



TCRP J-11/Task 17 Panel Roster

PANEL MEMBERS:

NANCY CHINLUND, Chief, Office of Planning, Policy and Innovation, California DOT

JEFFREY MAKI, Product Development Manager, The Control Group

NANCY MCGUCKIN, Travel Behavior Analyst

ELAINE R. MURAKAMI, Community Planner, Federal Highway Administration

MICHAEL MURRAY, Public Affairs Specialist, Federal Railroad Administration

MATT RAYMOND, President/CEO, Celtis Ventures, LLC

SUSAN SHAHEEN, Lecturer & Co-Director, Transportation Sustainability Research Center, University of California, Berkeley

JASON TESTER, Research Director, Human Future Interaction, Institute for the Future

APTA LIAISON:

DARNELL GRISBY, Director - Policy Development and Research, American Public Transportation Association

OTHER LIAISON:

LILLY SHOUP, Policy Analyst, US DOT, Office of the Secretary

TCRP STAFF:

DIANNE S. SCHWAGER, Senior Program Officer, Transportation Research Board

JEFFREY L. OSER, Senior Program Assistant, Transportation Research Board

STUDY OVERVIEW

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Study Objectives:

- **Understand Millennials' lifestyle & decision-making processes with an emphasis on mobility (daily travel).** Identify specific factors affecting Millennials' lifestyle decisions, including post-recession attitudes about the economy, heightened environmental awareness, a renewed interest in local communities, shifting social values amongst peers, new information technologies, urban attraction, and so on.
- ↓
- **Identify how Millennials make their mobility decisions** in a holistic way (e.g., considering all means of transportation: driving personal vehicles, public transit, other mobility options such as biking, walking, car-sharing, etc.)—taking into account the effect of major life decisions on mobility choices (e.g., where to live, where to work). Additionally, understand how these considerations may change as Millennials progress through life stages.
- ↓
- **Identify key hurdles and benefits of various mobility options,** including accessibility, convenience, time, community/belongingness, fluidity with other mobility options (e.g., multi-modal transit), etc.
- ↓
- **Uncover potential opportunities** for public transit providers to increase ridership—by improving messaging, information access, service offerings/accessibility, etc.

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Study Design Overview:

Phase 1

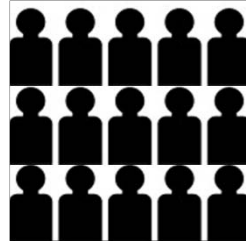
In-Depth Phone Interviews
& Mobility Journaling



☑ Completed:
Behaviors, Needs
and Attitudes
Identified
(December 2012)

Phase 2

Quantitative
Online Survey



☑ Completed:
Engagement,
Attitudes &
Opportunities
Quantified
(April 2013)

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Phase 1 Methodology Overview

We conducted 30-minute phone interviews
with 11 transit riders across a mix of the
following 5 markets:

- Boston
- San Francisco
- Austin
- Boulder
- Minneapolis

Interviewees were:

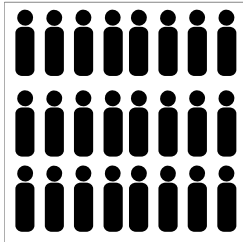
- Ages 18-34
- A mix of men and women
- Engaged with one or more forms of public transportation at least once per week
- A mix of car owners and non-car owners
- A mix of urban and suburban dwellers
- Of varying ethnicities
- Of various education & household income levels



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Phase 2 Methodology Overview

Using key insights gleaned from the Phase 1 in-depth phone interviews, we designed and executed a large-scale quantitative survey focused on quantifying Millennials' mobility motivations, behaviors and related opportunities.



Study Design:

n=1,000 total participants, distributed across 6 urban areas (Boston, Chicago, San Francisco, Seattle, Portland & Washington DC), completed this ~17 minute online survey.

Primary goals:

- Explore attitudes toward mobility generally, including factors that play a role in mobility decision-making (e.g., social, financial, environmental, etc.) and the relationship between major life decisions (e.g., where to live and work) to specific transportation choices.
- Understand current mobility behaviors across demographic/lifestyle groups, and identify common (and unique) pain points and benefits.
- Uncover opportunities for promoting transit options, including new digital offerings, updated communications approaches, and “experience planning.”

Fielding was completed with n=1000 total with some tweaks to original screening criteria & quotas, which are summarized in the appendix of this report. Final data was weighted to even out distribution of age & gender groups within and across each city surveyed, allowing for a more accurate analysis of differences by various sample groups.

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Context for this document:

This study, sampling & report was designed to:

- ✓ Speak with **Millennials** living within or just outside of **urban centers** who are **using public transit & other transportation** options,
- ✓ Understand **Millennial mindsets around their living & transportation choices** – and look at self-reported behaviors, observed trends & changes **from their perspective or thinking**,
- ✓ Provide a **summary of observations** from collected data & suggest **potential opportunity areas** for public transit to meet emerging needs, fill gaps in present offerings, or inform future strategies for better serving or “speaking” with this group.

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Context for this document:

This study, sampling & report was NOT designed to:

- Be nationally representative,
- Survey Millennials *and* other generations / demographic groups to make statistical comparisons,
- Make hard conclusions about what should or shouldn't be done on behalf of this group.

(That said – although this study was not designed to compare urban Millennials with other demographic groups / generations, it is possible that findings highlighted in this report would also be relevant to other demographic groups / generations.)

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Key Findings & Opportunities

- **Cost, convenience, & exercise are the top motivations** for Millennials' transportation choices & routines overall. And transportation choices are **becoming increasingly multi-modal**, primarily driven by cost and convenience/time-saving.
- While wanting to see more options that are affordable & convenient / accessible (nearby, shortest time, easy to use with other options) isn't new, transportation providers may be able to better speak to and serve the needs of Millennials by:
 - Offering **mobile & digital services** that provide more **detailed, accurate (real-time) and comprehensive trip-planning tools & information** that reduce wait times, make it easy to use multiple transportation modes to reach a destination, and make services feel more reliable by better informing users with updates & options.
 - Helping people **realize the benefits** of (or take advantage of) the transportation options that offer some **exercise** (e.g. walking, biking, etc.)
 - Potentially packaging transportation **subscriptions or purchase options that extend benefits beyond the individual** and to the friends, families or others they live & share life with.

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Key Findings & Opportunities

- **Transportation choices are founded in routine** — public transit is a critical part of many people's routines; they follow known routes to-and-from work. Currently, some don't feel public transit allows them to be spontaneous or flexible.
 - This suggests an **opportunity to promote use of public transit as a go-to option when flexibility is needed or in various life contexts** by positioning as an option in combination with other modes, improving information & digital tools that offer real-time suggestions or updates to allow for more spontaneity, or potentially by promoting more child/family-friendly features or services, etc.
- **The decision to drive is largely about avoiding hassles** — people are still relying heavily on cars, and consider driving a go-to solution when they can't chance being late, when the weather is bad, when they have multiple stops to make, when they have kids with them, and so on.
 - Public transit has an opportunity to address some perceived barriers — for example, by becoming more reliable or by providing real-time data/alerts about arrival times.
- Millennial **car owners are living downtown**, are **parents of kids under 18**, and are **using cars as one mode in the mix** of options.
 - The transit industry may have an opportunity to **better promote the use of public transit & other transportation options in conjunction with driving**.

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Key Findings & Opportunities

- **Millennials are motivated by environmental considerations** — but, in practice, being good to the environment is more of an added perk than a core consideration when choosing a transportation mode.
 - Core considerations are cost, reliability, convenience, and health/exercise benefits, but eco impact can be **positioned as an “added value”** in messaging to make users feel better about their transportation decisions.
- **Millennials are multi-tasking** — constant internet connectivity and the ability to multi-task is critical for Millennials, especially when commuting. Millennials are used to anytime, anywhere content access, and they appreciate the opportunity to keep working instead of waiting around while traveling.
 - Public transit providers should offer Wi-Fi/3G/4G **connectivity and other tech-friendly amenities** (e.g. charging stations, apps, etc.).
- **Local community is important** — Millennials enjoy socializing (online) while traveling and making exciting local discoveries (i.e., hidden gems in their neighborhoods).
 - Millennials like the idea of transportation that **facilitates these discoveries** and that can even help personalize their routes based on other factors (e.g., what's around, current mood, cost, etc.).

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Mobility Option Awareness, Engagement, Motivations, Barriers

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Overview of Transportation Modes: Top 5 Most Preferred Modes of Transportation



Mean Preference Rank (Where 1 is Most Preferred):

(note: survey participant ranking of options was a list of those they used 'a few times a year or more often')

*Q15

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Transportation Modes Overview: People Dedicate the Most Time to Walking, Driving & Taking the Bus

	Owner Operated:					Public Transit:				For Hire:	Share-Based:		
	Walking	Driving a car	Motor scooter or moped	Bicycle	Skateboard, Roller-blades	Subway, Light Rail, Street Car, Trolley	Commuter Rail	Bus	Ferry	Taxi	Car-pooling or ride-sharing	Car-sharing	Bike-sharing
% Use 'a few times a week' + (Q11)	79%	63%	10%	26%	11%	43%	32%	45%	11%	14%	25%	15%	12%
Mean Preference Rank where 1 is most preferred (Q15)	2.73	2.24	5.14	4.34	6.58	4.09	4.90	4.34	7.45	6.42	6.17	7.85	9.55
Mean % of total time spent, within traveling within the week (Q14)	23%	36%	7%	9%	5%	14%	9%	17%	4%	5%	7%	5%	4%

Note: study methodology & stats throughout this report are based on self-reported behaviors.

