Planning for Better Transportation Outcomes: Lessons Learned from Vancouver and Chicago



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November 22, 2010



Foundations









Chicago's WEST SIDE SUBWAY

..... FIRST RAIL - TRANSIT FACILITY CONSTRUCTED WITHIN A SUPERHIGHWAY





















Academic Background

How can we leverage technology to better inform discussions about the future of our communities?

Monumental Core multimedia visualization for National Planning Commission (c.1992)



As described in:

Shiffer, M.J. (1995) "Interactive Multimedia Planning Support: Moving from Stand-Alone Systems to the World Wide Web," <u>Environment and Planning B: Planning and Design</u>, volume 22, pp. 649-664.

Automobile Level of Service Web-Based Multimedia Visualization Tool for US Federal Highway Administration(c.1996)



Urban mass transit web-based multimedia visualization tool for US Federal Transit Administration and USDOT Bureau of Transportation Statistics (c. 1996)



The Chicago Experience

Mass Transportation in Chicago

CTA- Buses & Rapid Transit for Chicago & 40 Suburbs

Metra- Commuter Rail

Pace- Suburban Buses



Transit Ridership Share











Chicago Transit Funding

- Transit Fare Products
- Sponsorship
- Advertising Opportunities
- Property Transfer Tax
- Sales Tax
- Senior Government Grants

RTA Funding Allocations...

2011 Budget - Operating Funding Allocation Chart (in thousands)



Chicago Transit Funding



Chicago Transit Authority Challenges

- Changing Customer Habits
- Shifting Land Use
- Manage Capacity
- Aging Infrastructure
- •Funding







Approach

- Create a systematic process
- Develop information infrastructure
- Develop human capital
- Support discourse by leveraging technology

Spatial Data Strategy

Develop a spatial data infrastructure...

- ✓ Where people live
- ✓ Where they work
- ✓ What their travel patterns are
- ✓ Facilities needed to serve them

Information Infrastructure



- Census Data
- Housing Data
- Land Use Data
- Aerial Orthophotos
- Route Infrastructure
- Schedule Information
- Spatially Intelligent Vehicles
- Performance
- Ridership Data
- Specialized Models
- Field Data



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Rail Ridership Information



Bus Navigation System



TCH – Operator Logon





CTA Bus Bunching Measures (circa 2006)



■ 0.0%-2.0% ■ 2.0%-4.0% ■ 4.0%-6.0% ■ 6.0%-8.0% ■ 8.0%-10.0%

Percent of bus intervals 60-seconds or less by date and half-hour for weekdays from July to Sept in 2006.

Automatic Passenger Counter (APC) Bus Ridership Tracking



New Forms of Visualization



d Help

Directions



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Image © 2008 TerraMetrics Image IndianaMap Framework Data Image NASA © 2008 Tele Atlas Streaming |||||||||| 100%

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Ridership/Revenue Fare Model

- Elasticity of Demand Model
- Combines Stated and Revealed Preference
- Allows many pricing scenarios to be explored

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Outreach through Workshops



Service Planning Success





✓ Changes to the South Lakeshore and North Lakeshore were implemented in Fall 2003.

✓ Annual ridership has increased by 4.6 percent for the South Lakeshore sub-region, and 5.5 percent for the North Lakeshore sub-region.

✓Travel times have decreased and customer satisfaction has improved.



Reconstruction of Infrastructure











Moving Forward in Metro Vancouver















Over 1 million more people by 2040





Regional Travel patterns

Traditional suburb to Downtown Travel (latter half of 20th Century)



Modern region to region Travel (21st Century)





2010 BUDGETED REVENUE



Total approx. \$1,146 Million

2010 BUDGETED EXPENDITURE



Recent Accomplishments



Using emerging technologies to **Leverage** our resources Expanding SkyTrain fleet by **48 new railcars**



Launching brand new SeaBus

Delivering more than 240 new buses

Fed-law stella for



Building **Coast** Meridian Overpass in Coquitlam

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Metro Vancouver Annual Transit Ridership

- Ridership increased 52% between 1998 and 2009
- Population increased by 15%



TRANS LINK

188 million transit trips



The Olympic Experience











Leveraging Resources

Steps Taken to Leverage Existing Resources







 Buses serve as important data collection devices

Steps Taken to Leverage Existing Resources





APC equipped buses record passenger activity by stop, trip, time period, etc



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Planning

Planning Framework



TransLink's Long Range Plan



TransLink's Long Range Plan

Future vision of Transport 2040

GOAL 1 - Greenhouse gas emissions aggressively reduced.

