CTA RIDER/NON-RIDER BEHAVIOR AND ATTITUDES SURVEY

Presented to Chicago Area Travel Model User Group September 1, 2010

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Prepared for the Chicago Transit Authority
Prepared by Abt SRBI

Agenda

Background & Method

Key Findings

Summary of Key Findings

Q & A



Background & Method

• Background

Method



Background

- Last conducted in 2000
- CTA wants to increase ridership
- Goal is to understand the complexities of those in CTA service area:
 - who they are
 - how they travel
 - transportation needs
 - CTA's image
 - opportunities for improving performance and communications



Method

- Telephone survey among those with landlines and cell-phone service
- 2800 service area residents age 16+
- Disproportionate sample by geography
- Weighted to match known pop statistics by demography, geography, phone ownership
- Questionnaire: trip behavior, transportation needs, demographics, CTA and auto attitudes
- Fielded October November 2009



Key Findings

- Customer Landscape
- Needs/Perceptions/Delivery Gaps
- Segmentation



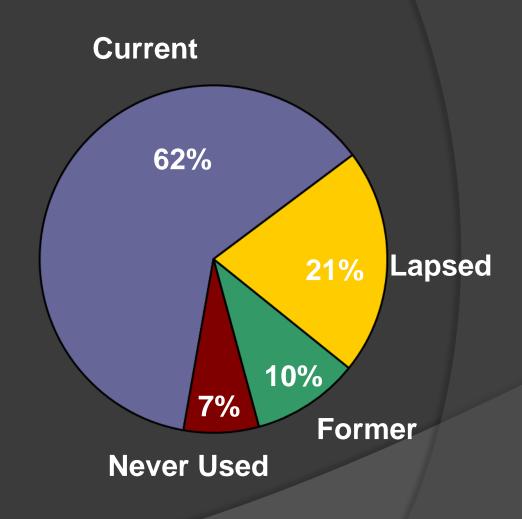
Customer Landscape

- CTA Experience
- Customer & Non-customer Profiles
- Customer Subgroups
- Non-customer Subgroups



CTA Experience: Total Market

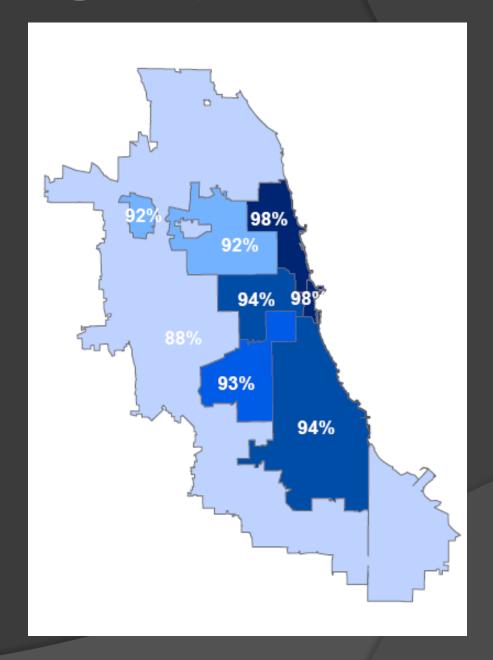
- Virtually all (93%) already tried CTA
- Most (62%)currently use
- Rest are mostly lapsed (past year, not past month 21%) and former (tried but not past year– 10%)





CTA Experience: By Geography

- 94% in the City as a whole
- Less so in the Suburbs (88%)
- Strongest in Downtown and North (both 98%)





Customer & Non-customer Profiles

Customers

- Skew male, younger, more students, less affluent, more Hispanic
- Skew City, "newer" to home
- Fewer have licenses or cars

