

INCENTIVIZING COMMUTER BEHAVIOR

Using focused incentives to reduce transit overcrowding

Doug Palmer, Vice President

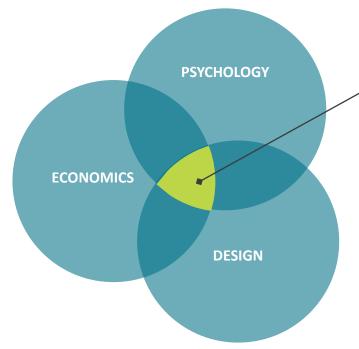
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WHO WE ARE



ideas⁴²

We use insights from human behavior – why people do what they do – to help improve lives, build better systems, and drive social change.



CHICAGO'S 'L' TRAIN – BY THE NUMBERS



- 224 miles of track
 - 36 miles of elevated track
- 145 rail stations
- 500 million annual rides
- 8 color-coded lines

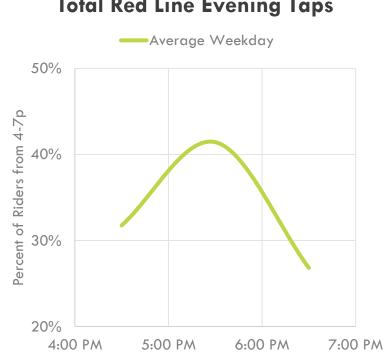


COMMUTING IS ABOUT CHOICES

• People choose to commute on the Red Line between 5-6 pm.

 Many people making the same choice leads to congestion.

 Congestion leads to unpleasant experiences and concerns for rider safety.



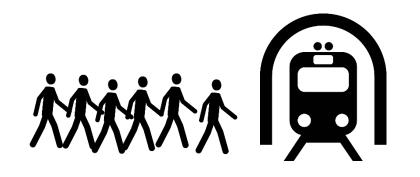
Total Red Line Evening Taps



CHOICES BECOME HABITUAL

- Some only travel at peak times due to a learned habit.
 - Others for structural reasons

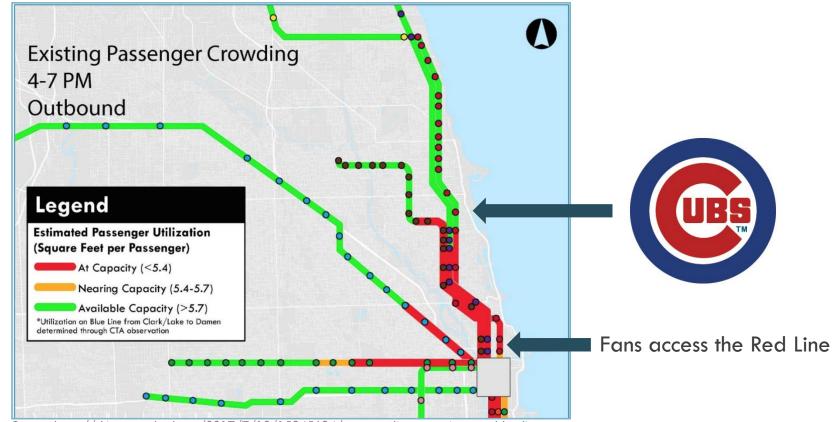
 How do we smooth the commuter curve to reduce demand at specific times?







COMMUTERS' HABITS GET JAMMED



Source: https://chicago.curbed.com/2017/7/10/15945694/cta-crowding-capacity-map-blue-line



COMMUTERS AND FANS OVERCROWD TRAINS ON CUBS GAME DAYS







Cubs fans and commuters crowd the same trains on Cubs game days.

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PEOPLE USE TRANSIT WITHOUT CONSIDERING THE CUBS GAME CONGESTION

CONVENTIONAL VIEW

Transit agencies need to increase frequency of trains, expand tracks and coverage, and increase fares

BEHAVIORAL VIEW

People's transit choices are made on "autopilot," driven by habit without an active consideration of congesting events

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BARRIERS TO CHANGING COMMUTE HABITS

LIMITED ATTENTION

People choose commute time on autopilot, not considering congestion

INTANGIBLE INCENTIVES

Incentives are unclear during moment of decision.

HABITS Commuting at certain times is based on learned behavior

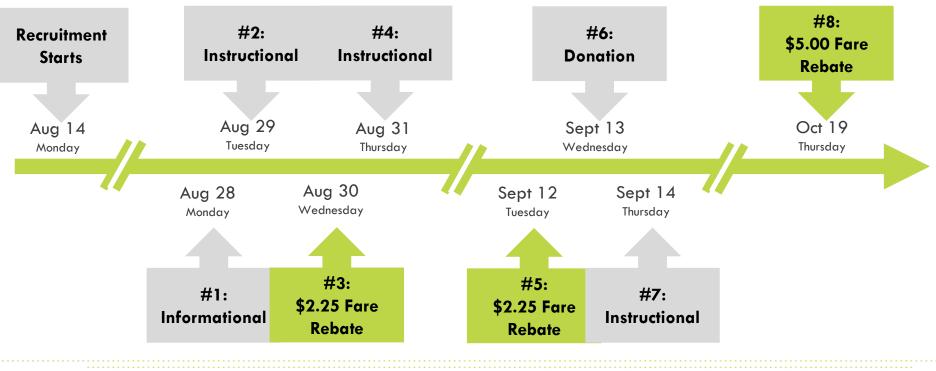


SEND TEXT MESSAGES TO RIDERS TO...





TIMELINE



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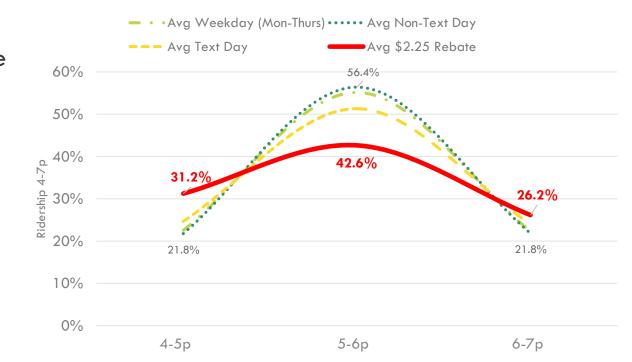
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FARE REBATES SMOOTH RIDERSHIP

On average, 56.4% of participants ride the Red Line from 5-6p when they don't receive a text message.

On days with \$2.25 fare rebates, the 5-6p rush represents 42.6% of ridership from 4-7p. Ridership within Participant Sample



*The change in ridership for fare rebates on peak-hour ridership is statistically significant (p<.01).

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DECREASED PEAK-HOUR RIDERSHIP

CTA Info: Want a free ride? Cubs game @ 7:05p tonight. Travel on the Red Line from 4p to 5p or 6p to 7p & receive a \$2.25 fare value on your registered Ventra Card once your ride has been validated. Please note this may take a few days.

A **\$2.25 FARE REBATE** is correlated with a **17.5% decrease** in Red Line rush-hour

ridership.

FARE REBATES are correlated with a **9.2% increase** in overall ridership.



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42 ideas THANK YOU

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