ripple

Blockchain & The Future of Real-Time Payments





Agenda

- 1. Payments Today
- 2. Intro to Blockchain & DLT
- 3. Leveraging DLT for Payments
- 4. Sample Use Cases
- 5. Impact of Payment Friction
- 6. Digital Assets and IoV
- 7. Q&A



Today's Inefficient Payments Networks



DISPARATE

Different tech, systems of record, messaging and rules

SLOW

1-3+ days to settle across numerous intermediaries

OPAQUE

Poor data flow inhibits information transparency

EXPENSIVE

High processing costs limit addressable market and servicing



Domestic Payments are Settled Through a CCP ACH, FPS, CHAPS, etc.



There is no Universally Accepted CCP for Int'l Payments

This makes international payments difficult



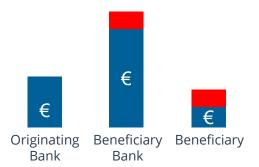


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This makes international payments difficult









Beneficiary



Originator

Sample Cross-Border Payment Today

Limited Visibility and Uncertainty Result in Poor Client Experience

Payment instructions

Originator

Originator's bank

Correspondent bank

Beneficiary's bank

Beneficiary's bank

No/Limited Fee Disclosure

Payment notification / Statement Reporting

Beneficiary

Limited Payment Details



What Is a Blockchain?





All Blockchain Use Cases Stem From Payments



PAYMENTS

What Banks Do Not Like About Blockchain

- Scalability (blockchain has a global transaction limitations)
- Transaction Privacy (public/shared ledger)
- Interoperability (blockchain requires everyone to use a single ledger)
- Usage of Digital Assets for Transactions

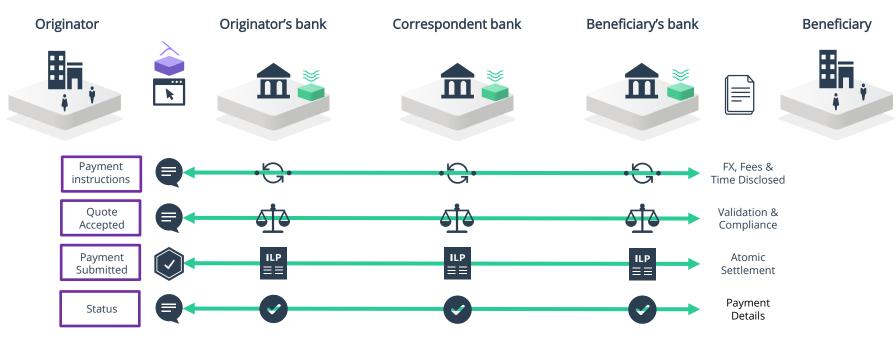


Interledger Protocol Addresses



Leveraging DLT for Cross-Border Payments

Enabling Real-time Settlement with Bi-Directional Messaging



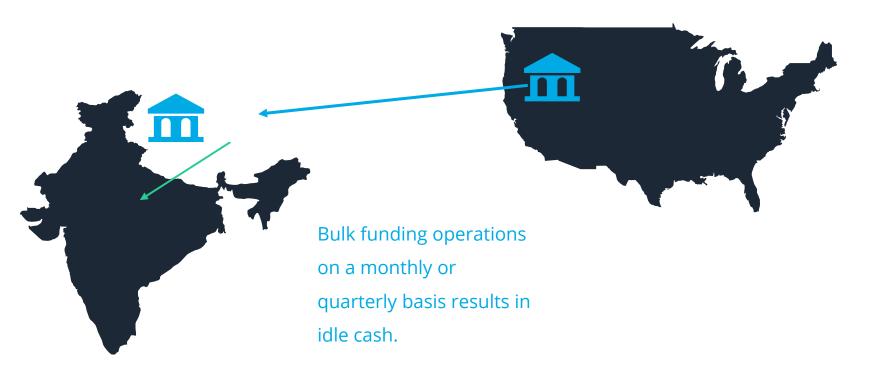




Sample Use Cases

Use Case 1: Spot Funding Operations

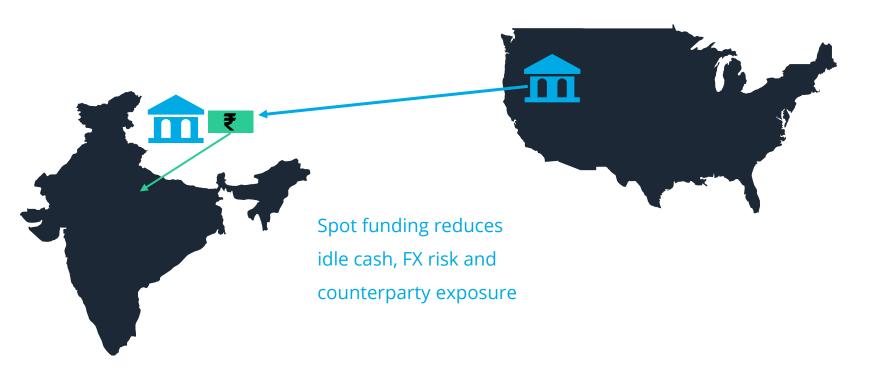
Traditional "Bulk" Funding Process





Use Case 1: Spot Funding Operations

Real-Time, Cross-Border Payments Enables a Shift to Spot Funding







"Ripple's solution allows our customers to send real-time transfers between their SEB accounts in Sweden and New York. We plan to expand the solution to all geographies and time zones in which we operate."

