

SecuredSmartWallet

Making crypto accessible to non-crypto users

*With Smart Wallet policies
and a new paradigm*



Table of contents

01

Why crypto is not accessible?

Most people won't do self-custody

03

Smart Wallet integration

Integration as policies

02

Solution and compromises

Two tools that helps accessibility to crypto

04

Future of the solution

What's next ?

01

Why crypto is not accessible ?

Why my grandma, your non-nerd friends
don't have a crypto wallet ?

We created banks to secure our money and
facilitate exchange

But now Crypto enable an **integrity** layer for **money** and
allows to get away from institutions and banks.

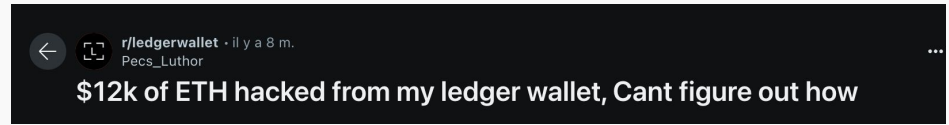
What do people really want ?



The self-custody problem



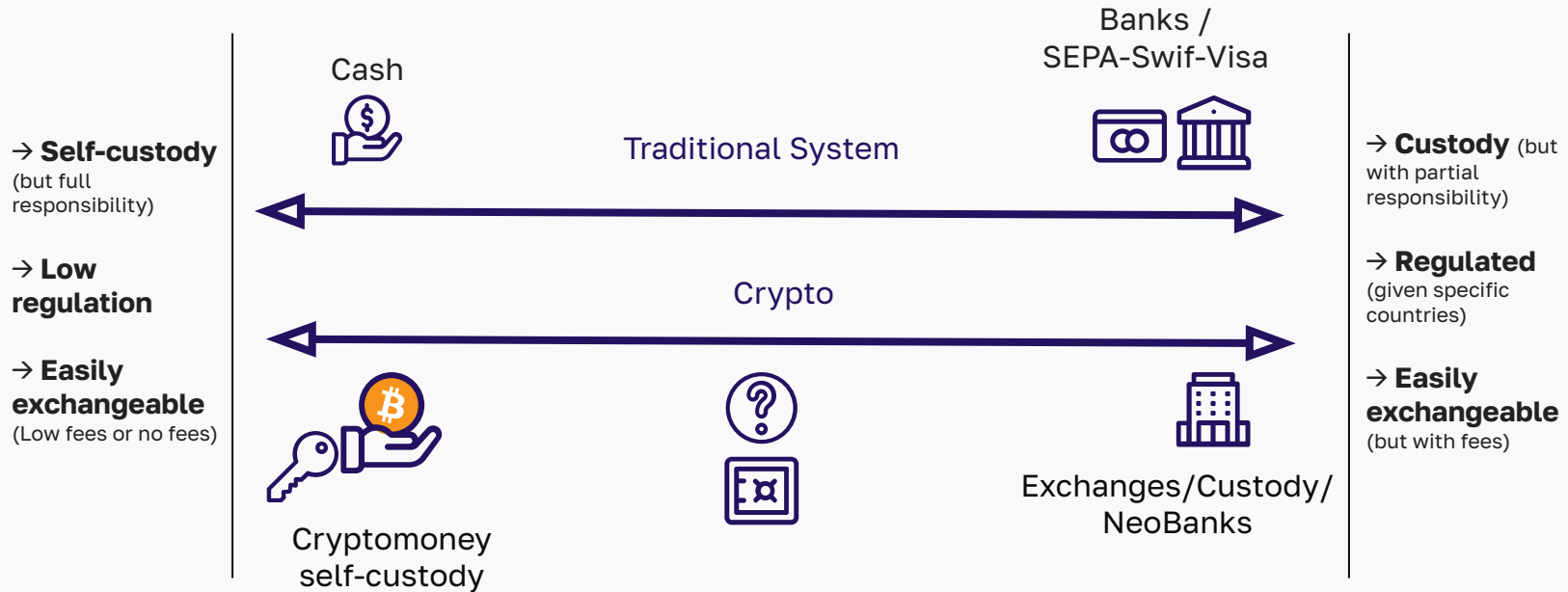
People lose their seed. So ledger made a business out of it
→ *This solution may put your keys at risk !*



Hardware wallet prevent you from getting your key stolen **NOT from being scammed**

Still many people lose funds because of unsafe transactions

Overview



02

Solution and compromises

- Time based Social Recovery
- Securer: external multisig for high security

Social Recovery has a problem

You are no longer fully in control of your funds

There is a collusion risk...

Compromised solution:

Inactivity time based recovery system

(As long as you keep sending, you keep full control)

Solutions for savings accounts in implementation



```
[
  {
    [alice_backup, bob, companyX],
    threshold: 2, time: 10 days
  },
  {
    [alice_backup, companyX], threshold: 1,
    time: 15 days
  }
]
```


Securer: external entity multisig

(optional ofc)



External security
with **censorship**
compromise during
the *Inactivity time*
(set in recovery)



Keeping control of
your assets with
time compromise
(based on recovery)



Providing the option
for **partial**
responsibility and
potential **insurance**
coverage (on your asset
property - against theft...)

03

Implementation in smart wallet

Stellar has a great auth system and a great smart wallet implementation ;) Let's add on top of it.

Policies

External contract that will be call during auth:

- For each call for securer
- For recovery action for recovery function

Recovery



Last_active_time

We have to regularly send a transaction for showing activity (this could be sign when signing new tx):

- Imagine we have a recovery time of 1 week
- Alice can pre-sign 4 transactions if she knows she will not connect again for a month
- Her phone can send them in the background every week (or she can subscribe to a service)
 - if she lost her phone she will only have to have a 1 week loan / or wait 1 week
 - She keeps the control all the time

Securer



Dynamic Signer Addresses

To provide the best security possible a Securer company would want to be able to **change his validating keys** in case of one being compromise.

(Without having every client to sign a new transactions)

Moreover, he may have **more than one signers** to keep high availability.

This is why this function is implemented as an external policy rather than using the embedded multisig of the Smart Wallet

04

Future of the solution

What's next ?

Improvement



Tests

More tests and thorough implementation are needed - only 6-5 days have been spent on understanding the smart wallet and integrate the functions



Wallet integration

Integration in on going wallet for “non-crypto” users



Client

Client sdk for automatic authorization entries



Business

Developing the idea on a real market of users as a securer
(I know a potential market but we need more tools : **regulatory and privacy** tools)

Thank you!

Do you have any questions?

pro@nicolasbeaudouin.com
<https://nicolasbeaudouin.com>

Credits: This presentation template was created by **Slidesgo**, and includes icons by **Flaticon**, and infographics & images by **Freepik**