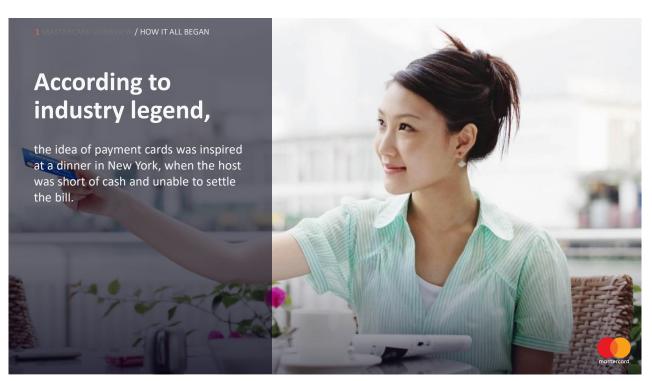
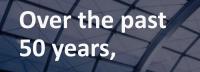
Mastercard

Changing the way the world makes payments

2019 North Carolina OSC eCommerce Conference Joe Helmy, Director of Emerging Verticals Practice



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MasterCard has evolved to become a driving force in the payments industry, transforming how the world pays and gets paid.

/ OUR HERITAGE

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1 MASTERCARD OVERVIEW / OUR HERITAGE

Mastercard Milestones

1960s	1970s	1980s	1990s	2000s	2010s	
 1966 A group of banks creates the Interbank Card Association (ICA) for the reciprocal acceptance of credit cards. 1968 Financial institutions from Mexico, Japan, and Europe join ICA. 1969 ICA acquires the Master Charge name and interlocking circles trademark. 	1979 Master Charge becomes MasterCard.	MasterCard is the first payment card issued in the People's Republic of China, and the first to introduce a laser hologram on cards. The first MasterCard business card is launched.	In partnership with Europay International, MasterCard launches Maestro, the world's first global online debit program. 1997 MasterCard launches Priceless® campaign.	2001 MasterCard Advisors is launched. 2002 MasterCard integrates with Europay International and becomes a private share corporation. 2006 MasterCard transitions to a new corporate governance and ownership structure and begins trading on the NYSE under ticker symbol MA.	2008-2012 Keenly focused on driving innovation, MasterCard acquires Orbiscom, DataCash, the prepaid program and management business of Travelex (Access Prepaid), Trevica and Truaxis. 2010 MasterCard Labs is established, which serves as an incubator for new ideas.	2013-14 MasterCard introduces MasterPass. Acquires Provus, ECS, C-SAM, Pinpoint, TNS and Sone. MasterCard works with Apple to launch Apple Pay. 2015 MasterCard acquires Applied Predictive Technologies and assists with the launch of Samsung Pay.

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1 MASTERCARD OVERVIEW / MASTERCARD TODAY

Our Mission

Every day, everywhere, we use our technology and expertise to make payments safe, simple and smart.





THE ADVANTAGE WE DELIV

The Advantage We Deliver

- Unified global organization
- Fastest global processing platform
- Powerful brands and Priceless offers
- Innovative payment solutions
- Security expertise
- Strong relationships
- Unique advisory capabilities
- Talented employees





OUR BUSINESS / BUSINESS TRANSFORMATION

Payments Innovation

Our **innovations** support opportunities for new payment services and safer, seamless and more convenient payment experiences.



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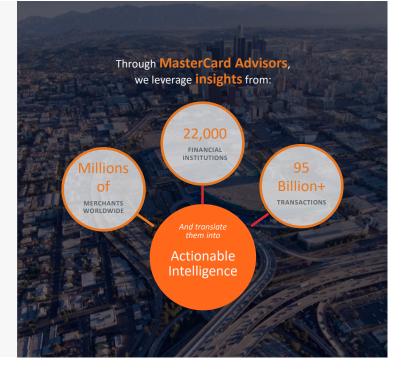
OUR BUSINESS / STRATEGIC CONSULTING

Consumer Data and Insights

By combining reliable transaction data with analytics, we offer unparalleled global consulting advice that can drive revenue growth, marketing efficiencies and business optimization.

Advisors does not sell the transaction data, but instead maximizes aggregated, anonymous data to deliver actionable insights.

