

DTM & BLOCKCHAIN

*evaluating identity, signatures,
& smart contracts*

3 KEY USE CASES OF BLOCKCHAIN IN DIGITAL TRANSACTION MANAGEMENT

BUT FIRST, THE CURRENT STATE OF BLOCKCHAIN:

SEVERAL COMPETING STANDARDS

public
vs.
private

public comes with security risks



participants must be given permission to participate in private network



HyperLedger

public or private

backed by
Linux, IBM,
Intel, Oracle

vs.

Ethereum

public or private

backed by
Ethereum.org,
> 150 enterprises

vs.

R3/Corda

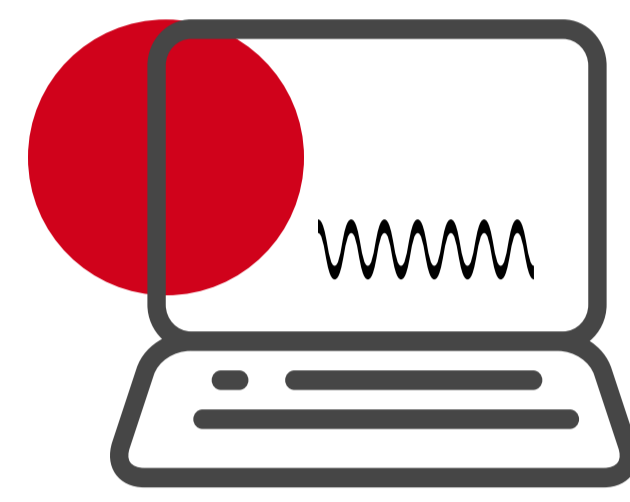
private

backed by
R3, Barclays, UBS,
100 financial
institutions

DIGITAL IDENTITY

Identity *today*

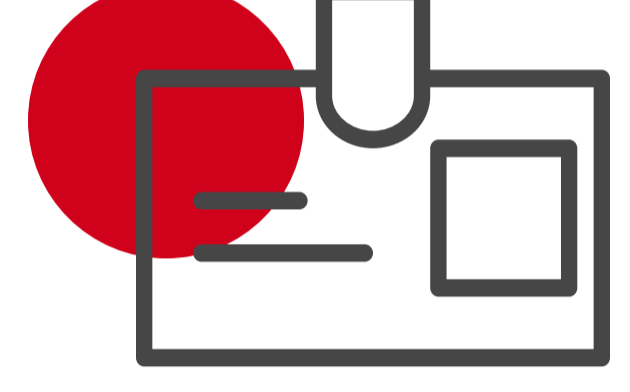
digital or electronic signature



identity & access management



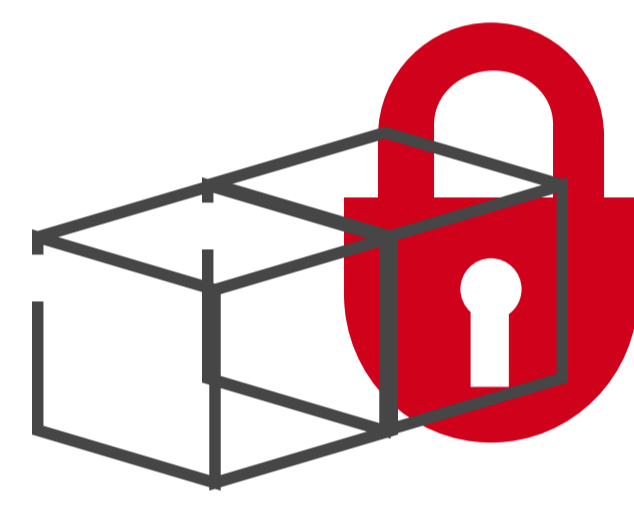
government ID



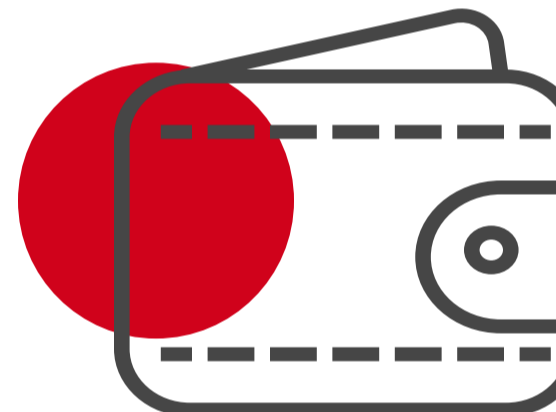
vs.

