

Background

- Travel surveys: monitor travel behavior and support models
- Survey geography
 - 4-county Puget Sound Region
- Previous surveys
 - 1985-88 Origin-Destination surveys
 - 1989-2002 Puget Sound Transportation Panel
 - 1999 Household Activity Survey
 - 2006 Household Survey



Study Goals

- Develop a more complete assessment of current travel behavior
- Identify key drivers of transit use among current and potential transit users
- Establish the foundation for building better "choice" models
- Begin to define Transit Markets



Budget

- Partnership with Washington State DOT
- Total Budget: \$1,000,000

PSRC: \$600,000WSDOT: \$400,000

Overbudget on data collection



Timeline

Nov-Dec 2005 Planning, RFP

Jan-Feb 2006 Contract signed, survey design

Early March Pilot

Mar-Jun Fieldwork

Jul-Aug Preliminary report, data files

Sep Stated Preference

Oct-Dec Preliminary Analysis

Jan-Apr 2007 Review, final report



Study Components

Two-Day Activity and Travel diaries

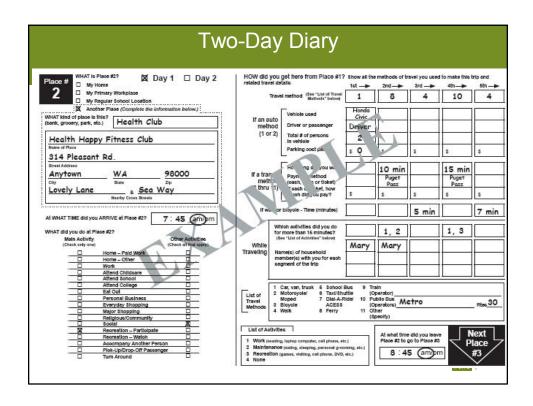
- Weekday only
- Households (4,700+)
- Persons (10,500)
- Trips (78,000+)

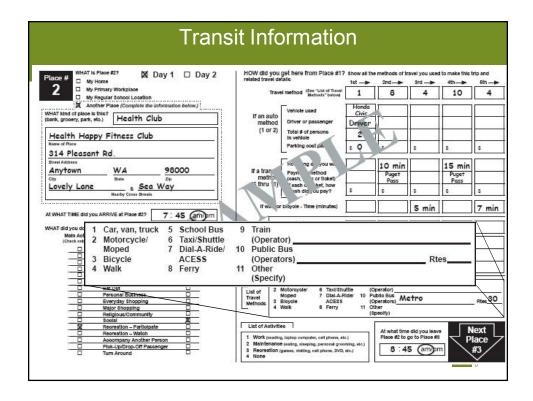
Follow-up Stated Preference Survey (900 persons)

- Transit mode choices/potential toll alternatives
- Attitudinal questions

GPS Tracking of auto trips (220 households)



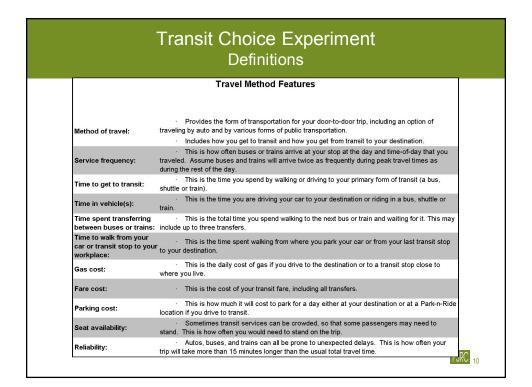




Stated Preference Survey

- Stated-preference Survey as a follow-up to the main Activity Survey
 - · 25 attitudinal statements
 - 4 Stated-preference choice tasks between car and transit options
 - 4 Stated-preference choice tasks between car tolled and nontolled options
- Attitudinal data used to segment the market along subjective dimensions.





Transit Choice Experiment Exercise 1 example **CHOICE EXERCISE 1** Suppose these were your transportation options for your trip from: a private home at 1001 QUEEN ANNE AVE N UNIT 501 In SEATTLE to a workplace at 9706 4TH NE In SEATTLE OPTION 2 OPTION 1 OPTION 3 You drive by yourself You walk to the RAIL system You walk to a BUS A stop from your trip origin to a parking place at or near your and ride to a stop at or near and ride to a stop at or near Method of travel your destination. your destination. destination. You transfer between transit vehicles 1 time. vehicles 1 time You walk from the parking place to your destination. You walk from the final transit stop to your destination. You walk from the final transit stop to your destination. Every 20 minutes Every 20 minutes Time in vehicle(s) 17 minutes Time spent transferring between buses or 15 minutes 12 minutes trains Time to walk from your car or transit stop 4 minutes 4 minutes 6 minutes \$0.00 \$0.00 Gas cost \$4.30 Fare cost \$2.00 \$2.00 \$4.00 \$0.00 \$0.00 Seat Availability: You will need to stand on the bus or train... Reliability: You will be more than 15 minutes late... Two times a month One time a week One time per month Two times per month One time per month 1 0110 11

GPS Subsample

- Conducted over 12-week period, concurrent with main survey.
- 150 GPS devices to 285 households with 518 different vehicles.
- Mail-out/mail-back GPS logger, easily installed by respondent.



Summary of Lessons Learned

- Sufficient planning, pre-testing
- Compatibility with earlier surveys
- Recruiting hard-to-reach populationsincentives
- Project management, cost overruns
- Geocoding issues
- Internal staff time



Questions?

Final Analysis Report:

http://www.psrc.org/data/surveys/hhsurvey/index.htm

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