Frequency of Transportation Mode Use

Q11 - Please tell us, which of these transportation options are available to you, and how often do you use each if available? (% Top 2 Box Shown, 'a few times a week +')		TOTAL		City						Age	
				Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washington, DC	Ages 22 to 27	Ages 28 to 34
n=		1000		167	167	167	167	167	167	500	500
Walking		79%		80%	86%	75%	77%	77%	75%	80%	77%
	Driving a car (borrowed, belonging to you or your household)	63%		60%	63%	59%	66%	64%	66%	58%	68%
Public Transit: Bus		45%		39%	51%	50%	49%	42%	39%	46%	44%
	Public Transit: Subway or Light Rail or Streetcar or Trolley rail	43%		56%	52%	49%	18%	34%	50%	45%	41%
Public Transit: Commuter Rail		32%		24%	45%	37%	19%	34%	31%	32%	31%
	Riding a bicycle (belonging to you or your household)	26%		32%	23%	26%	26%	32%	18%	28%	24%
Car-pooling or ride-sharing (through services such as Zimride, Lyft, Sidecar, through people at work, etc.)		25%		20%	25%	28%	26%	26%	23%	28%	21%
	Car-sharing (through services such as Zipcar, City CarShare, etc.)	15%		10%	19%	16%	17%	11%	18%	16%	14%
Taxi		14%		14%	23%	14%	12%	8%	14%	13%	16%
Bike-sharing (through public or private services such as Alta Bicycle Share, Bicycle, DecoBikes, etc.)		12%		9%	-	-	-	-	11%	12%	11%
	Using a skateboard , longboard, or rollerblades (belonging to you or your household)	11%		10%	15%	12%	10%	8%	11%	13%	9%
Public Transit: Ferry		11%		8%	-	11%	10%	14%	-	12%	9%
	Riding a motorized scooter or moped (belonging to you or your household)	10%		10%	13%	11%	7%	10%	10%	10%	10%

Highlighting in chart above shows relative differences in cell values across these transportation options & survey response options.
(Note - the colors and shading on these tables can best be viewed in a full-color version of the report)

Transportation Preference – Mean Ranking

Q15 -Thinking about an average week, please rank your preference of each of the following modes of transportation in descending order. Mean Rank Shown (n varies, options presented if said used 'A few times a year' +)	TOTAL								
		Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washing-ton, DC	Ages 22 to 27	Ages 28 to 34
Driving a car	2.24	2.38	2.50	2.42	1.94	2.05	2.13	2.30	2.18
Walking	2.73	2.49	2.69	3.13	2.69	2.72	2.65	2.72	2.74
Public Transit: Subway or Light Rail or Streetcar or Trolley rail	4.09	3.47	4.52	4.17	4.74	4.25	3.73	4.03	4.14
Riding a bicycle	4.34	4.09	4.86	4.34	3.92	4.07	4.84	4.35	4.33
Public Transit: Bus	4.34	4.56	4.69	4.21	3.73	4.39	4.53	4.29	4.39
Public Transit: Commuter Rail	4.90	4.56	4.92	5.11	5.32	4.78	4.79	4.95	4.86
Riding a motorized scooter or moped	5.14	5.84	5.18	5.43	5.23	4.58	4.53	5.09	5.19
Car-pooling or ride-sharing	6.17	6.29	6.24	6.49	5.87	5.81	6.36	6.09	6.25
Taxi	6.42	6.10	6.29	7.06	6.42	7.30	5.76	6.56	6.28
Using a skateboard, longboard, or rollerblades	6.58	7.44	6.15	6.48	5.87	7.04	6.73	6.59	6.57
Public Transit: Ferry	7.45	7.55	-	7.71	6.06	8.40	-	7.32	7.61
Car-sharing	7.85	7.51	8.02	8.42	7.74	7.71	7.50	7.87	7.82
Bike-sharing	9.55	9.14	-	-	-	-	9.46	9.40	9.71

Blue highlighting in chart above indicates a statistically significant difference between that cell and other(s) within the same row & sample group.

Transportation Mode Proportion of Total Travel Time

Q14 - During an average week (including the weekend), what percentage of the time do you use each of the following modes of transportation? Mean % Shown (n varies, options presented if said used 'A few times a year' +)	TOTAL	City					Age		
		Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washing- ton, DC	Ages 22 to 27	Ages 28 to 34
Driving a car	35.82	38.66	29.53	34.53	36.25	38.65	37.73	34.57	36.98
Walking	23.15	25.89	24.18	20.27	24.06	24.42	20.01	24.73	21.57
Public Transit: Bus	16.69	12.55	15.67	15.85	24.53	17.06	13.45	17.61	15.76
Public Transit: Subway or Light Rail or Streetcar or Trolley rail	14.01	16.80	12.97	14.07	7.36	9.90	19.49	14.63	13.43
Riding a bicycle	8.97	9.88	6.37	8.81	8.43	11.16	8.89	8.91	9.05
Public Transit: Commuter Rail	8.77	10.09	9.80	9.59	5.94	6.87	9.59	8.00	9.49
Car-pooling or ride-sharing	6.92	5.77	6.44	7.10	10.06	5.51	6.47	7.67	6.10
Riding a motorized scooter or moped	6.75	4.26	6.13	4.98	8.00	10.50	7.56	6.10	7.39
Taxi	5.25	4.44	6.09	4.88	4.24	5.00	6.30	4.61	5.87
Using a skateboard, longboard, or rollerblades	4.65	5.17	6.06	4.24	4.38	3.66	4.54	4.39	4.97
Car-sharing	4.55	3.22	3.69	6.84	5.74	3.25	4.05	4.49	4.61
Public Transit: Ferry	4.09	1.90	-	3.09	7.53	2.95	-	3.63	4.63
Bike-sharing	3.67	2.11	-	-	-	-	5.98	4.12	3.20

Blue highlighting in chart above indicates a statistically significant difference between that cell and other(s) within the same row & sample group.

Overview of Transportation Modes: Situations, Benefits & Barriers

	Owner Operated:						Public Transit:			For Hire:	Share-Based:		
	Walking	Driving a car	Motor scooter or moped	Bicycle	Skateboard, Roller-blades	Subway, Light Rail, Street car, Trolley	Commuter Rail	Bus	Ferry	Taxi	Car-pooling or ride-sharing	Car-sharing	Bike-sharing
Top Optimal Situations (Q112)	Nice outside Need exercise	Getting there ASAP Bad weather Errands or shopping	Nice outside Alone	Need exercise Nice outside	Nice outside Need exercise	Used in combo w/ another mode To or from work	Used in combo w/ another mode Work week or school week	Used in combo w/ another mode To or from work Alone	Alone Nice outside Used in combo w/ another mode With kids	Getting there ASAP Bad weather	Bad weather Meeting w/ friends & family	Bad weather With kids	Need exercise Alone Nice outside
Top Perceived Benefits (Q113)	Better for environment Affordable	Most personal space Spontaneity & flexible	Feel community connection Spontaneity & flexible Affordable	Better for environment Affordable	Spontaneity & flexible Affordable	Pay-per-use Better for environment	Pay-per-use Reliable & On-time	Pay-per-use Affordable Socialize online	Socialize online Good community of people like me	Pay-per-use Spontaneity & flexible	Good community of people like me	Reliable & On-time Pay-per-use	Better for environment Feel community connection
Top Perceived Barriers (Q114)	Slow	Too Expensive	Not child-friendly Not compatible w/ other modes	Can't connect online or 3G/4G Slow	Slow	Lack of personal space	Lack of personal space	Lack of personal space	Too expensive	Too expensive	Lack of personal space	Expensive	Slow Not child-friendly Not compatible w/ other modes

Chart above summarizes the top ranking items across 3 questions – data detail can be found on the following pages.

Transportation Options: Situational Value

Q112 - This transportation option is best for when... (n varies, among randomized subset of those use this transportation option more than 'never')	Owner Operated:					Public Transit:				For Hire:	Share-Based:		
	Walking	Driving a car	Motor scooter or moped	Bicycle	Skateboard, longboard, or rollerblades	Subway, Light Rail, Street car, or Trolley	Commuter Rail	Bus	Ferry	Taxi	Car-pooling or ride-sharing	Car-sharing	Bike-sharing
n=	467	397	68	233	79	382	280	384	89	180	201	130	86
I'm traveling alone	46%	47%	31%	39%	31%	43%	39%	47%	30%	26%	17%	25%	37%
It's the weekend	50%	58%	24%	49%	40%	39%	31%	32%	24%	30%	24%	34%	21%
It's nice outside	81%	26%	39%	65%	54%	29%	23%	25%	30%	8%	16%	24%	33%
I'm meeting up with friends or family	36%	63%	21%	25%	28%	46%	39%	37%	21%	30%	41%	35%	21%
It's the work week or school week	36%	51%	23%	29%	28%	49%	45%	47%	22%	16%	29%	30%	23%
I'm taking another transportation option in combination with this	52%	30%	19%	24%	29%	54%	48%	52%	26%	17%	19%	21%	26%
I'm headed to or from work	34%	55%	18%	21%	15%	50%	43%	52%	18%	20%	38%	29%	20%
I need to get somewhere as soon as possible	13%	76%	30%	21%	14%	28%	31%	27%	23%	52%	31%	40%	15%
The weather is bad	7%	72%	13%	7%	10%	39%	38%	42%	25%	49%	42%	44%	13%
I'm running errands or shopping	36%	75%	18%	17%	19%	28%	26%	33%	15%	17%	32%	35%	21%
I need exercise	85%	8%	20%	68%	49%	19%	18%	18%	18%	4%	9%	13%	41%
I'm traveling with kids	22%	63%	14%	11%	20%	29%	28%	25%	26%	22%	29%	41%	17%

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Transportation Options: Perceived Benefits

