GOOD MORNING

Please mute your microphone for better sound quality for everyone.

Please submit questions by clicking the Q&A icon.

All Metrolink staff presenting today will display a Metrolink train as their background image.

Thank you!











CUSTOMER-FOCUSED CEO VISION

Safety and Security Modernized Business Practices Integrated System













REVERSE PITCH PURPOSE

To tap into the creativity and innovation of the private sector to deliver Wi-Fi to our riders quickly, efficiently and cost effectively.







TODAY'S AGENDA

How do we deliver Wi-Fi to Metrolink customers?

- ABOUT METROLINK
- OPPORTUNITY STATEMENT
- PORTRAIT OF A METROLINK RIDER
- WI-FI PILOT PROGRAM PANEL
- HOW TO SUBMIT YOUR IDEAS

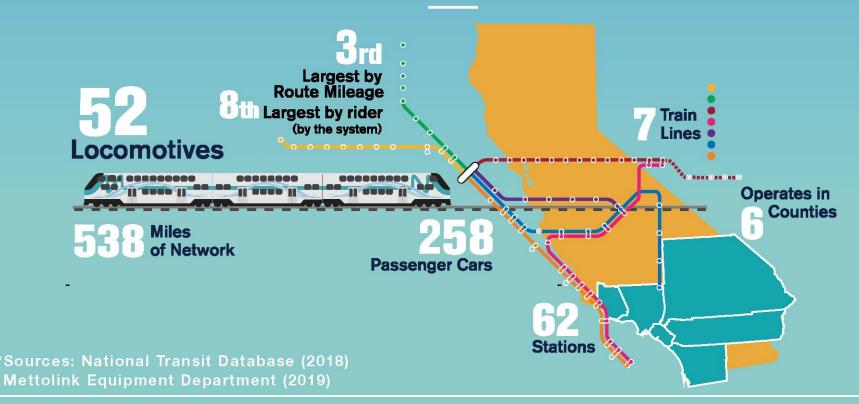






METROLINK CONNECTS SOUTHERN CALIFORNIA

28th Year of Operations







METROLINK REMOVES EMISSIONS AND CONGESTION

85%

OF WEEK DAY METROLINK
RIDERS HAVE AN AUTOMOBILE
BUT CHOOSE TO TAKE THE TRAIN



METROLINK HELPS RELIEVE FREEWAY CONGESTION

ALONG THE **5*, 10*,** 14, 15, 57, **60*, 91*, 101*, 134*,** 210, 215, 405, 605 AND 710 FREEWAYS



Metrolink reduces 9.3 million car trips off Southern California roads, eliminating over 130,000 metric tons of GHG emissions in our air basin – the equivalent carbon captured by 153,000 acres of forest.

Sources: Metrolink (2018) Origin Destination Study.

Metrolink (2019) Large capacity equivalent calculated using Metrolink conductor counts and Caltrans AADT traffic counts.

Metrolink (2019) Ticket-Based Ridership FY19 Business Intelligence Report

California Air Resources Board (2019) TIRCP Benefits Calculator Tool. https://www.arb.ca.gov/resources/documents/cci-quantification-benefits-and-reporting-materials?corr Environmental Protection Agency (2019) EPA's Greenhouse Gas Equivalencies Calculator, http://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

11.9 MILLION BOARDINGS



In FY19, Metrolink achieved an agency ridership record of 11.9 million boardings.

FY19 also marked five years of continuous growth.









WI-FI OPPORTUNITY STATEMENT

IDEAL

Riders have onboard Wi-Fi access during their commute.

REALITY

Riders do not have the ideal customer experience on board Metrolink trains.

CONSEQUENCES

It is more difficult to retain current riders and attract new riders.

PROPOSAL

Invite solutions for Metrolink to develop and implement Wi-Fi for riders ASAP.









Wi-Fi

PORTRAIT OF A METROLINK RIDER

WEEKDAY RIDER



65% use Metrolink at least five days a week



82% are work trips



26% ride more now than last year



92% know of the Metrolink Mobile
Ticketing App; 49% use it

WEEKEND RIDER



12% use Metrolink at least 2 days a week



69% are leisure trips



36% ride more now than last year



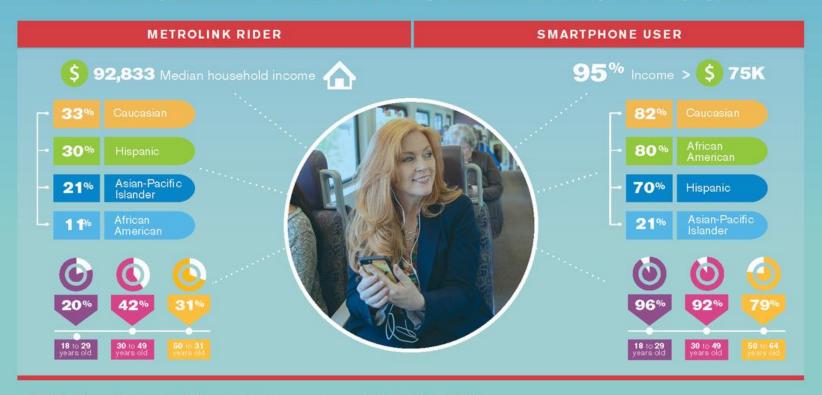
70% know of the Metrolink Mobile
Ticketing App; 38% use it