Paula da Silva, Head of Transaction Services at SEB

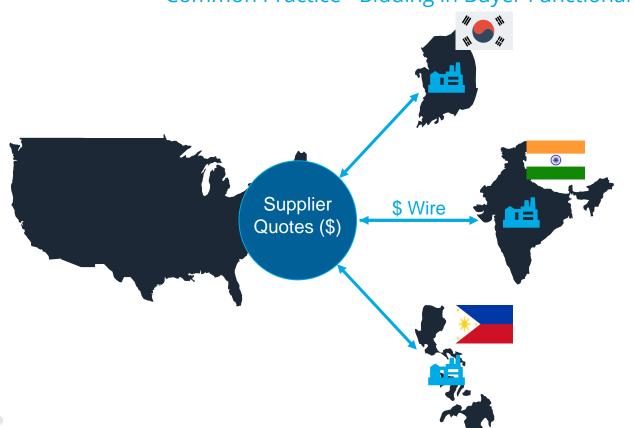
Sweden | United States Corporate Payments

SEB, a Scandinavian bank, has pursued a corporate payments use case with Ripple on behalf of one of its corporate customers from Sweden to the US. As of Q12018, SEB has processed over \$1B in volume over Ripple. With Ripple, SEB has been able to reduce the time to settle from hours to seconds.



Use Case 2: Vendor Payments

Common Practice - Bidding in Buyer Functional Currency

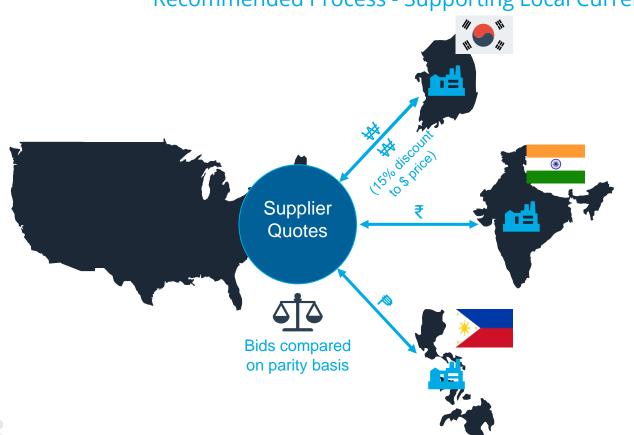


Many corporates will require international vendors to bid only in their functional currency, pushing FX costs to suppliers.



Use Case 2: Vendor Payments

Recommended Process - Supporting Local Currency Pricing



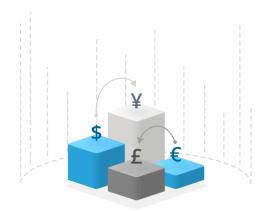
Supporting bidding in multiple currencies can result in lower supplier costs.



AMEX | Ripple

AMEX is building their **SME and corporate customers' supplier payments** on RippleNet, creating a global network or clearing partners around the globe.

This SME-tailored service is targeted to **improve** servicing and drive customer acquisition. By using Ripple, AMEX speeds the time to market, lowers their cost and delivers a better customer experience.





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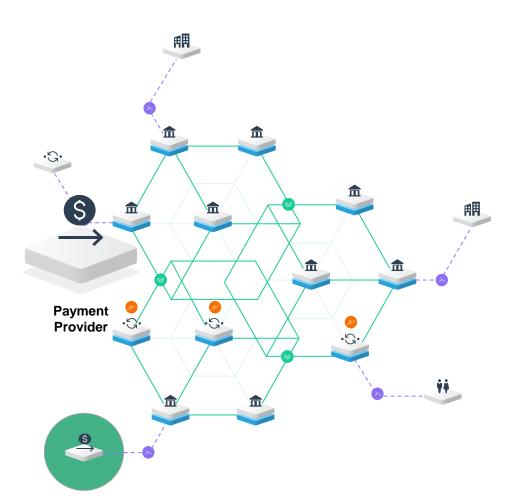




Standard APIs

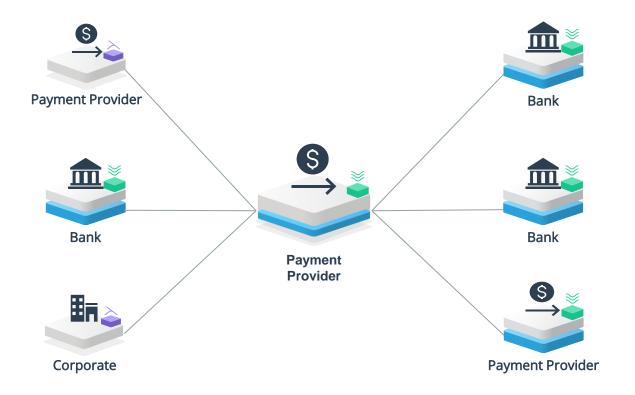
Many customers join RippleNet to create **new payment corridors** that help them improve their customer experience by reducing the cost, or improving on the customer experience.