Non-customers

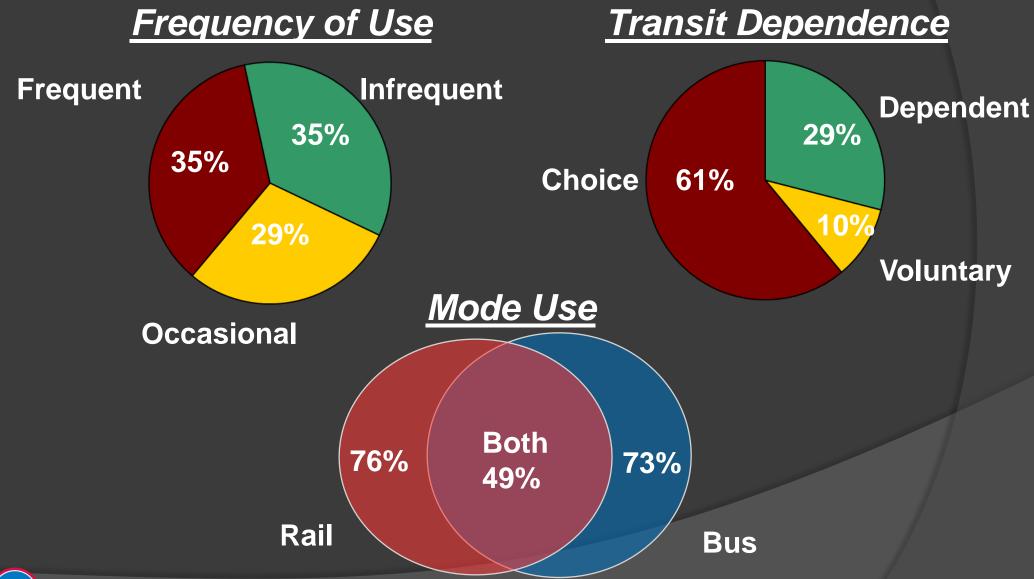
- Skew female, older and retired, more affluent, more Caucasian
- Skew Suburbs, in home longer
- More have licenses and cars





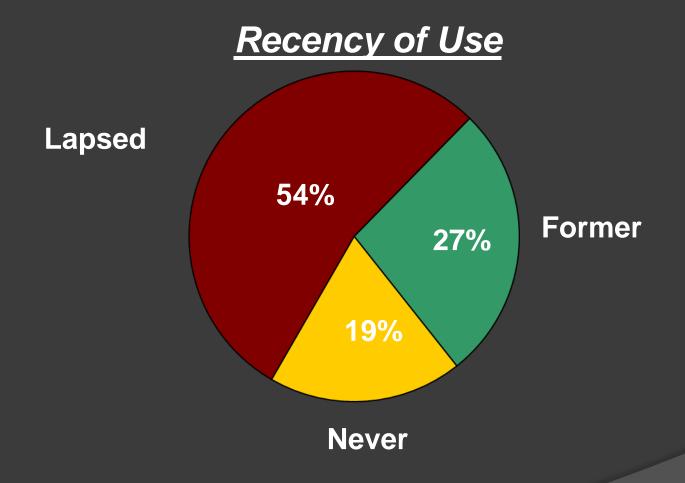


Customer Subgroups: Overview





Non-customer Subgroups: Overview





Needs/Perceptions/Delivery Gaps

- Transportation Needs Examined
- Transportation Needs Overall
- Overall Ratings
- Gap Charts



Transportation Needs Examined

 Examined 8 factors for needs and mode ratings (examined on an importance scale of 0-10):

On Time (OTP, quick)	Part of your world (familiar, nearby)
Traffic (congestion, environment)	Flexibility (schedules, emergency)
Safety (personal safety, crime)	Comfort (clean, comfortable, seating)
Value (good value)	Info (staff knowledge, trip info)



Transportation Needs: Overall

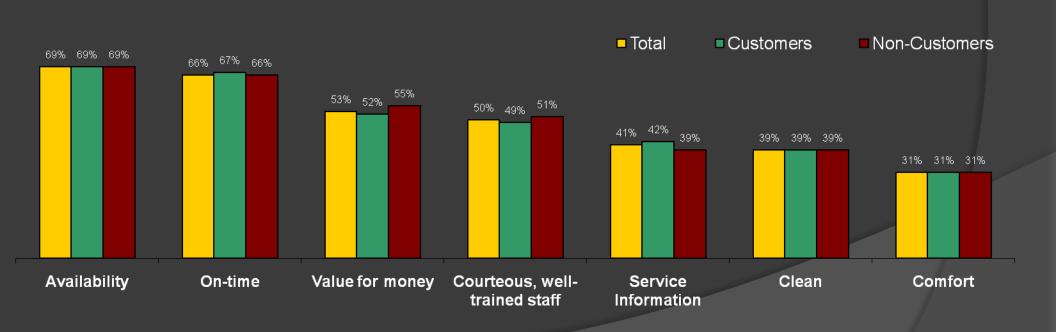
	<u>Customers</u>	Non-Customers
	% 8/9/10; Rank	% 8/9/10; Rank
On Time	84 / 1	86 / 1
Part of Your World	73 / 2	73 / 4
Flexibility	72 / 3	84 / 2
Value	71 / 4	76 / 3
Info	66 / 5	69 / 7
Traffic	63 / 6 (t)	64 / 8
Safety	63 / 6 (t)	72 / 5
Comfort	57 / 8	71 / 6

