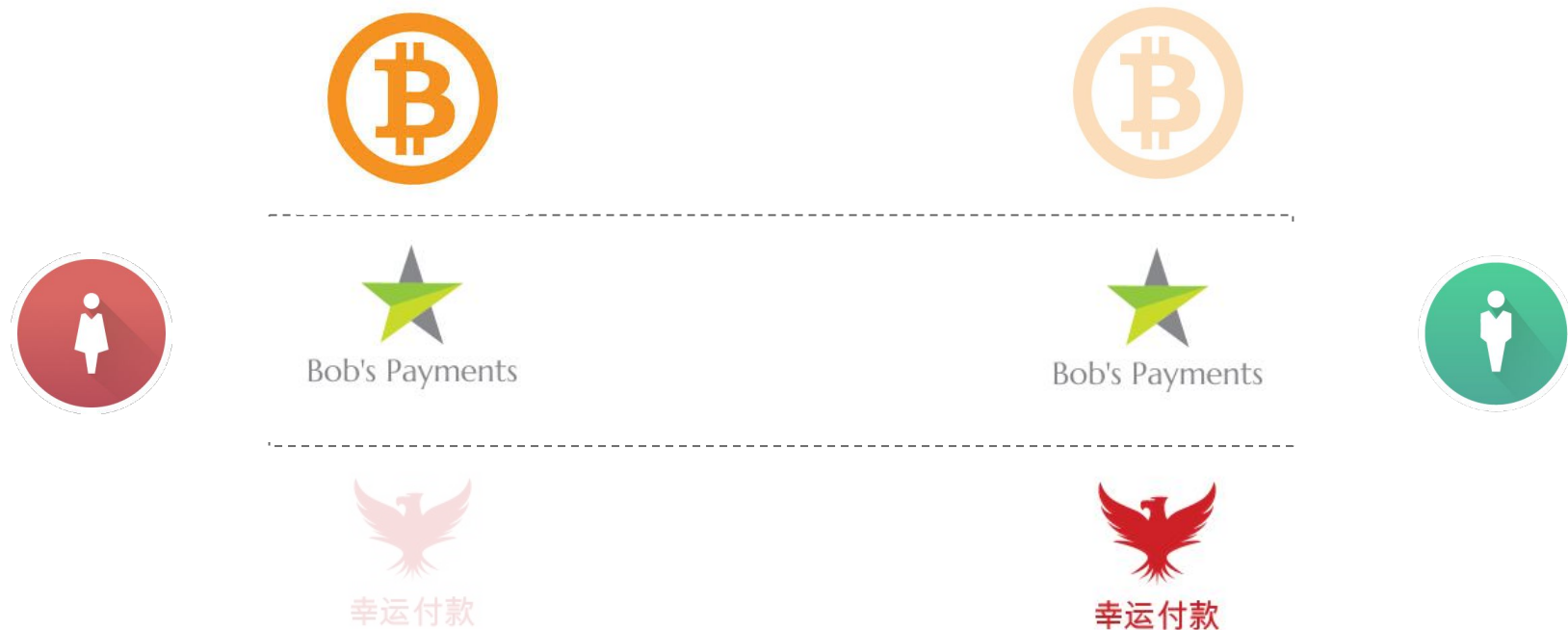


Interledger

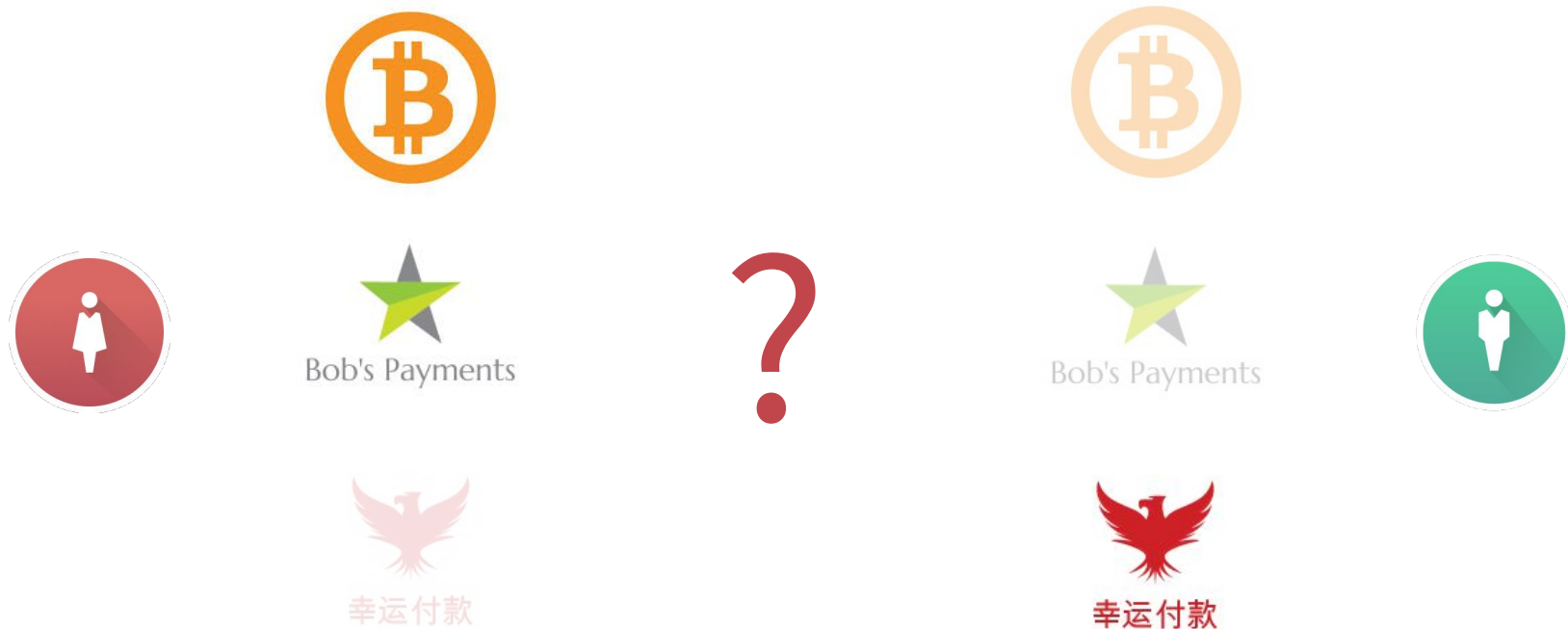
Universal Payments on the Web

Nov 2nd • Adrian Hope-Bailie • @ahopebailie

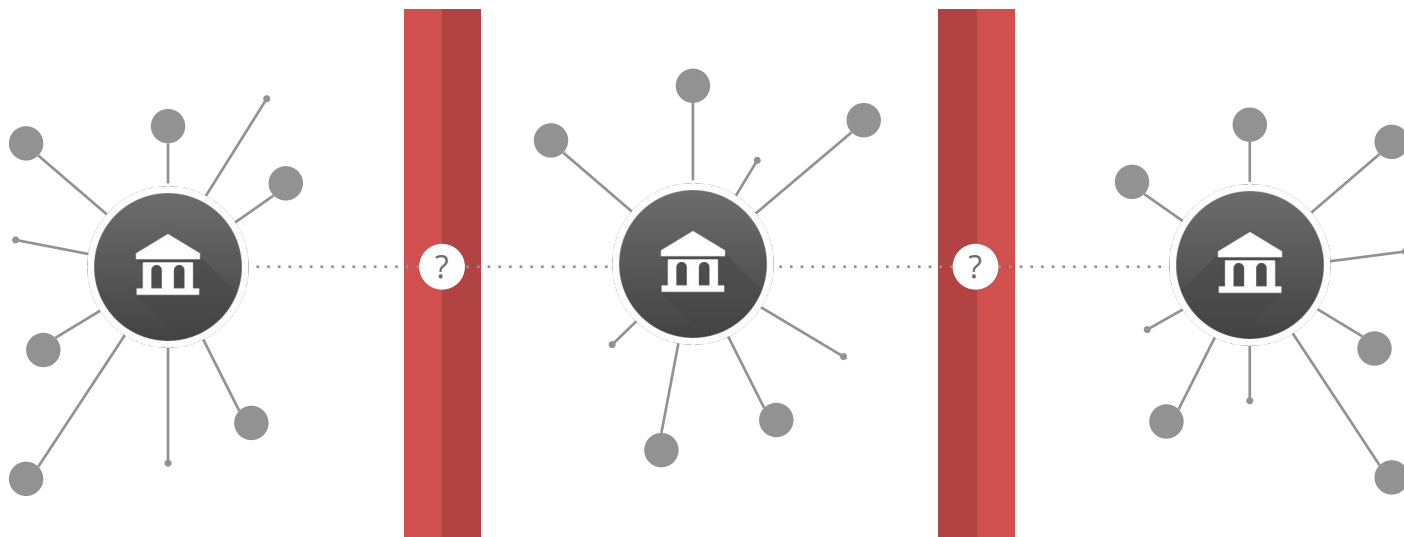
Web Payment APIs Identify Common Instrument