Identity *with blockchain*

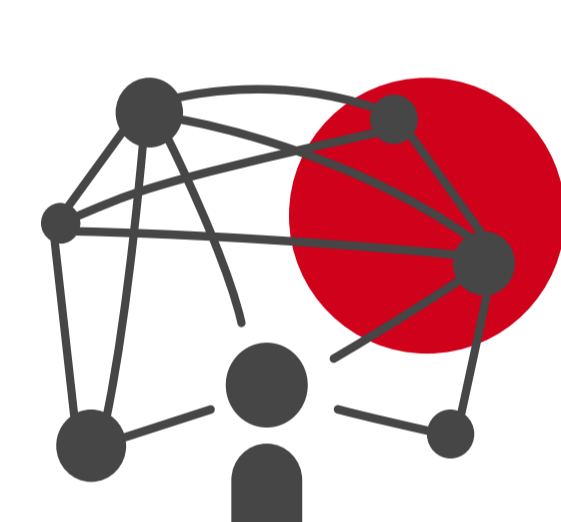
private blockchain



digital wallet



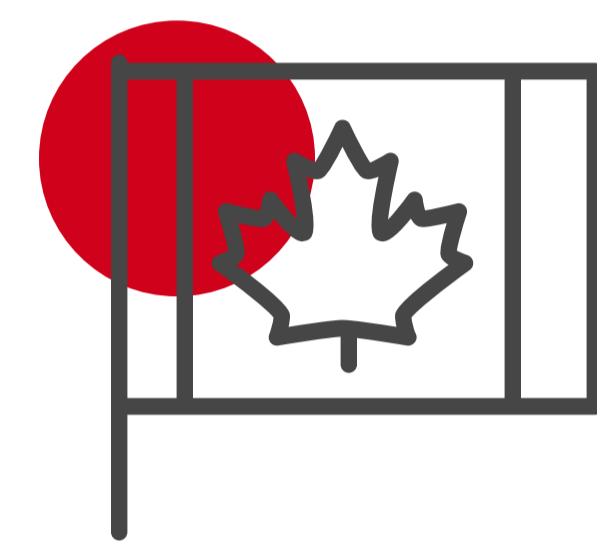
decentralized identity foundation



01

Banks support digital identity in *Canada*

IBM is pushing its HyperLedger-based blockchain in conjunction with SecureKey to offer consumers a secure and trusted digital identity. A number of Canadian banks have signed on.



Globally, lack of standardization hinders blockchain

Like current DTM providers, blockchain offers validated ways of verifying identity. However, there are various blockchain networks that do not interoperate or communicate with each other.



02

SIGNATURES

DTM providers already



verify identity of person or entity in transaction



use their own potentially more tamper-proof algorithms or RSA and PKI

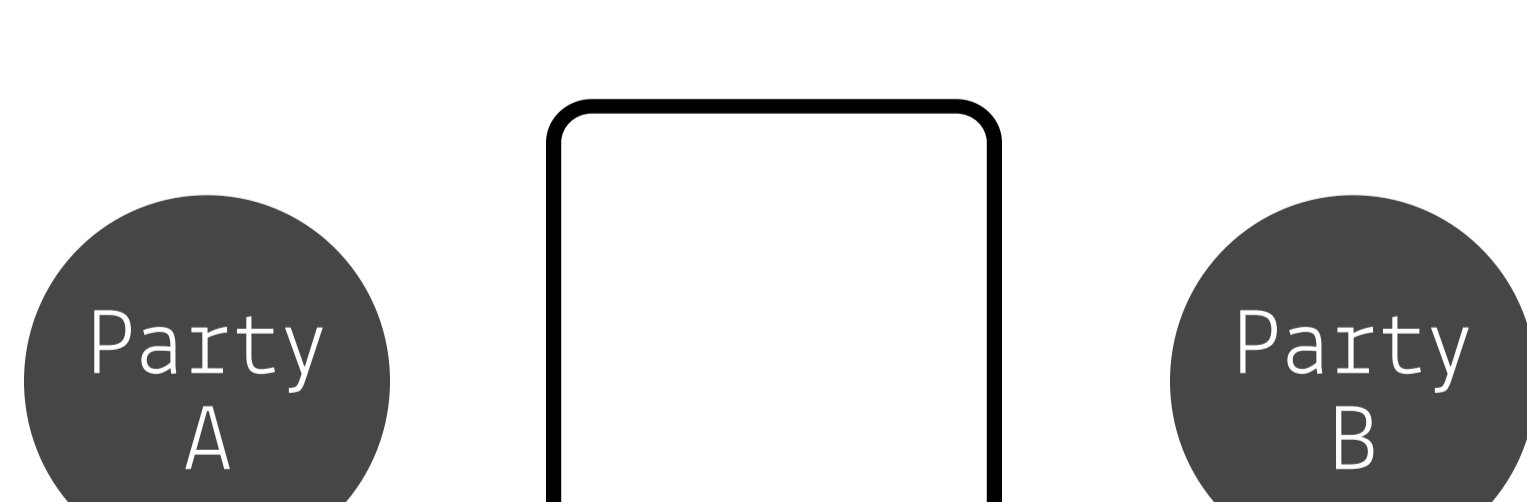
prediction:

THROUGH 2022, BLOCKCHAIN WILL OFFER NO SIGNIFICANT ADVANTAGE FOR DIGITAL SIGNATURES OVER CURRENT E-SIGNATURE AND DIGITAL SIGNATURE APPROACHES.

03

SMART CONTRACTS

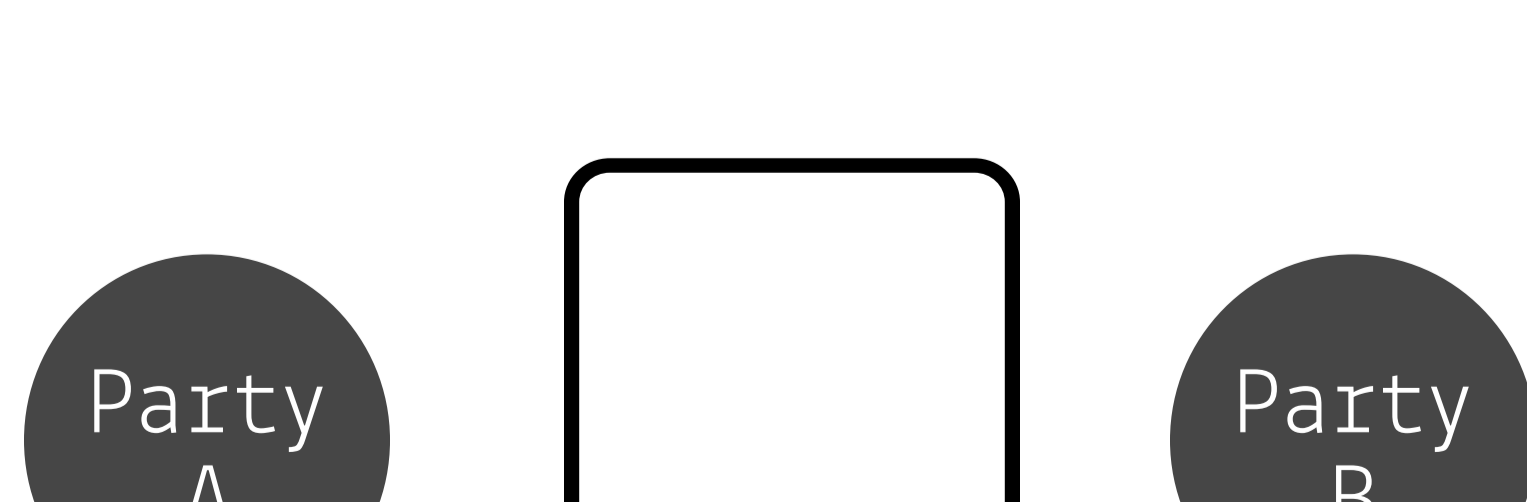
Contracts *today*



manual enforcement

vs.

Smart Contracts *with blockchain*



automatic enforcement

prediction:

THERE ARE A NUMBER OF CHALLENGES FOR SMART CONTRACTS THAT WILL NEED TO BE MITIGATED, BUT BY YE 2023, UP TO 35% OF B2B CONTRACTS WILL LEVERAGE SMART CONTRACTS TECHNOLOGY.



35%