Conducting On-Board Transit Rider Surveys with Electronic Handheld Tablets: An Agencywide Consolidated Approach

TRB 17-0449

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Presentation Focus

HISTORY
CENTRALIZED APPROACH
TECHNICAL FRAMEWORK
MANAGEMENT
SURVEY TEAM
CONCLUSIONS

Fall 2016 On-Board Survey

This fall, you may see TriMet staff surveying riders on board buses and trains. We're asking a series of questions about trip origin/destination, trip purpose, frequency of transit use, and your transit experience, as part of an ongoing research study that helps inform our programs and policies.

Starting in late October, TriMet survey teams will be hopping on buses, MAX and WES — even early in the morning and late at night — to get feedback from a wide cross-section of riders.

Surveyors will be working in groups of two to four, wearing blue vests labeled "TriMet Survey Team" on the front and back. They'll have TriMet badges with photos IDs, and they'll be carrying a handheld tablet and shoulder bag.

If you can spare a few minutes to help us out, we'd appreciate your feedback! The survey is completely anonymous, and your responses will help us learn more about how riders use the transit system, and help ensure that our services are fair and equitable.

What's in the survey?





Transit surveys are required for Title VI, FTA reporting, etc.

Research findings prompted pilot to test feasibility of tablets

First on-board survey using tablets: 2014-15 O&D Study

Significant savings resulted in dedicated FTE and new program

All on-board surveys now conducted with tablets and managed centrally in IT-GIS

HISTORY



Origin and Destination (O&D) Study

Short Survey Method

- Identifies on/off ridership patterns for sampling goals of long survey
- Surveyors scan QR codes with tablets at front & back doors



Long Survey Method

- Identifies detailed ridership behavior, including origin and destination geography, transfer rates, mode of access, and demographic information
- Surveyors capture data using tablets with pre-populated answers reducing completion time and increasing accuracy





Long Survey Questions

Section 1: To be filled out by surveyor

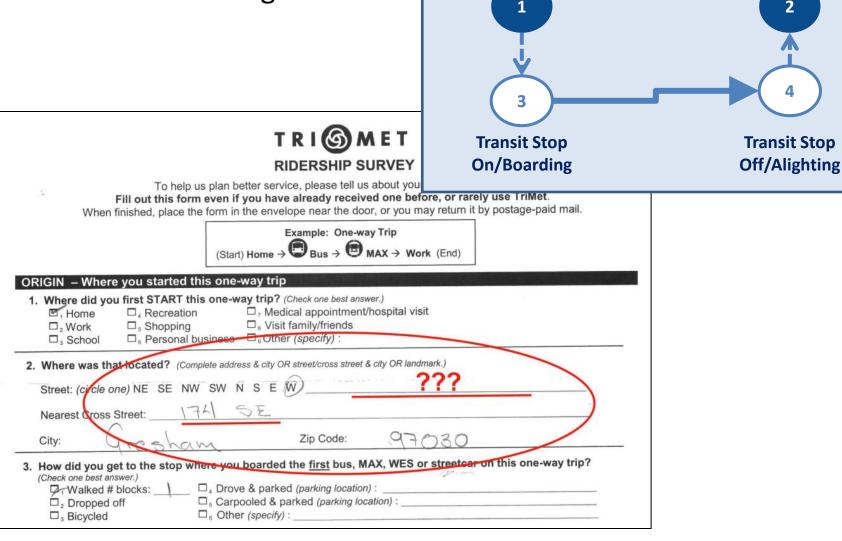
- Current Route Information
- Origin, Destination, and Transfer Information

Section 2: To be filled out by respondent

- Fare Type
- Prior trip history
- Major reason for using TriMet
- Driver's license
- Household: size, employment, vehicles, ethnicity, income