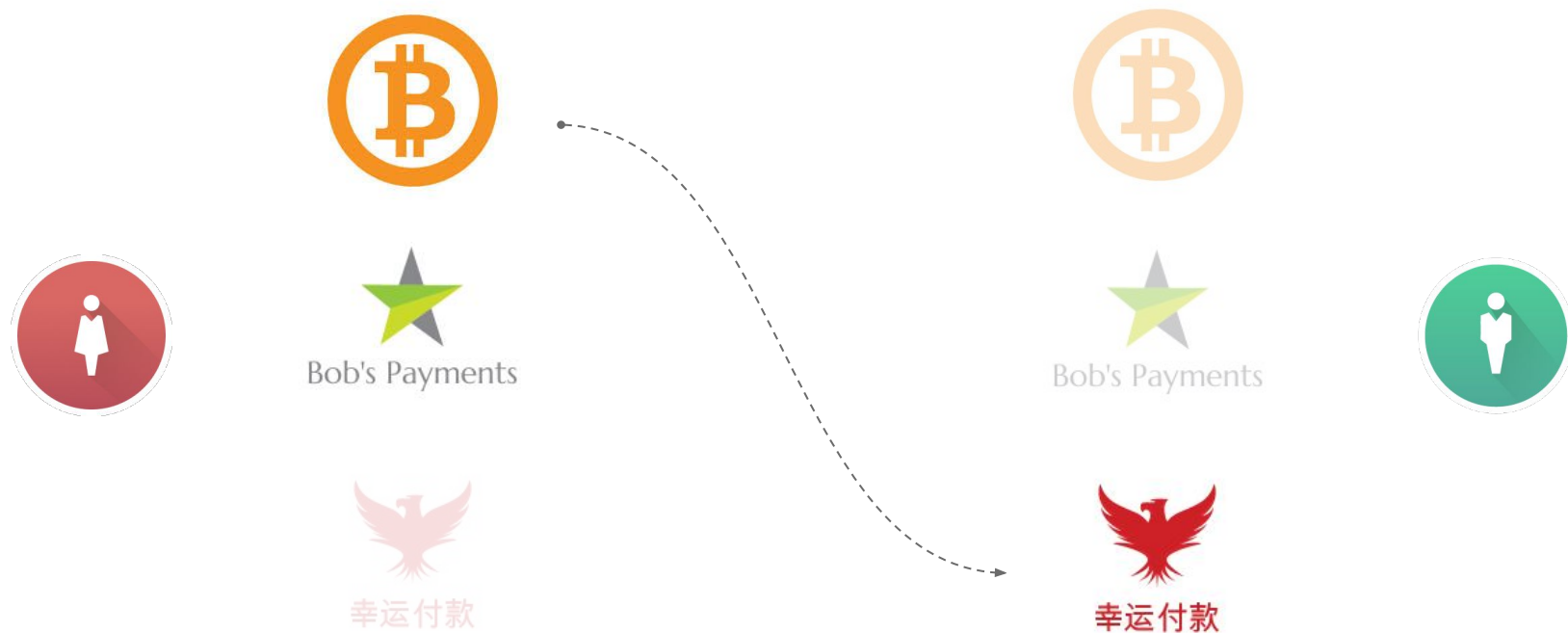
But What If There Is No Common Instrument?

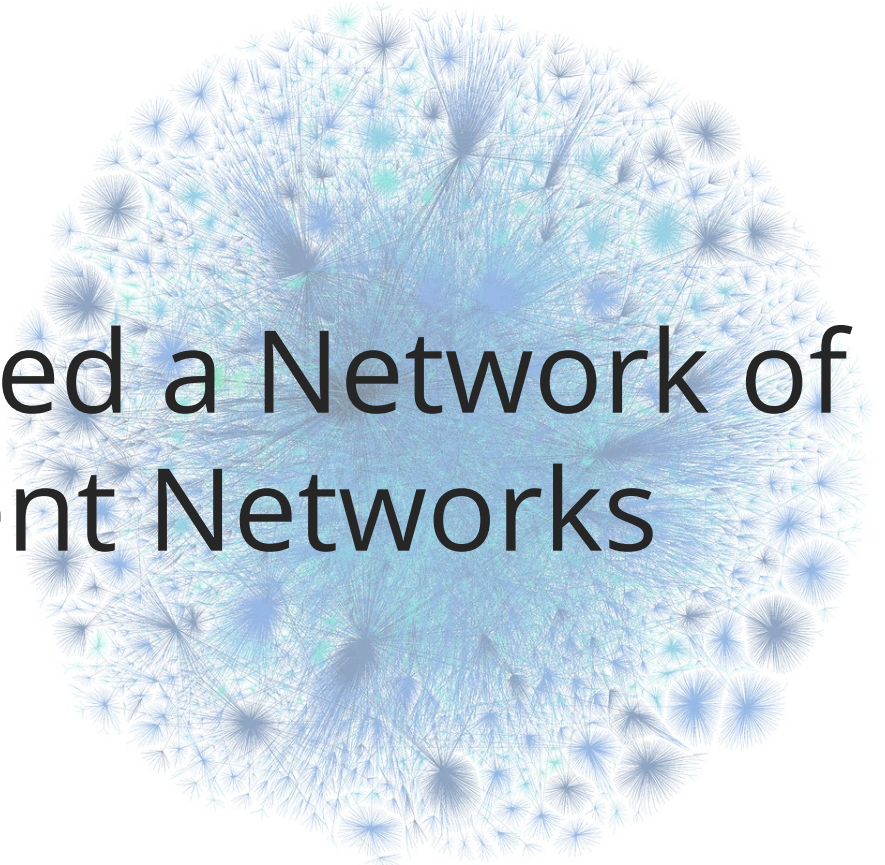


Payment Networks Are Disconnected



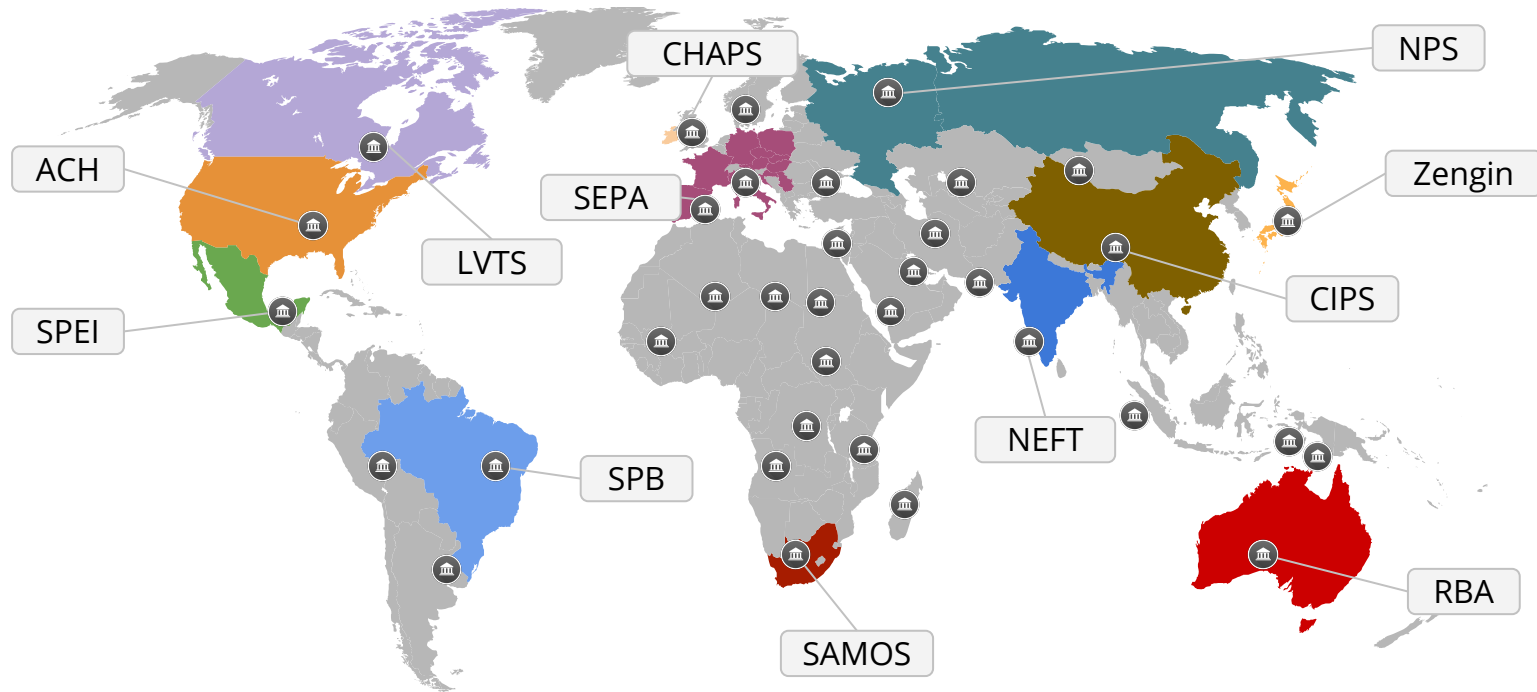
What If You Could Pay Across Networks?