GOAL 2 - Most trips are by transit, walking and cycling

GOAL 3 - Most jobs and housing located along frequent transit network

GOAL 4 - Traveling is safe, secure, and accessible for everyone

GOAL 5 - Economic growth and efficient goods movement are facilitated

GOAL 6 - Funding is stable, sufficient and influences choices.





Planning Approaches


Frequent Transit Network (FTN)

- At least every 15 min throughout the day; 7 days/week
- Framework for a conversation around transit and land use coordination





Frequent Transit Network

Transit Service Type	Examples	
FTN Limited Stop w/exclusive ROW	Fixed Guideway Rapid Transit Lines Nodal Development 800M (half mile) Catchment	
FTN Limited Stop	Limited Stop Bus Lines Nodal Development 600M (3 block) Catchment	
FTN Local Stop	Trunk Line Frequent Bus Routes Linear Development 400M (2 block) Catchment	
Local Stop	Local Bus Routes No Specific Development 400M (2 block) Catchment	

Area Transit Plans



DEMOGRAPHICS AND DEVELOPMENT

Area Transit Plans:

- Created with the formation of TransLink
- Provide more local involvement in transit planning
- Recognize regional differences and informs regional plans
- Create a vision for the future



More strategic approach to land use and transportation

- 1) Supply-side (transit provision)
 - Frequent Transit Network (FTN)
- 2) Demand-side (land use shaping)
 - Partnerships w/ municipalities on transit-oriented land use planning and development





Transit-Oriented Communities in Metro Vancouver

Transit-Oriented Communities:

- are places that facilitate a decreased reliance on driving by focusing:
 - higher-density development,
 - diversity of uses, and
 - pedestrian-friendly design,
 - within walking-distance of frequent transit
- are really pedestrian-oriented communities connected by transit!



Transit-Oriented Communities in Metro Vancouver

What are the Benefits?

- More cost-effective transit service
- Higher quality transit service
- Improved public realm & livability







Passenger Facility and Community Design Guidelines



Rapid Transit Studies

Rapid Transit Studies

Need careful analysis:

- Long lead times
- Capital intensive
- Conversation about regional priorities:
- Advancement criteria to consider transitsupportive land-use potential



Enhancing Core Carrying Capacity: The Expo Line Upgrade Study



Serving Existing Need: The UBC Line Study



Rapid Transit Studies

Defining Problems

Existing transit services in the Corridor do not provide sufficient **capacity** or a **reliable service**

- Frequent pass-ups
- Unpredictable journey times
- Passenger experience







Central Broadway:

- 58,000 jobs
- 35,000 residents

UBC :

- 6,500 residents
- 19,000 jobs
- 60,000 daytime population (students, faculty, staff)



Source: Metro Vancouver Regional Growth Strategy draft 2009

Shape Land Use: The Surrey Rapid Transit Study

84% of trips by car between seven urban centres



Support significant growth in Surrey Metro Centre and other urban centres Enhance Economic Competitiveness

Stimulate economic development and job access

Shape Future Land Use

.. by encouraging transit-oriented development

Today

hills

Future

Diverse range of urban transport technologies











Multiple Account Evaluation

Economic development **Environmental Financial** Social community **Transportation** Urban development Deliverability



Alternatives Analysis of the rapid transit options









2011 Supplemental Plan

TransLink Priorities



Evaluation Framework & Process

- TransLink's plan evaluation process
 - Outcomes-driven, performance-based plan development
 - Will continue to apply to future supplements
 - Responds to input of Commissioner and stakeholders
- The evaluation of candidate projects includes two parts:
 - Effectiveness towards Transport 2040 Goals (i.e. reduced GHGs, mode share, complete communities, optimization, economic growth and goods movement, financially sustainable)
 - Priorities specific to a particular plan (i.e. significant lost opportunity if not activated in 2010 and that Leverage significant other funding)

Evaluation Criteria

Goal	Objective
GHGs Aggressively Reduced	Reduces Vehicle Kilometres Travelled (VKT)
	Improves system operations and efficiency
	Greater use of low emission fleet technology
	Greater use of low carbon content fuel
Non SOV Mode Share	Protects existing transit ridership
	Promotes shifts to transit, cycling and walking
	Encourages future shifts to transit, cycling and walking
	Influences smart transportation choices
Complete Communities	Encourages complete and transit-oriented communities
	Expands access to regional transit and cycling networks
	Promotes regional mobility

