Transportation Growth in the 21st Century

Transportation Conference 2015
January 28, 2015
Vancouver Hilton Metrotown Hotel
6083 McKay Avenue, Burnaby
ACEC-British Columbia is pleased to join the BC Ministry of Transportation and Infrastructure, and TransLink in welcoming you to Transportation Growth in the 21st Century – a one day conference focusing on future trends and topics in BC’s transportation sector.

Growing and changing patterns of population density across the province are creating new challenges and opportunities for BC’s transportation industry. We will look increasingly towards new models for financing and delivering critical infrastructure, while new strategies and technologies will be employed to manage transportation growth.

Transportation Growth in the 21st Century will look at the major transportation plans, projects and initiatives across the province to meet these many challenges, strengthen the economy and enhance the well-being of British Columbians.

ACEC-British Columbia members, BCMOTI and TransLink have worked collaboratively on numerous projects across the province. Transportation Growth in the 21st Century will take a closer look at the future plans to meet BC’s growing transportation needs, and the key trends that will lead the way. We thank our conference sponsors for their support.
Welcome from the Conference Chair

Pat Cruickshank, P.Eng., Chair, 2015 Conference Organizing Committee

Each year's Transportation Conference proves to be a premier transportation industry event here in British Columbia, and this year's Transportation Growth in the 21st Century theme is no exception. Each year this conference grows in interest thanks in no small part to the collaboration of ACEC-British Columbia, BC Ministry of Transportation and Infrastructure, and TransLink, the professional enthusiasm of the Organizing Committee, and partners who host our very interesting morning tours. Our construction-phase tour of the Evergreen Line Project provides us with a very relevant conference opening.

As we developed the current program, the Organizing Committee considered current trends in policies and financing of transportation infrastructure, and brainstormed to develop a suite of activities and speakers that were most qualified to represent the conference theme. Thank you to each of the presenters for their time, effort and commitment in sharing their exciting projects and initiatives with us.

The outstanding success of this event is highly due to the diligent and professional efforts of the organizing committee, whom I am proud to represent and soundly thankful for. On behalf of the organizing committee, thank you for your attendance.

Pat Cruickshank, P.Eng.
Chair, 2015 Conference Organizing Committee

Conference Program

7:30 am Registration and Breakfast Crystal Ballroom
8:00 am Welcome and Introductions
Pat Cruickshank, P.Eng., Parsons Canada Inc., Conference Chair
8:15 am The Evergreen Line – Tour Preview
Kevin Richter, P.Eng., Assistant Deputy Minister, Infrastructure and Major Projects Department, BC Ministry of Transportation and Infrastructure

The Evergreen Line will be a fast, frequent and convenient SkyTrain service, connecting Coquitlam City Centre through Port Moody to Lougheed Town Centre in approximately 15 minutes. It will connect without transfer to the current SkyTrain network at Lougheed Town Centre Station and will integrate with regional bus and West Coast Express networks. Kevin Richter will provide an overview of the Evergreen Line project, progress to date and a preview of some of the sites you’ll see on the morning bus tour.

9:00 am Tour departs
The Metro Vancouver Transportation and Transit Vote

Michael Buda, Interim Executive Director, Mayors’ Council on Regional Transportation

Metro Vancouver will grow by one million people in the next 25 years. Our region is congested now and will get worse if we fail to act.

Metro Vancouver mayors have agreed on a plan that meets the needs of the region today and into the future. This spring the region will face a critical choice in a regional referendum – whether to support the Mayors’ Plan through a dedicated 0.5% sales tax in Metro Vancouver.

This session will present the choice facing the region and what we know so far about the lead up to and during the voting period this spring.

Three Extraordinary Facts – and what they mean for our future

Gordon Price, Director of the City Program, Simon Fraser University

Gordon Price keeps a small file called ‘Extraordinary Statistics’ – stuff so hard to believe that hardly anybody does. And three of them not only tell us a lot about what has happened to transportation in Metro Vancouver but, more importantly, what they might mean for our future.

Refreshment Break

Following the break, delegates may proceed to the stream presentations which begin at 3:00 pm.