Q113 - Please check the items that describe the benefits or value of these transportation options. (n varies, among randomized subset of those use this transportation option more than 'never')	Owner Operated:						Public Transit:			For Hire:	Share-Based:		
	Walking	Driving a car	Motor scooter or moped	Bicycle	Skateboard, longboard, or rollerblades	Subway, Light Rail, Street car, or Trolley	Commuter Rail	Bus	Ferry	Taxi	Car-pooling or ride-sharing	Car-sharing	Bike-sharing
n=	467	397	68	233	79	382	280	384	89	180	201	130	86
Is an affordable option for me	70%	34%	29%	58%	40%	48%	45%	55%	25%	13%	38%	30%	25%
Is better for the environment	73%	8%	24%	64%	49%	50%	40%	41%	27%	8%	38%	26%	31%
Is reliable & generally on-time	36%	60%	25%	29%	26%	47%	47%	40%	26%	30%	29%	39%	27%
Allows me to be spontaneous & flexible	53%	69%	29%	44%	44%	28%	23%	24%	24%	35%	19%	30%	26%
Is clean & has a good environment	56%	42%	22%	46%	27%	34%	32%	22%	29%	19%	37%	30%	27%
Helps me feel more connected to my community & the area I reside in	58%	16%	34%	40%	32%	44%	33%	36%	30%	13%	28%	27%	29%
Allows me to pay-per-use (rather than a monthly fee)	10%	20%	14%	14%	24%	55%	49%	58%	34%	47%	20%	36%	22%
Feels like a good "community" of commuters or people like me	34%	16%	21%	36%	25%	41%	44%	37%	36%	10%	43%	28%	25%
I get more time to socialize (online, or via mobile)	27%	19%	11%	17%	27%	44%	43%	46%	39%	26%	34%	28%	23%
Offers the most personal space	46%	71%	21%	31%	26%	15%	14%	12%	28%	32%	20%	31%	23%
I can continue working easily	23%	36%	24%	24%	18%	45%	35%	37%	26%	22%	26%	21%	26%
Offers a subscription or monthly payment option	9%	14%	18%	8%	19%	43%	43%	45%	29%	10%	24%	29%	15%
Has great amenities (e.g. bike racks, Wi-Fi, outlets, etc.)	11%	19%	11%	21%	25%	32%	36%	31%	25%	16%	19%	24%	16%

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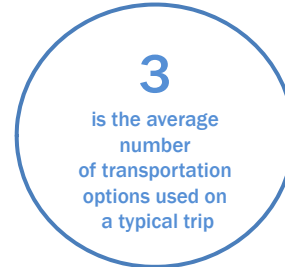
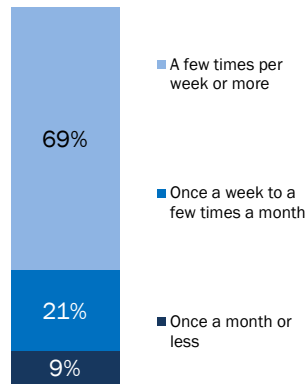
Transportation Options: Perceived Barriers

Q114 - Please check the items that are barriers & keep you from using or enjoying this more. (n varies, among randomized subset of those use this transportation option more than 'never')	Owner Operated:					Public Transit:			For Hire:	Share-Based:			
	Walking	Driving a car	Motor scooter or moped	Bicycle	Skateboard, longboard, or rollerblades	Subway, Light Rail, Street car, or Trolley	Commu ter Rail	Bus	Ferry	Taxi	Car-pooling or ride-sharing	Car-sharing	Bike-sharing
n=	467	397	68	233	79	382	280	384	89	180	201	130	86
It takes too long or is slower than other options	52%	9%	24%	31%	39%	33%	30%	48%	29%	12%	21%	15%	24%
Has a lack of personal space	8%	8%	14%	10%	21%	54%	45%	61%	20%	23%	39%	27%	14%
I can't connect online or via mobile 3G OR 4G with this transportation option	21%	26%	26%	33%	32%	31%	22%	26%	23%	23%	26%	25%	20%
Is too expensive	4%	44%	19%	6%	9%	26%	30%	19%	34%	61%	24%	35%	13%
Doesn't offer parking or space to use with some other transportation options	14%	30%	33%	20%	30%	20%	17%	20%	29%	21%	25%	25%	24%
It's unreliable timing-wise	18%	8%	23%	17%	33%	33%	27%	44%	19%	22%	24%	17%	18%
Isn't clean	8%	11%	15%	10%	16%	38%	38%	52%	25%	36%	18%	17%	16%
Isn't child or family-friendly	15%	8%	33%	27%	35%	25%	23%	27%	17%	22%	19%	19%	24%
Doesn't work well schedule-wise with other transportation options	20%	11%	21%	20%	31%	23%	29%	33%	19%	17%	23%	26%	20%
Offers less communication or harder to find info on access, times, fares, etc.	14%	13%	23%	22%	18%	22%	23%	24%	28%	26%	23%	21%	14%
Doesn't offer a great vibe or feel for the community	11%	29%	26%	11%	27%	17%	18%	24%	18%	34%	13%	21%	21%
Doesn't sync well or offer easy info to use with other transportation options	11%	13%	18%	16%	20%	19%	20%	22%	21%	23%	21%	24%	20%

Highlighting in chart above shows relative differences in cell values across these transportation options & survey response options.
(Note - the colors and shading on these tables can best be viewed in a full-color version of the report)

Millennials frequently use multiple transportation options & describe this as an increasing trend.

Frequency of Using Multiple Transportation Options to Reach a Destination
(Among % Total)



Q34 - Which of these trends have you noticed others doing more of or seen more of in your own life or behaviors?	TOTAL (n=1,000)
Using more than one transportation option to reach a destination	42%

Q16 - How often do you use more than one transportation option for getting to a destination? Please note, you should consider all options for transportation - including walking in answering this question. 7-Point Scale (n=1000)
Q17 - Please tell us, which combinations of options do you typically use together? Check All. Among those use more than one transportation option (n=980)

23

Reasons for multiple transportation options center around cost & convenience, but vary somewhat by city.

Q18 - Which of the following describe the reasons for or situations in which you use multiple transportation options to reach a destination?	TOTAL	Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washington, DC
n=	980	164	165	164	163	164	160
It helps me save money	42%	42%	44%	40%	53%	41%	33%
It is the best option logistically (shortest travel time)	42%	44%	41%	40%	45%	41%	42%
It's more convenient overall	42%	46%	41%	37%	41%	41%	43%
It helps me get more exercise (biking, walking some of the way)	32%	38%	34%	32%	35%	35%	20%
It allows me greater flexibility schedule-wise	29%	30%	25%	30%	27%	30%	31%
I can't avoid using multiple options because of where lines or services run to	29%	35%	36%	22%	22%	24%	35%
My smartphone or another online planning tool recommended it	15%	18%	20%	10%	16%	18%	10%
I missed a connection I was originally planning to catch	15%	9%	19%	12%	18%	21%	11%

Blue highlighting in chart above indicates a statistically significant difference between that cell and other(s) within the same row & sample group.

Q18 - Which of the following describe the reasons for or situations in which you use multiple transportation options to reach a destination? Check All. Among those use multiple modes more than 'never' (n varies)

24

Lifestyle Factors & Choices that Impact Mobility

25

Half of participants have public transit service within 2 blocks of their home.

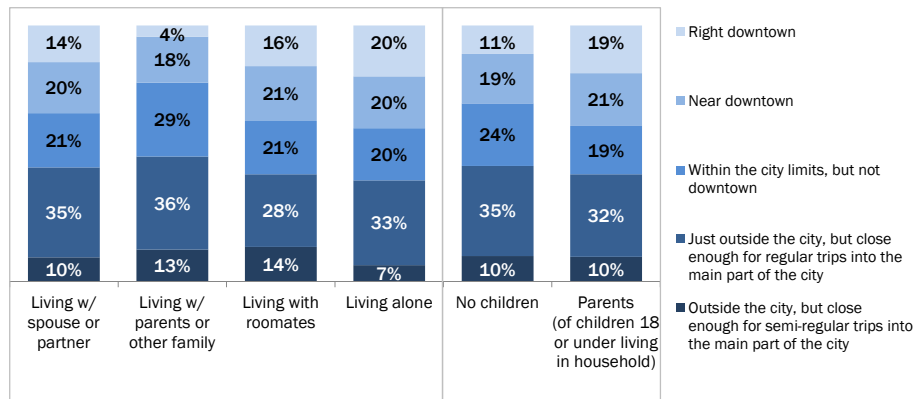
Q12 - How far away is the nearest transit service (e.g. bus stop, park & ride, train station, etc.) from your home residence?	TOTAL	Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washington, DC	Ages 22 to 27	Ages 28 to 34
n=	1000	167	167	167	167	167	167	500	500
2 blocks or less from home	49%	42%	54%	52%	50%	52%	43%	51%	47%
3-6 blocks from home	23%	23%	22%	23%	19%	29%	23%	24%	22%
¼ mile from home	8%	9%	6%	8%	11%	5%	6%	9%	6%
½ mile from home	6%	9%	2%	6%	5%	9%	5%	7%	5%
1 mile or more away from home	7%	9%	6%	4%	10%	3%	9%	6%	8%
2-3 miles away from home	4%	7%	4%	2%	5%	0%	8%	2%	7%
4-5 miles away from home	2%	0%	4%	3%	0%	1%	4%	1%	3%
5 or more miles away from home	1%	1%	1%	1%	1%	1%	2%	0%	2%

Blue highlighting in chart above indicates a statistically significant difference between that cell and other(s) within the same row & sample group.

26

Those who live alone or are parents living with children are most likely to live in or near “downtown”.

Home Neighborhood Proximity to “Downtown”
(Shown among Living Situation Groups & Parental Status)



S7 - Which of the following best describes the [INSERT CITY] neighborhood you live in? Check One. (n=485, 177, 127, 211, 626, 374)

27

Interestingly, there *aren't* significant differences between car owners & non-car owners when it comes “downtown” proximity.