This is done with the goal of driving new revenue.





Creating a Connectivity Standard







Operational Impact of Cross-Border Payment Friction



Reconciliation



Idle Cash



Supplier Terms



Shipping Delays



Payments Fraud



Red Tape



Forecasting



Excess Fees

Digital Assets and The IoV

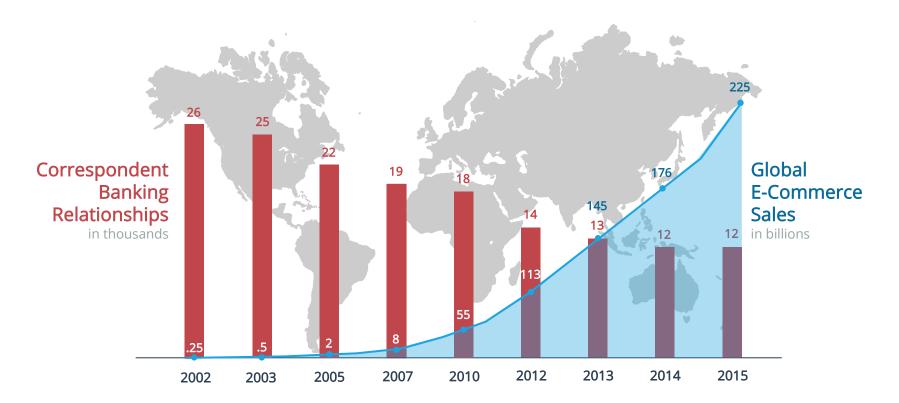


OUR VISION

The Internet of Value:

Enable the world to move money like information moves today.

Global Payment Demand on the Rise as Global Banking Reach Decreases





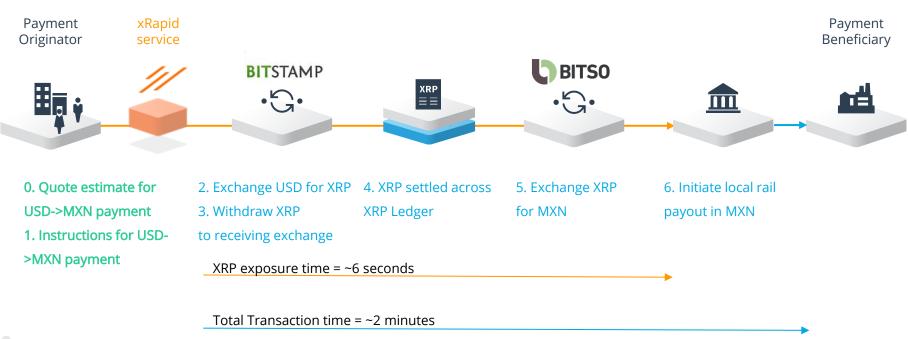


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Digital assets eliminate the need for nostro accounts or pre-funding foreign accounts



Sample Digital Asset Payment Using XRP





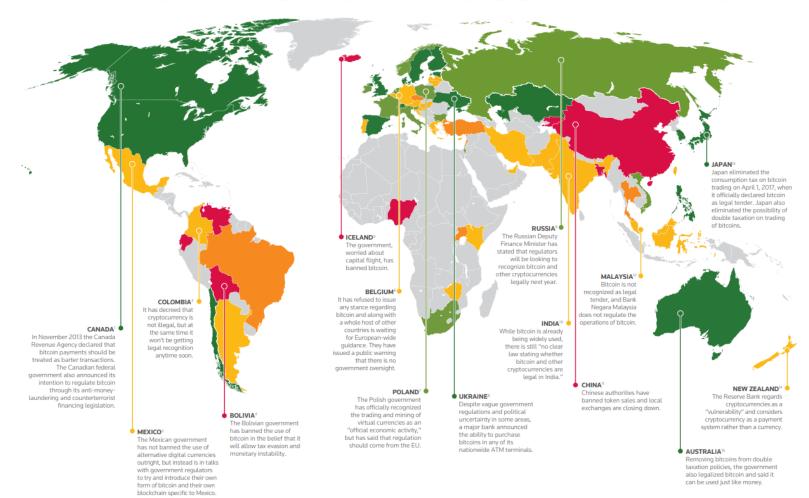
Digital Asset Super Highway

The Current State and Path to Broader Adoption





A WORLD OF CRYPTOCURRENCIES





Q&A