The streams will take place in the following rooms:

Stream A: Waterford Room I & II (Level Three, same as the Crystal Ballroom)
Stream B: Tiffany Ballroom (Level Two, one level below the Crystal Ballroom)
**Moderator: Borg Chan, P.Eng., ISL Engineering & Land Services Ltd.**

### Road Pricing

**Don Murphy, P.E., Associate, IBI Group, San Diego**  
**Samuel Johnson, Director of Operations, San Diego Association of Governments (SANDAG)**

The San Diego Region was one of the first areas in the US to experiment with roadway congestion pricing. Road pricing started in San Diego in 1996 as a simple pricing experiment along a two lane reversible HOV section to make use of underutilized capacity. The facility and pricing concepts were expanded by a $1.4B (US) project that created the 20 mile long I-15 Express Lanes facility. The success of this effort has led to the San Diego Association of Governments (SANDAG) and the California Department of Transportation (Caltrans) initiating a regional expansion of managed lane/HOT lane facilities along most major freeways in the region. This presentation will explore the pricing concepts and key lessons learned by the San Diego Region in the development of managed lanes.

### Financing Case Studies from Other Jurisdictions

**Dr. Michael Goldberg, Professor and Dean Emeritus, Sauder School of Business, University of British Columbia**

Numerous key global urban regions have enjoyed great success in financing their transportation infrastructure. Hong Kong and Singapore will be cited specifically and their approaches have been widely applied fruitfully in other major urban centres around the world. The presentation distills these into a number of key elements that seem to be closely tied to these successful financing efforts.

### Public Private Partnerships

**Amanda Farrell, President & Chief Executive Officer, Partnerships BC**

Amanda Farrell, President and CEO of Partnerships BC and Executive Project Director of the Evergreen Line Rapid Transit Project, will speak to the partnership program in British Columbia. Farrell will outline the factors that contribute to the successful implementation of public private partnerships and discuss the innovations that have been realized through this approach. Her presentation will focus on transportation and transit projects that have been and are being delivered using the partnership delivery model.

### Transit-Oriented Development

**Guy Akester, Real Estate, TransLink**

Taxation based developer funding in the Lower Mainland is at a high level. Guy Akester gives an overview of major infrastructure funding (new stations, rolling stock), and minor infrastructure funding (plaza space, station upgrades, vertical circulation, etc.) by developers. He outlines the approach to development review so as to enable this, and looks at the distribution of development investment across Metro Vancouver.

### Stream A Panel Discussion

Following the panel discussion, delegates may proceed to the foyer in front of the Crystal Ballroom for a reception, beginning at about 5:00 pm.
Managing Growth - An Integrated Solution

Manuel Achadinha, President & Chief Executive Officer, BC Transit

BC Transit's President and Chief Executive Officer Manuel Achadinha will provide an overview of BC Transit, its strategic plan and the ways in which the organization is working with its partners to plan and implement more integrated transportation networks for the future.

Meeting the Needs of a Growing Region – The Mayors’ Plan for Transportation Investments

Tamim Raad, Director of Strategic Planning & Policy, TransLink

Metro Vancouver will grow by one million people in the next 25 years. Our region is congested now and will get worse if we fail to act.

Metro Vancouver mayors have agreed on a plan that will cut congestion by providing improved transportation choices throughout Metro Vancouver including improved bus service, new B-Lines, new and upgraded rapid transit, road improvements and expansion of the cycling network. This Plan will be put to a public vote in the spring of 2015 through a referendum.

Learn more about the Mayors’ Plan: what are the investments? How much do they cost? How will it be funded? What does it mean for the economy, environment and communities?

Managing Truck Traffic Growth at Port Metro Vancouver

Peter Xotta, Vice President, Planning & Operations, Port Metro Vancouver

Port Metro Vancouver has spent the past few years focusing on the efficiency, reliability and long-term sustainability of its container trucking sector.

Join Peter Xotta as he provides an update on Port Metro Vancouver’s Smart Fleet trucking strategy, as well as recent far-reaching reforms that are expected to bring stability to the port’s drayage sector and a level of sophistication not seen in other ports.

The George Massey Tunnel

Geoff Freer, Executive Project Director, George Massey Tunnel Replacement Project

The George Massey Tunnel connects to key trade gateways and is a vital commuter and goods movement route that fuels our economy.

Metro Vancouver’s population and economy have grown considerably and are forecast to continue to grow over the next 30 years. Without improvements to this river crossing, economic growth and regional liveability will be constrained by congestion and increased travel times for commuters, goods movers, commercial and other traffic.

Geoff Freer will outline the rationale for and benefits of constructing a new bridge to replace the Tunnel.