Paper Survey Challenges Address Geocoding



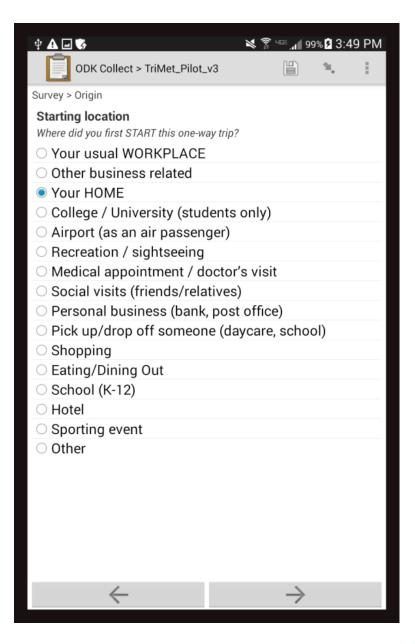
Trip Origin

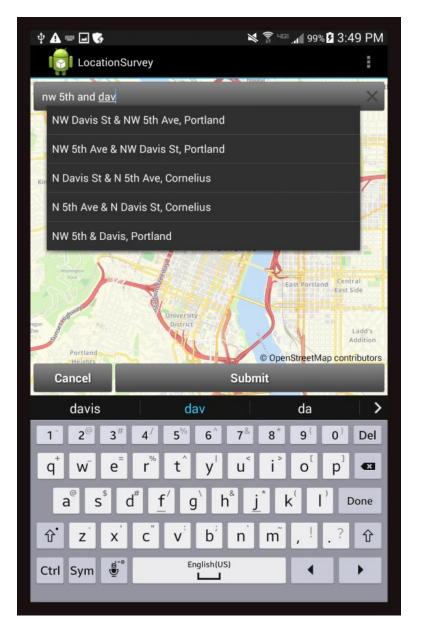
(home, work, school...)

Trip Destination

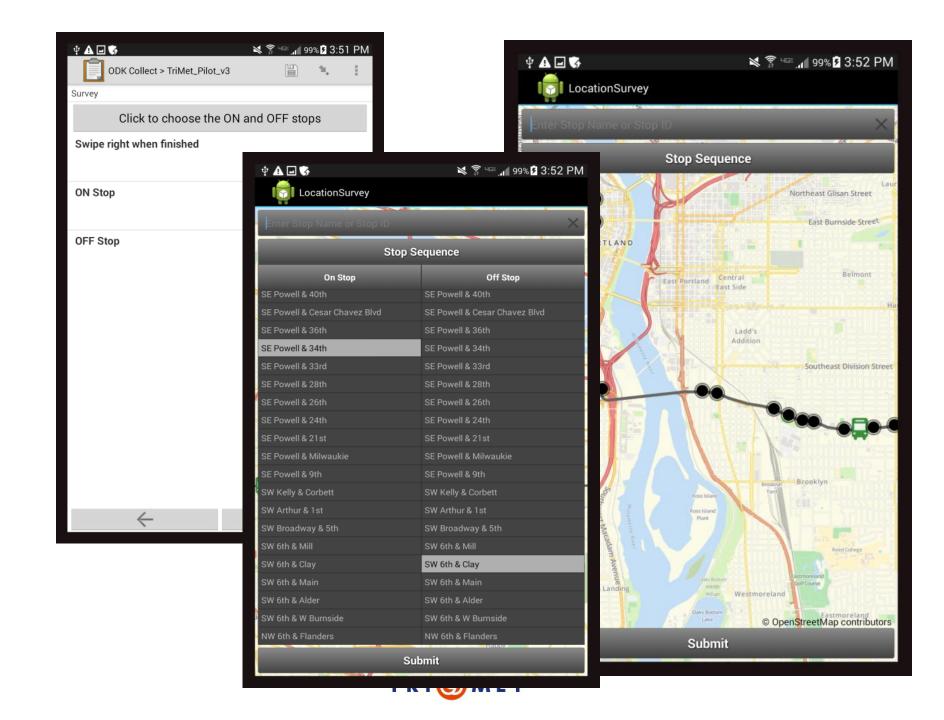
(home, work, school...)











Tablet Survey Challenges

Avoiding Bias

To avoid research bias with tablets, fielding practices need to be revised, as paper surveys are handed out to everyone.

For the O&D study, which was route-based, a random number generator on tablet was used to determine which rider to approach.

However, for the 2016 Spring Fare Survey project, as many people as possible were surveyed on each trip, with the data weighted against passenger counts from APCs.





