The future of self-managed identities - a user perspective

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Are people reliable?
Are people reliable?

We forget
We lose things
We do not take backups
We are careless

1/3 of all bitcoins (43 BUSD) are lost, by “trained professionals”
Our digital doubles
My digital doubles

I have too many...
Personas

The tax-payer

The traveller

The banker

The patient

The shopper

The professional

The dater

... and many more
Manage my own identity

I am in control of my identity data

I decide what to share with whom
Self-Sovereign Identity on the blockchain

Data is in my own data store

I am the only one with the access key
Distributed ledger

SSI – The blockchain way

My secret key

My personal data

Distributed ledger
Forgotten password or lost device

About 30% of all Bitcoins mined are missing – are they lost forever?
Canadian Exchange Insolvent After CEO Allegedly Dies With Keys

Death is complicated enough in the cryptosphere when a private investor dies with the private keys to their fortune. But the pain is amplified exponentially should the deceased be the CEO of a digital currency exchange responsible for the safekeeping of millions of dollars. The death of Gerald Cotten, founder and chief executive officer of crypto exchange QuadrigaX, has led to the loss of CAD $190 million (~U.S. $145 million) stashed in the platform’s cold storage wallets.
Distributed ledger

Software vulnerability exploit

Exploiting vulnerability

Distributed ledger

Blockchain / Cryptocurrency

How secure is blockchain really?

It turns out “secure” is a funny word to pin down.
"We hardly ever need to know "who people are" online (or in real life for that matter); we just need to know certain specifics about them"

Steve Wilson
Trusted attributes

Is a business
Norway
Worth 10MEUR

Is a person
Female
20ies

Is a person
Male
30ies
We hardly ever need to know "who people are" online (or in real life for that matter); we just need to know certain specifics about them

Steve Wilson

...but it must be possible to reveal the identity in case they violate T&Cs or perform illegal actions

John Erik Setsaas
People do not understand passwords

- forgets
- writes them down
- uses the same password for different sites
- shares password
- uses “common” passwords

We cannot give them more responsibility
People want somebody to call when they have a problem.
Identity custodians

My credentials

My personal data
Identity custodian - Manage my identity

- Recovery
  - Forgotten password or lost device
  - Next of kin

- Identity exposure
  - With a legal action

- Liability
  - Breaches, hacks, vulnerability exploits

- Risk monitoring
  - Help me avoid identity fraud

Somebody to call when I have a problem
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