Evaluation Criteria

Goal	Objective
System Optimization	Encourages modal integration
	Improves the resilience of the transportation system
	Improves system safety
	Promotes universal accessibility
Economic Growth & Goods Movement	Supports efficient access to regional centres and economic gateways
	Reduces congestion
	Improves travel time reliability
Financially Sustainable	Maximizes leveraging opportunities
	Make efficient use of existing infrastructure
	Prioritizes cost-effectiveness
	Prioritizes long-term growth in cost-effectiveness

Evaluation Criteria

Goal	Objective
Significant Lost Opportunity if Not Activated in 2010	Leaves money on the table
	Dependence with other programs
	Significantly more expensive to do later
	Results in loss of passengers from the system
Leverages Significant Other Funding	Extent of capital contribution
	Impacts on operating costs
	Impacts on fare revenue
Makes Best Use of Existing Fleet & Infrastructure	Improves efficiency of existing assets
	Improves effectiveness in utilizing assets
Intensity of Previous Commitment	Nature of TransLink's commitment
	Importance of commitment to stakeholders

TransLink Funding Sources under SCBCTA Act

TAXATION	STATUS	
Fuel Tax	increased in 2010 to \$.15/L -AT LEGISLATED MAX	
Parking Sales Tax	Increased in 2010 to 21% -AT LEGISLATED MAX	
Property Taxes	Increase by 3% per year	
Hydro Levy	Remains at \$1.90/month/account -AT LEGISLATED MAX	
Replacement Tax	Remains at \$18M/yr -AT LEGISLATED MAX	
Benefitting Area Tax	Not implemented	
USER FEES	STATUS	
Transit Fares	Increased in 2010	
Transit Advertising	Opportunities currently maximized.	
New Facility Tolls	-AT LEGISLATED MAX	
Vehicle Registration Fee	Not Implemented	

Two Supplements



2011 Supplemental Plan and Outlook Transportation and Financial Supplemental Plan for 2011 to 2013 and Outlook for 2014 to 2020



For the purpose of the BC South Coast British Columbia Transportation Authority Act, this document contains a Transportation and Financial Supplemental Plan prepared in 2010 for the 2011 to 2013 period and Outlook for the 2014 to 2020 period. It approved by the Mayors' Council on Regional Transportation, this Plan, together with the 2011 transportation and Financial Base Plan (approved by the TransLink Board of Directors on July 15, 2010), will serve as TransLink's 2011 Strategic Plan. November 8, 2010 Approved for submission to the Mayors' Council on Regional Transportation and the Regional Transportation Commissioner. Delivering Evergreen Line and North Fraser Perimeter Road



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November 8, 2010

Approved for submission to the Mayors' Council on Regional Transportation and the Regional Transportation Commissioner.

Two Supplements

Moving Forward: Improving Metro Vancouver's Transportation Network		Delivering Evergreen Line and North Fraser Perimeter Road		
•	Evergreen Line	•	Evergreen Line	
•	NFPR Phase I	•	NFPR Phase I	
•	Bus Service Hours			
•	Station Upgrades			
•	MRN Minor Road Capital			
•	Cycling Capital Program			
•	67% funding from senior government and new ridership	•	68% funding from senior government	
•	Defers regional funding to 2012 to identify new funding source	•	Defers regional funding to 2012 to identify new funding source	
•	If property tax, impact on avg household:~\$62/yr or \$8.90/100K	•	If property tax, impact on avg household:~\$36/yr or \$5.25/100K	

Moving Forward: Improving Metro Vancouver's Transportation Network


Plan Benefits: Partner Funding

- Leverages significant funding from senior governments
- \$2.4 Billion in needed transit, road, and cycling capital and operating over the next 10 years

Revenue Distribution of Plan Funding (2011-2020 Expenditures)





Benefits of Moving Forward

- Retains federal funding
- Makes progress towards Transport 2040 Goals
- Accessibility and capacity improvements at stations
- Serves existing and new demand
- New service for growing areas of the region
- Provides funding to municipal road and bike programs that depend on TransLink for funding

Next Steps

- Regional Transportation Commissioner will review and provide comment
- Moving Forward on these investments requires Mayors' Council approval



Next Steps

Key Long-range Planning Initiatives Moving forward



Concluding Thoughts



- 1. Land on a vision and stick to it.
- 2. Integrated transport planning works better than intermodal competition when enhancing mobility (roads v. transit).
- 3. Conversations on expansion are well supported if you can demonstrate efficiency and effectiveness.
- 4. Transport can be used as an effective incentive for supportive Land Use and viceversa. Linking the two is important.
- 5. Evidence-based planning provides a critical foundation for political discussions.
- 6. Never underestimate the value of a political champion.



Thank you.

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