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OUR BUSINESS / AWARDS

Global Recognition

Fortune

- #6 of Top 25 Blue Ribbon Companies
- #11 of Top 50 Change the World Companies
- World's Most Admired Companies
- #5 of World's Top 50 Business Leaders (Ajay Banga)

Innovation Project®

PYMNTS Innovator Award for Best New Technology

Millward Brown

#20 of BrandZ Top 100 Most Valuable Global Brands

Forbes

#36 World's Most Innovative Companies

Barron's

#8 of Top 100 World's Most Respected Companies

Harvard Business Review

Best-Performing CEOs of the World

Ethisphere

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World's Most Ethical Companies (2016)

All recognition awarded in 2015 unless stated otherwise.

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OUR BUSINESS / AWARDS

Workplace and Diversity Recognition

Human Rights Campaign	DiversityInc.		
Best Places to Work	#7 of Top 50 Companies for Diversity (2016)		
ComputerWorld	LinkedIn		
#1 of 10 Best Finance Companies to work for in the U.S.	The World's 100 Most In Demand Employers (2014)		
National Association for Female Executives	Working Mother		
Top Companies for Women	100 Best Companies		
Hispanic Network Magazine	_		
Best Places to Work			

All recognition awarded in 2015 unless stated otherwise.

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OUR MARKETING POWER / PRICELESS PLATFORM

Priceless

MasterCard's highly regarded Priceless campaign crosses borders and cultures and connects people to priceless possibilities.





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OUR STRATEGY / STRATEGIC OUTLOOK

Growth Drivers

Mastercard's growth is influenced by four primary factors:

- Personal consumption expenditure growth
- Shift to electronic forms of payment from cash and check transactions
- Mastercard share of electronic payments
- Value-added products and services



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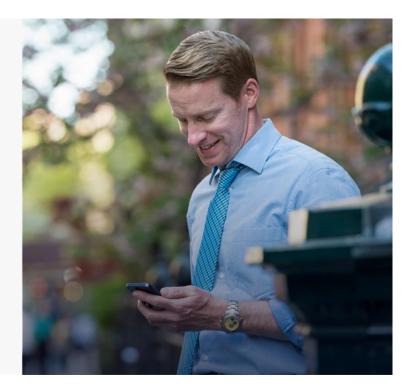
OUR STRATEGY / STRATEGIC OPPORTUNITIES

Key Trends

- Financial inclusion
- Continued urbanization
- Growing importance of youth
- · Growing affluent and middle class
- Ubiquity and reliance on smartphones
- Growth of e-commerce and omni-channel shopping
- Growth of digital payments
- · Consumer concerns about fraud

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OUR STRATEGY / OVERVIEW

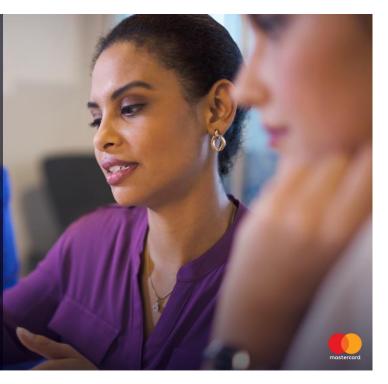
Our Strategy

Our strategy is to grow our share of commerce through innovation and execution. We drive our strategy by growing our core businesses, diversifying geographies and customers, and building new businesses.





Build NEW, HIGH-GROWTH SCALABLE BUSINESSES

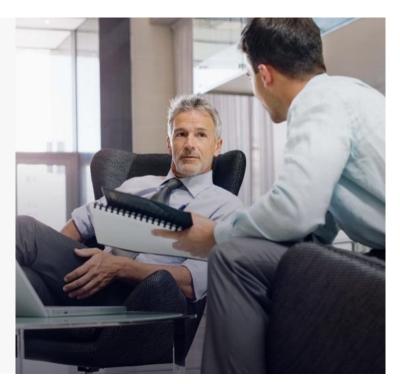


OUR STRATEGY / LEADING WITH SERVICES

Mastercard Advisors

Our global consultancy provides clients with insights and solutions that **drive business impact** and **ROI**.

With analyses based on more than 80 billion anonymous transactions, Advisors leverages aggregated information and a consultative approach to help financial institutions, merchants, media companies, governments and other organizations grow their businesses.



