How Blockchain Technology simplifies transactions

How does a money transfer work *today*?

Andreas Park University of Toronto

How does a stock trade work today?

What is different about a stock trade with Blockchain?

What is different about money transfers with the Blockchain?

How Blockchain Technology simplifies transactions

How does a money transfer work *today*?

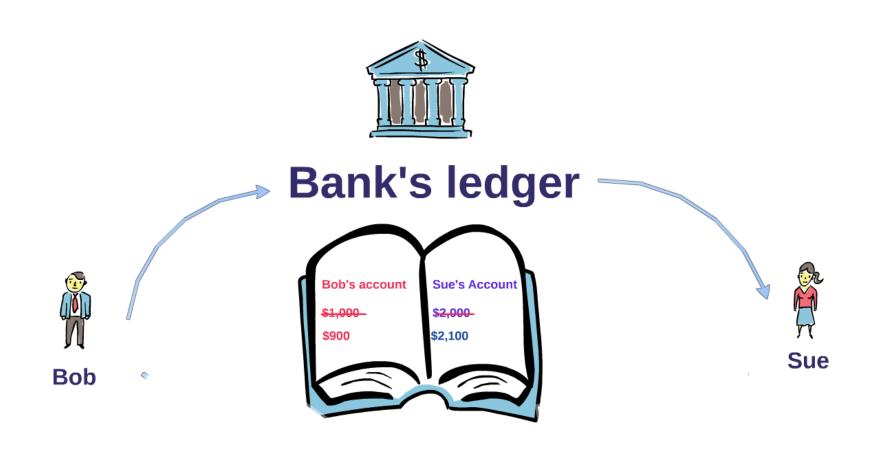
Andreas Park University of Toronto

How does a stock trade work today?

What is different about a stock trade with Blockchain?

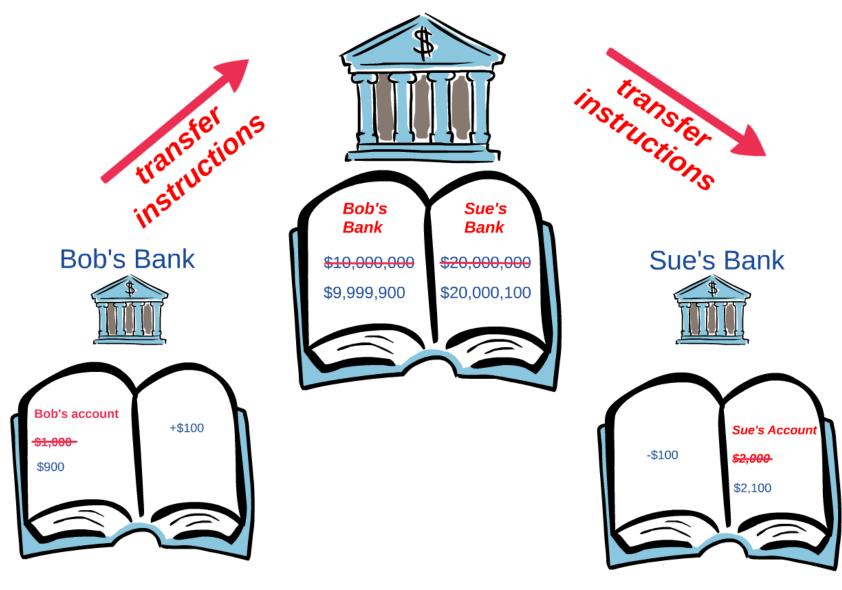
What is different about money transfers with the Blockchain?

How do money transfers work? Bob owes Sue \$100.



What if their banks are not directly connected?

