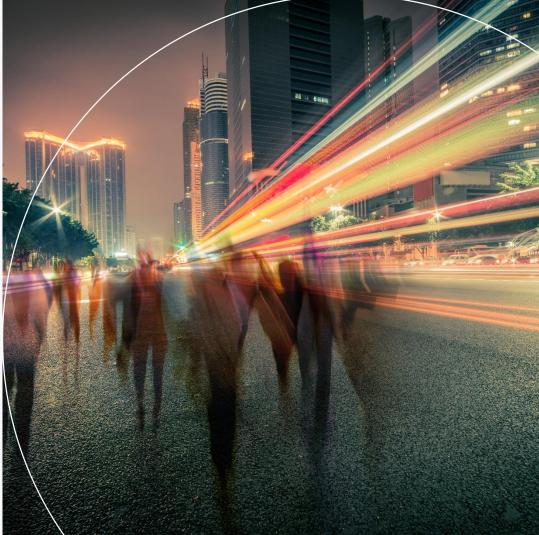


Towards better integration of transport system services

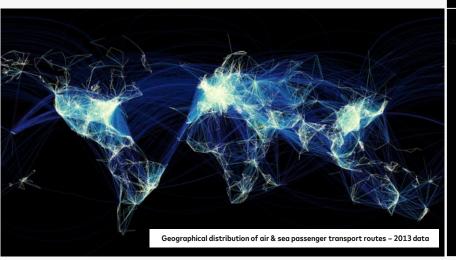
Opening cities for business and connecting people with places

Johan Envall, Vice President, Mastercard



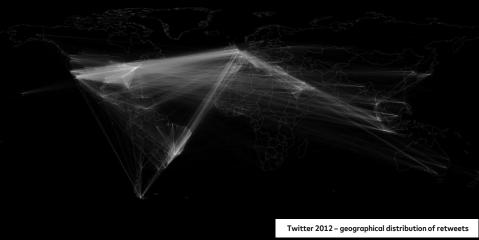
TOWARDS A BETTER INTEGRATION OF TRANSPORT SYSTEM SERVICES

We don't stay in one place - we live in a connected web of cities.





Global media 2015 – geographical distribution of multi-city references

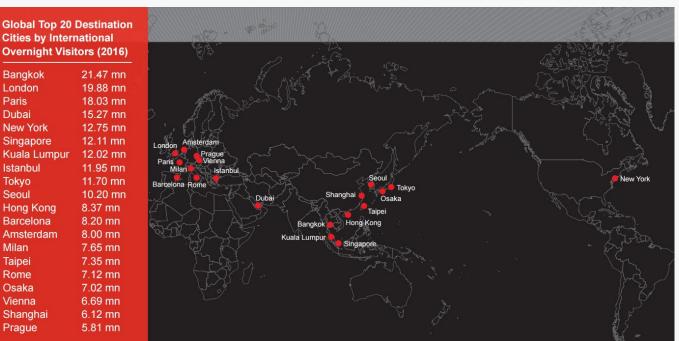




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Ten cities see more than 10 million crossborder business & leisure visitors annually.

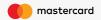
And annual growth in visitor numbers – **5.2%** – is higher than GDP growth globally





How does public transport in the world's cities, better serve ever connected citizens & visitors?





Generally citizens & visitors are poorly served.

People want to get where they need to go as quickly as possible but cash, paper tickets and localized smartcards don't deliver the simplicity and convenience they now expect – whether an infrequent city resident or a visitor.





Overcoming barriers to making EMV contactless payment work in transport.

Fare model	Throughput	No "product"	Customer care
Many urban operators use distance-based pricing under a check-in & check-out model	Busy urban stations and bus operations demand >30 passengers per minute	Customer doesn't pre-select a specific product ahead of travel and likely doesn't want to	Customers require clarity about journeys made and fares levied by the transport operator
Tap aggregation prior to billing	<400ms transaction time	Default offer – no pre- registration or pre-purchase	Individual web travel accounts

Global EMV standards for contactless payments suit global visitors.



- Widely issued more than 1 billion contactless payment cards issued by end 2016
- Standardised and interoperable worldwide – more than 100 countries
- Shared technical standard across four payment schemes
- Foundation standards for Apple & Android NFC payments
- Consistent branding guides consumers worldwide







Contactless in London: The objectives.