- On Time is most important to customers, while On Time and Flexibility
 matter most to non-customers. Non-customers consider a variety of needs
 more important than customers do.
- Comfort matters least to customers, but non-customers care least about Traffic.



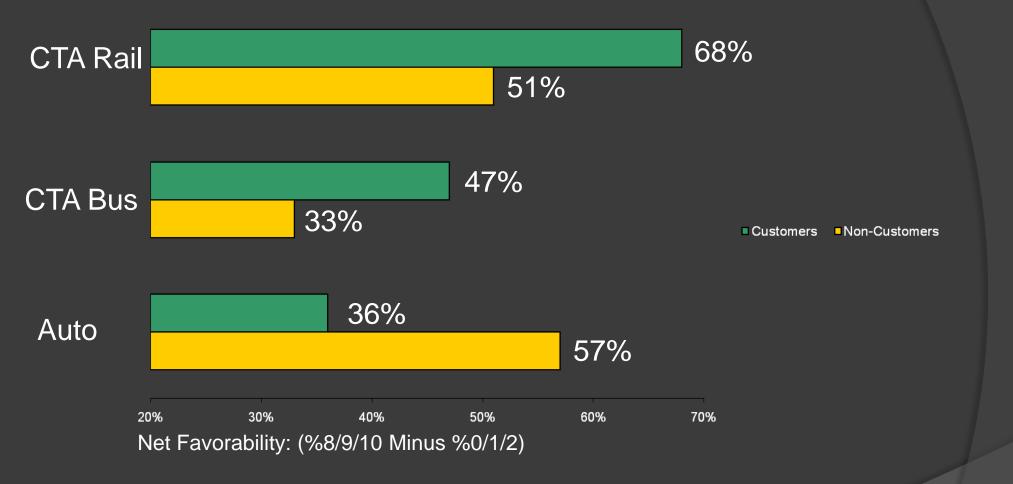
Transportation Needs: Priorities

- In head-to-head comparisons of priorities, we looked closer at 7 areas.
- Of these, Customers and Non-customers agree that Availability and On Time matter most; Comfort least.





Overall Ratings



- Customers more positive about CTA modes than auto; rail leads
- Non-customers view auto and CTA rail almost at parity, bus much lower