Central Bank





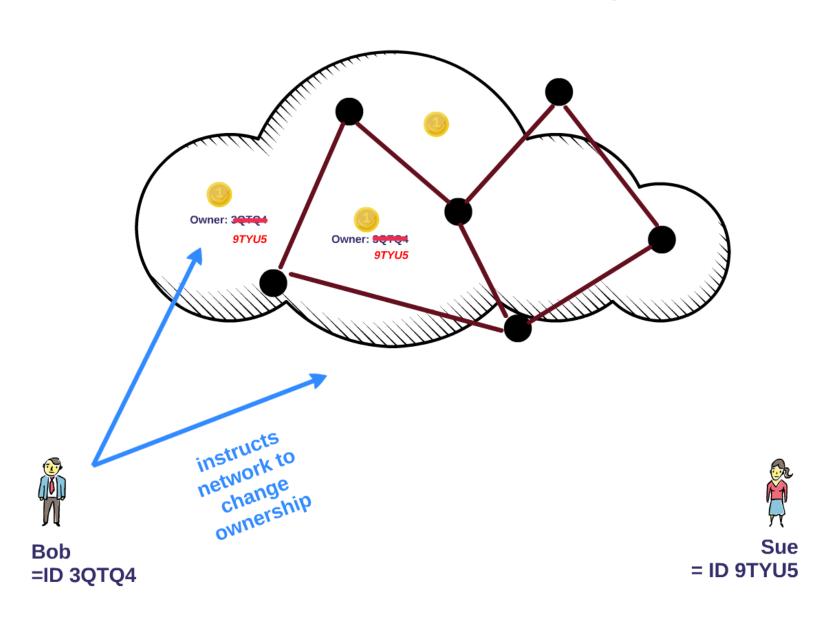


So how would a money transfer look like with Blockchain?

Blockchain

distributed ledger

think: cloud-based database

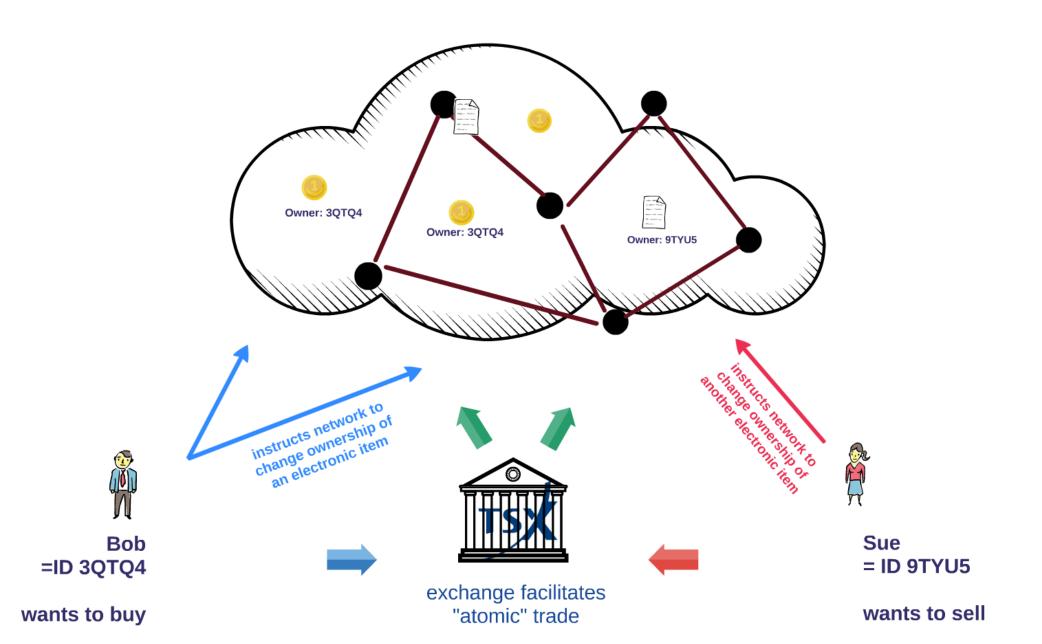


How about a stock trade? Broadridge $\frac{2}{2}$ Central Bank TMX cos Transfer agent (who owns the shares?) Central Depository and **Clearing House** sell order submits buy order **RBC Capital Markets** BMO (A) Capital Markets We're here to help." broker to proker to Sue **Bob**

wants to buy

Share trading is similar





Key Take-Aways

- The current organization requires many parties ... and with them comes lots and lots of regulation.
- Blockchain/Distributed Ledger Technology gives the opportunity for a re-design of financial market interactions.
- BC/DLT has some unique features:
 - the trade is the settlement.
 - peer-to-peer is (easily) possible.
 - · intermediaries that "maintain" accounts may not be needed.
 - transparency (can be) high.
- Design of ledger is critical:
 - Katya Malinova & Andreas Park (2016) derive several key economic implications.
 - · Who should see what?
 - Who is who?
 - Is immediate settlement desirable/efficient?