AGENCY-WIDE SURVEY PROGRAM

Survey Program Managed by IT-GIS "Electronic Survey Developer and Analyst"

Responsibilities include:

- Collaboration with business units to identify survey requirements and formation of questionnaires
- Overarching oversight to ensure consolidation of surveys in support of agency-wide initiatives
- Technical and programming aspects involving mobile applications and devices
- Staffing, managing and scheduling aspects
- Post-data analysis and reporting functions
- GIS spatial database management, generation, and data distribution



Advantages of Centralized Approach

- Centralized budget consolidates resources and simplifies billing across multiple departments
- Eliminates redundancy and overlap between surveys
- Lowers overall costs and enables more ad-hoc surveys
- Internal business knowledge retained:
 - Capital Projects and Construction
 - Finance
 - Service Planning
 - Public Affairs
 - Operations
 - Information Technology
 - o GIS



Agency Surveys

2016-17 Winter

- Customer travel pattern change (churn rate)
- Customer satisfaction and experience
- Q&D
- Demographics
- Used for equity analysis, and planning and analysis purposes

Fare Fyasion

Fare

O&D Before and After Studies

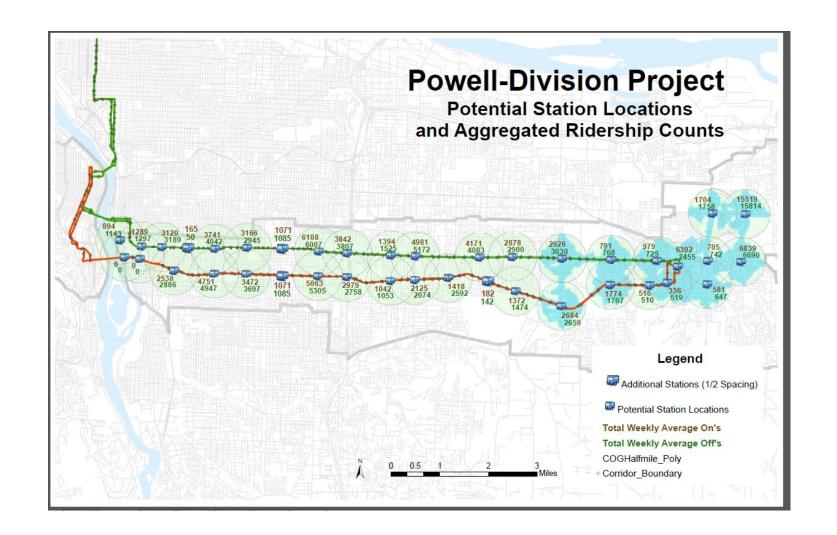
Operator Intercept

Sporting event surveys

APC validation

Ad-hoc surveys for planning and analysis





Materials and Services

Software

Database Design and Management (Postgres)

TECHNICAL FRAMEWORK

Materials & Services

Equipment and Peripherals

- Samsung Galaxy 8" tablet \$250
- Samsung Galaxy tablet case \$17
- Safety Vest \$25
- Reading Light with Clip \$8
- Tech Gear Bag \$8
- iRoller (liquid free, reusable touch screen cleaner for dirt and bacteria) - \$20
- Extra batteries were not necessary due to battery life of devices and shift hours

Cellular Service

- Android Tablets \$40/month
- Phone fees for supervisors \$37/month



Software

Open Data Kit (ODK) was selected based on requirements, costs and the ability to easily customize for various surveys. It is a collection of open source tools for survey design, collection, and data aggregation and is recommended by industry experts.

Code, etc. available on GitHub at: https://github.com/gis-survey

In-house developed Android apps integrated with ODK to capture the onoff stop information.