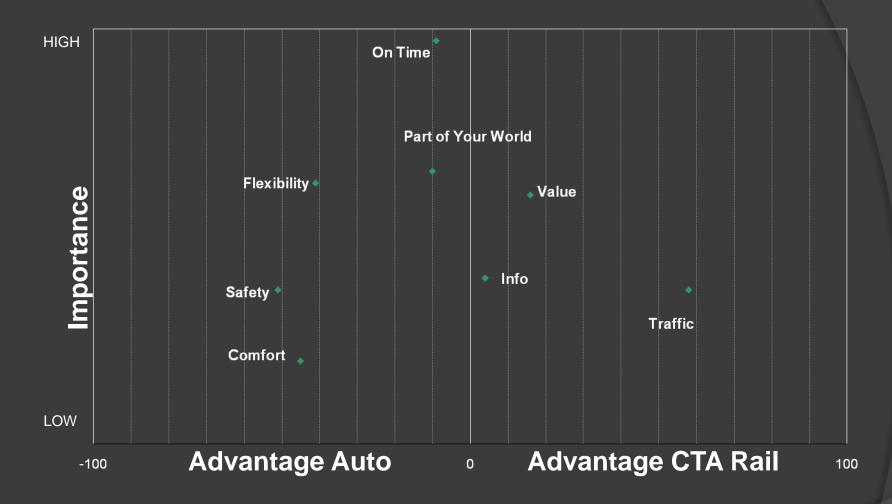
Gap Charts

• Customer Gap Charts

Non-customer Gap Charts



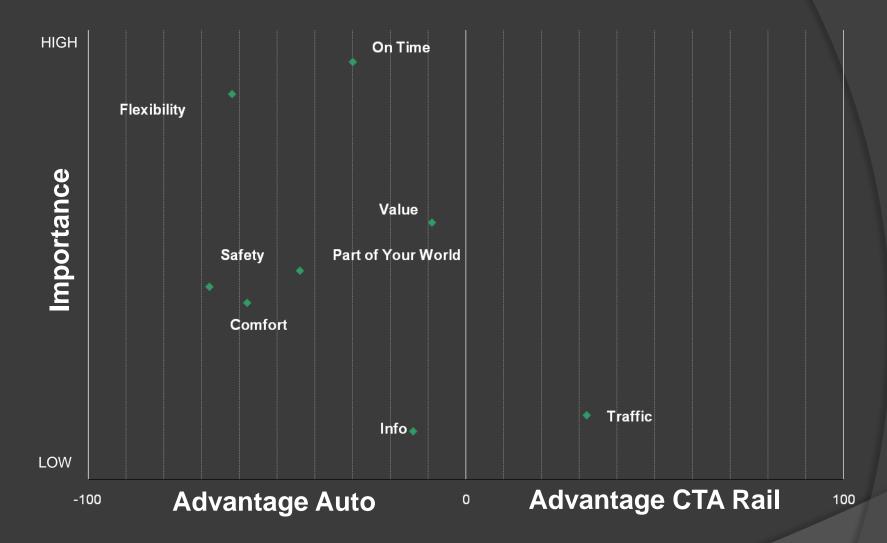
Customer Gap Chart: Rail vs. Auto



- Auto leads for On Time, Flexibility, and Part of Your World. Also for moderately important Safety and Comfort
- CTA rail holds a strong advantage for Traffic; slight advantage for Value and Info



Non-customer Gap Chart: Rail vs. Auto



- Auto's advantages more pronounced among non-customers;
 Value is now also an advantage
- CTA rail's sole advantage is Traffic (low importance)



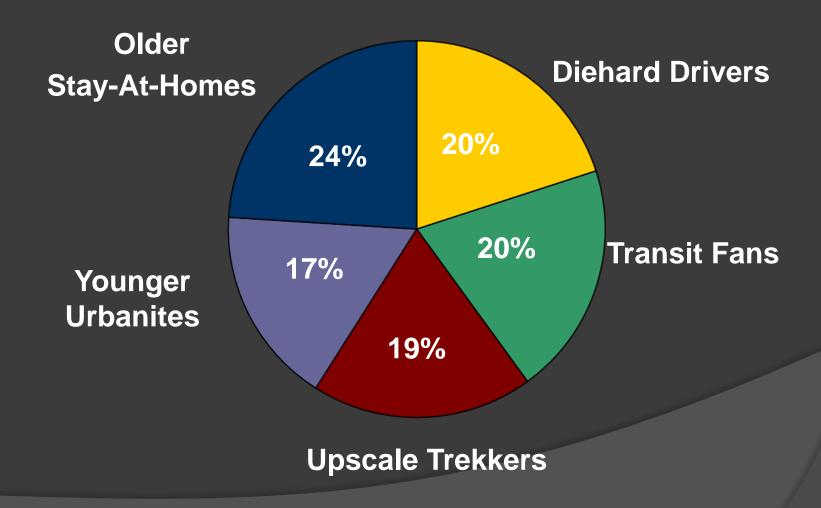
Segmentation

- No longer just "Customers" and "Non-Customers"
- Market segments



Segmentation

Five distinct segments defined with fairly close proportions:

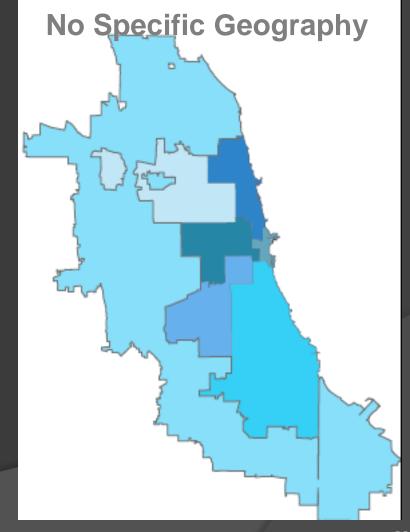




Segmentation: Older Stay-at-Homes

- Older, more retired, long-term residents, African-American or Hispanic; less affluent
- Fewer trips
 (weekday/weekend); more
 likely to take CTA bus, less for
 car, less commuters
- Care most about On Time, Part of Your World, Value and Info
- Generally positive about CTA overall; rate bus, rail, and auto about equally on most attributes

24% of population23% of customers26% of non-customers

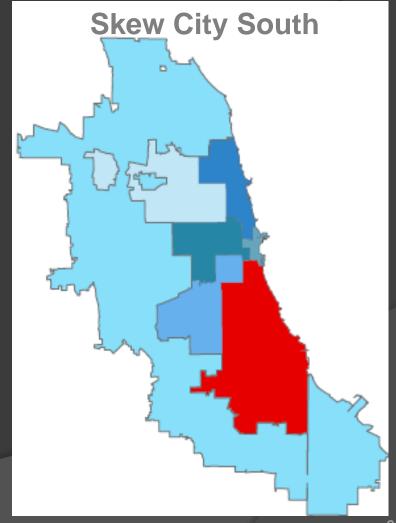




Segmentation: Diehard Drivers

- More female, skew African-American
- Use car for weekday trips
- On Time, Flexibility, Safety (from crime) matter most to them; Traffic matters less
- Rate auto higher than all CTA modes

20% of population13% of customers32% of non-customers

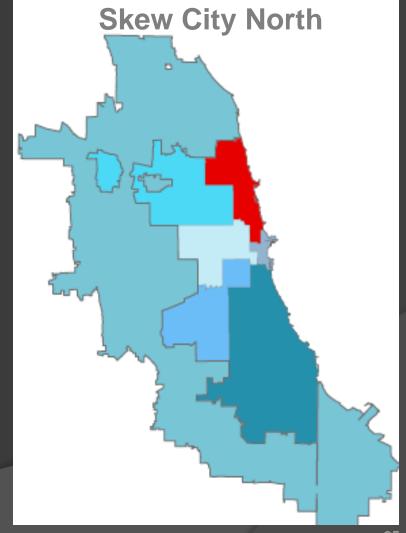




Segmentation: Transit Fans

- More male, 25-34, Caucasian, small HH size
- Fewer weekday trips but "fair share" on weekend; bus and rail customers, more work at home/telecommute, fewer cars
- On Time is most important
- Favor all CTA modes over auto; rail and bus beat auto for Value, Part of Your World, Traffic; rail also leads for On Time

20% of population28% of customers7% of non-customers

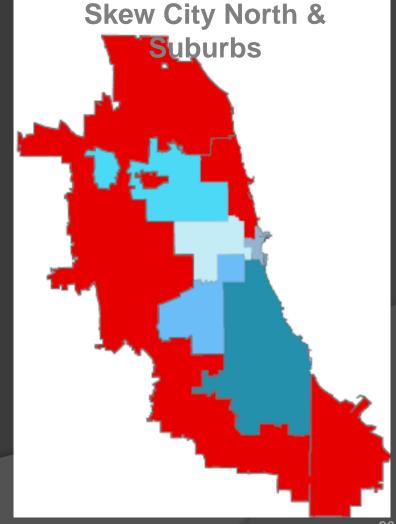




Segmentation: Upscale Trekkers

- More male, employed,
 Caucasian, affluent, educated;
 fewer retired
- Make many trips, especially weekends, tend to drive
- On Time is the most important feature; so is Part of Your World
- Auto generally superior than rail; auto leads rail for Flexibility and Safety

