CUBIC Transportation Systems

California Transportation Commission

Larry Yermack

MISSION

IN TRANSPORTATION:

we provide essential information and payments capability to allow agencies, operators and patrons to *increase efficiency and reduce congestion.*

Cubic is a global provider of integrated systems and services that *increase situational awareness and understanding* for transportation and defense customers worldwide. IN DEFENSE: we provide mission-critical information to *improve and sustain combat readiness* of U.S. and partner nation militaries worldwide.

2 CUBIC PROPRIETARY | Overview

BUSINESS UNITS

Cubic Transportation Systems

OVER 450 OPERATORS SERVICED THROUGH 20 REGIONAL BACK OFFICES

Cubic Global Defense





PRODUCTS AND SYSTEMS DELIVERED TO THE UNITED STATES AND 35+ ALLIED NATIONS COMPREHENSIVE RANGE OF EXERCISE AND TRAINING EVENTS SUPPORTED WORLDWIDE

Cubic Transportation Systems

WHO WE ARE

World's leading provider of **automated payment, ITS 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

Over **50** million passengers use Cubic systems daily

Over **\$50** million in revenues collected daily

Over **20** regional back-office systems in operation

Over **400** projects

- **40** major markets
- **5** continents

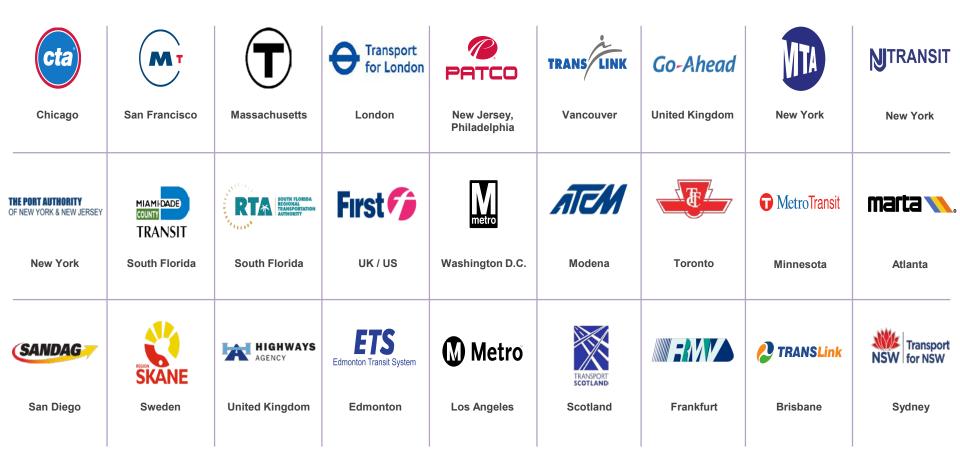
Over \$4.5 billion in contracts awarded

Over **2,400** employees worldwide

CUSTOMER FARE COLLECTION

1991	New York MetroCard	MetroCarl TIN	/16	Los Ange les TAP® Brisbage <u>go</u> card BART NFC Pilot	
1999	WMATA SmarTrip [®]	M Smartrip	2009	San Diego Compass Card Miami EASY® Card Modena, Italy	EASY Compass
2002	Chicago ChicagoCard™	Chicago Eard GI	2010	MTA CharmCard™ MTC Clipper® Card Skåne, So. Sweden	Comilar () () () () () () () () () ()
2003	London Oyster®	oyster	2011	So. Florida – EASY [®] Card PATCO Open Payment Pilot Google Wallet Acceptance	TRUE RALE TAN C RALE TRUE RALE
2004	BART EZ Rider	EZ RIdor	2012	Sydney Opal Card	
2005	Minneapolis Go To Card	go	2013	Chicago Ventra Card	
2006	MARTA Breeze™ RMV/KVV Mobile Ticketing		2014	London Future Ticketing Agreement Chicago Google/iPay Acceptance	
2007	PATH SmartLink sm PATCO FREEDOM [®] Card	SMARTLINK	2015	Vancouver Compass Card Ventra App	

MAJOR CUSTOMERS



NextCity[®] Intelligent Travel Made Real[®]