Home Neighborhood Proximity to “Downtown” (Shown among Car Ownership status)	TOTAL	Currently own a car	Do NOT currently own a car	DIFFERENCE (in percentage points)
n=	1000	600	400	-
Right downtown	14%	13%	15%	+ 2 ppts.
Near downtown	20%	18%	22%	+ 4 ppts.
Within the city limits, but not downtown	22%	21%	24%	+ 3 ppts.
Just outside the city, but close enough for regular trips into the main part of the city	34%	36%	31%	- 5 ppts.
Outside the city, but close enough for semi-regular trips into the main part of the city	10%	11%	9%	- 2 ppts.

S7 - Which of the following best describes the [INSERT CITY] neighborhood you live in? Check One. (n varies)

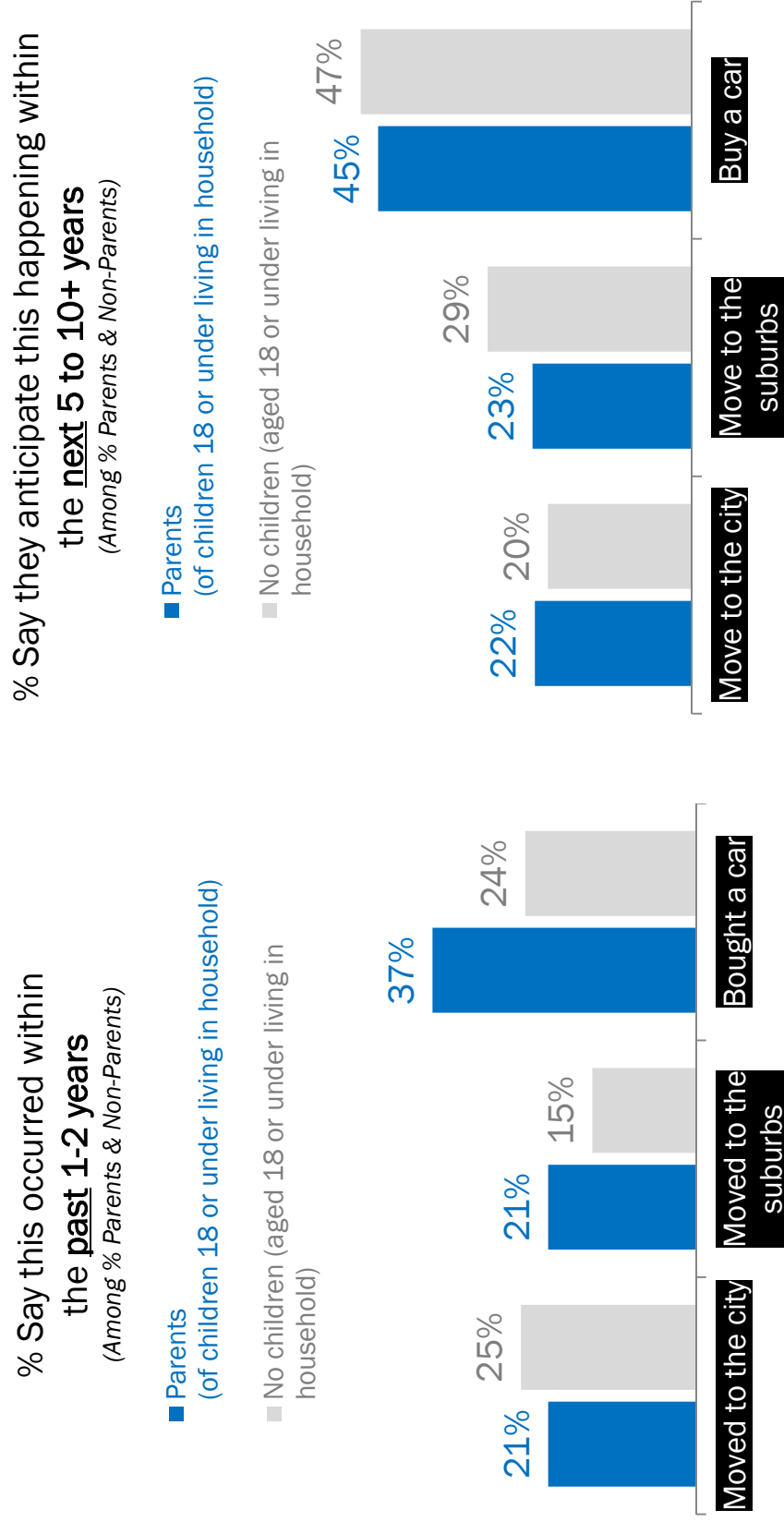
28

Personal Car Ownership & Purchase Plans

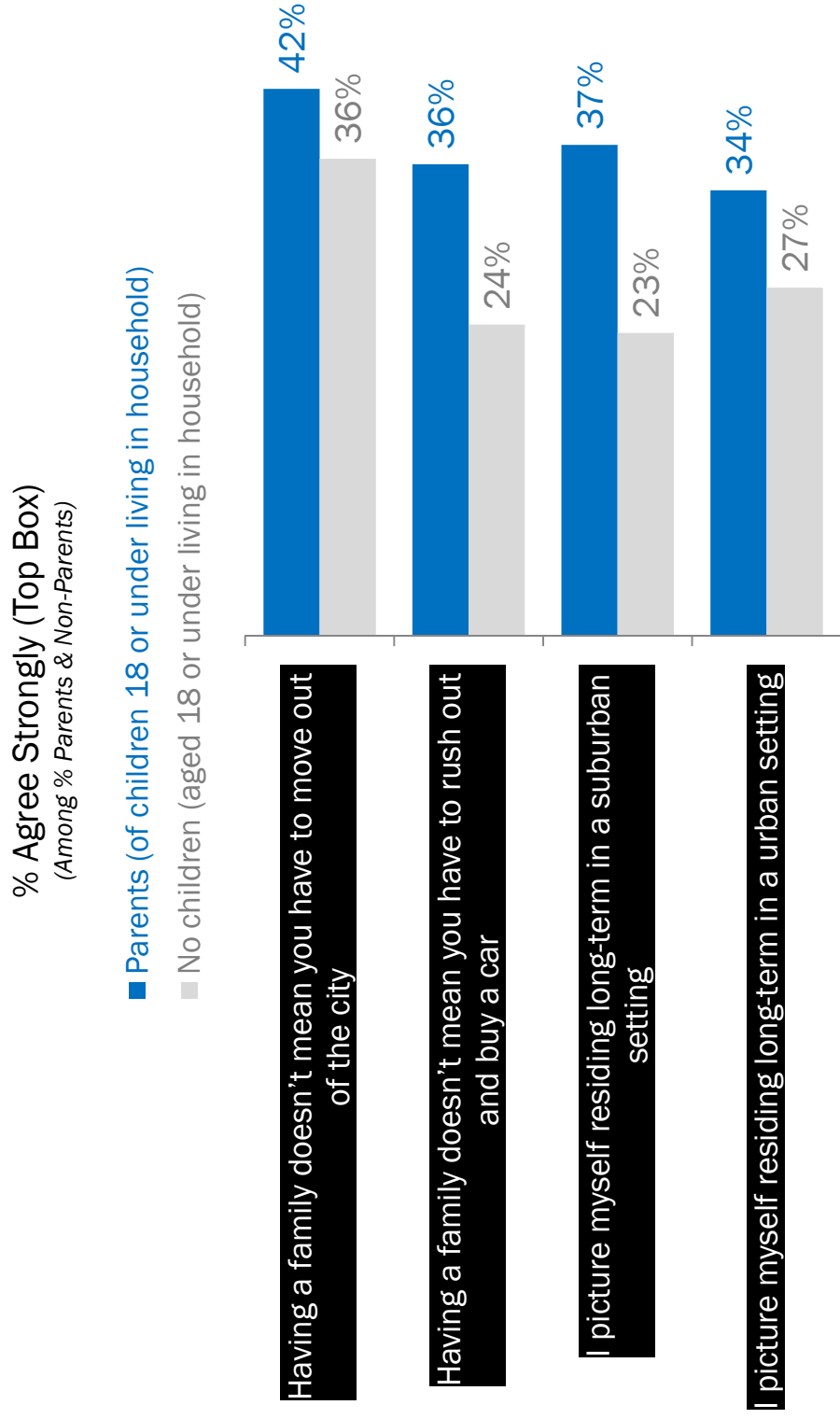
S9 - Which of the following best describes your car ownership status or plans?	TOTAL	Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washington, DC	Ages 22 to 27	Ages 28 to 34
n=	1000	167	167	167	167	167	167	500	500
Car Owners vs. NON Car Owners									
Currently own a car	60%	57%	53%	64%	58%	59%	69%	55%	65%
Do NOT currently own a car	40%	43%	47%	36%	42%	41%	31%	45%	35%
Car Ownership Plans									
I currently own a car (personally)	60%	57%	53%	64%	58%	59%	69%	55%	65%
I have regular access to a car someone else in my household owns	16%	18%	20%	19%	17%	14%	9%	18%	14%
I don't currently own a car, but plan to buy one within the next 1-2 years	15%	13%	19%	11%	18%	14%	14%	17%	13%
I don't currently own a car, and have no plans to buy one in the immediate future	9%	13%	8%	7%	7%	13%	8%	10%	8%
S10 - How many cars are owned by people in your household, including yourself?									
n=	1000	167	167	167	167	167	167	500	500
Mean # of Cars in household	1.55	1.35	1.52	1.62	1.69	1.71	1.41	1.62	1.48
Median # of Cars in household	1.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00

Blue highlighting in chart above indicates a statistically significant difference between that cell and other(s) within the same row & sample group.

Millennials who are parents were more likely to have bought a car, but only slightly more likely to have moved to suburbs than non-parents.



On an attitudinal level, Millennial parents may be more likely to feel freedom in options for how they'd like to live – with or without a car, in an urban or suburban environment.