Communication & Management Tools:

- Trello -track materials; meetings; milestones; stakeholders; staffing; and tasks
- Google Docs shift scheduling and shared project documentation.
- Google Groups -communication between surveyors and management



Sampling
Dashboard Monitoring
Pilot Testing

MANAGEMENT

Management of Sampling

- Extensive training
- Scheduled group meetings with surveyors
- Field supervision
- On-board monitoring of interviewer performance
- Dashboards: real-time report monitoring

Dashboard – Surveyors

On-Off Dashboard

Route: 4-Division/Fessenden -Direction: All ₩ Surveyor: All ▼

Download

| Date | Time | User | Route | Direction | On Stop | Off Stop |
|----------------|-------------------|-------------------|--------------------------|-------------|----------------------------|------------------|
| 2015-12- 04 | 18:17:48/18:12:42 | richardm/richardm | 4- Division/Fessenden | To St Johns | SW 6th & W Burnside | NW Everett & 5th |
| 2015-12- 04 | 18:17:43/18:07:56 | richardm/richardm | 4- Division/Fessenden | To St Johns | SW 6th & Taylor | NW Everett & 5th |
| 2015-12- 04 | 18:17:36/18:12:47 | richardm/richardm | 4- Division/Fessenden | To St Johns | SW 6th & W Burnside | NW Everett & 5th |
| 2015-12- 04 | 18:17:29/18:12:56 | richardm/richardm | 4- Division/Fessenden | To St Johns | SW 6th & W Burnside | NW Everett & 5th |
| 2015-12- 04 | 18:17:23/18:13:01 | richardm/richardm | 4- Division/Fessenden | To St Johns | SW 6th & W Burnside | NW Everett & 5th |
| 2015-12- 04 | 18:17:13/18:13:05 | richardm/richardm | 4- Division/Fessenden | To St Johns | SW 6th & W Burnside | NW Everett & 5th |
| 2015-12- | 18:17:06/17:48:01 | richardm/richardm | 4- | To St Johns | SE Division & Cesar Chavez | NW Everett & 5th |

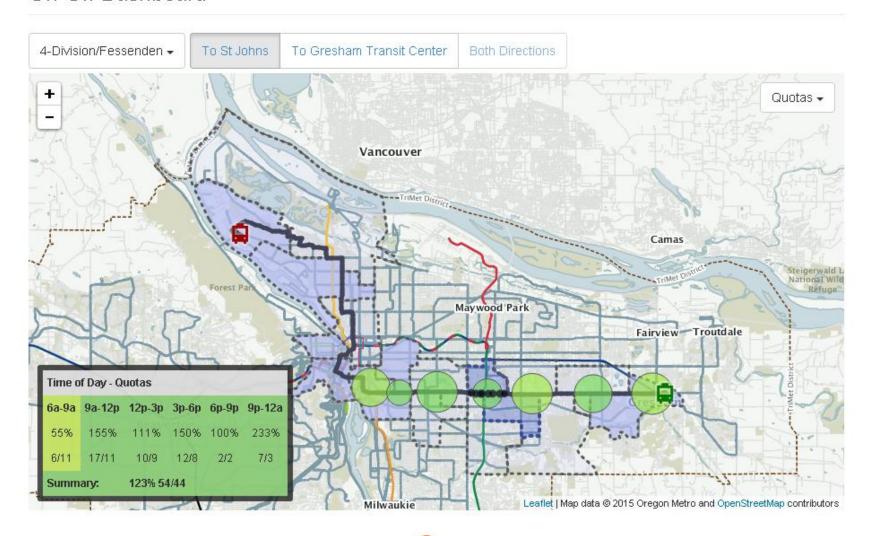
Dashboard – Project Status

On-Off Dashboard

| | | Inbound | | | | Outbound | | | |
|-------------------------|-------|---------|------|-----|------|----------|------|------|------|
| | Total | AM | Mid | РМ | Eve | AM | Mid | PM | Eve |
| 4-Division/Fessenden | 117% | 59% | 118% | 65% | 158% | 182% | 131% | 191% | 108% |
| 9-Powell Blvd | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 17-Holgate/Broadway | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 19-Woodstock/Glisan | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 29-Lake/Webster Rd | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 30-Estacada | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 32-Oatfield | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 33-McLoughlin/King Rd | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 34-Linwood/River Rd | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 35-Macadam/Greeley | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 70-12th/NE 33rd Ave | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 75-Cesar Chavez/Lombard | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 152-Milwaukie | 0% | 0% | 0% | 0% | N/A | 0% | 0% | 0% | N/A |