THE WORLD TODAY

- Growing populations
- Increasing urbanization
- Efficient transport networks are critical

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THE WORLD TODAY

- Demand has to be predicted and managed
- Behaviour change through incentivization
- Real integration is needed *but how?*

THE WORLD TOMORROW

- A clear and whole picture of the transportation network
- More informed travellers
- Equitable charging based on use and mode

THE WORLD TOMORROW

- Real-time and dynamic information
- Effective incident and crisis management
- Convenience of a single mobility account





CUBIC PROPRIETARY | Overview

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VISION

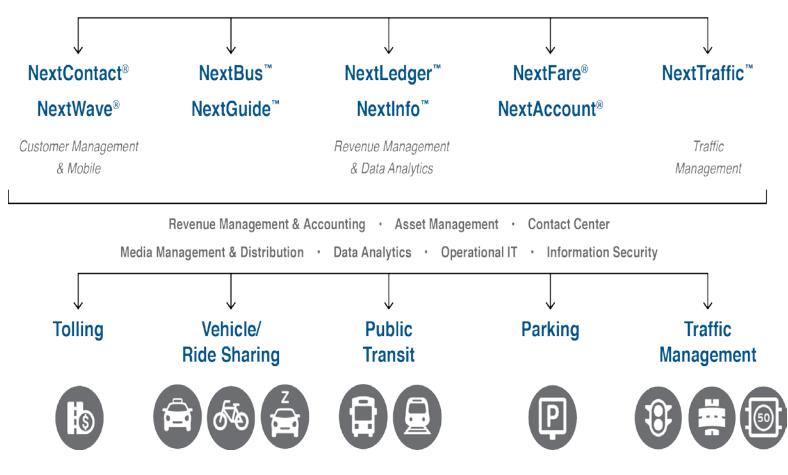
- One Payment Account, All Modes
- Personalized and Pushed Traveler Updates
- Smarter, Real-Time Journey Planning
- Integrated Pricing ("Super Day Pass")
- Real-Time Integrated Use Information
- Dynamic Information and Price Updates
- Trended, Integrated Data Analytics
- Leveraging Existing Assets





NextCity®ECOSYSTEM

Intelligent Travel Made Real®



THE VISION BECOMING REAL: LONDON



- World's largest and most complex multi-modal smartcard-based fare system – 12.4 million journeys every day including Oyster and contactless EMV bankcards
- 100+ million contactless bankcard journeys to date
- Open payments with Fare Capping; contactless bank cards and mobile smartphones. One payment media for all regional travel.



THE VISION BECOMING REAL: CHICAGO

- First Full-Scale Open Loop Roll-Out Accountbased system
 - Mobile Payment
 - Offered across modes and agencies
- Unique opportunity with a public and private partnership
 - 1st time in USA financing an AFC project of this scale
- Ventra Card
 - 1.6 million taps on average weekday
 - >1.1 billion transactions (thru 18 May 16)
- Ventra Mobile App
 - (From 19 Nov 15 to 18 May 16)
 - >415k downloads; 100% app availability
 - >1.1 M commuter rail ticket orders
 - Sales >USD 28.5 million



THE VISION BECOMING REAL: SAN FRANCISCO

- Clipper[®] is the regional smart card system linking all transit systems in the San Francisco Bay Area
- More than one million passenger trips daily by BART & MUNI combined
- Section 132 pre-tax commuter benefits
- NextBus[™] has been providing real-time arrival information since 2002
- Cubic ITMS is the technology provider for SFpark
- Potential expansion opportunities sin managed lanes, ICM, on-street and off-street parking, events





FOUNDATION FOR INNOVATION

- Intelligence moves from reader \bullet to back-office
- Move to multiple payment sources and account based proposition
- All payments integrated ۰
- Data is transmitted and used instantly
- Travelers & devices permanently connected





THE BENEFITS

- Increased traveler convenience ٠
- Better informed travelers ٠
- Reduced (shared) costs \bullet
- Richer patronage information ۲
- Dynamic fare structures •
- Demand management \bullet
- Incident and crisis management \bullet

