

Panelist



SNC • LAVALIN



Kevin Vokey, P.Eng

Director, Rail Systems

SNC-Lavalin, Inc.

Experience in:

- **Planning, Design, & Construction**
- **Tramways, LRT's, Metro's, Heavy Haul**
- **Design-Bid-Build, Design-Build, P3**



SNC-Lavalin at a Glance

OUR MISSION:

*Contributing to the success of our clients
through value-added services and
continuous improvement*



- **Largest E&C firm in Canada**
 - Providing Study, Design, Project Management, Construction & Operations and Maintenance
- **Global leader in project delivery with worldwide project experience**



SNC-Lavalin

Capabilities & Services

Diversified Range of Industries & Expertise

Infrastructure



- Railways
- Roads
- Ports & Marine
- Mass Transit
- Airports

Operation & Maintenance

- Infrastructure
- Industrial
- Remote Camps



Environment
Chemical & Petroleum
Power
Telecommunication
Mining & Metallurgy



Infrastructure Concession Investment
Agri-Food
Industrial
Pharmaceuticals
& Biotechnology



Design-Bid-Build Model

Owner's Preferences & Experience

Consultant's Design & Oversight

Contractor's QMS

Owner's Acceptance

High Sensitivity to Individual Budgets

Highest Owner Financial Risk

Design-Build Model

Owner's Specifications

DB Contractor:

- Design
- Construction
- QMS
- Warranty

Owner's Acceptance

Motivation to Solve Construction Issues with Engineering Solutions

Reduced Owner Risk

P3 Model

Owner's Stated Needs

Concessionaire:

- Internal WBS
- Life-Cycle Cost
- Risk

Owner's Inheritance

Motivation to Assure O&M Cost

Minimized Owner Risk



Recent Projects



SkyTrain Millennium Line

- Vancouver, BC Canada
- 20.3 km Extension to Existing 28.9 km System
- 13 Stations + Depot Expansion
- Design-Build Model
- Revenue Service: January 2, 2002



Calgary C-Train

- **Calgary, AB Canada**
- **4 Extensions to the Existing NE & NW Lines**
- **Design-Bid-Build Model**
- **Conventional LRT, Manual, Ballasted Track**
- **Extensions Opened: 2003, 2007, 2009, 2014**



Canada Line

- **Vancouver, BC Canada**
- **19.2 km Stand-Alone System**
- **16 Stations, Dedicated OMC**
- **Public-Private-Partnership (P3 DBFOM) Model**
- **Revenue Service: August 17, 2009**



Reims Tramway

- Reims, Champagne-Ardenne, France
- 11 km Stand-Alone System
- 23 Stops, Dedicated OMC
- P3 DBOM Model
- Revenue Service: April 18, 2011



Calgary West LRT

- **Calgary, AB, Canada**
- **8.2 km Extension to the C-Train Network**
- **6 Stations**
- **Design-Build Model**
- **Revenue Service: December 10, 2012**



Metro Line

- **Edmonton, AB, Canada**
- **3.3 km Extension to the Edmonton LRT Network**
- **3 Stations, Mined Tunnel, DF and Embedded**
- **“CM At-Risk” Model**
- **Opening: Winter 2014**



Evergreen Line

- **Vancouver, BC, Canada**
- **10.9 km Extension to the SkyTrain Network**
- **6 Stations, Satellite VSF**
- **Design-Build Model**
- **Opening: 2016**



Confederation Line

- **Ottawa, ON, Canada**
- **12.5 km Low Floor LRT System**
- **13 Stations & Dedicated OMC**
- **DBFM Model with Operation by OCTranspo**
- **Opening: 2018**