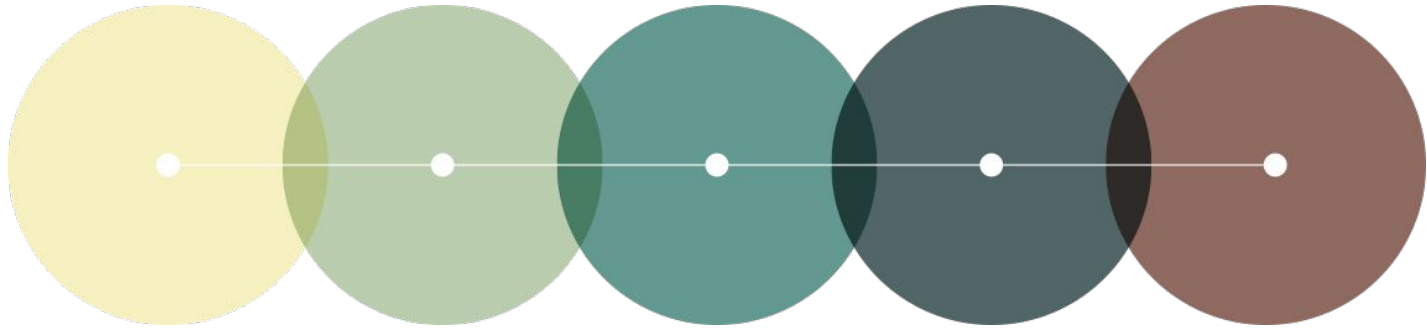
We Need a Network of Payment Networks

Correspondent Banking



Can We Do The Same?

Standards for **relaying** and **routing**



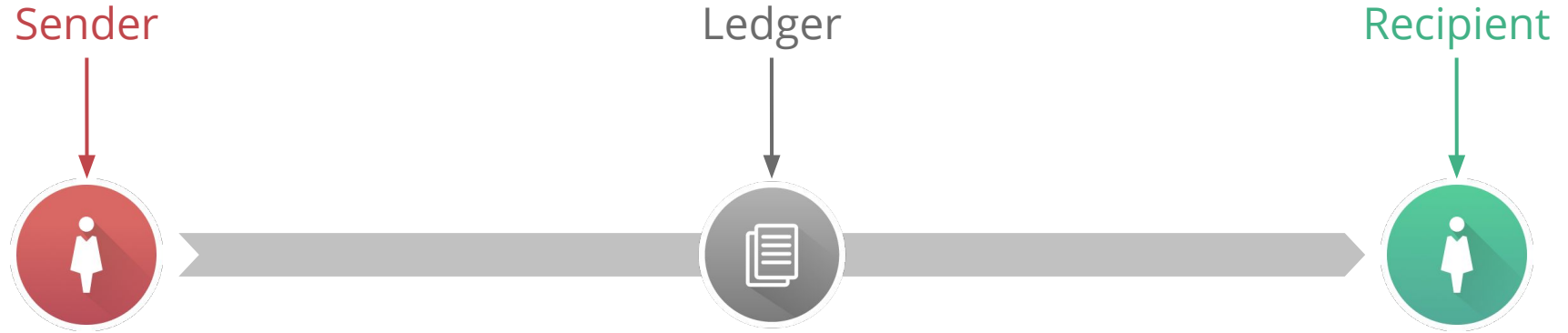
INTERLEDGER

Payments across payment networks

How does it work?

Ledgers Track Accounts and Balances

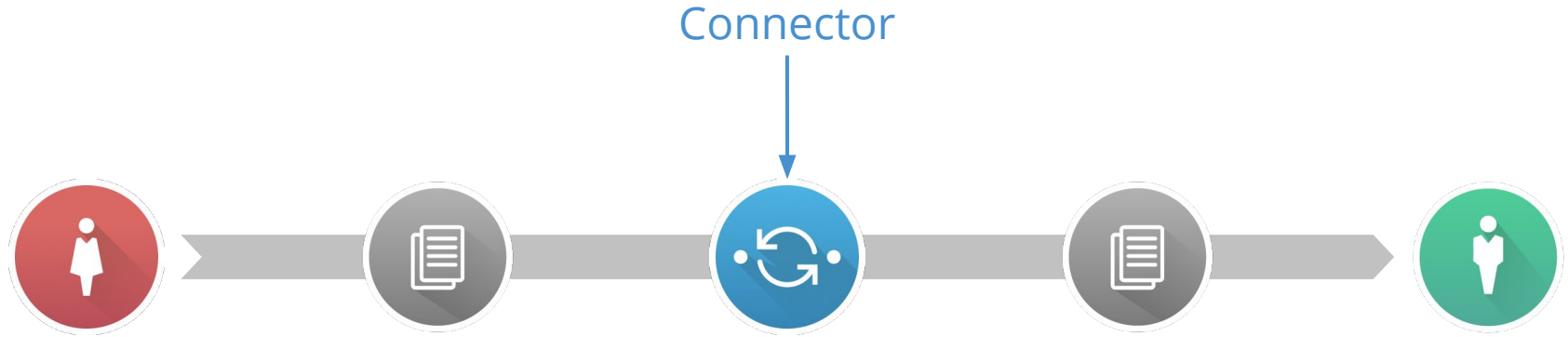
Banks, Cryptocurrencies, Telcos, Merchants Operate Ledgers



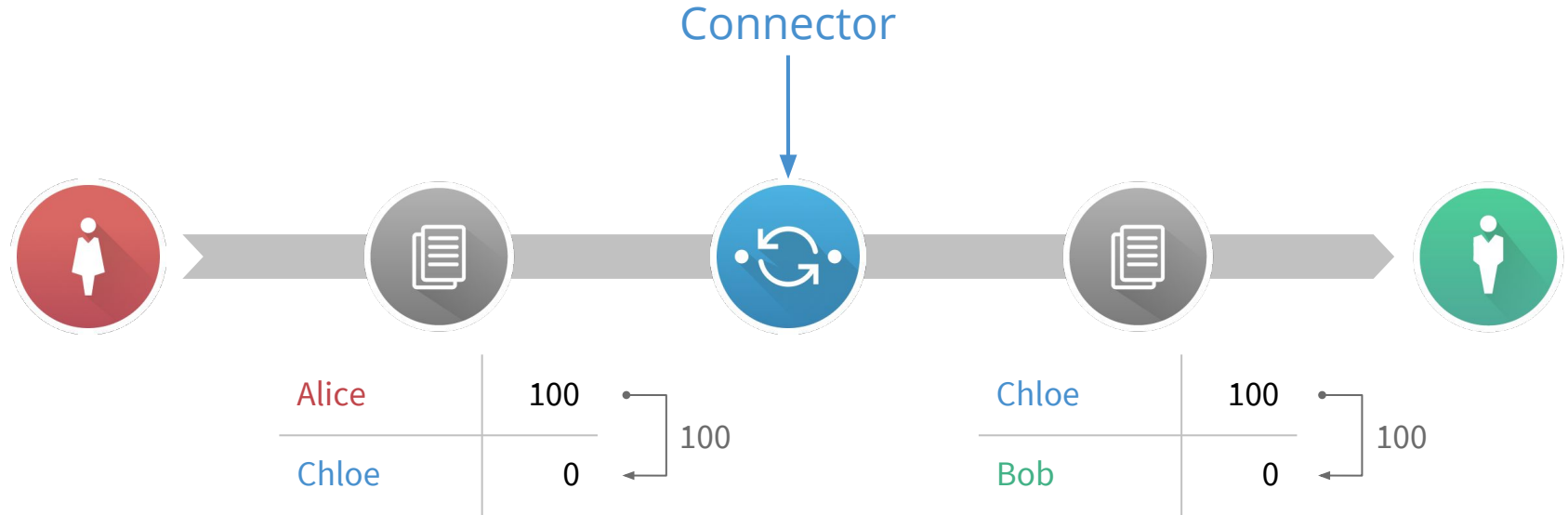
Not Everyone Is on the Same Ledger



Connectors Relay Money



Connectors Correlate Transfers on 2+ Ledgers

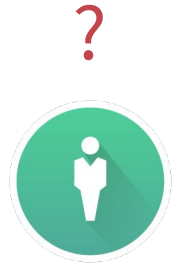


What if the
connector **drops** it?

