

A person's hand is shown holding a white credit card, which is being inserted into a black handheld payment terminal. The terminal has a small screen and a numeric keypad. The background is a blurred image of a person in a light-colored shirt, overlaid with a semi-transparent blue filter. The overall scene is set against a dark blue background with geometric shapes in the top right corner.

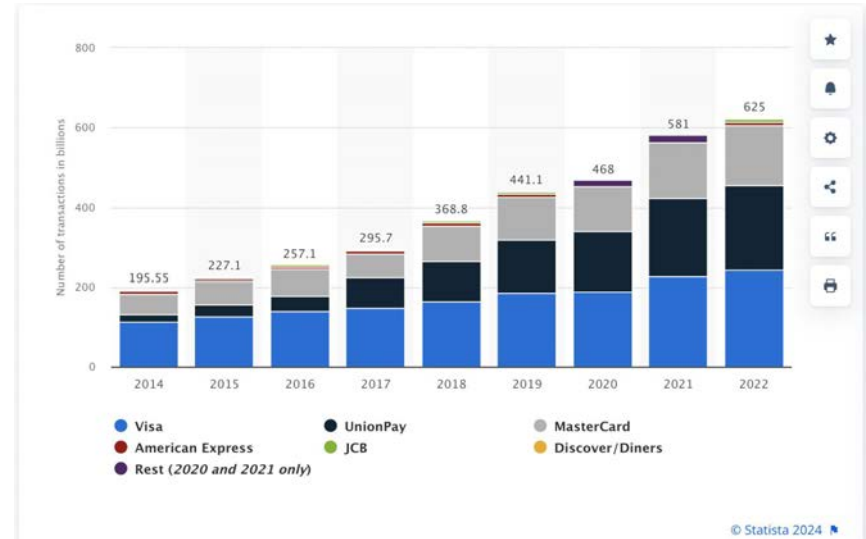
# Demystifying the Card Payments Lifecycle

# About me

- ★ Michael A Johnson
- ★ 10+ years experience
- ★ Meta, Adyen, Wise (Formerly TransferWise)

# Some Stats

- 600 billion transaction volume
- \$4.2 trillion in spending
- \$30 billion in fraud loss

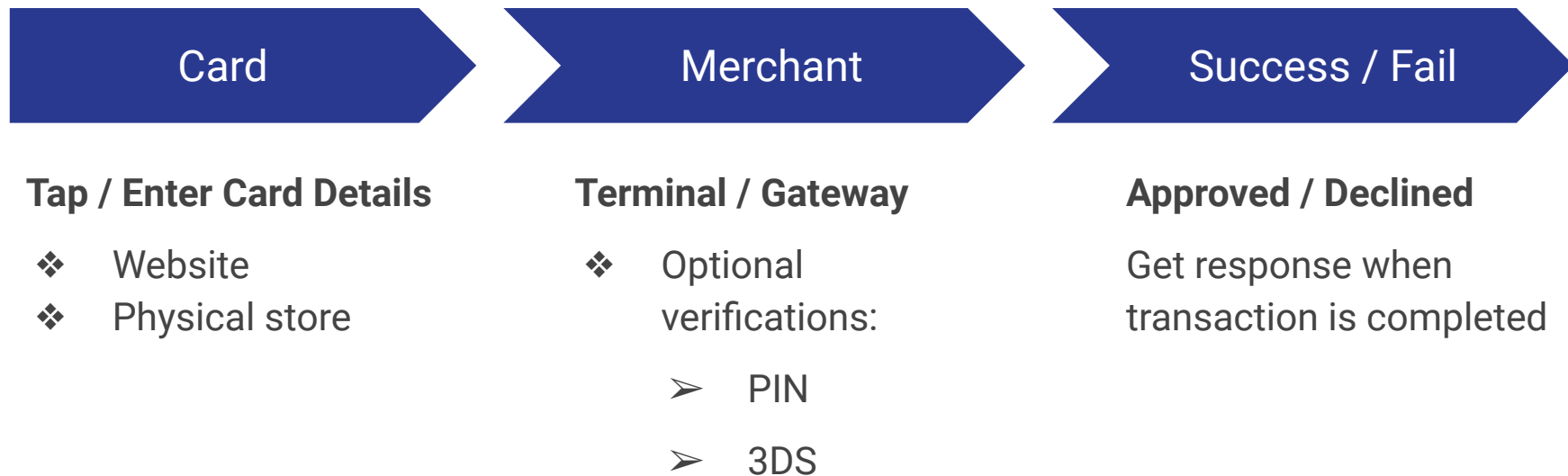


# The Main Components / Parties

- Payment Card (Physical / Virtual)
- Card holder / Consumer
- Issuer / Issuing Bank
- Card Scheme / Network
- Merchant
- Acquirer / Acquiring Bank
- Payment Gateway / Processor



# What Customers See



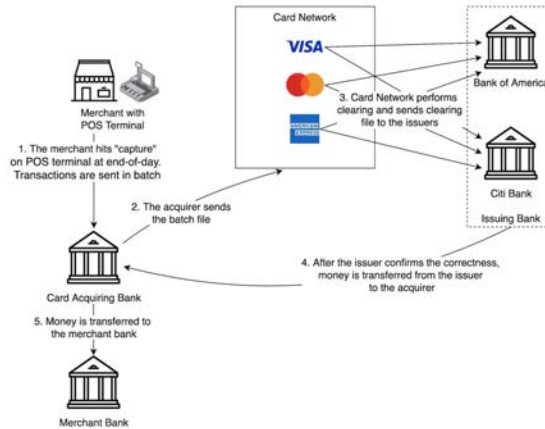
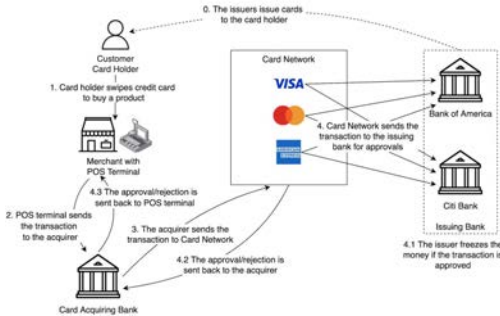
# What Really Happens

Authorization

Capture

Settlement

Reconciliation



Reconcile Payins and Payouts.

- ❑ Authorized trx
- ❑ Reversals
- ❑ Chargebacks
- ❑ Fees
- ❑ Multi-currency transactions

# Where does ML Come In?

- ❖ Fraud Detection and Prevention (\$30B per year)
- ❖ Identifying transaction data discrepancies
- ❖ Predictive analysis to forecast settlement volumes
- ❖ Customer Experience
  - Personalized authentication experience
  - Customized rewards and promotions
  - Credit scoring and risk management

# Challenges and Considerations

- ❖ Data privacy and security
- ❖ Bias and fairness
- ❖ Regulatory compliance



# Future Trend?



Thank you  
for listening