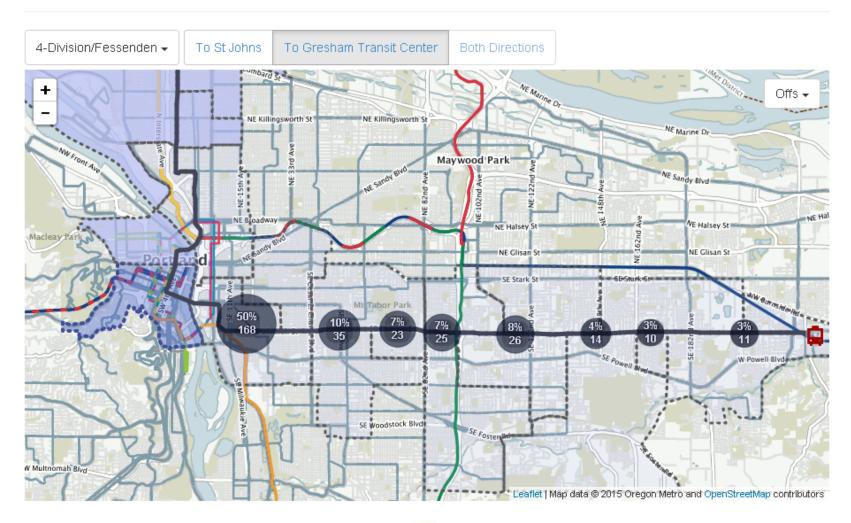
Dashboard – Quotas by Time of Day

On-Off Dashboard



Dashboard - Analytics (un-processed data)

On-Off Dashboard



Reiterative Pilot Testing

Refinement of

- Questionnaire (order, wording...)
- Sampling procedures
- Completion time
- Device and carrier testing
- Software testing

Data Review and QC Process Development

Refinement budget, resource requirements, and timeline

Hiring & Training
Schedule Creation & Signup
Communication



SURVEY TEAM

Recruitment and Training

Recruitment

- Tech savvy
- Familiarity of TriMet system
- Customer Service skills
- Racial/ethnic diversity and Spanishspeakers
- Professional attitude and appearance
- Solid work history (background check required)

Training

- Safety and Customer Service Training
- Project introduction, overview, objectives, scope
- Methodology and sampling procedures
- Use of tablets
- Shift sign-up and communication methods



GIS ELECTRONIC SURVEY TRAINING SCHEDULE

| | Day 1 Wednesday Feb. 17, 2016 | | | Day 2 Thursday Feb. 18, 2016 | | | | | |
|-------------------|---|---------------------------------|---|--|--|--|--|--|--|
| | Gro | up 1 | Group 2 | | Group 1 | | Group 2 | | |
| 8:30am 10:00am | customer service, security | | Tablet Asssignment & Setup Conf CTR (1) - Mt. McLoughlin | | Supplemental App Review Conf CTR (1) - Mt. McLoughlin | | Survey Review/Trip Signups Conf CTR (2E) – Mt. Wash. | | |
| 10:30am Noon | _ | nment & Setup Mt. McLoughlin | Customer Service/Security Conf CTR (2E) – Mt. Wash. | | Survey Review/Trip Signups Conf CTR (2E) – Mt. Wash. | | Supplemental App Review Conf CTR (1) - Mt. McLoughlin | | |
| Noon 12:45pm | 1A Badges | 1B Lunch | 2A Tablet Practice | 2B Lunch | 1A Tablet Practice | 1B Lunch | 2A Badges | 2B Lunch | |
| 12:45pm 1:30pm | 1A Lunch | 1B Badges | 2A Lunch | 2B Tablet Practice | 1A Lunch | 1B Tablet Practice | 2A Lunch | 2B Badges | |
| 1:30pm 5:00pm | | | | Methodology Conf CTR (2E) – Mt. Wash. | | Methodology Conf CTR (2E) – Mt. Wash. | | Technical Training/Field Conf CTR (1) - Mt. McLoughlin | |

| Day 3 | Day 4 | |
|--|------------------------|--|
| Friday Feb. 19, 2016 | Saturday Feb. 20, 2016 | |
| Small group training with supervisors in field | Survey Begins | |