Money Would Be Lost



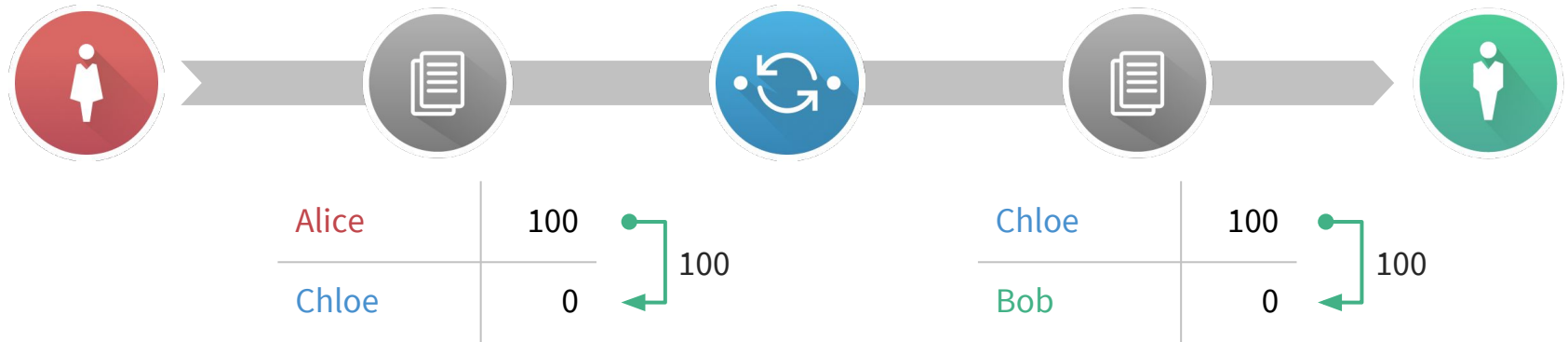
Alice	100	100
Chloe	0	



Chloe	100	X
Bob	0	

We need **Atomicity**

Either Both Transactions Execute...



...Or Neither of Them Do



Alice	100
Chloe	0



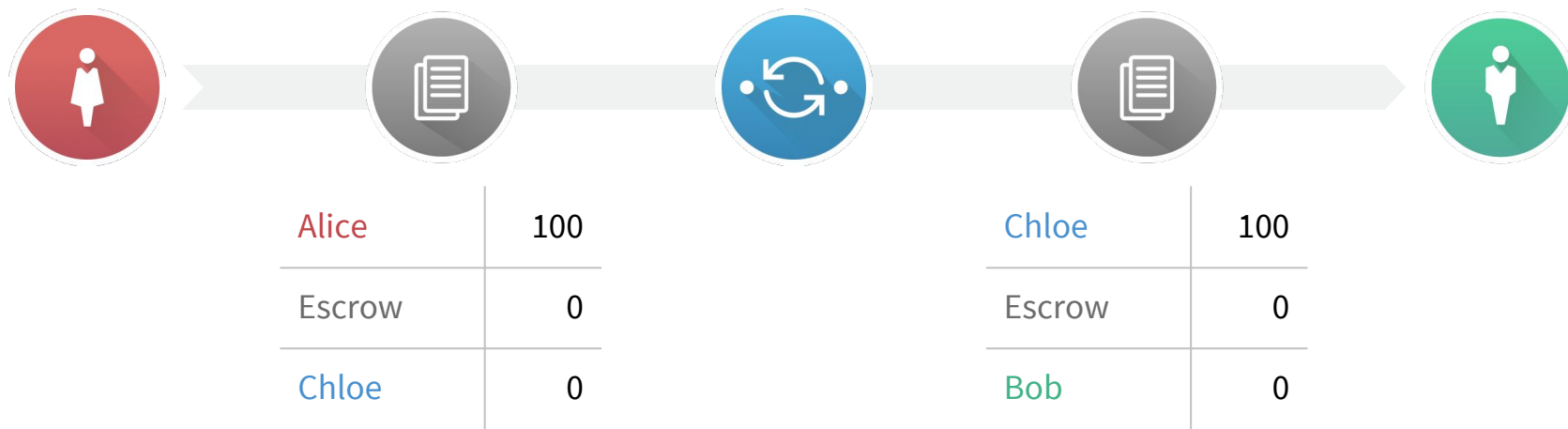
Chloe	100
Bob	0



We use **escrow** and strict **order of execution** to provide atomicity

Universal Payments

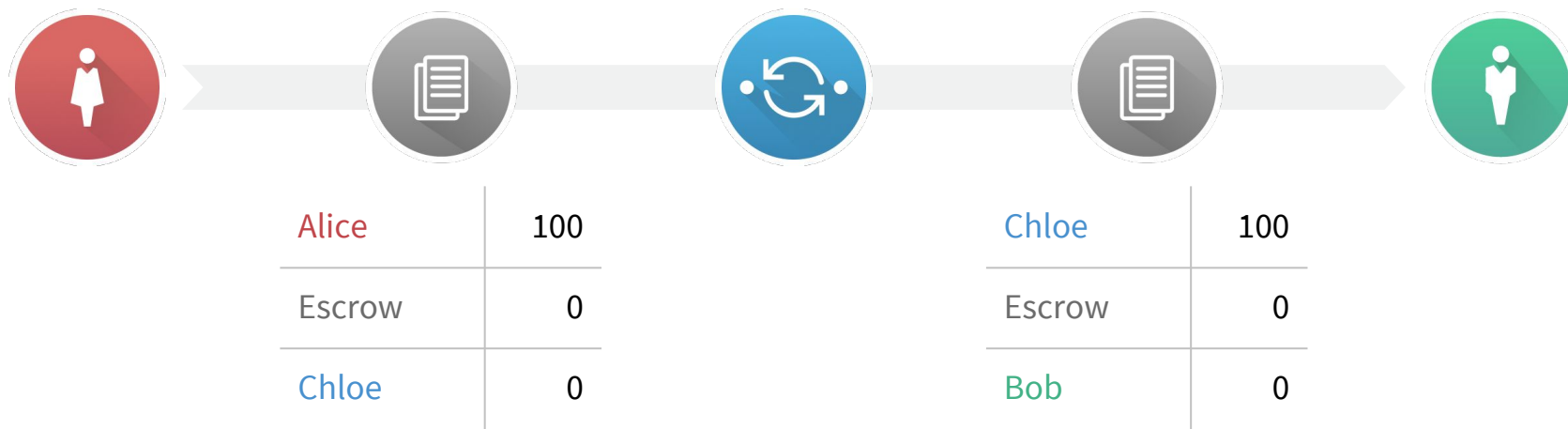
Ledger-Provided Escrow Protects Participants from Risk



