

Hello



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Safe Harbor

Forward-looking statements are not guarantees of future results, events, levels of activity, performance, or achievements. Moreover, neither we nor any other person assumes responsibility for the accuracy and completeness of the forward-looking statements. These statements involve known and unknown risks, uncertainties, and other factors that may cause actual results, levels of activity, performance, or achievements to be materially different from any future results, levels of activity, performance, or achievements expressed or implied by these forward-looking statements

We are under no duty to update any of the forward-looking statements in this presentation to conform such statements to actual results or to changes in expectations. We assume no obligation to revise or update any forward-looking statements for any reason.

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Making the move

Smart Transport Ticketing in India

Verifone India

5th Nov 2017



For over 30 years,
we have been
making history

Now, we are creating the future



Leader in almost every market we operate



~5.4B transactions/year



>29 million devices



In >150 countries globally



FY16, \$2B revenue



Over 5,700 people across 42 locations

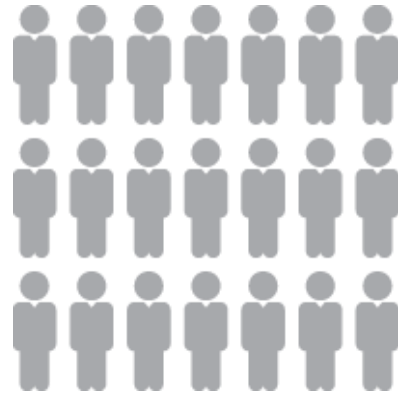


Largest Terminal provider in India

INDIA HAS BEEN CRITICAL TO VERIFONE FOR 25 YEARS

1.7M+

Terminals in India



500+

Engineers

85+

Cities

Field Service, Repairs, Application
Development, Helpdesk, Operations

Petro loyalty program management

INDIA'S LARGEST FLEET CARD & LOYALTY MANAGEMENT PROGRAM

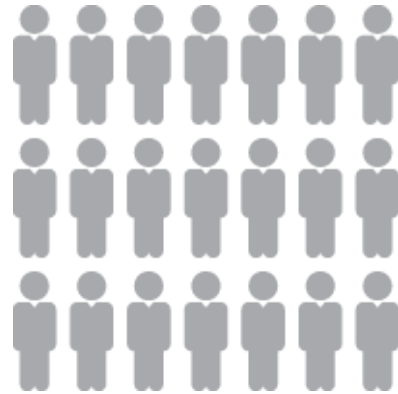
India's **SOLE** provider of
Fleet Card Program Management

26K+

Terminals in India



Field Service, Repairs, Application
Development, Helpdesk, Operations



3MM+

Active cards

\$19B

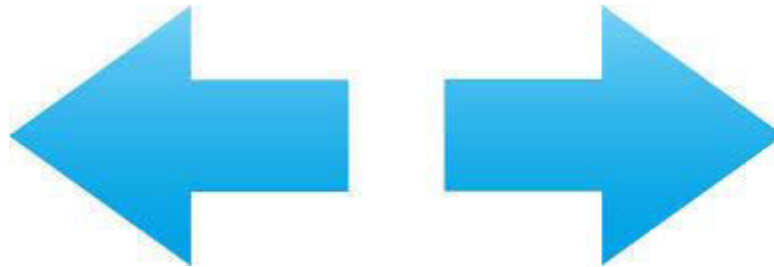
 Transactions
processed per year

10K+

Terminals with
Wallet acceptance



Smart Ticketing – Cashless , Interoperable



Interoperability?



Across modes of transport ?
Across retail and transit ?