All Training at:

TriMet Center Street Office 4012 SE 17th Ave. Portland, OR 97202

2/12/2016

Ed & Julie TriMet Tranist Police Brett Lead 210 NW 1st Ave Ginger & Group Old Town/Chinatown MAX Jeffrey & Grant Station



Fielding Rules

Scripts:

- Someone asks me for directions or information about TriMet while I am surveying:
- The rider wants to file a complaint with me about TriMet
- The passenger has previously taken the survey on a different trip (we are interviewing riders more than once as you are surveying the trip not the people)

Contacts:

Brett if tablet is lost/stolen/damaged/left behind/issues with it.

Contact your assigned supervisor for all other issues, such as:

- I lost my badge
- The bus driver says I cannot survey on the bus
- I am late for my shift and miss my scheduled bus/train
- I have technical issues while surveying
- I am sick and cannot make my shift
- I am injured or become sick while I am working

Keep surveying even if:

- I am scheduled to work with a partner and they do not show up
- The vehicle breaks down get on next bus
- Your shift includes multiple trips and one trip is late, causing me to miss a connection
- Survey Blazer and Timber Games
- Buses with Field Trips and Students

What if:

- The vehicle is packed and I cannot move around and follow the survey procedures
- . I have surveyed all the riders on the vehicle and we have not reached the end of the trip
- Someone wants me enter in the survey questions for them (they are visually impaired, don't want to touch the tablet, are not comfortable with the technology, etc.)
- The passenger is young? Only survey passengers 12 years old and above (don't require parental permission).

Travel Time

You will be paid for your travel time to your start location.

Use Uber/Lyft only during none-TriMet service hours and give receipts to OLSA.

Remember to:

- Charge your tablet after every shift and make sure that it is charged before leaving for a shift.
- 2. Be at the beginning location 10 minutes before the bus/train is due.
- Wear your badge and vest while administering surveys.
- Identify yourself as a TriMet Surveyor to the bus driver (not necessary on the train), stating that you will be conducting surveys on this trip. If requested, show him/her your TriMet badge.
- Г В----



Equipment Assignments



TriMet Mobile Surveyor **Equipment Checkout Form**

| Name: | Phone #: |
|--------------------|----------------|
| Department: GIS-IT | Email Address: |

| | Equipment being Checked Out | | | | | |
|----------|---------------------------------|-----------|--------------------|--|--|--|
| Quantity | Equipment | ID Number | User's Initials | | | |
| 1 | Samsung Galaxy Tablet | | | | | |
| 1 | Samsung Wall Charger | | | | | |
| 1 | Poetic Table Case | N/A | | | | |
| 1 | Shoulder Bag | N/A | | | | |
| 1 | Blue TriMet Vest | N/A | | | | |
| 1 | TriMet Badge Authorization Form | N/A | | | | |
| | | | | | | |

Equipment Check Out and Return Date

| | | | |
|--|------|------|--|
| | | | |

Accepted By: _

Date Equipment Picked Up: 02/17/2016

Date Returned:

Date Equipment will be Returned: 06/04/2016

| I understand that it is my responsibili (Please initial besides each item) | ty to: |
|---|--|
| Report any loss or damage of t | are and use of the above equipment the equipment immediately to your su l and in the same condition it was rece |
| Signature | |
| | Office Use Only |
| Approved By: | Date: |

Acceptable Use and Smart Device Security Policies

Security - In the Office

- · Device should be secured when not in use and overnight.
- · The device must be password protected

Security - Out of Office

- Devices must not be left unsecured when traveling (e.g. hotel rooms, during meals, etc.)
- · Preferably, devices must not be left unattended in automobiles. If it is necessary to leave the device in an unattended car for a short period of time, the device should be placed in a trunk.
- · Put it through the x-ray machine when going through airport security. Keep all equipment in view at all times.

Safeguarding Sensitive Information

- · A password will be set up that must be entered before any user can access contents.
- · Additional passwords will be set up on files containing sensitive agency information.
- · Passwords should not be shared or revealed to anyone.

