



Payments Modernization: Innovations in Payment Systems

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Payments Modernization: Innovations in Payment Systems discussed in this presentation is the current version with effective date of *August 12th, 2025*.

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Agenda



Key Trends

Impact

Benefits

Challenges

Questions

Thank you!



Driving Payments Modernization

Key Trends

Instant Payments

- Payment Rails (United States)
 - Real Time Payments – The Clearing House
 - FedNow – Federal Reserve
- ISO 20022 Standardization
 - Rich Data Quality
 - Increased Efficiency
 - Interoperability
- Global Instant Payment Systems

Instant Payment Global Trends

Global Real-Time Payment Transactions

195.0B ²⁰²² transactions
YoY growth of **63.2%**

Global Forecast 2027

511.7B ²⁰²⁷
CAGR of **21.3%** between 2022 and 2027

By 2027, Real-Time Payments Will Account for **27.8%** of all **electronic payments globally**



Top Five Real-Time Payment Markets Globally

India

89.5B ²⁰²²
Real-Time Payment Transactions
76.8% ²⁰²¹⁻²⁰²²
YoY growth



Brazil

29.2B ²⁰²²
Real-Time Payment Transactions
228.9% ²⁰²¹⁻²⁰²²
YoY growth



China

17.6B ²⁰²²
Real-Time Payment Transactions
0.9% ²⁰²¹⁻²⁰²²
YoY growth




Thailand

16.5B ²⁰²²
Real-Time Payment Transactions
63.4% ²⁰²¹⁻²⁰²²
YoY growth



South Korea

8.0B ²⁰²²
Real-Time Payment Transactions
9.6% ²⁰²¹⁻²⁰²²
YoY growth



Global Real Time Payments Stats ACI Worldwide





Driving Payments Modernization

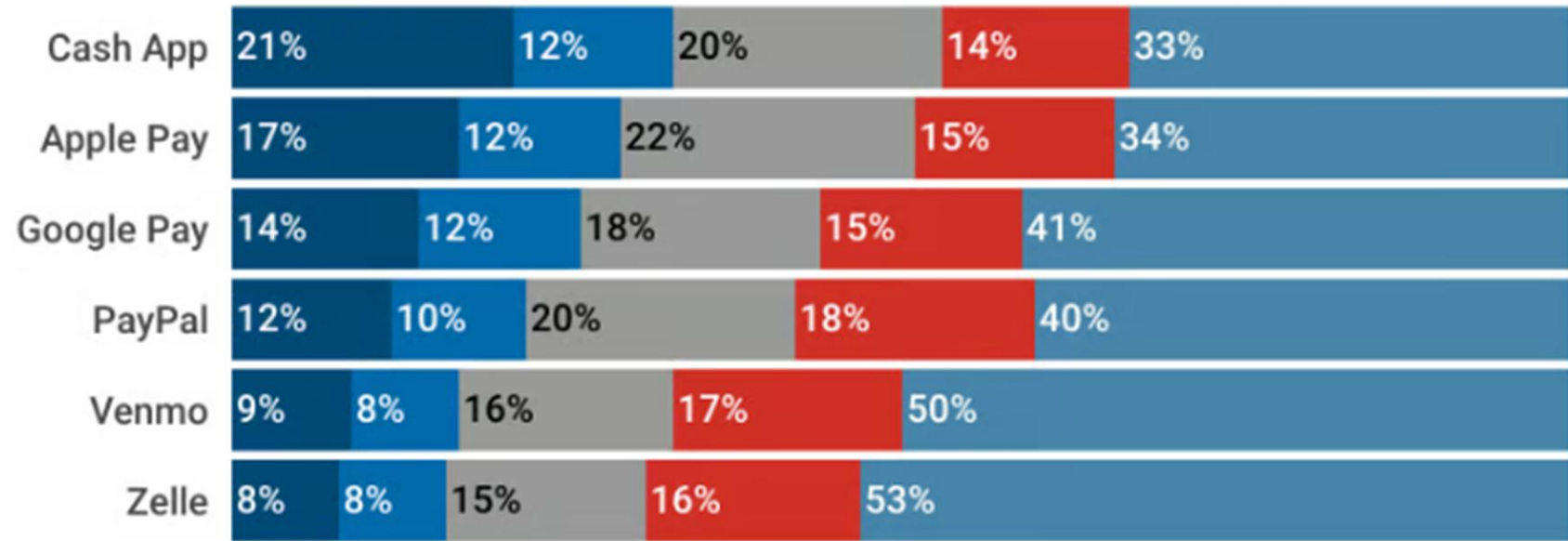
Key Trends

Digital Wallets and Contactless Payments

- Wallets
 - Apple
 - Google
 - Samsung
- Overlay Services
 - Venmo
 - Cash App
 - PayPal
- Contactless
 - Tap to Pay
 - Smartwatches
 - In app Payments
 - QR Codes