Millennial parents may be more likely to “opt-in” to car ownership – as part of a multi-modal strategy to have options for getting around.

Q16 - How often do you use more than one transportation option for getting to a destination?	Parents (have kids under 18 living in household)		Do NOT have kids
	n=	374	
	% Use more than one transportation option for getting to a destination daily	43%	33%

Millennial parents are more likely to be using multiple transportation options on a daily basis.

S10 - How many cars are owned by people in your household, including yourself?	Parents (have kids under 18 living in household)		Do NOT have kids
	n=	374	
	Mean # of cars owned in household	1.70	1.46

They’re more likely to have multiple cars in their household, but interestingly, among car owners, Millennial parents were less likely to feel they have to have a car to get to the places they need to.

Q19 - Which of these describe how your car fits into your transportation routine? (Asked among car owners)	Parents (have kids under 18 living in household)		Do NOT have kids
	n=	253	
	I can’t get to the places I need to without a car (at least some of the time)	27%	36%

Blue highlighting in charts above indicates a statistically significant difference between that cell and other(s) within the same row & sample group.

Overall, half have lived in the city for less than 5 years, half have been there for 5 or more. Those living in Seattle, with a spouse/partner, roommate were most likely to be “newcomers” to the cities they live in.

Q21 - How long have you lived in the city you're currently in? 4-point scale	TOTAL	City						Ages		Living with spouse or partner	Living with parents or other family	Living with roommates	Do NOT have kids	PAR-ENTS (have kids 18 or under)	
		Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washing ton, DC	Ages 22 to 27	Ages 28 to 34						
n=	1000	167	167	167	167	167	167	500	500	485	177	127	211	626	374
2 years or less	19%	19%	16%	13%	25%	23%	20%	19%	20%	23%	6%	24%	20%	20%	18%
	30%	34%	28%	29%	30%	24%	36%	31%	30%	32%	23%	33%	30%	32%	28%
5-10 years	19%	20%	16%	22%	19%	18%	16%	19%	18%	20%	12%	23%	19%	16%	23%
10+ years	32%	26%	40%	36%	26%	35%	27%	32%	32%	25%	60%	20%	30%	32%	31%

Blue highlighting in chart above indicates a statistically significant difference between that cell and other(s) within the same row & sample group.

Ease of getting around, public transit availability, proximity to work, & city culture are among top reasons for current living location.

Q22 - Which of the following best describe the reasons you choose to live in this area? I live in this area because... Check All (n varies by sample group)	TOTAL	Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washington, DC
	1000	167	167	167	167	167	167
It is an easy city to get around It's close to my work I love the culture here	42%	45%	41%	43%	38%	48%	38%
	38%	40%	34%	42%	37%	31%	43%
	37%	37%	39%	37%	37%	44%	28%
There are plenty of public transit options available My family lives here	36%	38%	35%	36%	34%	39%	36%
	36%	33%	36%	42%	35%	40%	29%
	35%	35%	33%	36%	31%	40%	33%
My friends or significant other lives here There are lots of career opportunities It's a pedestrian-friendly city	32%	30%	28%	34%	34%	24%	44%
	31%	36%	22%	35%	28%	42%	23%
	31%	29%	29%	31%	32%	42%	21%
I grew up here I wanted to be in an urban location I don't feel "trapped" or stuck with what's around me	24%	31%	32%	24%	17%	16%	23%
	22%	24%	16%	23%	19%	31%	20%
	21%	21%	21%	19%	21%	28%	19%
I can be around like-minded people There are smaller neighborhoods or boroughs with distinct communities & offerings I wanted to be in an suburban location	20%	21%	18%	19%	22%	23%	17%
	16%	13%	15%	19%	16%	14%	19%
	12%	9%	11%	10%	16%	13%	12%
I have children now It was the only place I could afford I want to have kids someday	11%	10%	18%	13%	11%	6%	8%
	10%	10%	12%	9%	10%	11%	7%

Highlighting in chart above shows relative differences in cell values across these transportation options & survey response options.
(Note - the colors and shading on these tables can best be viewed in a full-color version of the report)

Younger Millennials are more likely to stay close to home.

Q22 - Which of the following best describe the reasons you choose to live in this area? I live in this area because... Check All (n varies by sample group)	Ages 22 to 27		Ages 28 to 34	
	500		500	
	n=		500	
It is an easy city to get around	44%		40%	
It's close to my work	38%		37%	
I love the culture here	36%		38%	
There are plenty of public transit options available	37%		36%	
My family lives here	42%		30%	
My friends or significant other lives here	39%		31%	
There are lots of career opportunities	31%		34%	
It's a pedestrian-friendly city	33%		30%	
I grew up here	37%		25%	
I wanted to be in an urban location	24%		24%	
I don't feel "trapped" or stuck with what's around me	25%		20%	
I can be around like-minded people	23%		20%	
There are smaller neighborhoods or boroughs with distinct communities & offerings	20%		20%	
I wanted to be in an suburban location	14%		17%	
I have children now	9%		15%	
It was the only place I could afford	11%		10%	
I want to have kids someday	10%		9%	

Younger Millennials
were more likely to live in an area having grown up there, having close personal ties, but interestingly also more likely to state that they **don't feel trapped or stuck with what's around them.**

Highlighting in chart above shows relative differences in cell values across these transportation options & survey response options.
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Millennials living with roommates were most likely group to describe mobility-related options as reason for living where they do.

Q22 - Which of the following best describe the reasons you choose to live in this area? I live in this area because... Check All (n varies by sample group)	n =			
	Living w/ spouse or partner	Living w/ parents or other family	Living with room- mates	Living alone
	485	177	127	211
It is an easy city to get around It's close to my work I love the culture here	39%	45%	51%	42%
	37%	30%	44%	42%
	41%	32%	37%	32%
There are plenty of public transit options available	36%	36%	38%	37%
	32%	64%	26%	29%
My family lives here				
My friends or significant other lives here There are lots of career opportunities It's a pedestrian-friendly city	39%	37%	38%	21%
	33%	25%	37%	33%
	29%	26%	42%	33%
I grew up here I wanted to be in an urban location	24%	59%	24%	27%
	24%	21%	31%	22%
I don't feel "trapped" or stuck with what's around me I can be around like-minded people There are smaller neighborhoods or boroughs with distinct communities & offerings	22%	19%	27%	24%
	24%	18%	26%	16%
	22%	16%	21%	16%
I wanted to be in an suburban location I have children now	19%	12%	12%	13%
	19%	7%	3%	4%
It was the only place I could afford I want to have kids someday	10%	16%	8%	11%
	13%	9%	5%	6%

Those living with a spouse or partner were most likely to say loving the city culture & their significant other were reasons for living in their current location.

Those living with family unsurprisingly described growing up, family ties & money as reasons for living where they do now.

Those living with roommates were the most likely group to cite the city's transportation-related attributes & pedestrian-friendliness as reasons for their current living location.

Highlighting in chart above shows relative differences in cell values across these transportation options & survey response options.
(Note - the colors and shading on these tables can best be viewed in a full-color version of the report)

Those without children are more likely to live in an area because of the public transportation options available.

Q22 - Which of the following best describe the reasons you choose to live in this area? I live in this area because...	Do NOT have kids	PARENTS (have kids 18 or under)
Check All (n varies by sample group)	626	374
It is an easy city to get around	45%	37%
It's close to my work	39%	36%
I love the culture here	37%	36%
There are plenty of public transit options available	40%	29%
My family lives here	35%	38%
My friends or significant other lives here	36%	32%
There are lots of career opportunities	35%	28%
It's a pedestrian-friendly city	32%	30%
I grew up here	33%	27%
I wanted to be in an urban location	26%	20%
I don't feel "trapped" or stuck with what's around me	24%	20%
I can be around like-minded people	22%	21%
There are smaller neighborhoods or boroughs with distinct communities & offerings	19%	21%
I wanted to be in an suburban location	13%	20%
I have children now	1%	30%
It was the only place I could afford	10%	12%
I want to have kids someday	10%	9%

Those who are not parents were more likely to say that the city's transportation-related attributes & pedestrian-friendliness, career opportunities & active choice to live in an urban as reasons for their current living location.

That said, even among parents, 29% said availability of public transit options was a motivation for living in the area they do, suggesting there's a smaller, but still sizeable group of parents with similar urban-centric / public transit priorities.

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Current & Future Lifestyle / Setting Plans

Q23 - How well do these statements describe your attitudes about where you live & your plans for the future? (% TOP BOX 'Agree strongly')	TOTAL	City						Ages 22 to 27		Ages 28 to 34		Living w/ spouse or partner	Living w/ parents or other family	Living with room-mates	Living alone	Do NOT have kids	PAR-ENTS (have kids 18 or under)
		Boston, MA	Chi-cago, IL	San Fran-cisco, CA	Seattle, WA	Port-land, OR	Washing-ton, DC	500	500	485	177						
I'm currently pursuing a field of employment or study that I'm interested in	39%	45%	44%	37%	33%	39%	38%	39%	40%	39%	39%	44%	38%	39%	40%		
Having a family doesn't mean you have to move out of the city	38%	34%	42%	33%	41%	50%	30%	41%	36%	38%	40%	38%	39%	36%	42%		
I'm still trying to figure things out (e.g. what I want to do, where I'll end up)	31%	32%	36%	28%	34%	28%	25%	32%	30%	25%	44%	33%	30%	29%	33%		
I picture myself residing long-term in a urban setting	29%	26%	31%	32%	31%	32%	23%	27%	32%	31%	25%	29%	30%	27%	34%		
I picture myself residing long-term in a suburban setting	28%	31%	33%	26%	28%	30%	23%	25%	32%	32%	26%	27%	23%	23%	37%		
Having a family doesn't mean you have to rush out and buy a car	28%	28%	28%	25%	32%	32%	24%	29%	28%	28%	30%	22%	32%	24%	36%		
I'm already well-established in a field of work or study of interest to me	28%	27%	25%	33%	27%	29%	27%	26%	30%	33%	19%	28%	24%	24%	35%		

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Millennial “Hot Spot” Neighborhoods vs. Non Residents

- Using a subset of zip codes considered to be “Millennial Hot Spots” across surveyed cities, **1/3 of the survey sample** was defined as living in one of these Millennial “hot spot” neighborhoods.
- Those living in a “hot spot” neighborhood are distinguished from those who do not in some of the following ways:
 - Less likely to personally **own a car, drive** one regularly, or frequently (weekly+) **use car-sharing** services
 - More likely to **use a bus & subway** a few times a week +
 - More likely to cite **ease of getting around**, wanting to live in an **urban location**, and **feeling connected to the area** as reasons for living where they do now
 - More likely to cite the need to **save money, avoid traffic**, not wanting the **burden of a car**, & caring about the **environment** as motivations behind their transportation choices/routines
 - More likely to have noticed rising trends of **trip-planning tools** being used, and **finding more to like in their local area** (e.g. hidden gems) as trends on the rise.