What to do if there is a theft

- If a theft does occur, notify The Helpdesk at (503)-962-5818, immediately.
- · Inform your manager of situation.

I have read and agree to the Acceptable Use and Smart Device Security Policies.



Quality Assurance

One Supervisor per 6-7 Surveyors

Fielding Rules Reviewed and Additional
Training as Needed

Monitored and Mystery Shopped (documenting when/where)

Monitoring of backend data

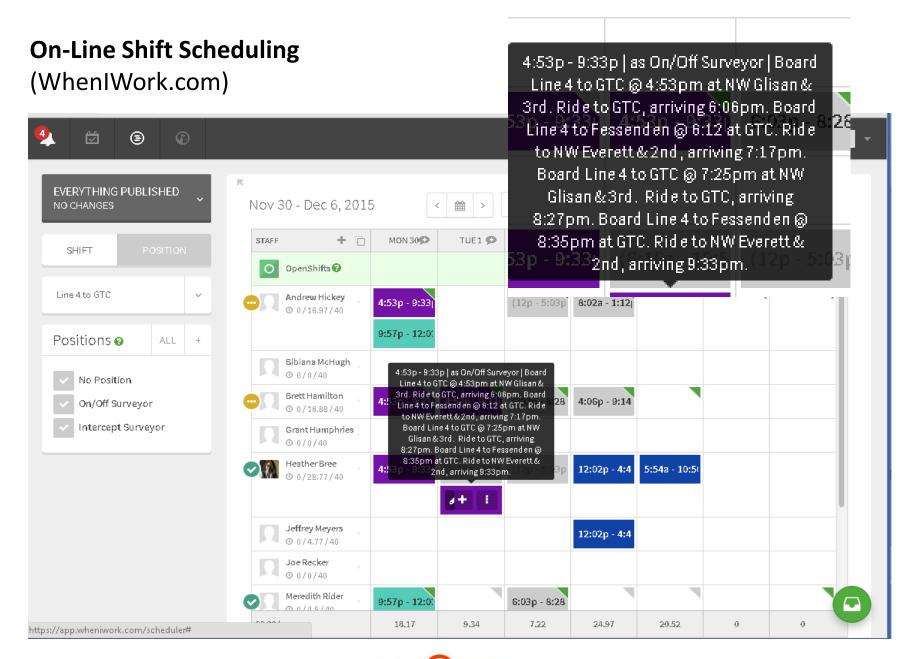
Timesheet verifications against scheduled work shifts and data collection.



Supervisors have prior survey experience: Cassadi Willey, Brett Hamilton, Meredith Rider

| | Date; Time: usstop where you boarded: | | orm |
|---|---|--|-----|
| Approximate number of | occupied seats when boarding: % □ 50% □75% □100% □ >100% (people stand | Individual and Total Summary Re | |
| | close to the surveyor so you can observe their actions and to 30 minutes. The answers in bold are the actions/behav x for each question | | %16 |
| APPROACH 1. Which of the following Please fill out Would you like | How would you rate their approach? (47 responses) Excel Fair | □ Fair □ Poor out dress/appearance: | |
| ☐ Tri-Metsurvey ☐ Fill this out ☐ Here, take this ☐ Other: ☐ 2. Did he/she speak cle, ☐ Yes ☐ No 3. Did theysmile when a ☐ Yes ☐ No | 100% | passengers asking for instructions or clarification? →skip to question 16 to answer the questions? rone speak Spanish to the surveyor? →skip to question 17 them the Spanish version of the survey? ly thank you when receiving the tablet back? | |
| 4. Did they make eye or Yes No 5. Were you given instru Yes No 6. Did the surveyor appropriate or American Service or Amer | Any comments about their approach? (22 responses) Kamron was friendly when approaching riders and he made sure to talk to everyon | te theirfollow-through? Fair Poor outfollow-through: n the bus. | |
| ☐ Yes ☐ No 7. How would you rate th ☐ Excellent ☐ 8. Any comments about | Kamron was friendly when approaching riders and he made sure to talk to everyon. He was very friendly and seemed comfortable approaching the passengers. She was very friendly when approaching riders Got 4 out 4 people to take the survey will approach | eating/drinking on the bus(not including water)? surveyor interacting with the Operator? | |
| DRESS / APPEARANC | Martin to use a slee and callested when dates a source | → skip to question 30 21a. Was the interaction of a positive nature? □ Yes □ No → explain: | |
| 9. Was the surveyor wea □ Yes □ No 10. Were their clothes clo □ Yes □ No | ring an identification badge? ean? spectable (not torn, no objectionable words on t-shirts, etc.) | 22. Did you witness the surveyor using their personal cell phone while surveying bus/MAX/MES? Yes No 23. Does this person contribute to the overall image Tri-Metwould like to portray Yes No COMMENTS (optional) | |
| | | | |





