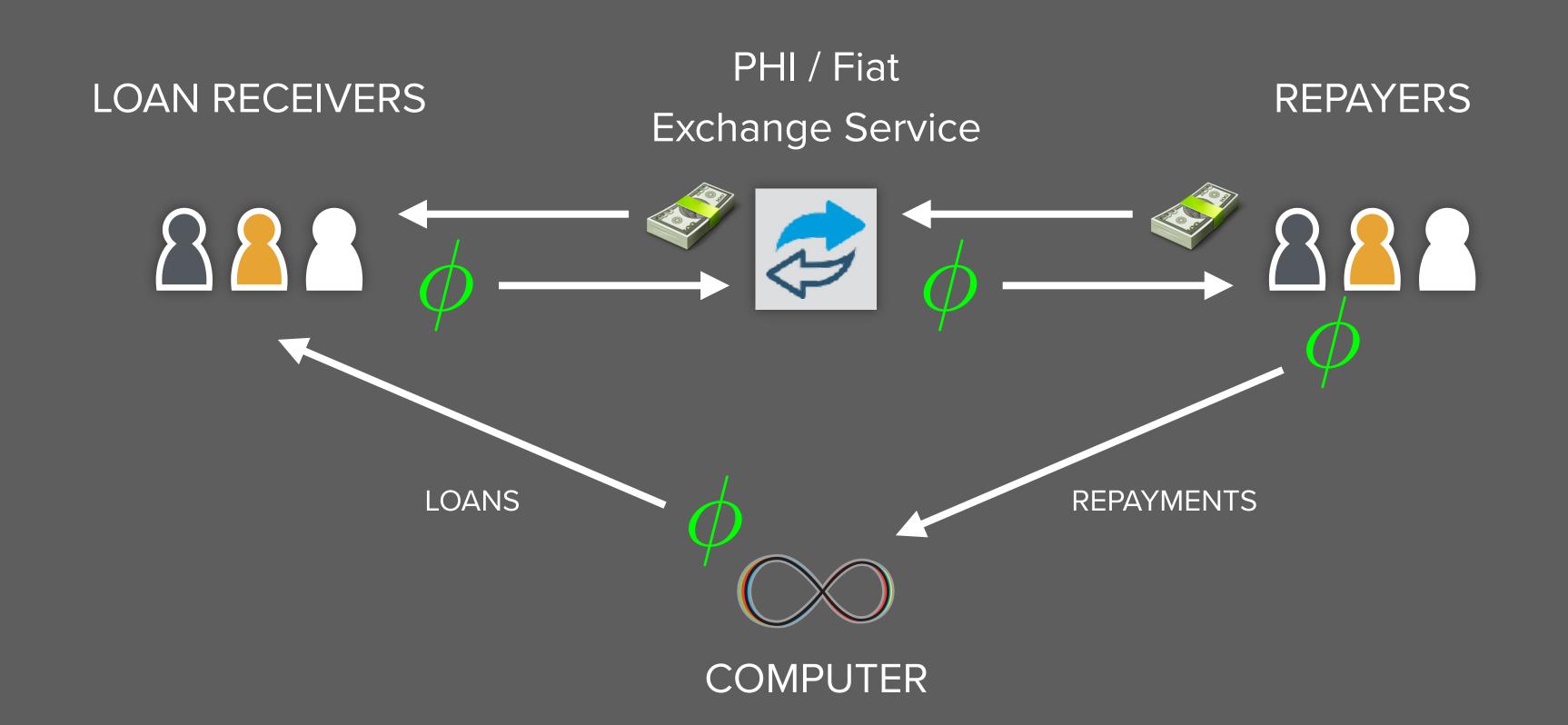
## PHI Repayment Flows



Borrower buys PHI to pay back the principle and interest. All PHI burned on repayment



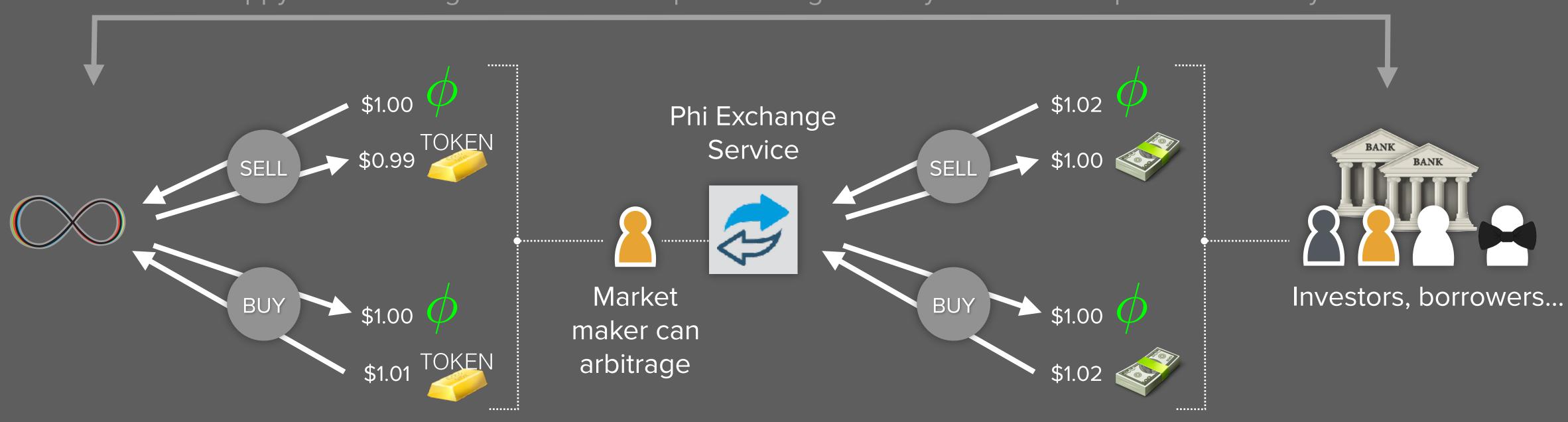
## PHI Balance





## PHI Market Making

Those not happy with exchange service fees or prices can go directly to World Computer resident systems



The Computer maintains outer spread by buy/selling PHI. The simple version involves value tokens from reliable providers

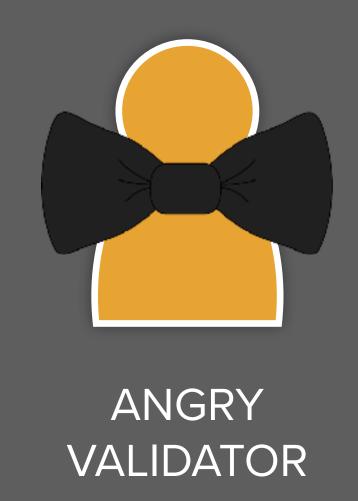


## Legal Force No Banks



You did not repay the computer !!!

The computer took repayment from my deposit. Our original contract now activates, and you owe ME the money !!!





Centuries-old public debt recovery infrastructure already exists



## PHI Modern Banking UX



The "bank branch" of the future is virtual not physical. Consumers do not need to touch PHI currency

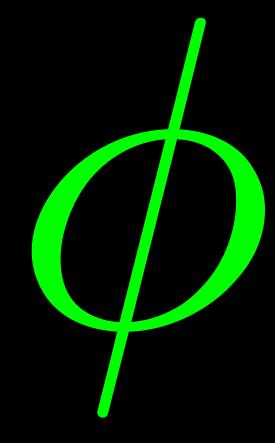




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Decentralized
Commercial Banking