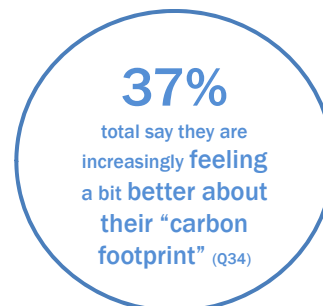
Transportation Trends & Motivations

40

Transportation Trends: ENVIRONMENTAL CONSIDERATIONS

Millennials care about the environment. San Franciscans & those living with roommates are the most likely to cite environmental considerations as a motivating factor in their transportation decisions.

% Say ' I care about the environment ' as a motivation for their transportation routine overall (Q31, n varies by sample group)	
TOTAL	34%
Boston, MA	35%
Chicago, IL	33%
San Francisco, CA	42%
Seattle, WA	37%
Portland, OR	35%
Washington, DC	25%
Living with spouse or partner	33%
Living with parents or other family	36%
Living with roommates	44%
Living alone	31%
No children (aged 18 or under living in household)	37%
Parents (of children 18 or under living in household)	30%



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Transportation Trends: ENVIRONMENTAL CONSIDERATIONS

The attribute of being “better for the environment,” was a top-ranking perceived benefit for **walking, biking, skate boarding, subway/light rail**, as well as **bike-sharing**.

% Say 'is **better for the environment**' as a benefit for this transportation option (Q113, n varies by mode)

Walking	73%
Bicycle (Owned)	64%
Public Transit: Subway, Light Rail, Streetcar, or Trolley	50%
Skateboard, longboard, or rollerblades	49%
Public Transit: Bus	41%
Public Transit: Commuter Rail	40%
Car-pooling or ride-sharing	38%
Bike-sharing	31%
Public Transit: Ferry	27%
Car-sharing	26%
Motor scooter or moped	24%
Taxi	8%
Driving a car (Owned)	8%

“Our generation grew up **knowing** all about the effects on the environment that cars can have, so we've grown up with an **attitude of wanting to do our part** for the earth - something that we can **easily do with public transit** and not with cars”

Highlighting in chart above shows relative differences in cell values across these transportation options & survey response options.
(Note - the colors and shading on these tables can best be viewed in a full-color version of the report)

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Transportation Trends: ENVIRONMENTAL CONSIDERATIONS

While Millennials consider the environment and their carbon footprint, other considerations have greater importance to their transportation decisions such as the cost, convenience, the ability to get exercise, and transit-friendly neighborhood preference.

Top 5 reasons or motivations for transportation choices or routines overall (Q31, Among % Total, n=1,000)

I need to save money	46%
It is the most convenient	46%
It allows me to get some exercise (walking, biking, riding, etc.)	44%
I live in an area where it makes more sense to use public transit	35%
I care about the environment	34%

“I think my generation is more environmentally conscious because of all the research on the detrimental effects fossil fuels have on the environment, so I think more people in my generation try to reduce their carbon footprint”

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Transportation Trends: SHARE-BASED OPTIONS

Although not in wide-spread use, Millennials are becoming increasingly aware of and interested in the idea of share-based transportation services.

Q34 - Which of these trends have you noticed others doing more of or seen more of in your own life or behaviors?	TOTAL (n=1,000)
Taking advantage of share programs & services (e.g. bike sharing, car sharing)	33%

“Most of my friends my age view bicycling as a viable option for transportation year-round. I've found that some of my older friends are more reluctant to embrace it. I see only growth for the use of bicycles - both owner-driven and bike-share in this community”

44

Transportation Trends: WORKING ANYWHERE, AT ANYTIME

Millennials are mobile, and so is their work. Being able to connect with digital resources and accomplish work while traveling is a growing trend & an important benefit. That said, this anywhere/everywhere work style only reduces concern about time spent traveling for 1 in 5 Millennials.

Q34 - Which of these trends have you noticed others doing more of or seen more of in your own life or behaviors?	TOTAL (n=1,000)
Working while traveling	39%
Worrying less about going to work to get work done, and home to rest as I can now work or study from nearly anywhere	22%
Worrying less about reaching places on time than before	21%

“Many of us are happy with biking or walking, and see public transit as a way to meet people, connect, and have extra time to do work while commuting...and with smartphones it's easy to figure out bus schedules and keep connected while commuting”

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Transportation Trends: SOCIAL & COMMUNITY CONNECTIONS (ONLINE & OFFLINE)

Millennials say they're getting more social while traveling – much of this taking place online or through mobile. They also display an increasing awareness of & desire for connection to “community” (e.g. experiencing / seeing more of the area they live in, seeing others “like me” in their transportation routines, etc.)

Q34 - Which of these trends have you noticed others doing more of or seen more of in your own life or behaviors?	TOTAL (n=1,000)
Socializing while traveling	36%
Finding more to like (e.g. hidden gems) in the area	33%
Feeling like a better member of the community	26%

Q31 - Which of these describe the reasons or motivations for your transportation choices or routines?	TOTAL (n=1,000)
I feel better connected to the area I live in	22%

“My generation is more willing to use public transit and alternative transportation to have less effect on the environment, save money, and to be more engaged with their community”

“We are more aware of how our actions impact the larger community”

Transportation Trends: SOCIAL & COMMUNITY CONNECTIONS (ONLINE & OFFLINE)

Public transit options were considered the most likely to allow for more socializing (digitally), and most likely to offer a good “community” feel. (Walking was also a top mode for this community-related benefit.)

Q113 - Please check the items that describe the benefits or value of each of these transportation options. (n varies, among randomized subset of those use this transportation option more than 'never')	Helps me feel more connected to my community & the area I reside in	Feels like a good “community” of commuters or people like me	I get more time to socialize (online, or via mobile)
Public Transit: Subway, Light Rail, Streetcar, or Trolley	44%	41%	44%
Public Transit: Commuter Rail	33%	44%	43%
Public Transit: Bus	36%	37%	46%
Walking	58%	34%	27%
Public Transit: Ferry	30%	36%	39%
Car-pooling or ride-sharing	28%	43%	34%
Bicycle (Owned)	40%	36%	17%
Skateboard, longboard, or rollerblades	32%	25%	27%
Car-sharing	27%	28%	28%
Bike-sharing	29%	25%	23%
Motor scooter or moped	34%	21%	11%
Driving a car (Owned)	16%	16%	19%
Taxi	13%	10%	26%

“It’s the technology age
–fewer people are
socializing in person
and more are
socializing online”

“We are more aware of
how our actions impact
the larger community.

We live in an
increasingly urban
world where more
people are choosing to
live in cities and forgo
the suburban lifestyle”

Highlighting in chart above shows relative differences in cell values across these transportation options & survey response options.
(Note - the colors and shading on these tables can best be viewed in a full-color version of the report)

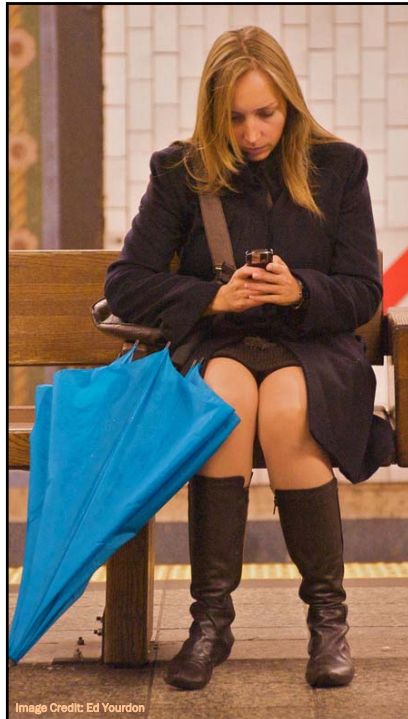


Image Credit: Ed Yourdon

Potential Takeaways for Future Millennial Transportation Offerings:

ENSURE MILLENNIALS CAN CONNECT to their digital world while traveling

Q35 / Q36 - In the future (10 years from now), I'd like to see transportation options that...	TOTAL (n=1000)
Ensure Wi-Fi or 3G / 4G connectivity everywhere I go	54%
Are more connected or tech-friendly	45%

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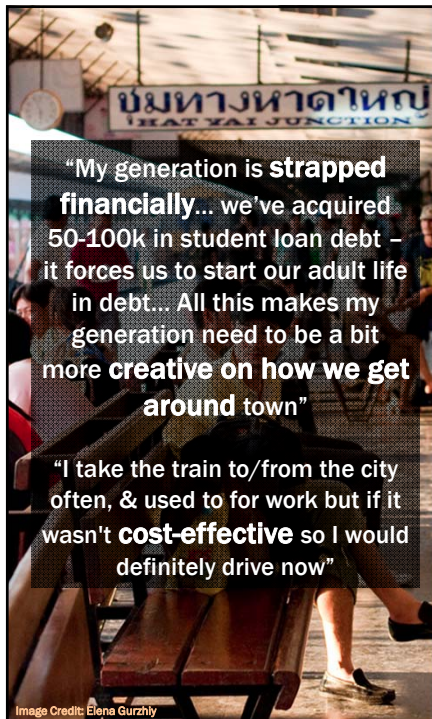