In the **Preparation** Phase,
the sender and connectors
escrow funds

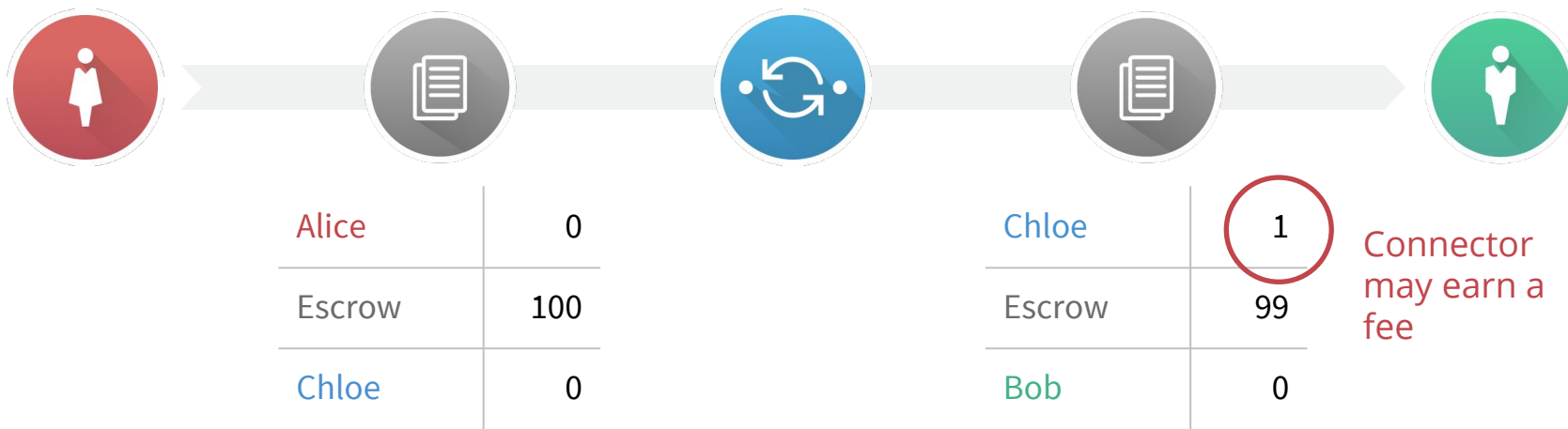
Universal Payments

Preparation Phase



Universal Payments

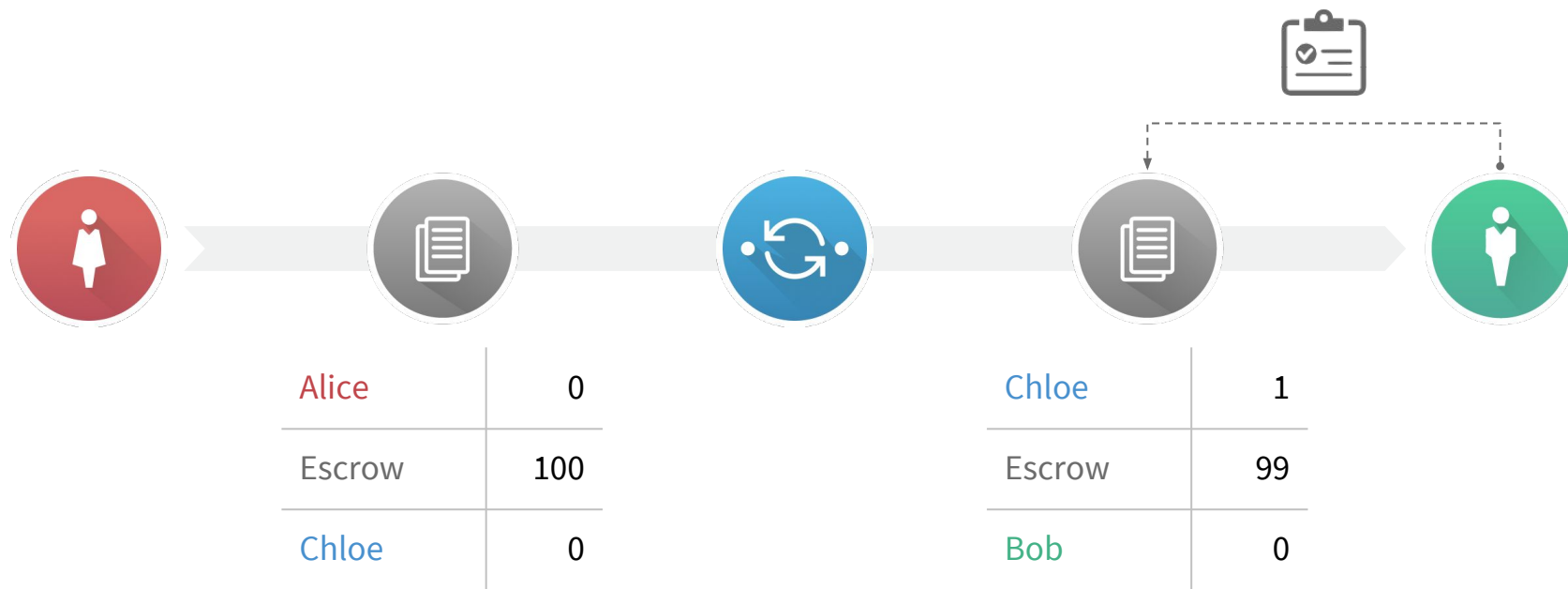
Funds Are Escrowed By Sender and Connectors