Global interoperability Supporting visitor strategy



Fare aggregation Daily/weekly capping



Lower cost of ticket/ smartcard issuance



Fast offline data authentication, tap & go



Reduced

queues





Contactless in London: The results.





of PAYG trips on the tube, commuter rail, tram & bus

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new users each day

countries of origin for cards used by visitors

>1



Cost reduction in fare collection

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Solutions that deliver convenience for travelers while saving operators money AND helping to make cities more responsive to the needs of those within them



Cuts the cost of fare collection and frees funds for service improvements

Supports Tourism & Visitor Strategies

Removes barriers to public transit use and can deliver global interoperability



Real-time Data

Understands who visits your city and what they do within it to inform smarter urban planning



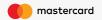
Digital Engagement

Directly communicates with people in your city on service availability, events, incidents and charges

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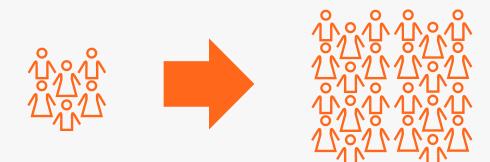
What's next? How do transit players better meet the needs of citizens and visitors?





How do transit operators increase the existing customer base of riders?

In order to meet the challenges of congestion and pollution, cities need to make people change behavior from using private cars or taxi into public transport.



It is not about improving services for the already existing user base who are using the established ticketing solutions. Attracting new customers needs elimination of the pre-trip preparation required by smart cards or app/MaaS solutions.

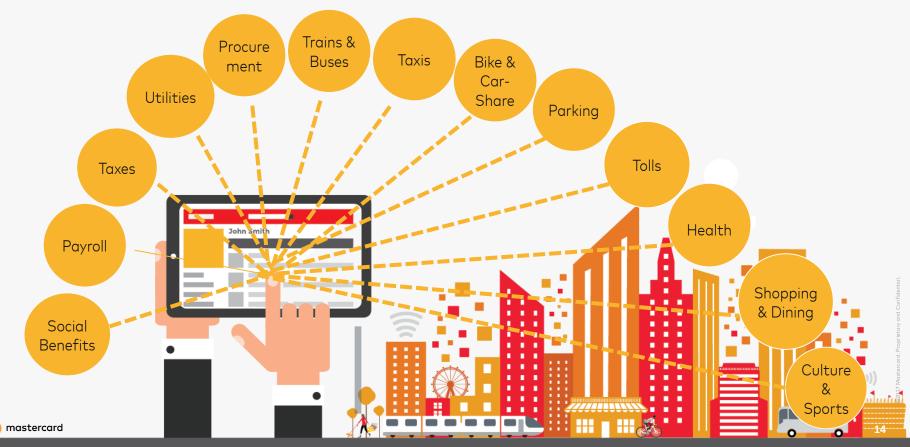
Open payments that deliver standards for interoperability & omni-channel functionality.



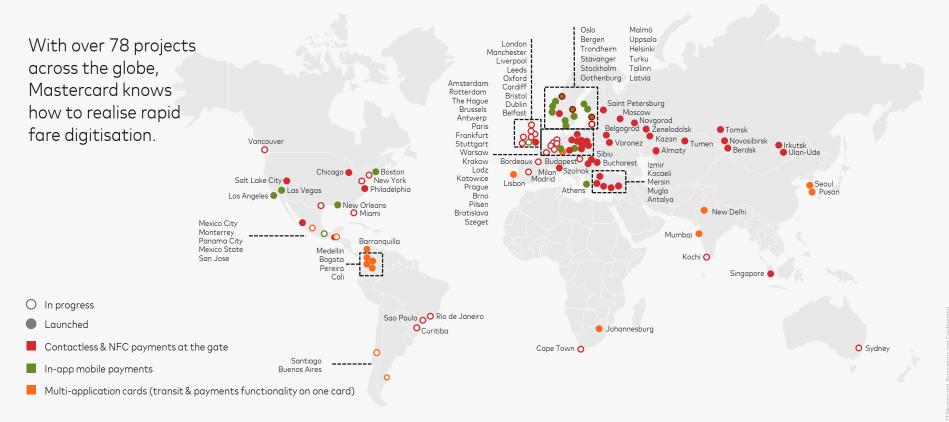


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Enabling choices - Urban services that benefit all citizens at their fingertips



Global reference overview



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Let's get started!

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