*Source: 2018 Metrolink OD Study





METROLINK RIDER / SMARTPHONE USER



Source: *2019 Pew Research (smartphone ownership in the US)

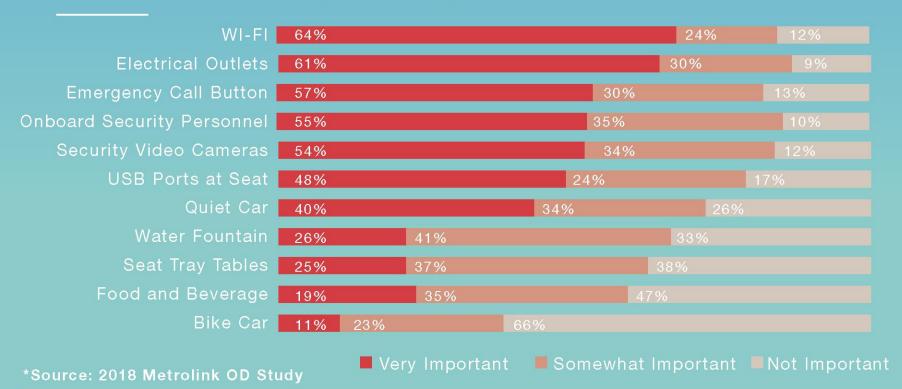
*Experian (length of time spent on smartphones)





WE WANT WI-FI

What amenities are important to you?







WE WANT WI-FI...EVEN MORE!

How important is onboard Wi-Fi to you?

RESPONSE	2010	2018	DIFFERENCE
EXTREMELY/VERY IMPORTANT	37%	63%	^ 26%
SOMEWHAT IMPORTANT	29%	25%	▼ 4%
NOT IMPORTANT	33%	12%	▼ 21%
DON'T KNOW	2%	N/A	N/A

^{*}Source: 2018 Metrolink OD Study











METROLINK WI-FI PILOT PROGRAM PANEL



MODERATOR Sherita Coffelt



PANELIST Luis Carrasquero



PANELIST Arun Chakladar



PANELIST Henning Eichler





WI-FI PILOT PROGRAM OVERVIEW

PILOT PHASE 1: NOV 2019 - JAN 2020 TWO CARS PILOTED

- Two cars with external antennas
- One car with aluminum external body
- One car with stainless steel external body

PILOT PHASE 2: JAN 2020 - MAR 2020 FOUR CARS PILOTED

- Two cars with external antennas
- Two cars with internal antennas
- Two cars with aluminum external body
- · Two cars with stainless steel external body

INSTALLATION OF WI-FI HARDWARE ON CARS TOOK PLACE AT OUR CENTRAL MAINTENANCE FACILITY







Wi-Fi Pilot Installation





PILOT PROGRAM OPERATIONS AND EQUIPMENT FINDINGS

LESSONS LEARNED

- First two pilot cars required installation of roof mounted antennas. This process added extended hours of work, requiring the car to be out of service or unavailable for a few days.
- Second pilot had internal antennas, which resulted in no drilling of the equipment, but lower performance. Hardware installation involved less than an hour of time.
- With both pilots, equipment was out of sight and required little to no maintenance

DOING THINGS DIFFERENTLY

Explore repeaters or using trainline to extend coverage.

ADVICE OR WORDS OF WISDOM

- · Ability to throttle bandwidth · Remote analytics
- Provide a customer service phone/text number, chat function or email address for Wi-Fi related inquiries.





WI-FI PILOT DATA USAGE

PILOT 1 (2 CARS)

Average Daily Usage 6.1 GB

Max. Daily Usage 14GB Avg. Unique Devices Per Day 113

PILOT 2 (4 CARS)

Average Daily Usage 7.6 GB

Max. Daily Usage
14 GB

Avg. Unique Devices Per Day 224





TOP WI-FI APPLICATIONS BASED ON DATA USAGE DURING PILOT





"This is a great step in making our ride more enjoyable. Thank you so much!"

"Adding Wi-Fi is a game changer, Metrolink. Thank you!"