Digital Wallet & Contactless Payment Trends

Frequency of Use Among Digital Wallet Users



- Several times a day
- About once a day
- A few times a week
- About once a week
- About once a month or less

Source: Morning Consult



Driving Payments Modernization

Key Trends

Central Bank Digital Currencies (CBDC) and Stablecoins

- CBDC
 - Digital form of a country's fiat currency
 - Issued and controlled by nation's central bank
 - Driven by public policy objectives
- Stablecoin
 - Cryptocurrencies designed to maintain a stable value by being backed by fiat currency, commodities, or relying on algorithms
 - Issued by private entities
 - Driven by market demand for payment efficiency



Driving Payments Modernization

Key Trends

Open Banking and APIs

- Secure Data Sharing
- Integration via APIs
- Future of Open Banking



What does an API look like?

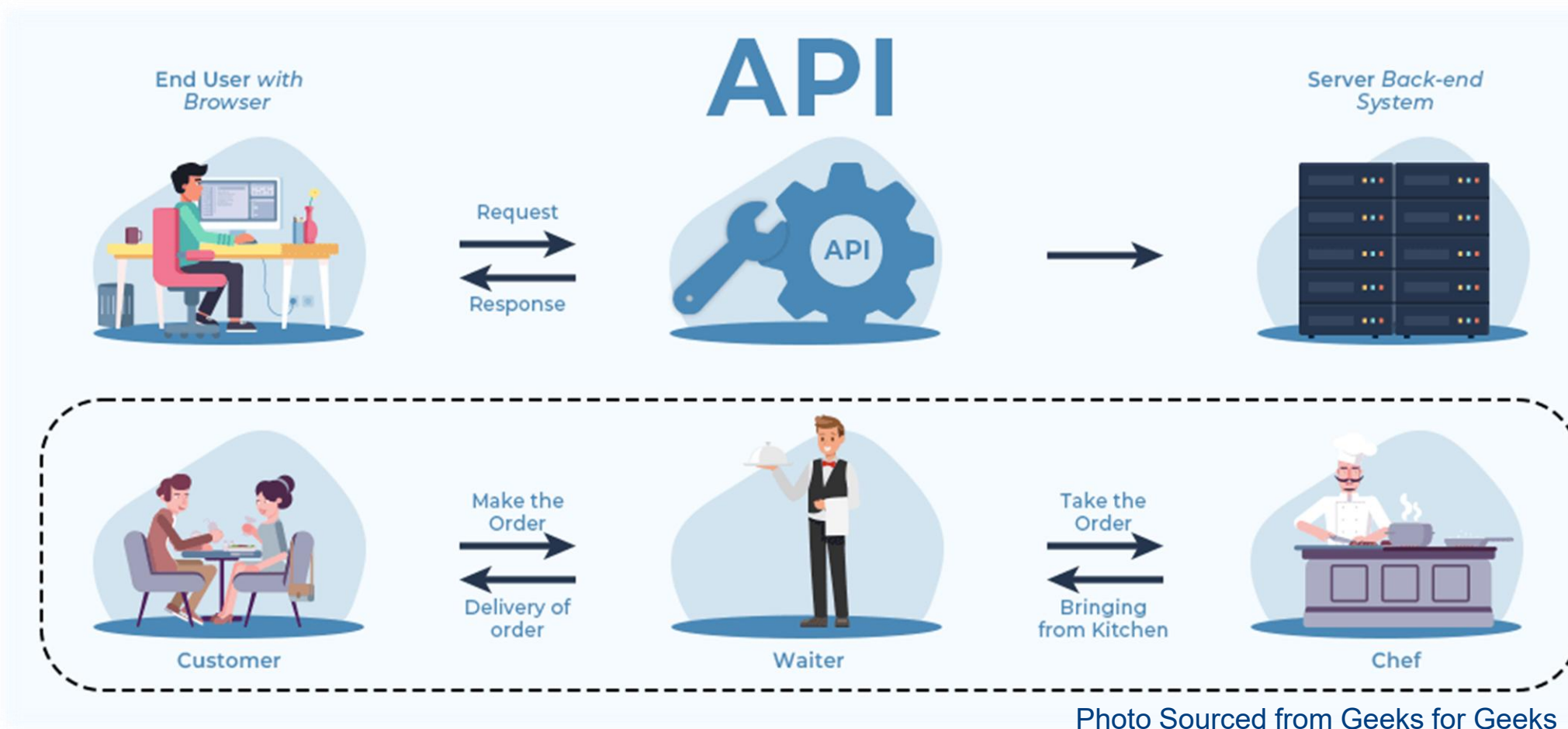


Photo Sourced from Geeks for Geeks



Driving Payments Modernization

Key Trends

Artificial Intelligence (AI) and Machine Learning (ML)