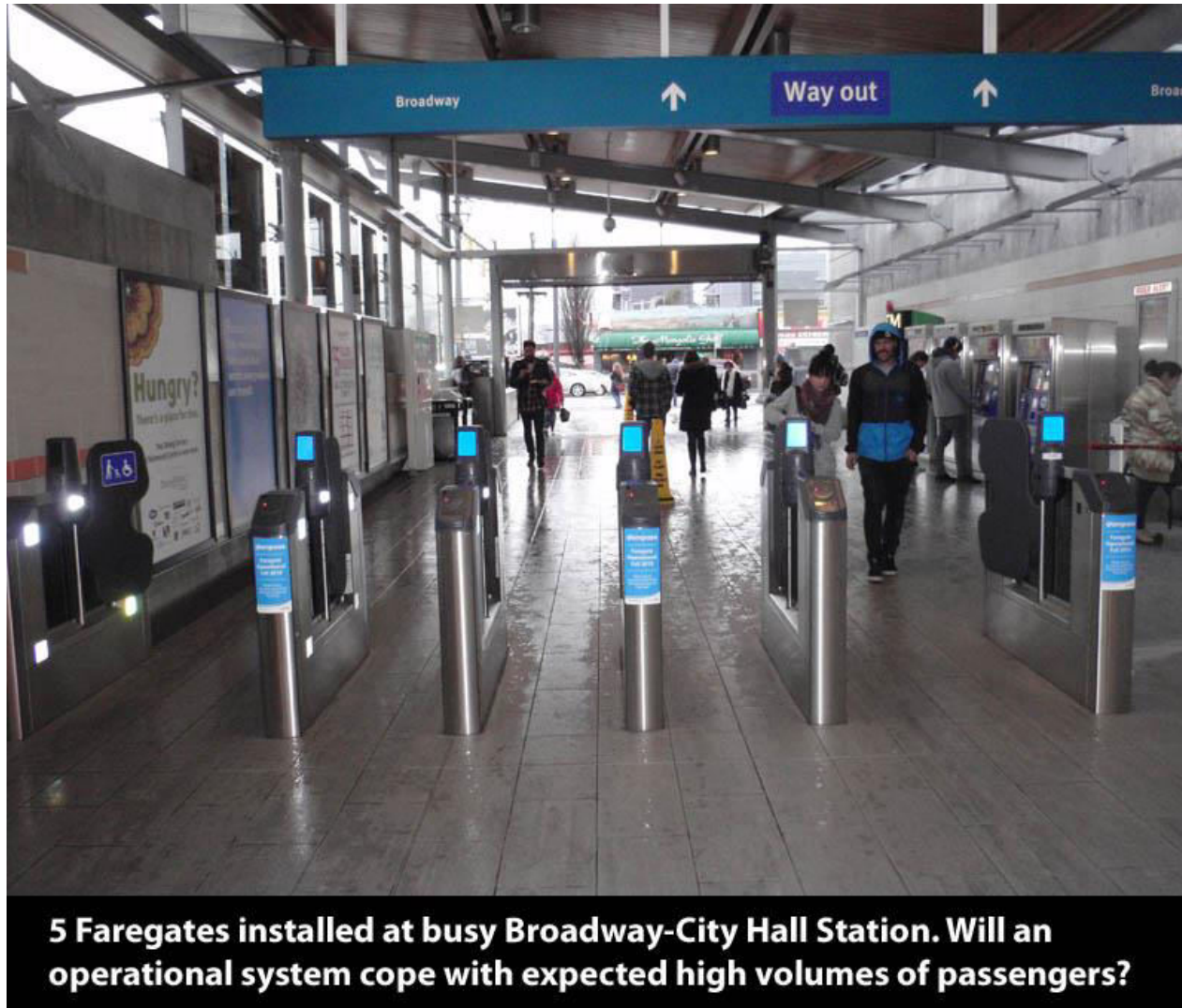
Intra City? Or Inter City?
Across country?
International?



After all its payments!