In the **Execution** Phase,
a receipt from the recipient
unlocks escrowed funds

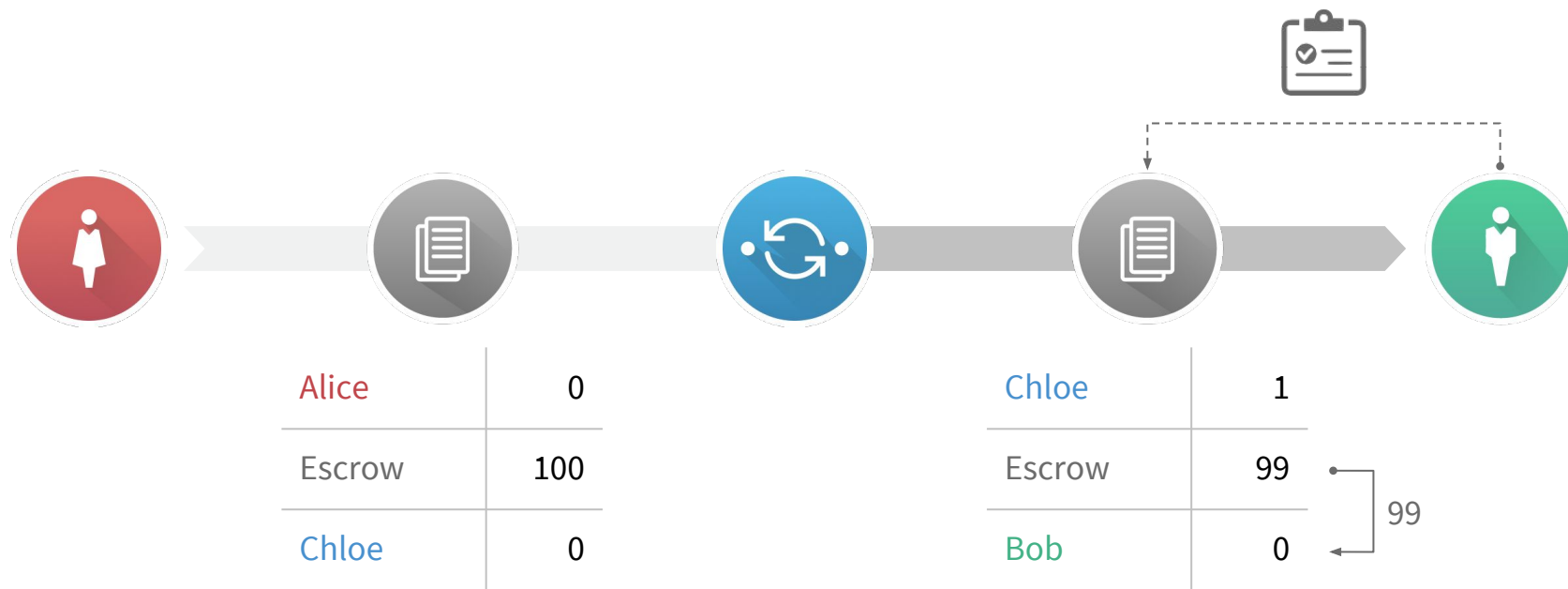
Universal Payments

Recipient Signs Receipt



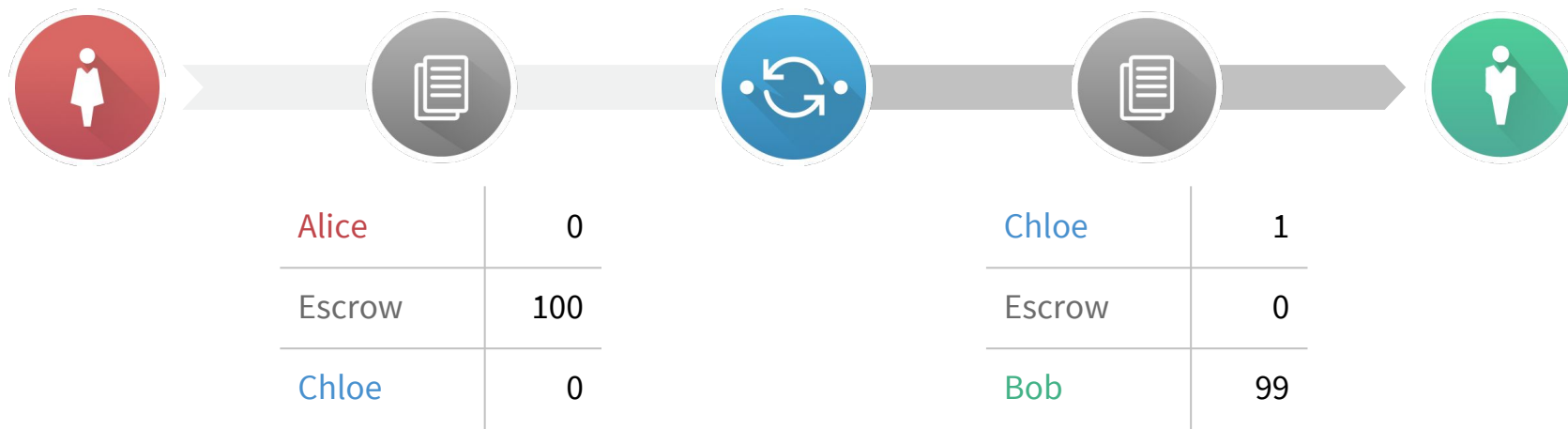
Universal Payments

Recipient Receives Money



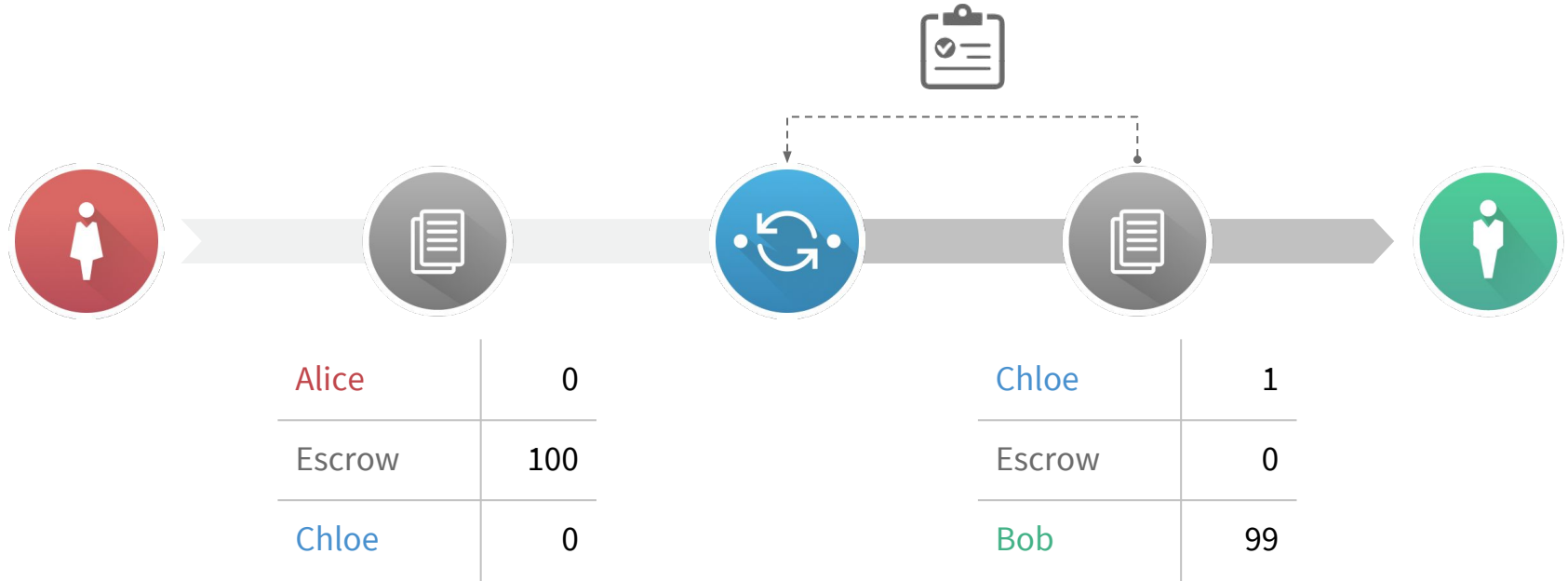
Universal Payments

How Does Connector Get Reimbursed?