- Fraud and Risk Detection
- Streamlined Payment Processing
- Improved Member Experience



Driving Payments Modernization

Key Trends



Embedded Finance

- Buy Now, Pay Later (BNPL)
- Ride Sharing
- Travel Booking Sites





Driving Payments Modernization

Key Trends

Distributed Ledger Technology (DLT)

- Blockchain
 - All blockchains are DLTs, not all DLTs are blockchains



Driving Payments Modernization

Key Trends

Regulatory and Compliance Changes

- System Modernization
- Reputation and Compliance Risk
- Regulation Adaptation and Adherence



Driving Payments Modernization

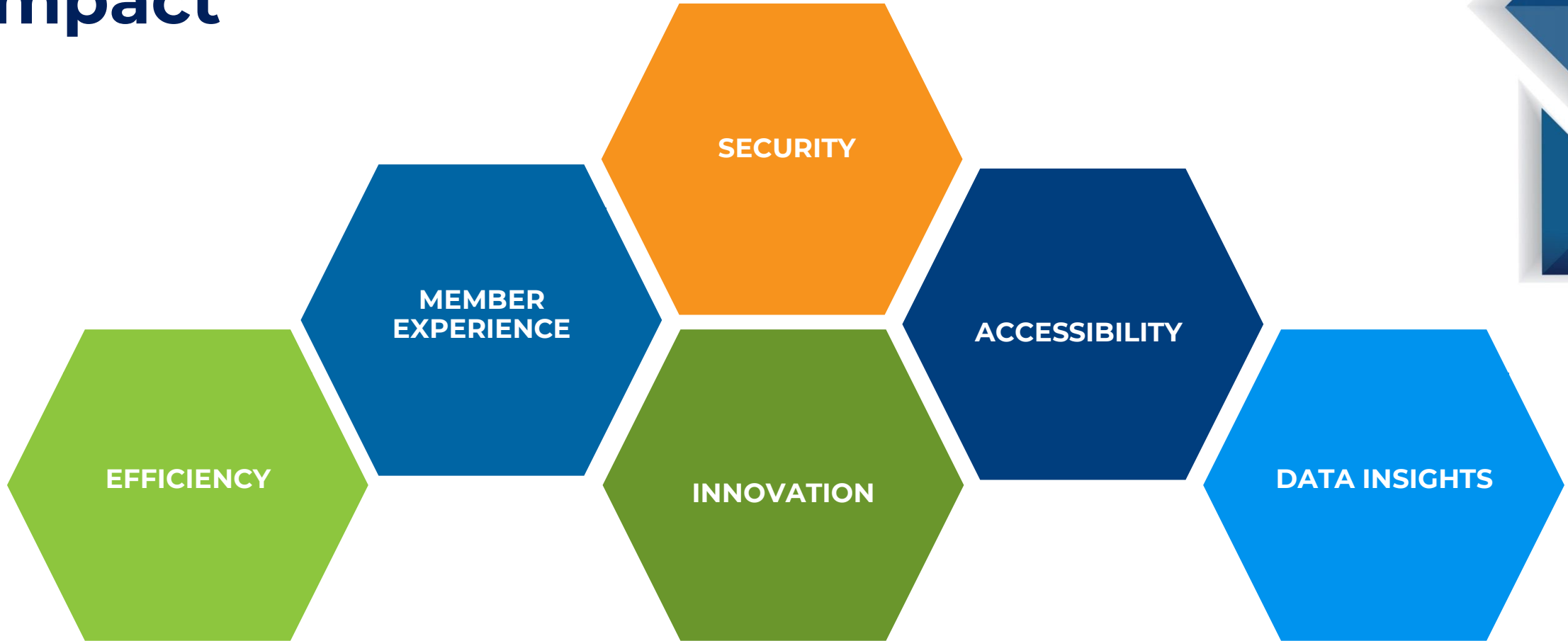
Key Trends

User Personalization and Experience

- Tailored Payment Options
- Seamless Integration
- Minimal Payment Friction
- Continuous Improvements to User Interfaces



Impact





Challenges

- Cost/Investment
- Legacy System Integration
- Security and Data Protection
- Expertise



Benefits of Payments Modernization

For Credit Unions



Operational Efficiency



Improved Security and Risk Management



Enhanced Member Experience



Increased Interoperability and Scalability



New Revenue Generation



Feedback & Ideas!

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Have Feedback or Ideas?

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Thank You!

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