PHOTO: DANIEL ACKER/BLOOMBERG VIA GETTY IMAGES

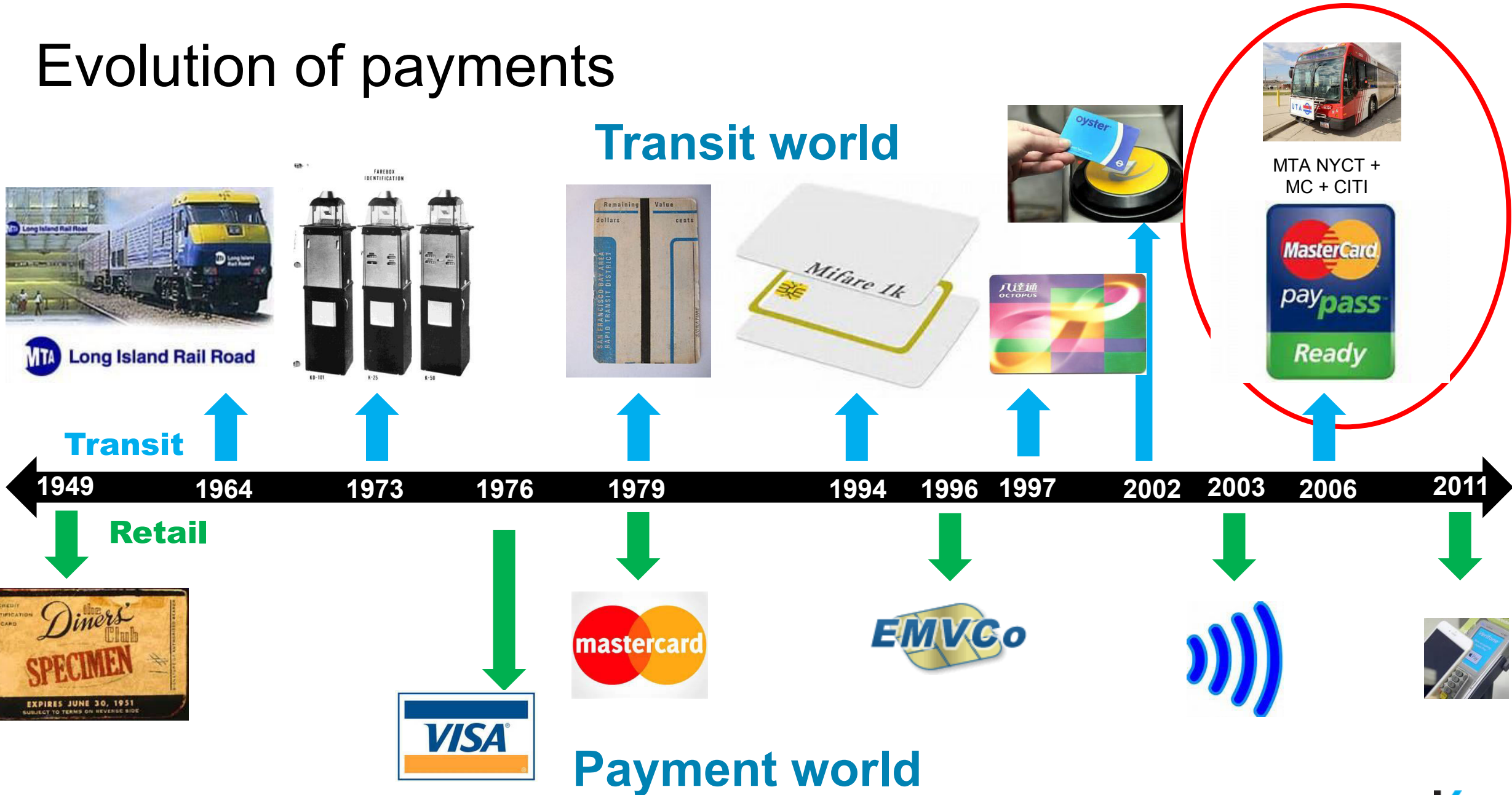


Problem Statement

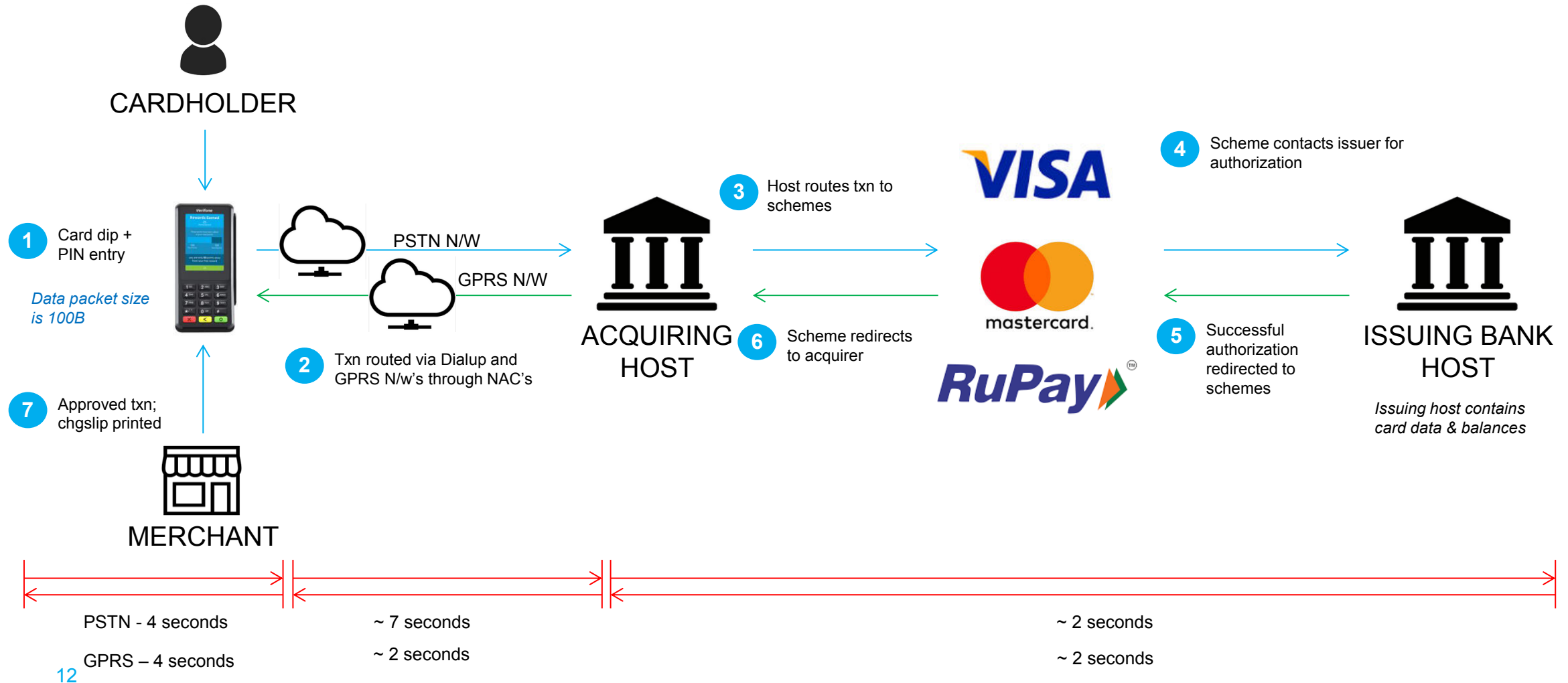
Move riders quickly through the fare gates while ensuring that the transit authority collected its appropriate fare from each rider



Evolution of payments



Payment Ecosystem



Fact of the matter

Most transit agencies have proprietary fare payment systems today. These systems were implemented years or decades ago when there was no practical alternative, and even today they are still the most proven and widely available transit payment systems.



Push Factors

- Cost
- Vendor Lock-in
- Resource allocation
- Customer Inconvenience
- Lost revenue opportunities



Pull Factors

- Electronic payments
- Prepaid cards
- Open loop payment systems
- Contactless Payment Systems
- ISO standards
- Demonetization / Cashless society
- Smart Cities