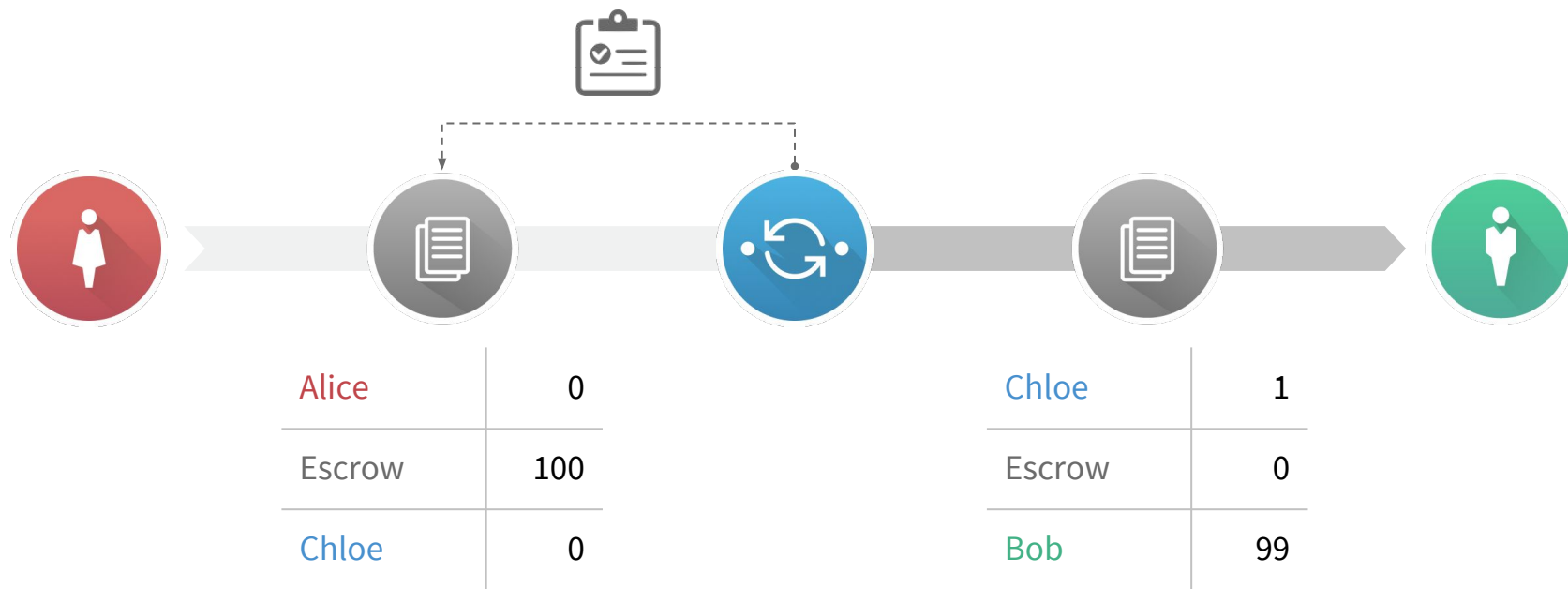
Universal Payments

Connector Gets Receipt



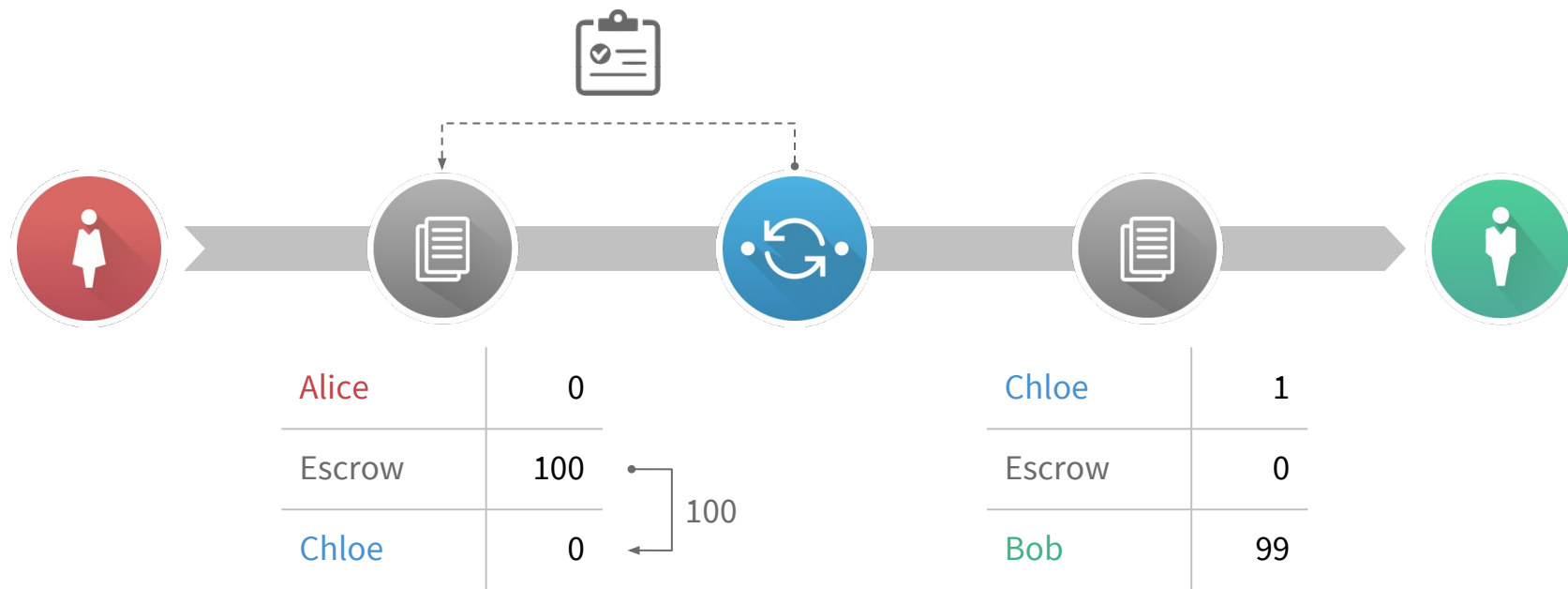
Universal Payments

Connector Passes the Receipt On



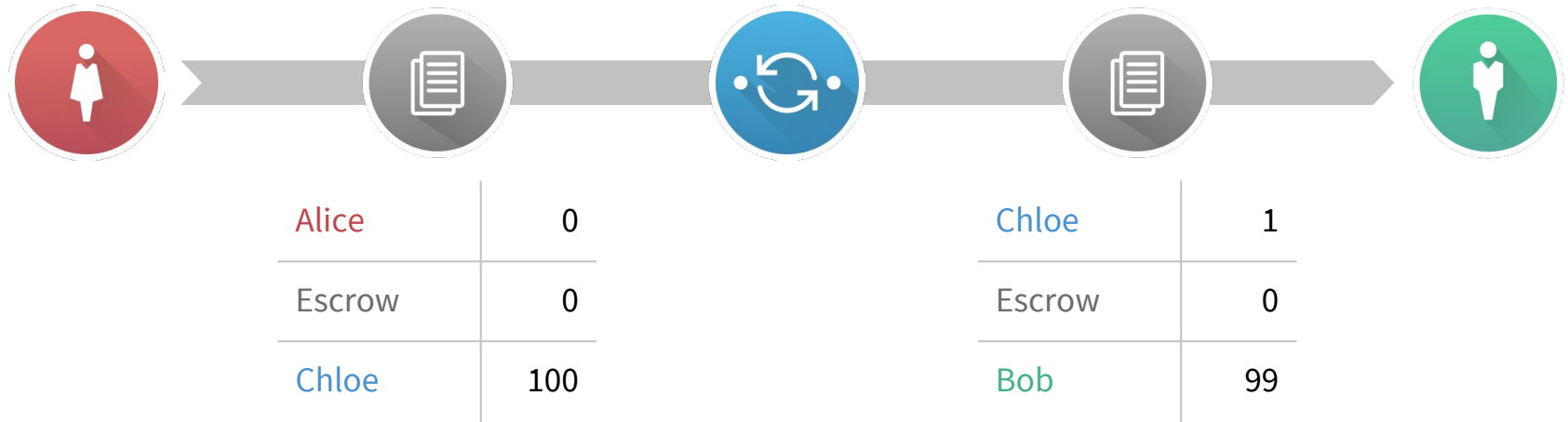
Universal Payments

Connector Gets Paid



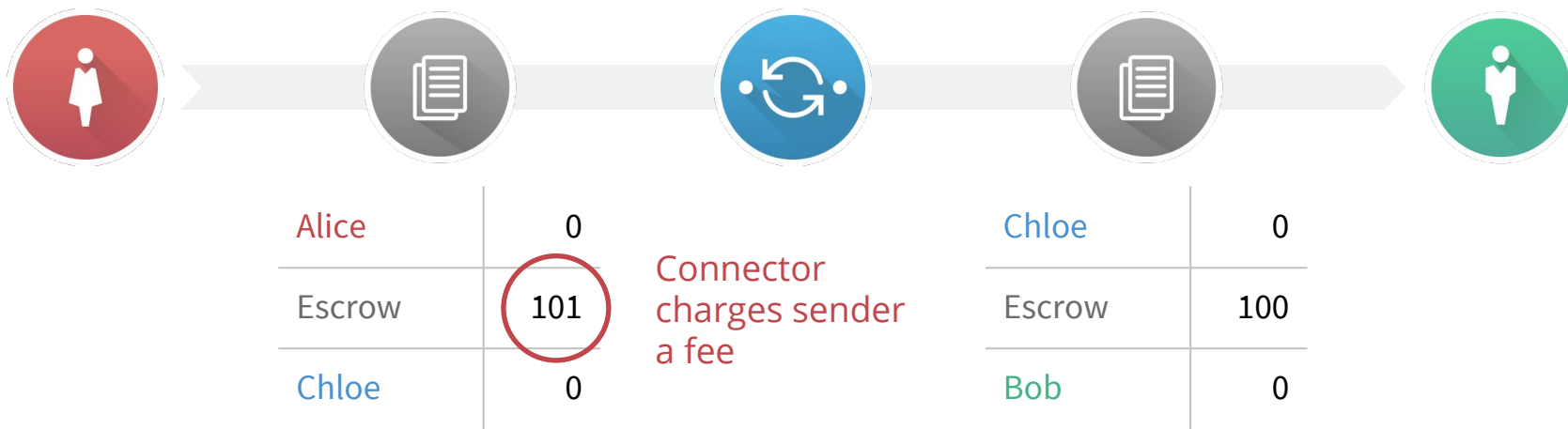
Universal Payments

Payment Is Complete



Universal Payments

Fees may be paid by sender or receiver



This Enables Money to be
Securely Relayed

Chained Payments

From Any Sender to Any Recipient

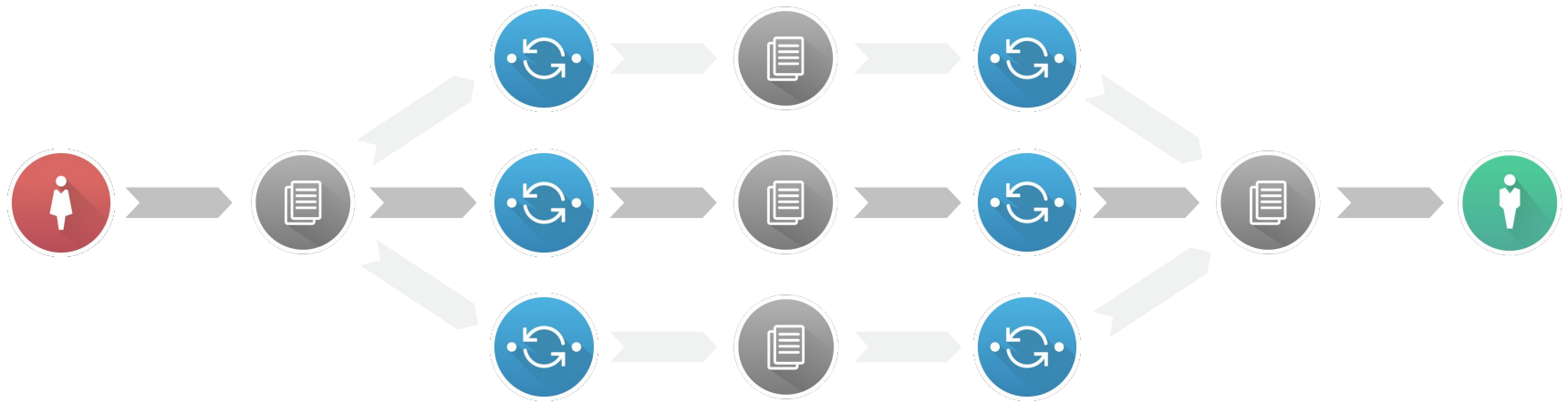


Risk-Free for Sender and Recipient



Limitlessly Scalable

Connectors and Ledgers Can Be Added to Handle More Payments



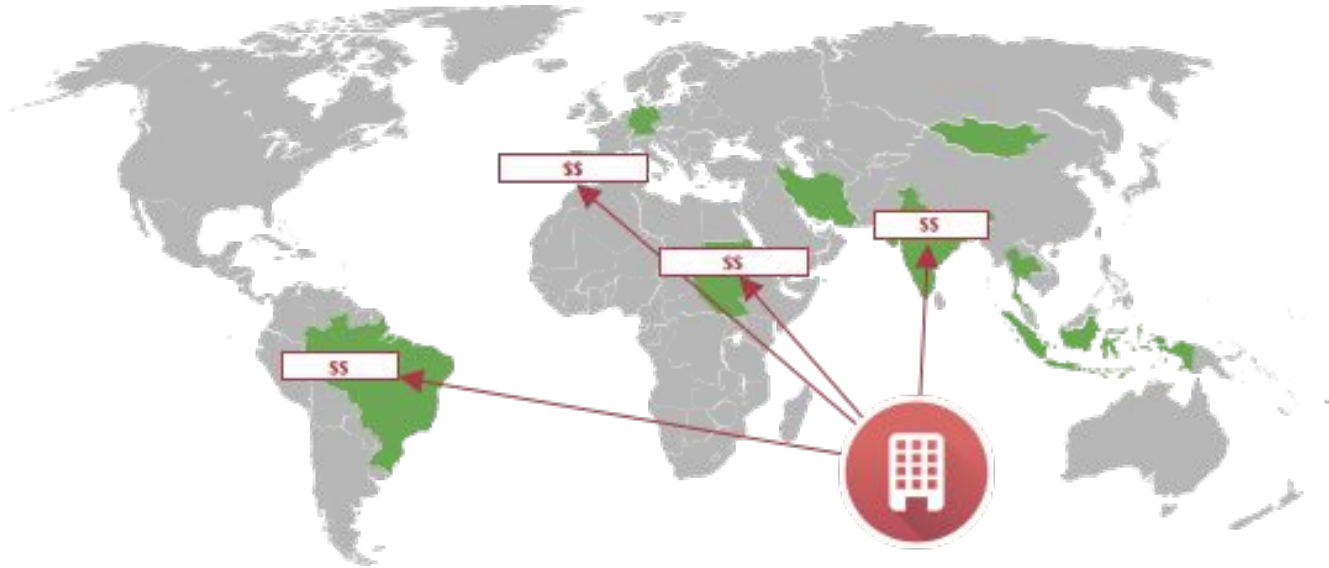