Stream B Panel Discussion

Following the panel discussion, delegates may proceed to the foyer in front of the Crystal Ballroom for a reception, beginning at about 5:00 pm.
Reception

Foyer outside Crystal Ballroom

Deputy Minister’s Awards Dinner

Crystal Ballroom

The Deputy Minister’s Consultant Awards recognize excellence in the provision of consulting engineering services in the categories of:

- Design & Contract Preparation – Roads
- Design & Contract Preparation – Structures
- Construction Management and Supervision
- Specialized Engineering Services
- Transit & Related Projects

The evening begins with a welcome by ACEC-British Columbia Chair, Catherine Fritter, P.Eng. Following dinner, Dave Duncan, Assistant Deputy Minister, Highways Dept., BC Ministry of Transportation and Infrastructure will introduce Deputy Minister Grant Main and Dirk Nyland, P.Eng., Chief Engineer, Engineering Branch, who will present the Awards.

Conference presented by:

- Grant Main
  Deputy Minister, BC Ministry of Transportation and Infrastructure

- Dave Duncan
  ADM, Highways Dept., BC Ministry of Transportation and Infrastructure

- Dirk Nyland, P.Eng.
  Chief Engineer, Engineering Branch, BC Ministry of Transportation and Infrastructure
Manuel Achadinha, President & Chief Executive Officer, BC Transit

Mr. Achadinha assumed the role of President and CEO in 2008. Since his tenure began, annual revenue and ridership have grown to over $261 million and 51 million passengers, respectively. In his 20 plus year career, Mr. Achadinha has built a reputation for his strong work ethic, results-oriented drive and an ability to forge and maintain strategic alliances.

Mr. Achadinha represents BC Transit with riders around the province, as well as partners, businesses, government leaders and other key external groups. He is focused on BC Transit’s sustainability efforts and is committed to leading the growth of transit-oriented communities across the province.

Mr. Achadinha attended the University of Victoria and received a bachelor's degree in economics and a master of public administration.

Guy Akester, Real Estate, TransLink

Guy is responsible for the real estate portfolio at TransLink which includes retail, parking, telecom, commercial partnerships, acquisitions, and surplus land sales. In addition to this, he has responsibility for development approvals and joint ventures for projects with close proximity to SkyTrain and transit assets.

After many years with Colliers in Vancouver, Guy spent 10 years based out of Toronto, London, Shanghai and then Hong Kong doing real estate portfolio management for companies such as Goldman Sachs, FedEx and Bank of America Merrill Lynch. He returned to Vancouver with TELUS in late 2009 to manage their global real estate portfolio and where he put together the 1 million square foot TELUS Garden mixed use project here in Vancouver.

Guy received his B.Com from The University of Victoria and his MBA from The University of Edinburgh.

Michael Buda, Interim Executive Director, Mayors’ Council on Regional Transportation

Mike joined the Mayors’ Council on Regional Transportation in September, 2014, as its Executive Director, to help the mayors’ deliver on their plan to fight congestion and improve transit and transportation in the Lower Mainland. He recently moved back to British Columbia after 10 years in Ottawa where he was the Director of Policy & Research for the Federation of Canadian Municipalities.

Mike has a Master's in Public Administration from the University of Victoria, and has worked for municipalities in Greater Victoria, as well international NGOs in Vancouver, Toronto and Sydney, Australia.
Amanda Farrell, President & Chief Executive Officer, Partnerships BC

Amanda Farrell is President and Chief Executive Officer at Partnerships BC. Amanda leads the company’s efforts to improve customer service and business development and build on relationships with service providers, and current and future clients. She continues to lead the Evergreen Rapid Transit Line Project.

Amanda joined Partnerships BC in November 2004 and has held positions in a number of sectors since then. Most recently, Amanda held the position of Vice President, Projects responsible for supporting the high-quality delivery of planning, procurement, and contract management advice and support to clients in the development of major public infrastructure projects.

Prior to joining Partnerships BC, Amanda gained extensive public policy and operational experience with the Ministry of Defense in the UK.

Amanda holds a Bachelor of Sciences from the University of Reading, followed by postgraduate research at the University of Bath.

Dr. Michael Goldberg, Professor and Dean Emeritus, The Sauder School of Business, University of British Columbia

His career spans four plus decades. Joining UBC in 1968 after his PhD (Economics - University of California – Berkeley), his research explored cities, transportation, housing and land use systems and their competitiveness in the global economy. He is a Past Fellow of the Urban Land Institute, an Honorary Life Member of the Real Estate Institute of BC and the Mortgage Investment Association of BC.

He is a director of: the Canada Pension Plan Investment Board; Resource Works BC; and Vankic China Real Estate Fund LP. He Chairs the Surrey City Development Corporation and is an Investment Committee member of WorkSafe BC.

Dr. Goldberg has wholly or partly authored 9 books, 200+ academic and professional articles, and lectured at 50+ universities and institutes in 16 countries.