Image Credit: Elena Gurzhly

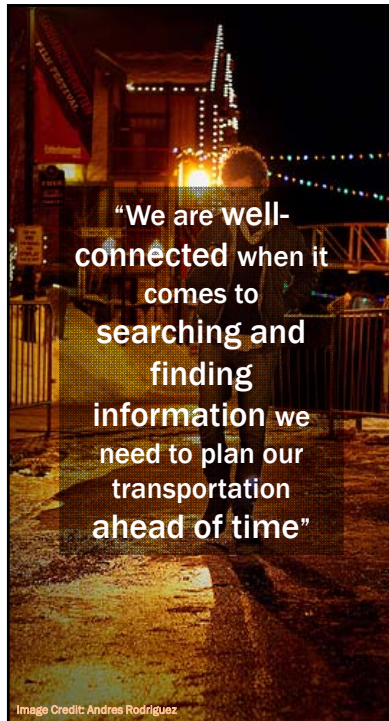
Potential Takeaways for Future Millennial Transportation Offerings:

KNOW THAT MILLENNIALS WILL CONTINUE TO LOOK FOR WAYS TO SAVE MONEY:

Public transit providers should keep services as affordable as possible for those starting out on a new career, starting a family, and/or paying a premium on housing for an urban lifestyle (and keep options less than the cost of owning/running a car)

Q35 / Q36 - In the future (10 years from now), I'd like to see transportation options that...	TOTAL (n=1000)
Are more affordable	62%

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Potential Takeaways for Future Millennial Transportation Offerings:

Where budgets constrain making core improvements to reliability & consistency, **OFFER DIGITAL TOOLS WITH REAL-TIME UPDATES** that reduce the "work" of figuring out an efficient trip even when there are delays, etc.

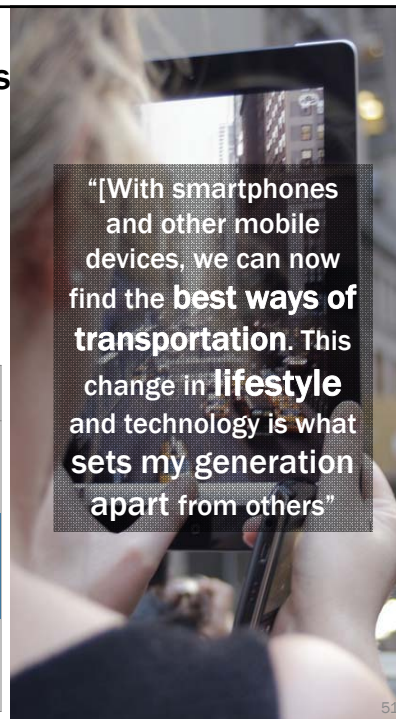
Q35 / Q36 - In the future (10 years from now), I'd like to see transportation options that...	TOTAL (n=1000)
Are more reliable	61%
Offer more real-time updates to help me avoid waiting longer than needed	55%
Are more user-friendly and intuitive (e.g. don't make me dig around for info)	44%
Are more precise	38%

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Potential Takeaways for Future Millennial Transportation Offerings

HELP MILLENNIALS OPTIMIZE THEIR EXPERIENCE: Consider offering tools & services that allow users to explore transportation/trip options based on their **TACTICAL NEEDS** (e.g., more efficient routes/times, ways to take advantage of new bike share programs, etc.), but *also* by **THEIR FRAME OF MIND** (e.g., ideal routes for enjoying great weather, staying 3G connected throughout trip to get work done, etc.)

Q36 - In the future (10 years from now), I'd like to see more technology & tool offerings that...	TOTAL (n=1000)
Help me optimize my entire travel experience across different options & locations	44%
Provide transportation options based on what mindset I may be in (e.g. routes perfect for good weather, bad weather, most cost efficient, etc.)	43%
Help me take advantage of more "alternative" transportation options (e.g. bike share, walking, etc.)	38%



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Potential Takeaways for Future Millennial Transportation Offerings:

INTEGRATE WITH MILLENNIAL INTERESTS

- Make time spent with transportation mean a mix of social time, work time, and entertainment/media time for Millennials; consider offering features & partnerships that include both tactical info AND content/tools/games that deliver on the things they're already looking for.

EXPAND ON WHAT PUBLIC TRANSIT EXPERIENCE CAN/SHOULD BE:

- Create messaging & digital tools that play the role of a well-liked city bus driver: already an expert at navigating efficiently, but also able to offer personalized recommendations & interesting facts about the local area one would not have encountered on his or her own.

Q35/Q36 - In the future (10 years from now), I'd like to see more technology & tool offerings that...	TOTAL (n=1000)
Collect all of the information I care about in one place (e.g. times, locations, weather, local news headlines, alternative route options, etc.)	38%
Help me make local "discoveries" (e.g. restaurants, events, local news, local history and facts, other commuters' social network profiles, etc.)	36%
Are more connected to the community	34%
Are more connected to the things I'm doing at home (e.g. playing games, working, watching movies, checking out people's social media posts, etc.)	23%

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Potential Takeaways for Future Millennial Transportation Offerings:

SPEAK TO MILLENNIALS' LIFESTYLES & NEEDS

by catering transportation services, messaging, & other offerings to Millennials as they progress through different life stages.

Q35/Q36 - In the future (10 years from now), I'd like to see more technology & tool offerings that...	TOTAL (n=1000)
Are more family-friendly or child-friendly	41%
Are more for working people or professionals	37%
Are more for students	30%



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APPENDIX

Quantitative Survey Sampling Criteria

Notes on Changes Made to Screening Criteria & Quotas to Complete Survey Fielding

The following sampling criteria specifications at right in blue text reflect changes that were made to the original criteria mid-survey fielding.

These changes were made after numerous consultations with our sample provider, as a higher than initially anticipated survey disqualifying rate with the original screening criteria prohibited us from moving forward any further in fielding for the full n=1,000 survey completes.

That said, with the robust sample size of n=1,000 in total completes, we will be able to use data cut analyses to review responses among those meeting all originally specified criteria if desired for any particular measures.

- ✓ All are ages 22-34 with a mix of the following age groups:
 - ✓ Ages 22-27
 - ✓ Ages 28-34
- ✓ 50/50 gender split
- Most are smartphone/tablet owners, small group of non-mobile device owners for comparison:
 - ~12% do NOT own a smartphone
 - ~35% do NOT own a tablet
 - ~8% do NOT own a smartphone NOR a tablet
- ✓ All live in one of 6 target cities (Boston, Chicago, San Francisco, Seattle, Portland, or Washington DC)
- ✓ All must use at least one mode of public transportation (e.g. Subway/Light Rail/Streetcar/Trolley, Commuter Rail, Bus, OR Ferry) “a few times a month” or more often.
- Neighborhood proximity to “downtown”:
 - 90% live in a neighborhood that is either: “right downtown,” “near downtown,” “within the city limits, but not downtown,” OR “just outside of the city, but close enough for regular trips into the main part of the city”
 - 10% live “outside the city, but close enough for semi-regular trips into the main part of the city”
- Current car ownership:
 - 60% are current car owners,
 - 40% do NOT currently own a car of their own

Living Situation

DEM6 - Which of the following best describes your current living situation?	TOTAL	Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washington, DC	Ages 22 to 27	Ages 28 to 34
n=	1000	167	167	167	167	167	167	500	500
Married and living with my spouse	30%	28%	34%	36%	29%	28%	26%	16%	44%
Living alone	21%	20%	21%	22%	22%	17%	25%	26%	16%
Living with a significant other or partner	18%	21%	17%	13%	18%	23%	18%	19%	18%
Living with parents or other family members	18%	12%	21%	20%	20%	19%	14%	22%	13%
Living with roommates or friends	13%	19%	7%	9%	11%	14%	16%	17%	8%

Blue highlighting in chart above indicates a statistically significant difference between that cell and other(s) within the same row & sample group.

Parental Status & Children's Age Groups

DEM7 - Are you the parent of any children in the following age groups currently living in your household?		TOTAL	Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washington, DC
n=		1000	167	167	167	167	167	167
Parent Status								
Do not have kids		63%	66%	65%	58%	64%	57%	66%
Have kids age 18 or under		37%	34%	35%	42%	36%	43%	34%
Children Age Groups								
0 – 5 years old		24%	21%	20%	25%	24%	29%	22%
6 – 10 years old		14%	10%	17%	17%	14%	12%	14%
11 – 15 years old		6%	7%	7%	9%	5%	8%	3%
16 – 18 years old		2%	3%	1%	2%	1%	5%	2%

Blue highlighting in chart above indicates a statistically significant difference between that cell and other(s) within the same row & sample group.

Ethnicity

DEM8 - Which of the following best describes your ethnicity?	TOTAL	Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washington, DC
n=	1000	167	167	167	167	167	167
White or Caucasian	59%	73%	47%	35%	61%	80%	55%
Asian or Pacific Islander	20%	12%	17%	42%	23%	11%	14%
Black or African American	11%	6%	19%	7%	8%	5%	19%
Hispanic or Latino or Latina	9%	8%	15%	14%	5%	3%	11%
Another ethnicity	2%	1%	2%	3%	2%	1%	1%

Blue highlighting in chart above indicates a statistically significant difference between that cell and other(s) within the same row & sample group.