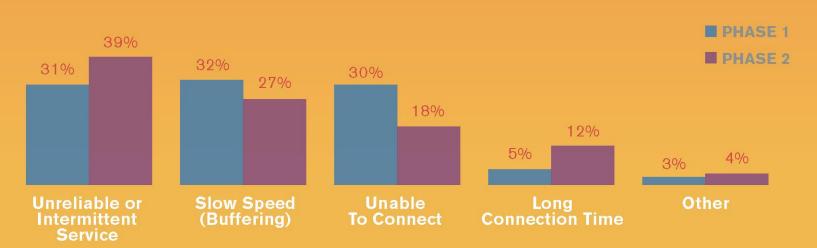
"It worked great. Now that I enjoyed it once, I want more!!! Thank you."





57% of respondents indicated no problems

PLEASE DESCRIBE THE PROBLEM YOU WERE EXPERIENCING



Percent of respondents reporting problem. Multiple responses possible.









HOW LONG HAVE YOU BEEN RIDING METROLINK?









HOW OFTEN DO YOU RIDE METROLINK?

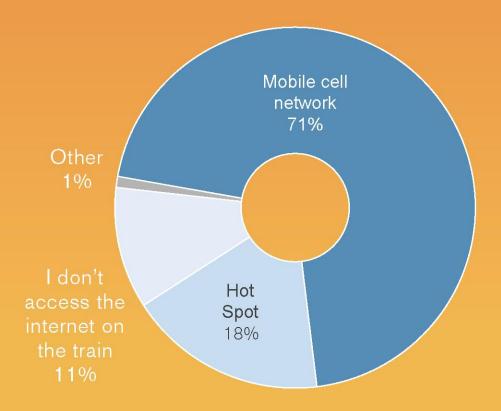


57% are Monthly or 7-Day Pass riders.









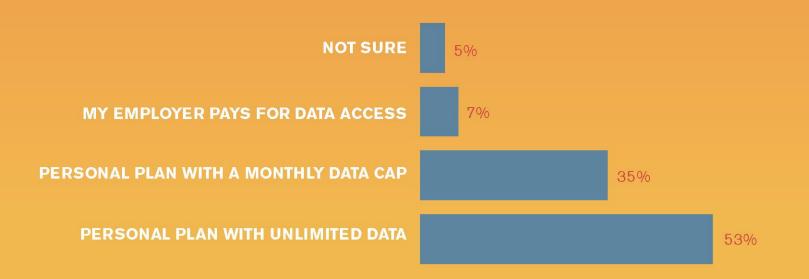
HOW DO YOU ACCESS THE INTERNET WHEN YOU ARE RIDING ON A **METROLINK TRAIN WITHOUT WI-FI?**







WHAT TYPE OF MOBILE DATA PLAN DO YOU HAVE FOR YOUR MOBILE DEVICE?



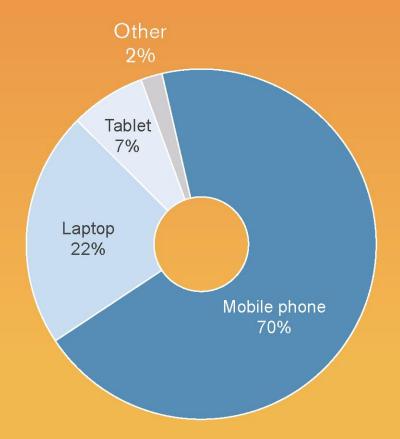
Percent of respondents











PLEASE THINK ABOUT THE LAST TIME YOU USED METROLINK'S ONBOARD WI-FI. WHAT DEVICE WERE YOU USING?







KEY FINDINGS FROM CUSTOMER SURVEY

- Riders depend on Internet access during their commute
 - Most have unlimited data plans
 - Primary Wi-Fi problems include reliability and speed













UNSOLICITED PROPOSALS

Per Section 7 of Metrolink Procurement Policies

An Unsolicited Proposal is a written proposal that is submitted to the Authority on the initiative of the submitter for the purpose of developing a partnership that is not in response to a formal or informal request issued by the Authority such as Request for Proposal (RFP) or an Invitation for Bid (IFB).

- Innovative and unique
- Independently originated and developed by the proposer
- Sufficiently detailed to demonstrate benefit to the Authority

Available online at: metrolinktrains.com/wifi



HOW TO SUBMIT YOUR IDEAS

Unsolicited Proposals generated from this Reverse Pitch Forum are due to SCRRA on or before Friday, 05/29/2020 at 2:00 PM PDT

- Email questions and submittals with subject line
 Proposer Name Wi-Fi Reverse Pitch to ideas@scrra.net
 - Limit Unsolicited Proposals to 20 pages maximum.
- Unsolicited Proposals will be reviewed for Technical & Financial Merit.
- After review, the Authority will determine the most appropriate next steps, which could proceed to a sole source agreement, or issuance of a formal competitive procurement.
 - The Authority does not commit to any particular outcome (including that Authority engagement with the proposer will lead to a procurement or a contract with the proposer).

Additional information provided in the accompanying Technical Supplement.





Q & A



THANK YOU



ideas@scrra.net metrolinktrains.com/wifi