



**CUBIC**

*Intelligent travel made real™*

# CONTACTLESS BANK CARD TICKETING IN LONDON - A VISION FOR FUTURE TRAVEL

**Richard Thomas**

Customer Relationship Manager

# Who we are

World's leading integrator of **automated payment and fare collection systems and services** for the transportation industry

## Our business model is based on:

- Long-term partnerships with transport agencies and operators
- Integration of emerging technologies such as mobile and open payments
- Delivery of world-class services

More than **50** million travelers use Cubic systems daily

In excess of **\$50** million in revenues collected daily

**20+** major back-office systems in operation

Over **400** projects

- **40** major markets

- **5** continents

Over **\$4.5** billion in contracts awarded

More than **1,800** employees worldwide

# Major customers

1999 WMATA SmarTrip®



2002 Chicago ChicagoCard™



2003 London Oyster®



2004 BART EZ Rider



2005 Minneapolis Go To Card



2006 MARTA Breeze™



2007 PATH SmartLink™  
PATCO FREEDOM® Card



2008 Los Angeles TAP®  
Brisbane go card



2009 San Diego Compass Card  
Miami EASY® Card  
Modena, Italy



2010 MTC Clipper® Card  
Skåne, So. Sweden  
MTA CharmCard™



2011 So. Florida – EASY® Card  
PATCO Open Payment Pilot



2012 Sydney  
London Future Ticketing Agreement



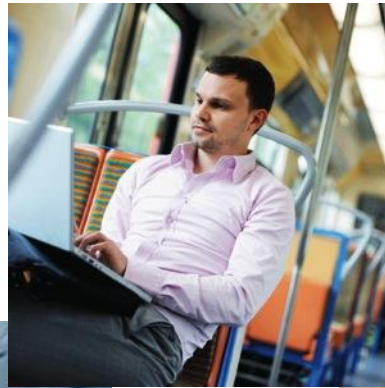
2013 Vancouver  
Chicago Open Payment





# Our mission

“ *Intelligent travel made real* ”



# Evolution of fare collection



# Changing the travel experience



.... with new payment options for passengers



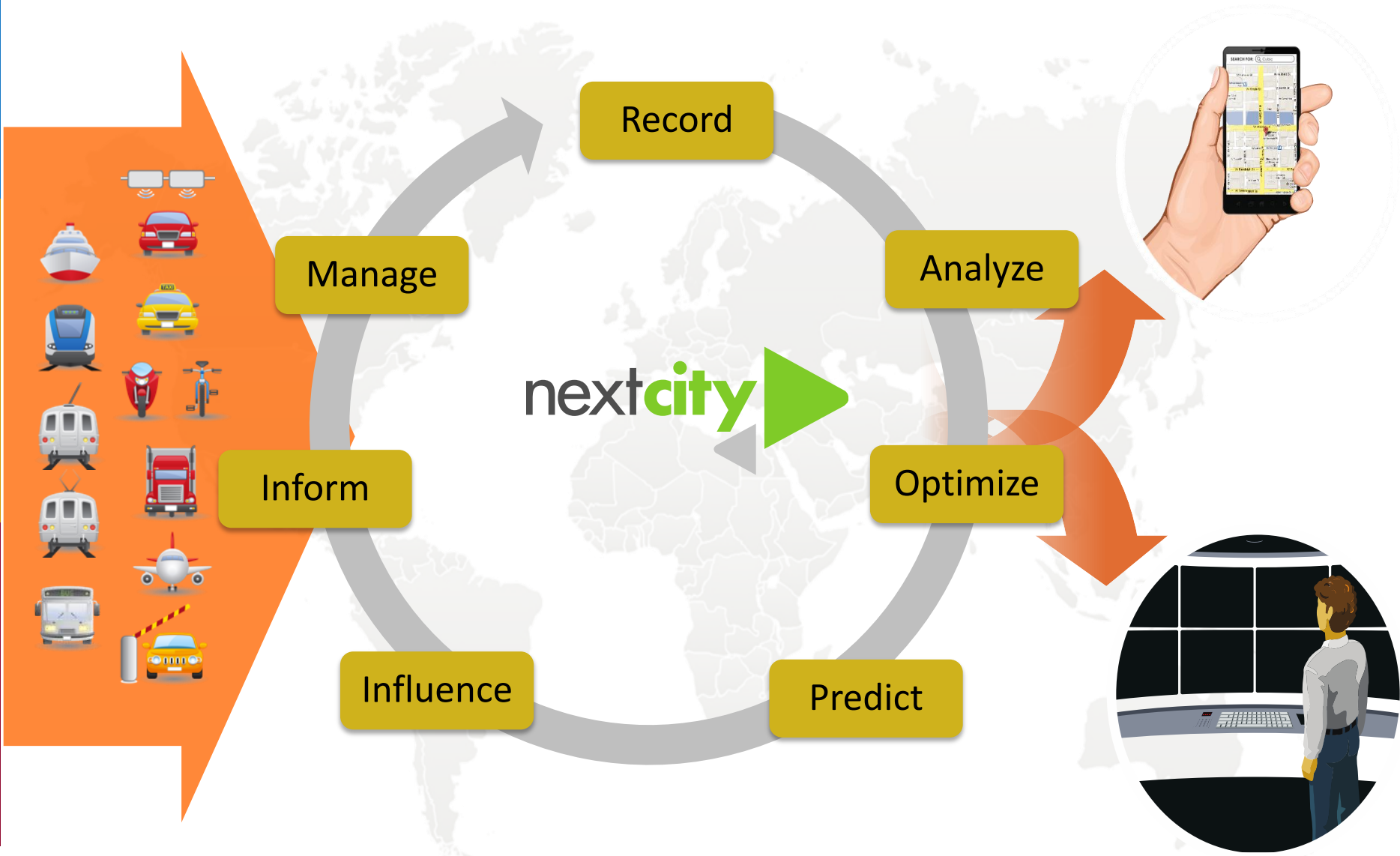
# Vision



- One payment account, all modes
- Personalized and pushed traveller updates
- Smarter, real-time journey planning
- Integrated pricing (“Super Day Pass”)
- Real time integrated use information
- Dynamic information and price updates
- Trended, integrated data analytics
- Leveraging existing assets



# Nextcity solutions





# London's "Future Ticketing Project" – what have we done?

## Phase 1

8,500 buses equipped with new readers

EMV – Oyster - ITSO

3G cellular data modems

Merchant Acquirer Accreditation

PCI-DSS

New systems monitoring tools

Soft launch on London Buses: 13 Dec 2012

10000+ EMV transactions per day

Top bus route: 38 Victoria to Clapton Pond



# Infrastructure upgrades

Future Ticketing Project and ITSO in London require substantial infrastructure upgrades to the TfL and TOC estates in London

8,5000 buses upgraded with new multi-application readers with built-in 3G comms

New multi-application readers on LUL and TOC stations

190km of cabling to be installed in LUL and TOC stations

1100 Ethernet switches

TfL HOPS and FTP Back Office Systems



# What's next?

ITSO Validation at London TOC termini gates

Trials in Q1 2013

Rollout of ITSO validation capability across all London validation devices

Rollout of open payment validation capability to all London validation devices

Account-based

Fare calculations in Back Office

Daily and weekly price capping

Payments Industry Accreditations

And finally .....

If you thought that was challenging .....





Thank you

Any questions?

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