Education & Income

DEM9 – What is the highest level of education you have completed or received credit for?	TOTAL	Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washington, DC
n=	1000	167	167	167	167	167	167
Some college or less	39%	30%	41%	29%	49%	56%	30%
Completed college	44%	50%	44%	49%	40%	33%	47%
Post graduate	17%	20%	15%	23%	11%	11%	23%

DEM10 - Which of the following categories best represents your yearly household income before taxes?	TOTAL	Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washington, DC
n=	1000	167	167	167	167	167	167
Income Groups							
Less than \$50K	39%	43%	37%	28%	50%	46%	30%
\$50K to less than \$75K	24%	25%	24%	22%	24%	24%	23%
\$75K or more	37%	32%	38%	50%	26%	30%	47%
Mean Income							
	\$69,715.21	\$66,180.29	\$70,958.85	\$83,392.10	\$59,462.50	\$59,833.00	\$78,464.50

Blue highlighting in chart above indicates a statistically significant difference between that cell and other(s) within the same row & sample group.

Employment Status

S3 - Are you currently...?	TOTAL	Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washing- ton, DC	Ages 22 to 27	Ages 28 to 34
n=	1000	167	167	167	167	167	167	500	500
Employed full-time (35 hours or more)	60%	62%	61%	64%	54%	51%	68%	52%	68%
Employed part time (20-34 hours)	14%	10%	13%	14%	16%	17%	14%	18%	11%
A full-time student	9%	12%	9%	9%	11%	9%	6%	14%	5%
A stay-at-home parent or homemaker	7%	6%	5%	5%	11%	10%	7%	6%	9%
Not currently employed	7%	10%	11%	4%	9%	8%	3%	9%	6%
Employed part-time (20 or less hours)	4%	4%	3%	7%	5%	7%	0%	6%	3%
A part-time student	2%	1%	1%	3%	1%	3%	4%	3%	0%

Blue highlighting in chart above indicates a statistically significant difference between that cell and other(s) within the same row & sample group.

Smartphone & Tablet Device Ownership

S4 - Which of the following devices do you currently own? Check All.		TOTAL	Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washington, DC	Ages 22 to 27	Ages 28 to 34
	n=	1000	167	167	167	167	167	167	500	500
Smartphone Ownership										
	Own a smartphone	88%	92%	91%	90%	84%	83%	92%	90%	87%
	DO NOT own a smartphone	12%	8%	9%	10%	16%	17%	8%	10%	13%
Tablet Ownership										
	Own a tablet	65%	61%	67%	75%	62%	57%	69%	60%	70%
	DO NOT own a tablet	35%	39%	33%	25%	38%	43%	31%	40%	30%

Blue highlighting in chart above indicates a statistically significant difference between that cell and other(s) within the same row & sample group.

Overall Motivations for Transportation Routines

(Part 1 of 2)

Q31 - Which of these describe the reasons or motivations for your transportation choices or routines?	TOTAL	Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washington, DC	Ages 22 to 27	Ages 28 to 34
n=	1000	167	167	167	167	167	167	500	500
I need to save money	46%	46%	47%	50%	50%	50%	36%	48%	45%
It is the most convenient	46%	49%	47%	46%	37%	46%	54%	47%	46%
It allows me to get some exercise (walking, biking, riding, etc.)	44%	47%	43%	43%	45%	49%	35%	45%	42%
I live in an area where it makes more sense to use public transit	35%	44%	38%	33%	29%	28%	39%	37%	34%
I care about the environment	34%	35%	33%	42%	37%	35%	25%	36%	33%
It's easy to use a mix of transportation options (e.g. subway + walking, etc.)	33%	38%	35%	33%	35%	30%	30%	35%	32%
I feel more self-sufficient	33%	35%	30%	29%	32%	39%	30%	32%	33%
It provides great "downtime" for me	29%	27%	27%	32%	36%	30%	24%	32%	27%
It helps me get outside more often than I otherwise would	29%	30%	29%	27%	29%	31%	25%	33%	24%

Blue highlighting in chart above indicates a statistically significant difference between that cell and other(s) within the same row & sample group.

Overall Motivations for Transportation Routines

(Part 2 of 2)

Q31 - Which of these describe the reasons or motivations for your transportation choices or routines?	TOTAL	Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washington, DC	Ages 22 to 27	Ages 28 to 34
n=	1000	167	167	167	167	167	167	500	500
There's too much traffic to get around in a car or taxi	28%	32%	30%	29%	28%	19%	31%	32%	24%
I don't have to feel burdened by a car	28%	33%	27%	31%	22%	30%	22%	30%	25%
It's better for everyone in the area if more people utilize the public transit options available	26%	27%	20%	31%	23%	26%	26%	28%	24%
It's an important part of my life & lifestyle	24%	25%	21%	31%	20%	25%	22%	23%	25%
It allows me greater flexibility at work	24%	24%	30%	23%	19%	20%	25%	23%	24%
I feel better connected to the area I live in	22%	25%	25%	29%	19%	23%	13%	25%	20%
Everyone I work or go to school with uses these transportation options	19%	17%	19%	21%	19%	18%	19%	21%	16%
It's a good opportunity to "unplug" from the online / mobile world for a bit	18%	19%	15%	21%	15%	25%	15%	19%	17%
I can always rent a car or use a car sharing service if I want to	13%	15%	13%	12%	14%	15%	11%	14%	12%
My smartphone suggested it	13%	8%	13%	11%	17%	19%	9%	13%	12%

Blue highlighting in chart above indicates a statistically significant difference between that cell and other(s) within the same row & sample group.

Observed Transportation-Related Trends

Q34 - Which of these trends have you noticed others doing more of or seen more of in your own life or behaviors?	TOTAL	Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washington, DC	Ages 22 to 27	Ages 28 to 34
Using trip-planning tools or mobile apps to reach places more efficiently	43%	46%	40%	39%	47%	41%	43%	42%	43%
Using more than one transportation option to reach a destination	42%	48%	43%	43%	35%	47%	36%	43%	41%
Working while traveling	39%	42%	45%	41%	44%	30%	35%	37%	42%
Feeling a bit better about my “carbon footprint”	37%	37%	34%	38%	41%	41%	31%	39%	35%
Socializing while traveling	36%	39%	37%	36%	42%	35%	28%	38%	34%
Taking advantage of share programs & services (e.g. bike sharing, car sharing)	33%	32%	29%	32%	40%	28%	37%	35%	30%
Finding more to like (e.g. hidden gems) in the area	33%	35%	31%	32%	24%	39%	35%	34%	32%
Feeling like a better member of the community	26%	24%	25%	27%	23%	34%	22%	24%	27%
Worrying less about going to work to get work done, and home to rest as I can now work or study from nearly anywhere	22%	25%	26%	19%	21%	23%	18%	21%	23%
Worrying less about reaching places on time than before	21%	17%	22%	20%	18%	27%	25%	18%	24%

Blue highlighting in chart above indicates a statistically significant difference between that cell and other(s) within the same row & sample group.

Desires for Future Transportation Offerings

Q35 - In the future (10 years from now), I'd like to see transportation options that are more...	TOTAL	City						Age	
		Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washington, DC	Ages 22 to 27	Ages 28 to 34
		167	167	167	167	167	167	500	500
	n=	1000							
Affordable	62%	65%	57%	57%	57%	71%	68%	62%	63%
Reliable	61%	65%	58%	61%	60%	60%	64%	60%	62%
Connected or Tech-friendly	45%	43%	40%	47%	50%	45%	46%	44%	46%
Family-friendly or child-friendly	41%	39%	44%	42%	51%	36%	30%	37%	44%
Precise	38%	36%	37%	38%	45%	35%	38%	36%	40%
For working people or professionals	37%	31%	35%	39%	45%	39%	35%	36%	39%
Connected to the community	34%	33%	32%	37%	36%	42%	27%	34%	35%
For students	30%	24%	32%	31%	35%	35%	23%	34%	26%
Connected to the things I'm doing at home (e.g. playing games, working, watching movies, checking out people's social media posts, etc.)	23%	19%	21%	26%	27%	19%	23%	23%	22%

Blue highlighting in chart above indicates a statistically significant difference between that cell and other(s) within the same row & sample group.

Digital Tools & Technology Desires for Future

Q36 - Thinking about mobile & online technology or tools related to transportation options...	TOTAL	Location					Age		
		Boston, MA	Chicago, IL	San Francisco, CA	Seattle, WA	Portland, OR	Washington, DC	Ages 22 to 27	Ages 28 to 34
n=	1000	167	167	167	167	167	167	500	500
Offer more real-time updates to help me avoid waiting longer than needed	55%	64%	55%	55%	54%	52%	48%	55%	54%
Ensure Wi-Fi and or 3G or 4G connectivity everywhere I go	54%	51%	52%	56%	55%	51%	57%	54%	53%
Are more user-friendly and intuitive (e.g. don't make me dig around for info)	44%	42%	37%	49%	47%	44%	45%	44%	44%
Help me optimize my entire travel experience across different options & locations	44%	40%	43%	46%	48%	45%	41%	44%	44%
Provide transportation options based on what mindset I may be in (e.g. routes perfect for good weather, bad weather, most cost efficient, etc.)	43%	42%	44%	43%	48%	44%	37%	41%	45%
Collect all of the information I care about in one place (e.g. times, locations, weather, local news headlines, alternative route options, etc.)	38%	40%	35%	35%	40%	39%	39%	39%	37%
Help me take advantage of more "alternative" options (e.g. bike share, walking, etc.)	38%	37%	38%	44%	39%	37%	33%	38%	38%
Help me make local "discoveries" (e.g. restaurants, events, local news, local history and facts, other commuters' social network profiles, etc.)	36%	35%	32%	37%	37%	38%	40%	37%	36%
Are less about providing information & stats, and more about decision-making	20%	20%	26%	20%	17%	17%	20%	20%	19%

Blue highlighting in chart above indicates a statistically significant difference between that cell and other(s) within the same row & sample group.