Connecting Disparate Systems

Minimal Standard to Link Banks, Cryptocurrencies, Telcos, etc



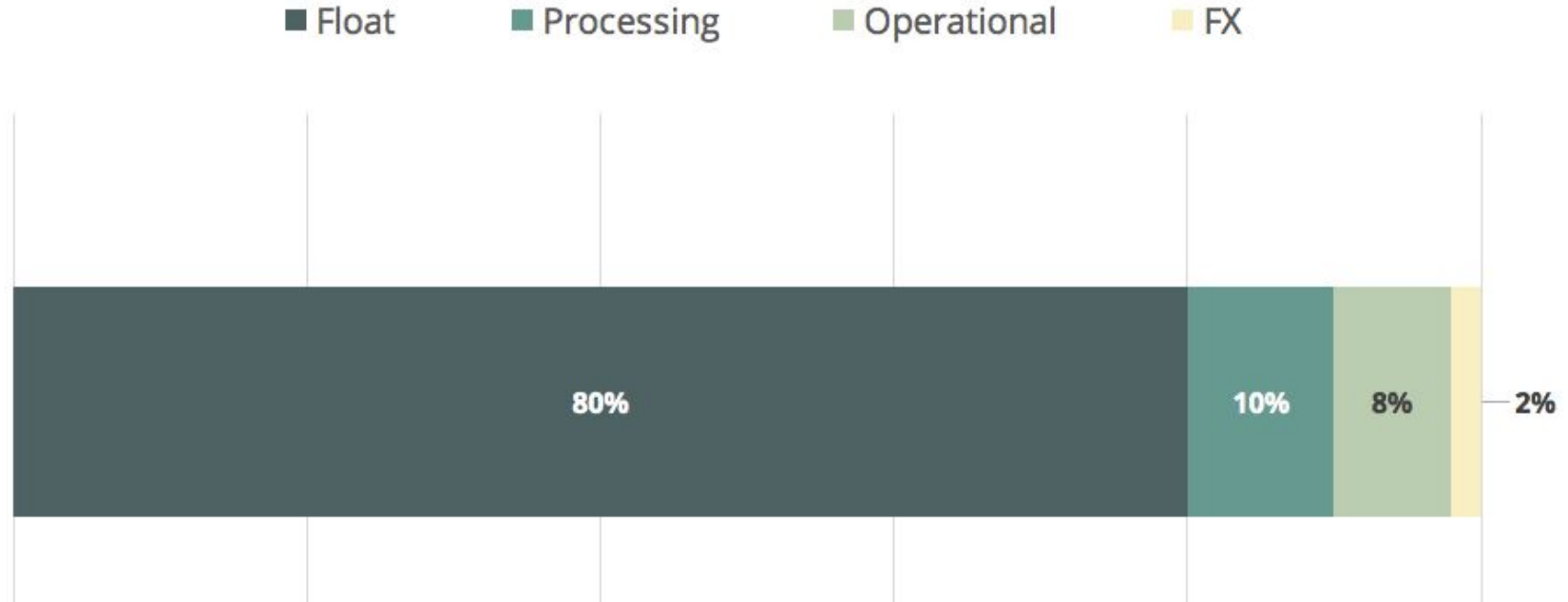
Corporations Tie Up Cash in Foreign Bank Accounts to Pay Vendors on Time

Cash outlaid or in transit is unavailable – an opportunity cost



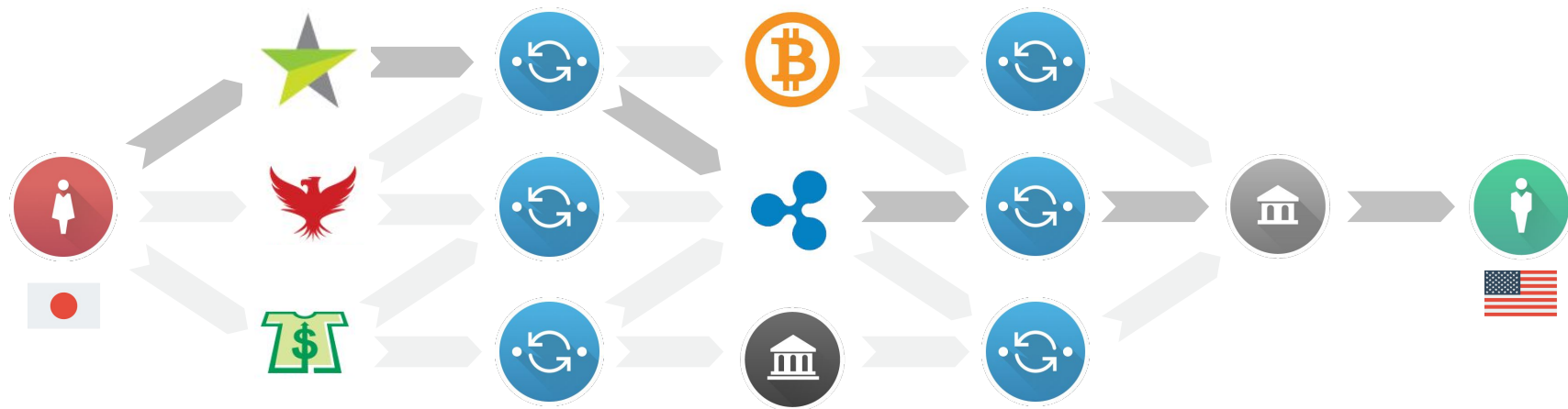
Float is the Bulk Cost of Corporate Payments

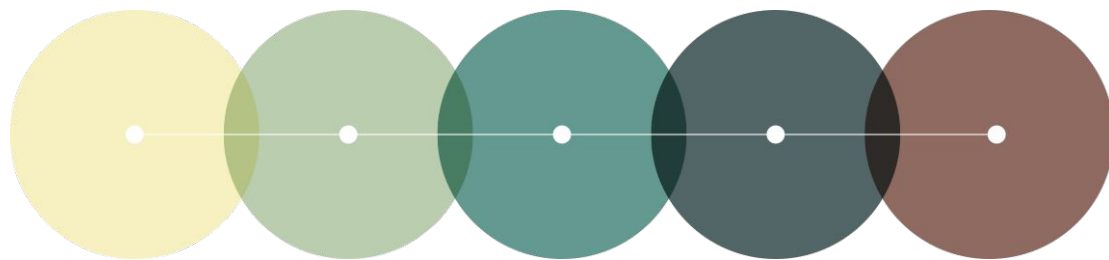
Most value to be gained by reducing float requirements



Global Cash Marketplace

Unlocking liquidity from multiple sources to lower capital costs





Join the Interledger Community Group

Interledger.org

Open Source Reference Implementation:

<https://github.com/interledger>