19% of population20% of customers18% of non-customers

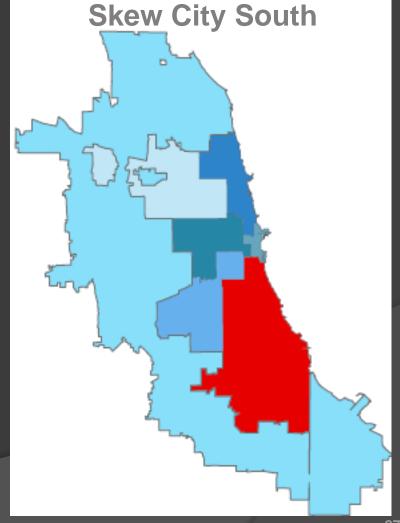




Segmentation: Younger Urbanites

- More young, female, African-American, students;
 somewhat lower income
- More weekday trips, commuters; use CTA & car relatively equally
- Care most about Flexibility,
 Value, and Part of Your World
- Consider CTA rail equal to auto overall, but not bus; rail seen superior for *Traffic*, auto leads on all else

17% of population17% of customers16% of non-customers



Summary of Key Findings

- CTA experience in service area is saturated.
- Customers
 - Equally divided into frequent, infrequent and occasional users.
 - Majority choose transit though they have other options; a third are totally dependent.
 - Bus and rail have equal penetration with about half of customers currently using both modes.
- Non-Customers
 - Majority of non-customers are lapsed (past year, not past month).



Summary of Key Findings (Cont'd)

- Customers are most concerned with On Time; non-customers want this and much more.
- Overall, CTA modes rated higher than auto among customers; the reverse is true among non-customers.
- Analysis produced 5 distinct segments
 - Older Stay-At Homes
 - Diehard Drivers
 - Transit Fans
 - Upscale Trekkers
 - Younger Urbanites



Questions?

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Appendix



Customer Subgroups: Frequency Detail

Frequent

- Younger, less affluent, more employed, more African-American, fewer Caucasian
- More live in City
- More weekday travel, more commute

<u>Infrequent</u>

- Fewer work full time, more retired
- No significant geographic skews
- Fewer weekday/ weekend travel, more left home after AM peak

Occasional

- More male, older, better educated, more affluent, more Caucasian
- More Suburb
- Heavier weekend travel, more likely to work at home/telecommute



Customer Subgroups: Dependency Detail

Dependent (29%)

- More female, less educated, less affluent, fewer working full time
- More live in City
- Less rail than Voluntary customers

Voluntary (10%)

- Younger, more students, fewer working full time
- More live in City, "newer" to home
- Fewer commute,
 but are more likely
 to return during
 PM peak

Choice (61%)

- More male, better educated, more affluent, more working full time, more Caucasian
- Skew Suburb
- More weekday/ weekend travel, less travel on CTA



Customer Subgroups: Mode Detail

Rail

- More affluent, better educated, higher income, more working full time, more Caucasian
- More Suburb
- More weekday/weekend travel, more commuters

<u>Bus</u>

- Less affluent, less educated, lower income, fewer working full time, fewer Caucasian
- More City
- Fewer weekday/weekend travel, fewer commuters



Non-customer Subgroups: Recency Detail

Lapsed

- Younger, more affluent, better educated, more employed full time
- No geographic skews
- More weekday/ weekend travel

Former

- More female, older, retired
- More live in City
 South, longer in current residence
- Fewer commuters

Never

- More male, less educated, more Hispanic
- Skew Suburb
- Less weekday travel, less likely to use own car for travel, fewer with driver's license



Explanation of the Scores

- Transportation needs use the top 3 box on an 11-point scale (% 8/9/10)
- Ratings use "net favorability" index
 - Index created by taking % top 3 box on an 11-point scale and subtracting bottom 3 box (% 8/9/10 minus % 0/1/2)