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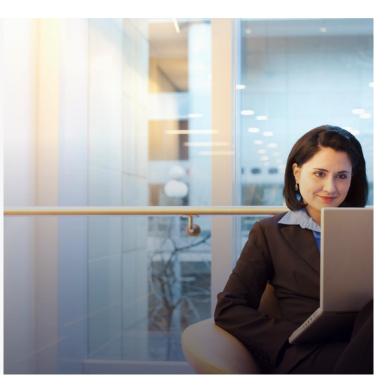
OUR STRATEGY / LEADING WITH SERVICES

Other Value-Added Services

Prepaid Management Services – end-toend global prepaid card programs for large or small companies that are backed by our safety, security and global acceptance

Payment Transaction Services – acting as a fully integrated technology partner to issuers and acquirers, we provide the backend technology, service and support needed to make payments happen

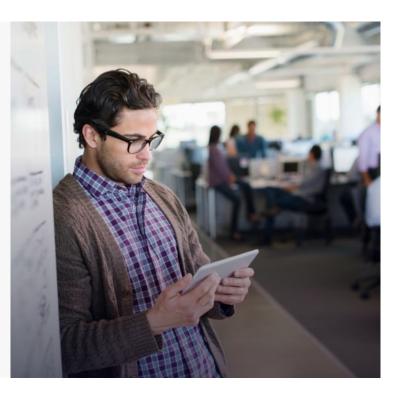
Payment Gateway Services – delivering new and different ways to pay online and provide merchants with truly global connectivity



OUR STRATEGY / FOCUS ON INNOVATION

Mastercard Labs

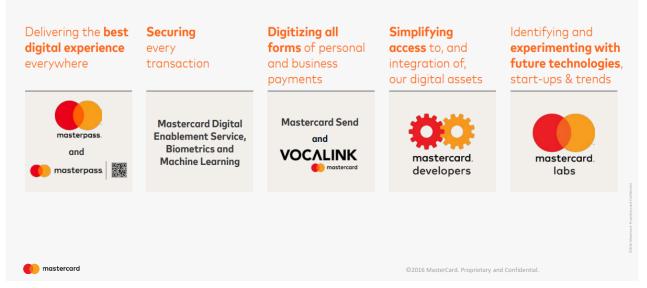
Supporting **breakthrough innovation** efforts is at the heart of differentiating MasterCard from our competitors and key to sustaining our competitive advantage in the marketplace.

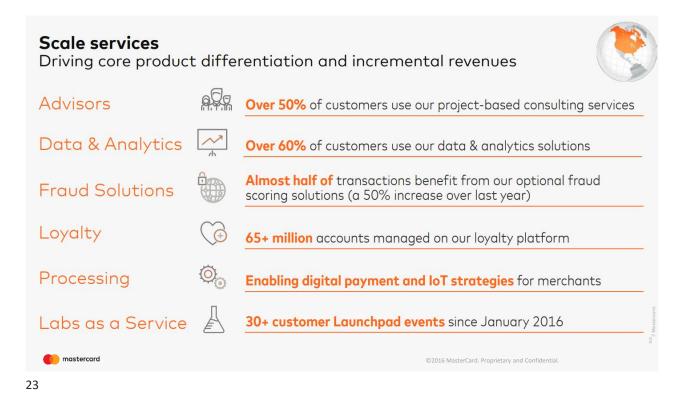


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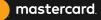
Our strategy – enable our customers and partners to be at the forefront of digital payments





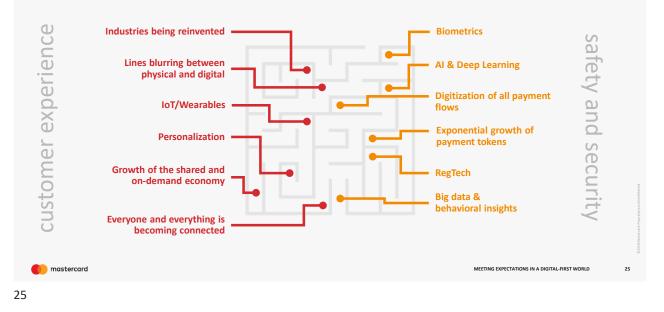






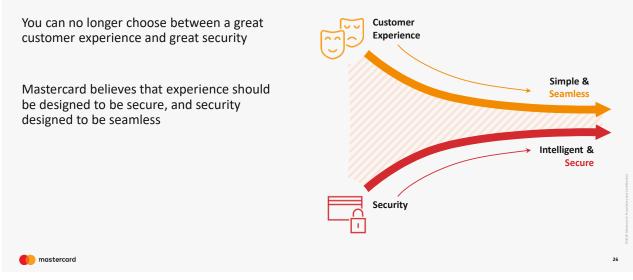
DIGITAL - WHAT IS HAPPENING?