Travel Alternatives (6pm-6am shifts as needed)







| Fare Survey Comparisons | 2012 | | |
|--|--|-----------------------|--|
| Distribution | Paper and pencil – handed to all passengers | | |
| Languages | Full survey: English/Sp LEP questions: 4 langua | | |
| Questions asked (full survey) | 19 | | |
| Complete Trians | Bus – 8% weekday, S Sunday | Surveyo training/ | |
| Sample Trips: representative of service | MAX – 15% weekda Sunday | Surveyo | |
| day | WES - 50% weekday | Supervis | |
| | Portland Streetcar – 1 Saturday, Sunday | Complet (include | |
| Sample hours pulled | 4.50.5 | Respons | |
| (includes 2 surveyors on MAX) | 1,506 | Results a fielding | |

| CONCLUSIONS | |
|--------------------|--|

| Surveyor hours (includes training/travel) | 1,735 | 2,309 |
|--|---|--|
| Surveyor training hours | 15 | 276 |
| Supervisor/scheduler hours | 711 | 1,082 |
| Completed surveys (includes all languages) | 16,982 | 17,719 |
| Response rate | 44% | 65% |
| Results available after fielding | >6 months | 1 month |
| Shift length – average surveying hours (not including travel time) | 8 hours | 4 to 5 hours to accommodate student schedules |
| Cost | \$107,502 (fielding, translations, printing, postage, data entry) | \$73,313 (fielding, translations, programming, cell phone and incidental fees) |
| Cost per sample hour | \$71.40 | \$48.40 |
| Cost per completed survey | \$6.30 | \$4.10 |
| Completes per sample hour | 11.3 | 11.7 |
| Supervisor/scheduler hours as % of sample hours | 47% | 71% |

2016

24

possible

Tablets – survey as many as

Full survey: English/Spanish LEP questions: 11 languages

Comparisons between 2012 and 2016 Fare Surveys

Cost decrease by 32%, response rate increase by 48%

Obtained more information, more timely, with better quality assurance

Introduced dashboards and real-time data monitoring

Training and supervision more rigorous

Fewer errors and higher % of completes

Allowed for shorter shifts to accommodate student schedules (produced more travel time, however, the surveyors experienced less burnout)

More environmentally friendly than paper

Enabled TriMet "ambassadors" (students) to interact directly with 27,118 riders and 203 bus drivers/WES conductors.



Tablet vs. Paper

Significant time and cost savings: eliminates paper, printing, postage, data entry, GIS post-processing.

No oversampling required to meet quota, as real-time data capture is monitored.

Data entry errors are decreased and can be auto-validated

Data accuracy is vastly improved and location information for stops on/off is auto-captured. Survey throw-out rate is almost non-existent.

Demonstrates the use of innovation in technology and being environmentally conscientious.

College Students

Hourly cost of college students are 40% less than consultant and provides opportunities for local area students.

Positive customer interaction and engagement

Have extensive knowledge of the transit system and local area.

Bi-lingual recruitment

Staff on hand for customer service projects in addition to surveys

2009 & 2012 Fare Surveys

TriMet Rider Survey

Please III and this how even I you have already received one on another but at train.

Dear Eiden Tribbit would the its incompleted the timp you are currently respirity. Places present the following quantities; and return to the corresport or drop it to the result.

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