On Time (OTP, quick)	<i>Part of your world</i> (familiar, nearby)
Traffic (congestion, environment)	Flexibility (schedules, emergency)
Safety (personal safety, crime)	Comfort (clean, comfortable, seating)
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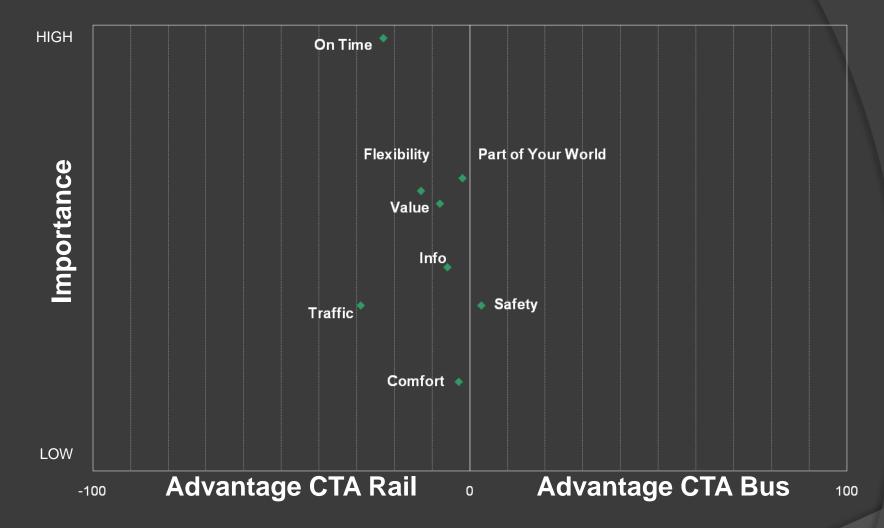


Explanation of the Gap Analysis

- Gap charts plot comparative mode advantages (x axis) vs. needs or importance (y axis)
- There are always two modes per chart
- Position of attribute on chart determined by two factors:
 - taking "net favorability" index of one mode and subtracting the index from the other comparison mode (i.e.; 12% Rail minus 20% Bus = -8% gap score or an 8% gap advantage for Bus)
 - taking the importance top 3 box score....the higher the score the closer the item is to the top of the chart



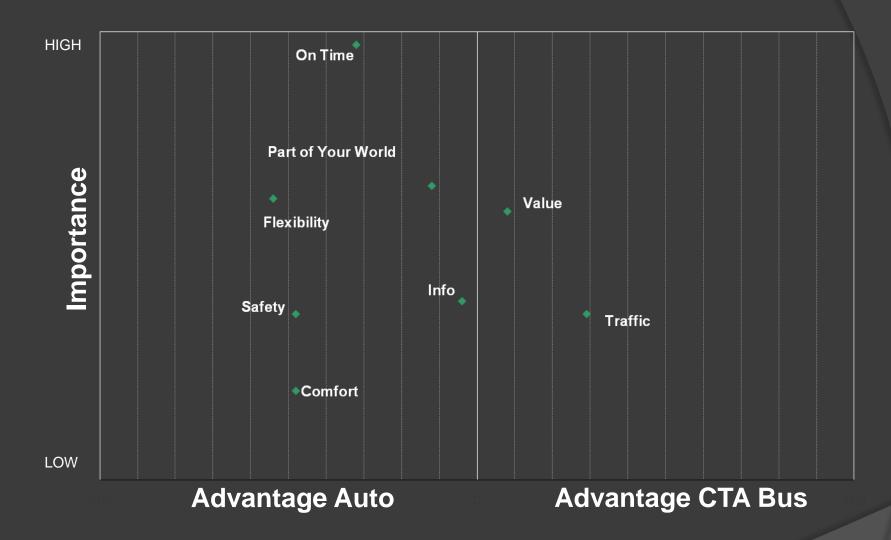
Customer Gap Chart: Rail vs. Bus



 CTA rail has edge on almost all attributes; largest rail advantages are On Time and Traffic.