New technology and changing trends are complicating how businesses operate to meet consumer expectations



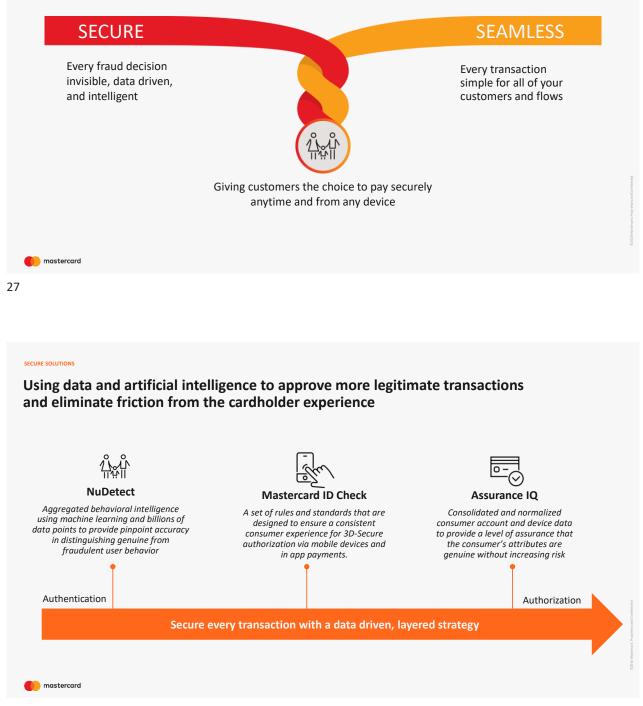
CHALLENGE AND CONTEXT

Technology is also pushing security and experience to be one and the same



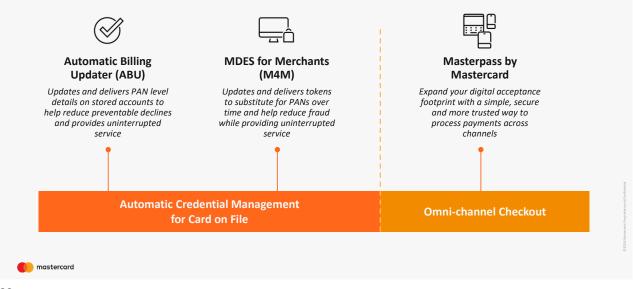
POSITIONING

Build stronger relationships with all of your customers by making a completely connected experience that is secure and seamless



SEAMLESS SOLUTIONS

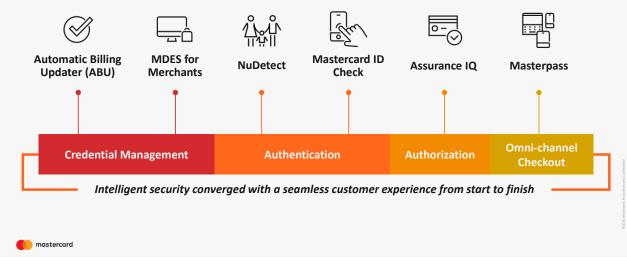
Making every transaction simple for consumers no matter how or where they choose to pay



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REASON TO ACT

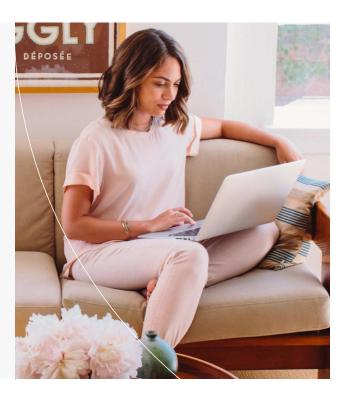
Mastercard digital solutions give you the tools you need to stay ahead in the age of digital commerce





MDES for Merchants

Building a more seamless and secure lifecycle management solution with Mastercard Digital Enablement Service and Automatic Billing Updater.