Challenges

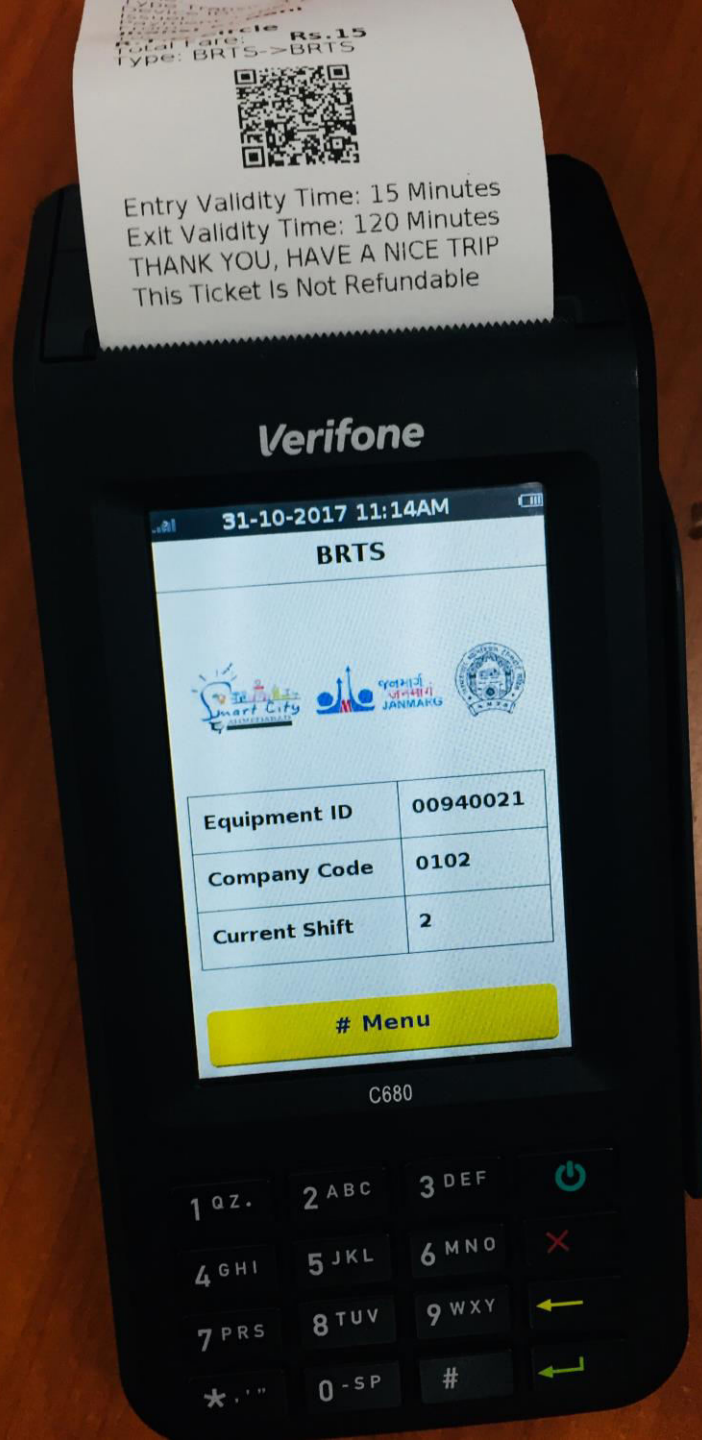
- Very few cases to follow
- Differences between card systems
- Interchange fees
- Banking laws
- Payment association rules
- Hostile conditions in emerging markets
- Make in India
- Resistance from crew due to personal interests
- Bank concerns - ROI



Unattended Solutions



- Verifone's UX series of unattended terminals – enabling contactless use cases
- Acceptance of closed/open loop payments – across card & Mobile forms
- Capabilities to manage end-end AFC Programs for bus/rail/metro transit systems – including:
 - Stored value management systems
 - Authentication systems
 - Access control systems



Attended Solution

- Issuance
- Acceptance (NCCMC, EMV, CTLS, MiFare)
- Online
- Ticketing
- Integrated into AFC as well as Acquirers over private network