Samuel Johnson, Director of Operations, San Diego Association of Governments (SANDAG)

Samuel Johnson is the Director for SANDAG's Operations Department and part of the Executive Management team. He is a graduate of San Diego State University where he earned a Bachelor of Science degree in Business Management Accountancy. Samuel is responsible for strategic planning, implementation and operations of the region’s tolling programs and facilities as well as motorist aid programs. His role focuses on business development and cost efficiency by using advanced technologies, partnerships and innovative business models that deliver improved mobility.

Mr. Johnson previously led SANDAG’s Intelligent Transportation Systems program and has over 17 years of experience in the technology field. He sits on the Board of Directors for the International Bridge Tunnel and Turnpike Association, the Alliance for Toll Interoperability; and the California Toll Operators Committee.
**Don Murphy**, P.E., Associate, IBI Group (San Diego)

Mr. Murphy is an Associate in IBI Group's San Diego office with over 20 years of experience in transportation systems development, design, and deployment. His particular areas of expertise included managed lanes, tolling/congestion pricing, intermodal data fusion and management, and fleet management systems. He has been involved with SANDAG's congestion pricing, ITS, and managed lanes development efforts since their inception with the early pricing pilot project on I-15 through the development of the I-15 Express Lanes. He recently supported the San Diego Regional Managed Lanes Study and the Trucks on Managed Lanes Assessment. He is currently the ITS consultant project manager for the proposed new Otay Mesa East/SR-11 border crossing which would apply value pricing to US/Mexico Port of Entry.

**Gordon Price**, Director of the City Program, Simon Fraser University

In 2002, he finished his sixth term as a City Councillor in Vancouver, BC. He also served on the Board of the Greater Vancouver Regional District (Metro Vancouver) and was appointed to the first board of the Greater Vancouver Transportation Authority (TransLink) in 1999.

He also represented the City of Vancouver on the Vancouver Parking Corporation Board for several terms.

He has spoken at numerous conventions and conferences in many countries, writes a monthly column for Business in Vancouver on civic issues, and conducts tours and seminars on the development of Vancouver. He also blogs on urban issues, with a focus on Vancouver, at “Price Tags” (www.pricetags.wordpress.com), and occasionally publishes an electronic magazine, also called “Price Tags,” highlighting a city or issue. (all 111 issues available at http://pricetags.wordpress.com/pdf-archive/ )

Gordon is a regular lecturer on transportation and land use for the City of Portland, Oregon and Portland State University.

**Tamim Raad**, Director, Strategic Planning and Policy, TransLink

Tamim is Director, Strategic Planning and Policy at TransLink where he plays a leadership role in shaping the region's transportation system and building better communities. He directs TransLink's long range strategic planning programs including regional policy, system pricing, major road and transit investment, and the development of TransLink's long range strategies and ten year investment plans. He recently provided leadership for the development of TransLink's Regional Transportation Strategy and the Mayors' Council's Vision for Regional Transportation Investments.
Kevin Richter, P.Eng., Assistant Deputy Minister, Infrastructure and Major Projects Department, BC Ministry of Transportation and Infrastructure

Kevin was appointed Assistant Deputy Minister, Infrastructure & Major Projects Department, for the Ministry of Transportation and Infrastructure on October 5, 2010 and has been with the Ministry for the past 22 years. Prior to that, Kevin received his Master’s degree in Engineering and worked in the mining, oil and gas and consulting engineering industries.

Since starting his career with the Ministry, Kevin has worked in many communities throughout rural British Columbia and has had the opportunity to be involved in a diverse array of engineering, operations, and management experiences. Relationships fostered during that time have made a dramatic impact on his perspective and understanding of issues across the province and has deepened his appreciation for the incredible contributions of contractors and consultants across the province.

Peter Xotta, Vice President, Planning & Operations, Port Metro Vancouver

In his role as Vice President, Planning & Operations, Peter is responsible for PMV’s long term planning, operations, security, and trade development activities. Peter joined Port Metro Vancouver in 1995, and has held diverse portfolios including business development and leading strategic port projects.

Peter’s experience at PMV has included acting a President of Modalink Distribution Hub Ltd, a multi-modal logistics facility in South Richmond, BC and a 50% PMV joint venture. He is the former Chair of Canada Place Corporation, a wholly owned subsidiary of PMV, and currently sits on the board of the Asia-Pacific Skills Table, Crossroads Hospice Society. Peter is also an active mentor in the Simon Fraser University MBA program.

Peter has an MBA from Simon Fraser University's Segal Graduate School of Business.
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Conference Organizing Committee
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