

#### **Presentation Overview**

- Background Information
- Goods Movement Challenges
- New Initiatives
- Previous Freight Studies
- Greater Vancouver Goods Movement Study

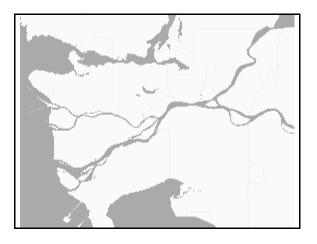








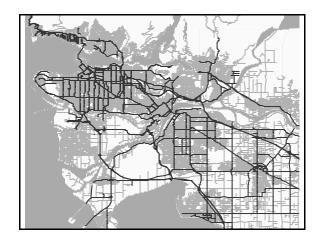




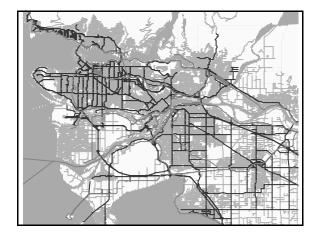




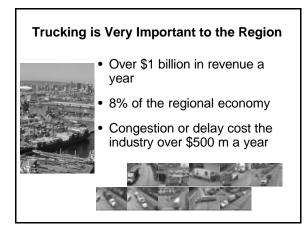


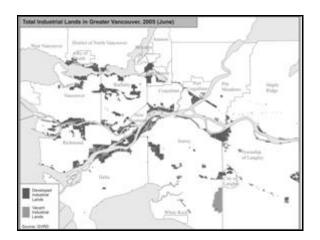


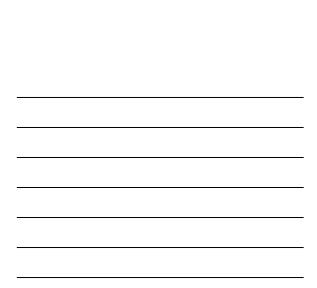


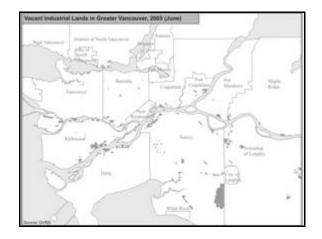














### **GVRD Industrial Lands**

- · 26,000 acres of industrial land
- 74% developed (19,200 acres)
- 26% undeveloped (6,800 acres)
- 80% of undeveloped located south of Fraser River
- Based on historical absorption rates (300-400 acres/year), adequate supply of industrial land until 2021
- Concern of a shortage of "well-located" industrial land



#### **Extended Gate Hours at Ports**

- Truck gates currently open 7am-4pm Mon-Fri
- Increase by 20% per year over next 5 years
- Make more efficient use of road system
  Spread out truck traffic to deliver during non-peak times
- · Reduces delays for trucks
- · Improves reliability
- Port has monitoring program



#### **Emissions Testing of Trucks**

- Aircare On-Road (ACOR) Program
- 38,000 HDV in Greater Vancouver (>5,000kg)
- 72% were diesel trucks
- Two emissions testing vehicles
- Snap-acceleration test
  Opacity test of emissions (smoke)



# ACOR Effectiveness

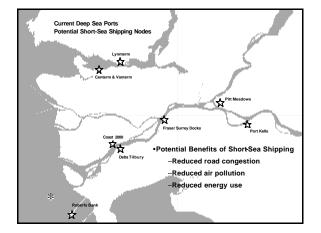
- <20% opacity
  - 62% of vehicles in 1995
  - 98% of vehicles in 2002
- Due to ACOR and engine control technology



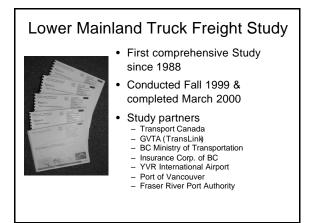
#### **Potential for Short-Sea Shipping**

- Vancouver ports handle 2 million TEUs annually
- Throughput is expected to triple by 2020
- 35% of port containers move by truck
- Current road network becoming more congested
- Potential for transport by tug and barge









# LMTFS - Study Objectives



- Provide a comprehensive data base of trucking movements for a typical day
- Quantify changes in truck movements since 1988
- Develop a truck demand forecast model



# LMTFS - Study Component

### 1) Four Truck & Traffic Surveys



Internal Survey + External Survey + Special Generator Survey

+

Traffic Counts & Classifications



2) Truck Demand Forecast Model

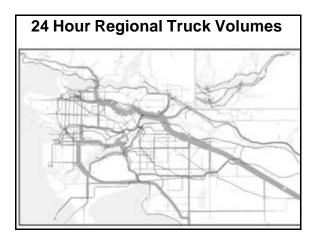
# What does the Study Tell Us?

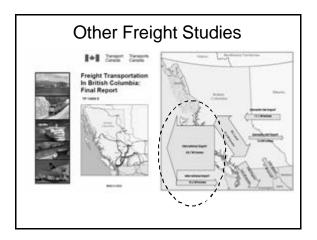


- 'Snapshot' of a typical Oct-Nov 1999 day
- Truck travel demand & origins and destinations
- Vehicle types & volumes at key locations

# **Regional Trucking Characteristics**

- Approximately 200,000 truck trips/day
- · 6% of all vehicle trips
- Trip Frequency
  - 10 trips/day for light trucks
  - 8 trips/day for heavy trucks
- Trip Length
  - 8.5 km light trucks
  - 15.8 km heavy trucks







# Greater Vancouver Goods Movement Study

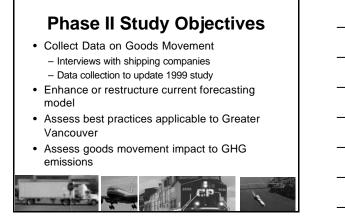
- Jointly funded by:
  - TransLink, Transport Canada, BC MoT, Greater Vancouver Gateway Council
- Two Study Phases:
  - Phase I: Environmental Scan and Scoping Study
  - Phase II: Data Collection and Model Development



# **Phase I Study Objectives**

- Answer key questions, e.g:
  - Who are the major players in the goods movement industry?
  - What are the dominant movement types and modes?
  - What is the value and economic impact of goods being moved?
  - What are some worldwide best practices?





# **Freight Initiative**

- Study will guide the development of Greater Vancouver Freight Initiative
- · Guide potential policy directions
- · Identify and prioritize investment strategies
- Ultimately improve efficiency of goods movement
- Favourably affect GHG emissions