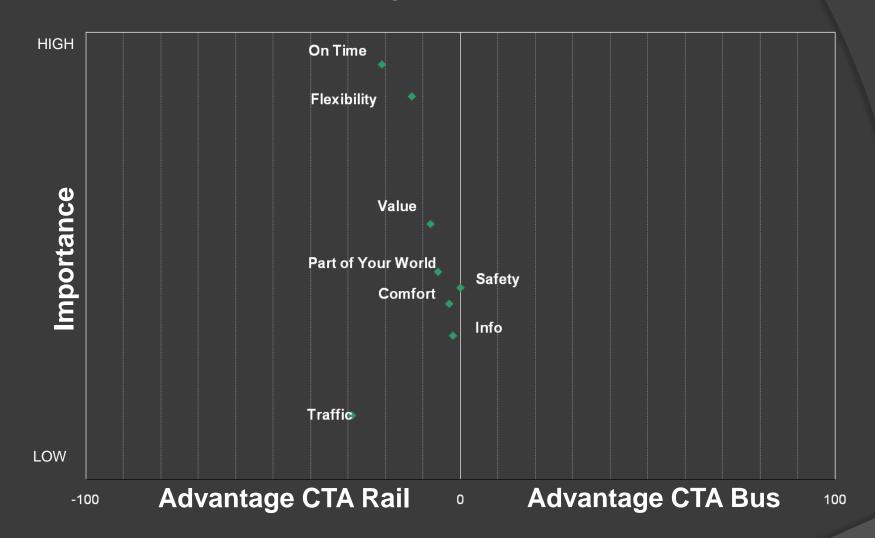
Customer Gap Chart: Bus vs. Auto



- CTA bus viewed similarly as rail when compared to auto; auto is advantageous in most areas
- Bus seen superior for Traffic with slight edge for Value



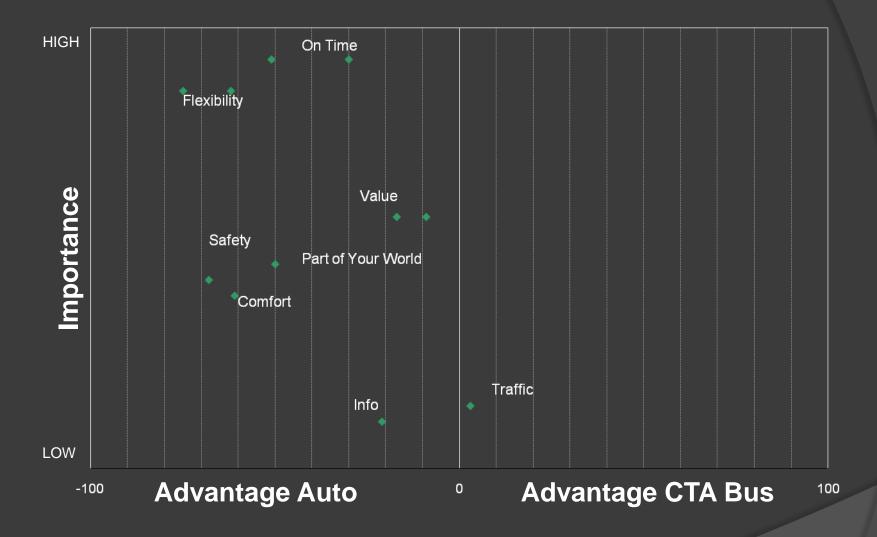
Non-customer Gap Chart: Bus vs. Rail



- Non-customers view rail vs. bus the same as customers:
 - On Time and Traffic stand out for CTA Rail
 - Rail has the edge on all other attributes



Non-customer Gap Chart: Bus vs. Auto



 Auto holds advantage over CTA bus on almost every attribute – even at "almost parity" with bus for *Traffic*



Explanation of the Segmentation Analysis

- Respondents divided into distinct segments using a multivariate procedure called K-means Cluster Analysis
- Each segment contains individuals who share similar views with others in that same group, but carry different views than members of other segments
- "Views" based on mode attribute ratings



Segmentation Summary

- Analysis produced 5 distinct segments.
 - Older Stay-At Homes are older, take fewer trips and are generally positive about CTA.
 - <u>Diehard Drivers</u> are skewed female and very carcentered. Safety is very important but "net favorability" is negative for CTA modes.
 - Transit Fans are more likely to be young males. They are core customers although they take fewer trips.
 - Upscale Trekkers are just that, upscale and suburban.
 They are heavy discretionary travelers who generally prefer to drive. They need to have transportation options close by.
 - Younger Urbanites are heavy travelers. They are not loyal to any mode; they use CTA equally to auto. Like Diehard Drivers, Safety is very important but "net favorability" is negative for CTA modes.