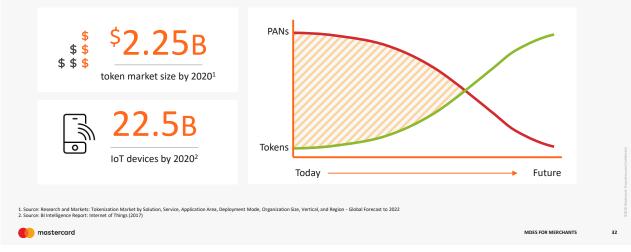


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LANDSCAPE

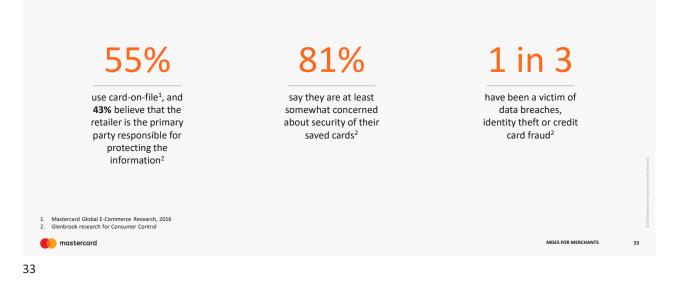
Merchant Introduction

Tokenized payments will continue to grow at a rapid rate, but card-onfile payment types will be mixed for some time.



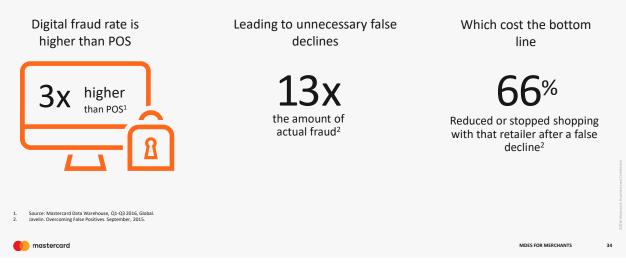
CONSUMER PAIN POINTS

And while consumers like the convenience of card-on-file, the fear of security breaches still looms large.



MERCHANT PAIN POINTS

High security without a seamless experience can negatively impact revenue.



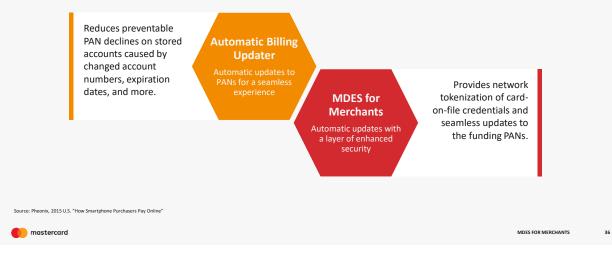
REASON TO ACT

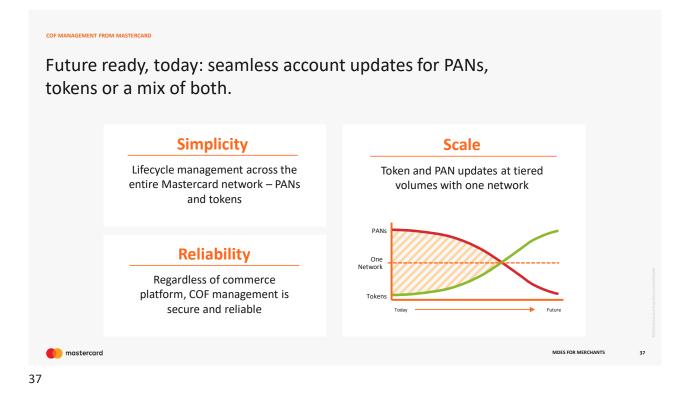
False declines are diverting resources and undermining the merchant's ability to effectively combat fraud.



POSITIONING

M4M and ABU together provide seamless and secure lifecycle management of PANs and Tokens.