BMTC

- Instant Issuance

Kochi Metro

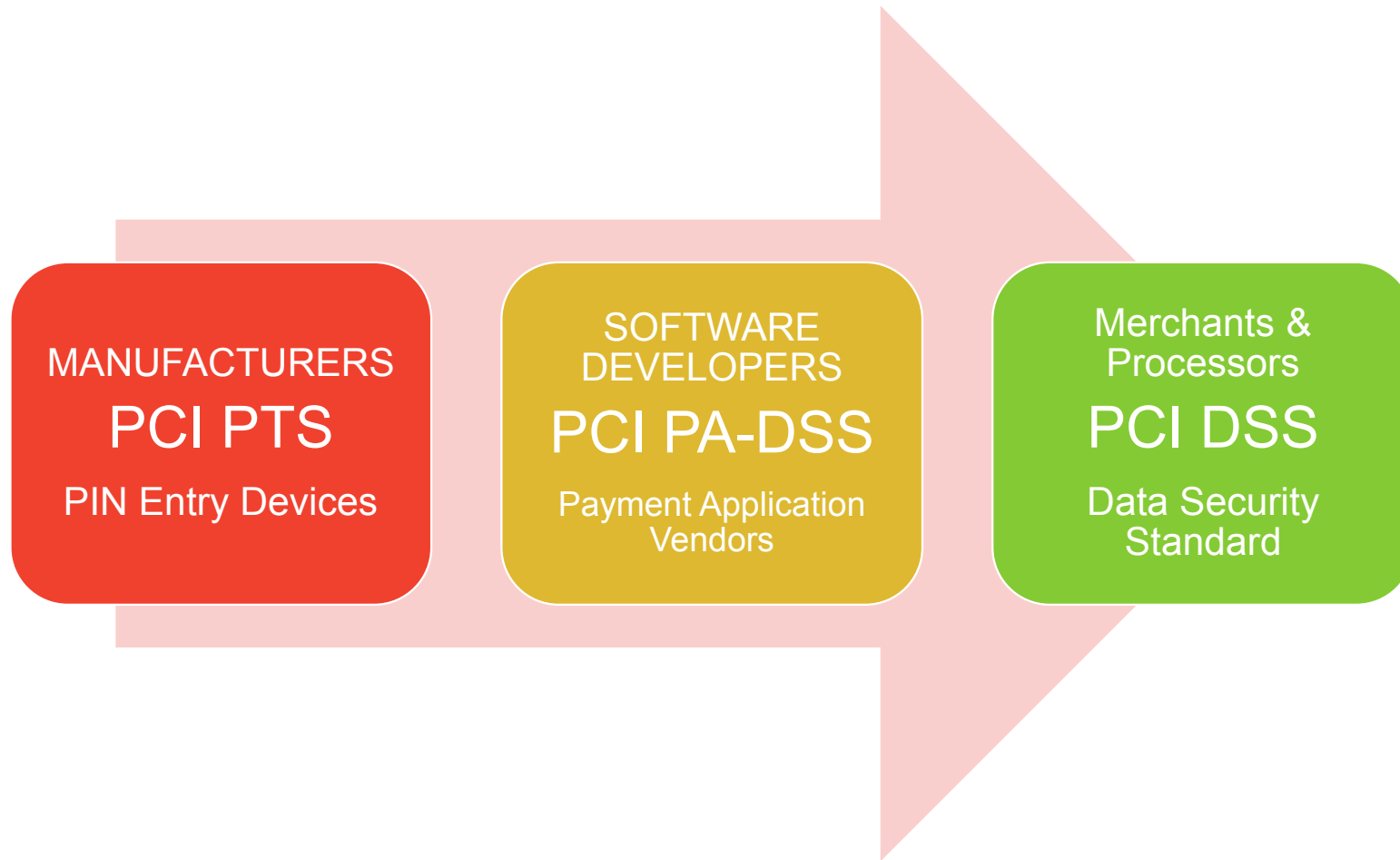
- Closed loop & Open loop
- Unattended (Integrated into the Kiosk)

Ahmedabad – BRTS & AMTS

- QR ticketing
- Terminals double up as gate validators

Payment Card Industry Security Standards

Protection of Cardholder payment Data





Card holder's identity

- Track 2 data
- PAN
- PIN



Secure POS

- Application Authentication
- Tamper Proof
- Secured memory
- Water tight partitions
- Secure PIN entry
- P2PE

Secure Card processing

- Data Authentication
- Card holder verification
- Processing restrictions
- Risk Management
- Generate Application Cryptogram
- Issuer data authentication



