

A photograph of a high-speed train station platform. A red and white train is blurred in motion, passing by a platform where several people are waiting. A woman in the foreground is carrying a large purple shopping bag. The scene is captured with a long exposure, creating a sense of speed and movement.

Transportation Can Work Better

Intelligent Mobility is the heartbeat of our economy. Urbanisation, changing demographics, new business models and innovation are transforming the transportation industry.

When fully and properly utilised, an effective mobility system keeps people, vehicles and goods moving efficiently. It should be seamless and the solution personalised.



£22 bn

in 2030 annual
cost of UK
congestion
(63% increase)

Energy use and
greenhouse gas (GHG)
emissions from the land
transport sector are
expected to increase by
nearly

50% by 2030

70%

of millennials use
multiple ways of
getting around a
city or suburb

54% of the
world's population live in
urban areas. An additional

2.5 bn people
will be based in cities by
2050

47%

The desire for
more livable,
walkable
communities

+39%

in public transit
ridership since 1995
(outpacing population
growth and vehicle
miles traveled)

91 Hours

The total time that an average urban commuter spends in traffic each year.

Source: <http://www.dailymail.co.uk/news/article-2798195/counting-cost-congestion-failure-cut-london-traffic-jams-costing-businesses-billions-drivers-set-spend-two-days-sat-gridlock-year-2030.html>



30% of urban traffic is caused by drivers circling to find a parking space.

Source: Cruising for Parking by Donald Shoup



**Every \$1 invested
in public
transportation
generates
approximately
\$4 in economic
returns.**

Source: APTA 2014 Public Transportation Fact Book Mobility report
<http://www.apta.com/mediacenter/ptbenefits/Pages/FactSheet.aspx>



As of June 2015, **1.5 million** mobile apps were available in the Apple App Store.
How many on Mobility?

Source: The Statistics Portal
<http://www.statista.com/statistics/263795/number-of-available-apps-in-the-apple-app-store/>

At Xerox, we believe the next frontier for the mobility industry is to improve the work itself – to optimise existing infrastructures while moving people, vehicles and goods from Point A to Point B in the safest, most efficient way.



Intelligent Mobility

Combating congestion
Efficient back-office structure
Real-time and predictive data analytics
Coherent transportation system


End-to-End System Management

Dynamic pricing mechanisms
Immediate payment processing
Mobile applications
Deterring violations

Seamless User Experience

Implementing new technologies
Making multimodal transport easy





“We need to reduce traffic congestion by reclaiming some of the available capacity in the HOV lanes.”

Los Angeles County Metropolitan Transportation Authority

Intelligent Transportation Using HOT Lanes

Solution

Designed an innovative approach to tolling through the use of a dynamic pricing algorithm to price each segment separately.

Results

45 MPH achieved minimum speed 100% of the time during peak periods, and exceeded the required speed 90% of the time during peak periods.

83% of customers said they would recommend the 110 Express Lane.



“We need to update our parking technology in order to meet the needs and demands of the City.”

The City of Indianapolis

An Innovative Parking Program



Solution


Created a public-private partnership and implemented sustainable parking technology, providing motorists with a variety of convenient payment options.

Results

\$1M Total net municipal revenue growth within the **first year** of operations.

\$2.4M Total net municipal revenue growth in the **second year** of operations.





“We need to create a unified transit area with the long-term goal of covering the entire province.”

Société des Transports de Montréal

Seamless User Experience With Interoperable Ticketing

Solution


Built a combined (contactless and magnetic) ticketing solution and deployed it throughout the project area.

Results

5M Opus cards issued within 5 years

12% increase in ridership

18 Member operators participating



“We strive for continuous improvement so that we make the daily lives of TnG users simple and even more convenient.”

Abdul Karim Md. Lassim
CEO of Touch 'n Go Sdn. Bhd. Malaysia

Investing in the Future

Solution


Implemented a solution to increase interaction between systems and service providers and added an online portal.

Results

Increased efficiency of TNGSB's back office operations.

Minimized the risk of revenue leakage.

System is designed to prepare TNGSB for the future plan of multi-lane free flow tolling system.

A photograph showing the back of a person wearing a grey jacket and blue jeans, standing at a transit fare machine. Their hand is near the top of the machine, likely using a contactless payment method. The machine is dark blue with yellow accents. In the background, a train is visible.

“We’d like people to be able to travel easily around Nice, Cannes, Sophia-Antipolis, Menton and Grasse.”

The Department of Alpes-Maritimes, France

Interoperable Public Transport

Solution

Deployed a new contactless solution that complies with the latest French interoperability standards, modernizing fare collection by moving from paper tickets to contactless.

Results

1.1M People enjoy the unified travel area

780 validators and **40** portable readers/decoders



“We need to make the streets safer for cyclists by reducing the number of parking blockages.”

Northern Ireland Roads Service

Streamlined Violations Processing

Solution

Integrated Si-Dem/Si-Log solution; we manage enforcement centrally.

Results

140,000 tickets issued annually

65% reduction in illegal parking in urban locations

Higher collection rates for Southern Irish offenders

“When people have a plane to catch, or a friend or relative to meet, the last thing they need is to be delayed trying to find parking. Xerox has helped us meet customer expectations in a very busy environment.”

Guy Marguet, Project Manager Geneva Airport



Enhancing the User Experience

Solution

Connect the parking management system with the rest of the airport's computer systems.

Results

More complete and better passenger experience.

LPR enables high-speed exiting, lost ticket recovery and the ability to locate lost cars.

Parking can be pre-booked online.



“We’re looking for an operating structure that fulfills three objectives: road safety, fluidity of traffic, and environmental efficiency.”

The City of Lima, Peru

A Comprehensive Ticketing Solution

Solution

Designed and deployed a fully contactless ticketing system – the complete solution, from the equipment to the interoperable central system.

Results

450 Contactless validators

Geolocation-based automatic vehicle monitoring system

Interoperable central system

Intelligent Mobility Ecosystem

Improving Urban Mobility





The Road to Intelligent Mobility



37 billion

transit fare transactions
processed annually



200 million

and more public transport
tickets processed daily



5 billion

dollars in toll revenue
collected annually



31

Countries use our
solutions in transportation



50%

of electronic toll collection
processed in the US



#1

Worldwide rank in transportation
services to governments



16 million

parking violations
processed



10

Customer service centers
supporting 22 toll agencies

Why Xerox?

1

Intelligent Mobility Leader

Xerox: broadest portfolio of transportation solutions worldwide across:

Tolling
Mass Transit
Parking
Photo Enforcement

2

Intelligent Mobility Industry Knowledge

Best-in-class Back Office Platforms

Combined with flexible business models

3

Intelligent Mobility Innovation

Xerox: UMTRI partnership – M City Leadership Circle member

Developing Connected Vehicles and V2I communication
Data Analytics



 **WORK CAN WORK BETTER™** 