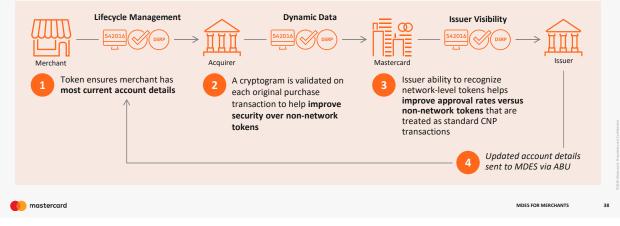




HOW IT WORKS: M4M

Network tokenization offers a new level of security, transparency and potential benefit

M4M Tokenization (direct integration with merchant)



My Digital Life Introduction

Establishing the Digital Foundation for New Services April 2019

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Digital Identity is Foundational To Native Digital-First Services

2019→2023

Digital Identity is Foundational to

digital payments & digital

interactions

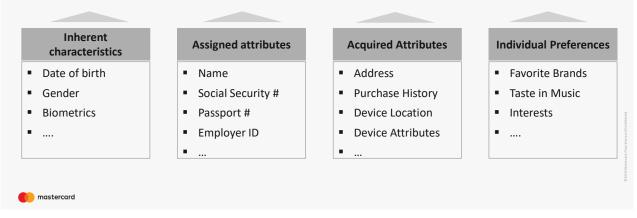


Trends Accelerating Digital Identity Need Best Practice Bar Raised for Security and ID&V User Expectations: Simple, Secure, Private Connected Devices & Complexity GDPR+ Regulations Globally User for Open Banking, Open Data Al Drivers to New User Services Urbanization and Smarter Cities 7.5B User Relevance: Inclusion Markets Embedded Digital Commerce Growth Drivers to User Centric, Distributed Systems

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What is Digital Identity?

- Digital Identity = The collage of data verified by trusted parties and that is a digital means of establishing 'we are who we say we are' with a high degree of assurance (i.e. proves "John is John with X% accuracy")
- Reusable Digital Identity allows individuals to identify themselves to gain access to multiple services with speed, convenience, and security based upon verification of both *static and dynamic* identity data





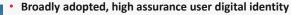
Compelling Value Proposition with a Reusable Digital Identity



For Users:

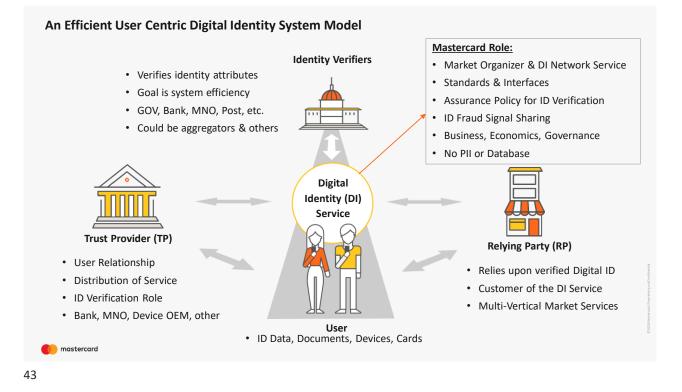
- Easy user experience with 1 time enrollment
- Secure, No Password use of tokens for authentication
- Ubiquitous acceptance, high value, high frequency use-cases
- Consumer control over data: ID, consents, digital footprint, data
- End point device flexibility across all life-stages and situations

For Customers:



- Fast, resilient, on-demand; supporting data minimization
- Efficient, Transparent, Globally Interoperable
- Flexible levels of identity verification (dynamic, biometric)
- Extensible and adaptable service to plug-in

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Mastercard Perspective

See digital identity vision paper: mastercard.com/digitalidentity

Vision

"As a user champion, provide simple & secure digital identity services for users interacting with application services across multiple verticals (payment, non-payment) and countries that enable them to be known with assurance, in a manner sensitive to their privacy and data rights."

Our Role

- Orchestrating digital interactions as a user champion
- Establish the service platform, network
- Define the operating rules & governance
- Deliver and operate the service with partners
- Attract and service customers

Broad Market Collaboration Essential

- Primary ID Verification: Bank, GOV, MNO, Post, ...
- Government Alignment
- Bank Partnerships: Trust Provider, ID Verification
- · Focus upon core natural industry roles

Our Relevance

- · Global footprint across over 200 country markets
- 23,000 bank partners; 50 million merchant relationships
- Experience in governance and operating networks
- Commitment to invest in a global infrastructure
- Evolution of digital payment interactions

Compelling Use Cases – Supporting My Digital LifeSimple, Transparent, Safe, Fast



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