Secure Application



- Transient card data
- Mandatory PIN
- Batch data encryptions
- PAN Masking

Secure Data Exchange



- Secure Key Injections
- PIN Encryption
- MAC authentication
- Message / Data encryption
- TKS 1.2 over IP media
- Private Networks



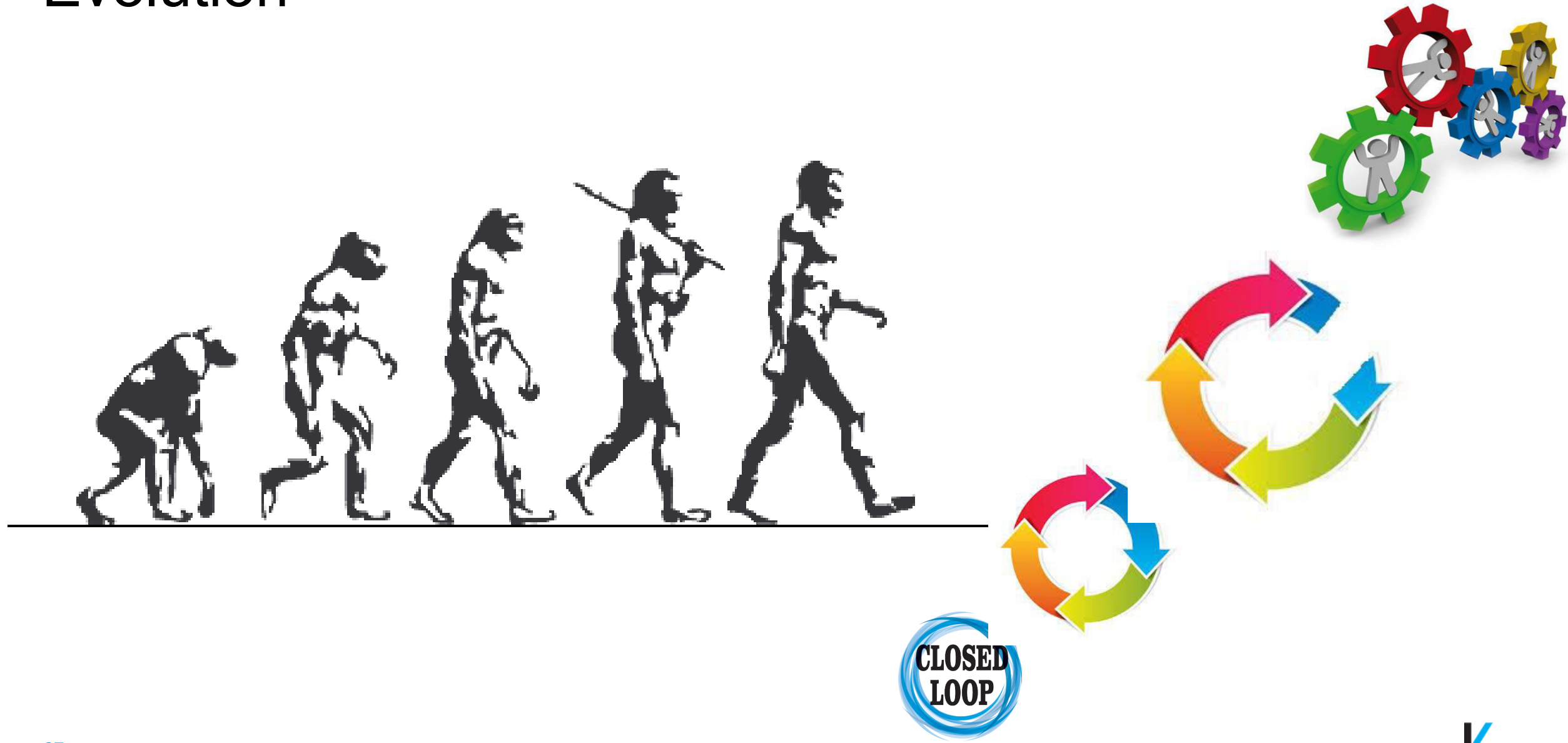
Secure Estate Management



- Secure upgrades
- Secure Diagnostics
- Secure Repairs
- Alerts enabling better remote control



Evolution



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