Agenda

• Introductions
• Recap of Meeting #2/Goals of Meeting #3
• Revised Purpose & Need Statement
• Updated Measures of Effectiveness
• Corridor Improvement Alternatives
• Station Location Concepts
• Small Group Discussion
• Next Steps
Introductions

• Lead Agencies
  o Chicago Transit Authority (CTA)
  o Pace Suburban Bus

• Project Team
  o CDM Smith
  o Metro Strategies
  o EJM Engineering
Recap of Meeting #2

• Purpose & Need Statement
• Current Improvement Program
• Physical Improvement Alternatives
• Feedback on Bus Operations
What We Heard

• Revisions to Purpose & Need Statement and Measures of Effectiveness
• Positive reception to improved transit
• Concern about the removal of parking
• Potential interest in a bus lane where it is possible with minimal impacts to parking and traffic
• Interest in economic development
• Interest in a further review of bus ridership/person throughput
Project Status

- Existing Conditions & Needs and Deficiencies
- Purpose & Need
- Define Alternatives & Screen 1
- Screen 2 & Draft Recommended Improvements
- Final Recommendations

We are here
March 2019
CAG Meeting #3 Goals

1. Review bus enhancement alternatives
2. Introduce station locations
3. Feedback from CAG on priorities and tradeoffs

Pace and CTA buses on 95th Street
Revised Purpose & Need Statement
### Revised Purpose & Need Statement

*Additions based on CAG discussion and feedback*

<table>
<thead>
<tr>
<th>Needs</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Disinvested areas</td>
<td>• Improve infrastructure, amenities, accessibility, and safety</td>
</tr>
<tr>
<td><strong>Goals</strong></td>
<td><strong>Goals</strong></td>
</tr>
<tr>
<td>• Promote inclusive growth</td>
<td>• Improve connectivity, equity and economic development</td>
</tr>
<tr>
<td></td>
<td>• Integration with existing transit service – CTA, Pace, and Metra</td>
</tr>
</tbody>
</table>
Updated Measures of Effectiveness
Measures of Effectiveness

- Bus Travel Time
- Reliability
- Traffic Impacts
- Parking Impacts
- Widening Impacts
- Relative Cost
- Person Throughput
- Economic Impact Potential
Corridor Improvement Alternatives
Alternative 1

- Queue Jumps
Alternative 1: Sample Aerial

Initial concept for illustrative purpose only
Alternative 1: Sample Intersection

Note: Only at signalized intersections

Narrow Median 2 feet
Minor widening (1 to 2 ft) needed in a few locations
## Alternative 1: Measures of Effectiveness

<table>
<thead>
<tr>
<th>Measure</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bus Travel Time</strong></td>
<td>Average savings of approximately 4-8 seconds per intersection; Approximately 5%* for entire corridor (only available/necessary at 28 intersections) plus 3%* saving from TSP and Signal Optimization</td>
</tr>
<tr>
<td><strong>Reliability</strong></td>
<td>Increase travel time reliability</td>
</tr>
<tr>
<td><strong>Traffic Impacts</strong></td>
<td>Low traffic impacts, some minor impacts at intersections</td>
</tr>
<tr>
<td><strong>Parking Impacts</strong></td>
<td>Total of <strong>253 spaces impacted at 28 intersections</strong> (approximately 9 spaces per intersection) plus up to 51 additional spaces to integrate far side bus stations</td>
</tr>
<tr>
<td><strong>Median/Widening Impacts</strong></td>
<td>Narrow median 1 to 4 feet at intersections (typical); widen roadway at intersections 1 to 2 feet at a few locations</td>
</tr>
<tr>
<td><strong>Relative Cost</strong></td>
<td>Low as compared to Alternatives 2 and 3</td>
</tr>
</tbody>
</table>
| **Person Throughput** | Modest improvements in passenger throughput with current service levels based on:  
  • Modest increases in persons on transit; estimated transit ridership increase of 3% (Estimated increase of 300 riders per day and 13 peak hour, peak direction riders)  
  • No change to persons in autos; no significant impacts on auto traffic capacity  
Potential for greater improvements in person throughput capacity with additional transit service frequencies leading to increased transit ridership without affecting road capacity |
| **Economic Impact Potential** | Opportunities for development at many station areas                                                                               |

* Planning level estimate based on TCRP Report 18 and VPTI Report; Subject to revision
Alternative 2

- **Queue Jumps:**
  - 79th Street
  - 95th Street
  - Halsted between 79th & 129th Street

- **Bus Lanes**
  - 129th to 154th Street (Peak Hour Only or 24 Hour)
Alternative 2: Sample Aerial

Initial concept for illustrative purpose only
Alternative 2: Sample Cross Section
### Alternative 2: Intersection Performance

In locations where reducing travel lane is proposed, intersection performance remains high.

<table>
<thead>
<tr>
<th>Intersection</th>
<th>Existing Performance (AM Peak)</th>
<th>Proposed Bus Lane Performance (AM Peak)</th>
<th>Existing Performance (PM Peak)</th>
<th>Proposed Bus Lane Performance (PM Peak)</th>
</tr>
</thead>
<tbody>
<tr>
<td>134th St &amp; Halsted St</td>
<td>A</td>
<td>B</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>138th St &amp; Halsted St</td>
<td>C</td>
<td>C</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>144th St &amp; Halsted St</td>
<td>B</td>
<td>B</td>
<td>B</td>
<td>B</td>
</tr>
<tr>
<td>147th St &amp; Halsted St</td>
<td>D</td>
<td>D</td>
<td>D</td>
<td>E</td>
</tr>
<tr>
<td>149th St &amp; Halsted St</td>
<td>D</td>
<td>D</td>
<td>D</td>
<td>D</td>
</tr>
<tr>
<td>149th St &amp; Morgan St</td>
<td>A</td>
<td>B</td>
<td>B</td>
<td>B</td>
</tr>
<tr>
<td>150th St &amp; Morgan St</td>
<td>B</td>
<td>B</td>
<td>B</td>
<td>B</td>
</tr>
<tr>
<td>154th St &amp; Park Ave</td>
<td>B</td>
<td>B</td>
<td>A</td>
<td>A</td>
</tr>
</tbody>
</table>
## Alternative 2: Measures of Effectiveness

<table>
<thead>
<tr>
<th>Measure</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bus Travel Time</strong></td>
<td>Queue jumps similar to Alternative 1; Average savings from bus lanes of approximately 1-2 minutes per mile in typical urban environment, or <em><em>8%</em> savings total for this alternative</em>* plus <em><em>3%</em> saving from TSP and Signal Optimization</em>*</td>
</tr>
<tr>
<td><strong>Reliability</strong></td>
<td>Significantly improve travel time and reliability beyond queue jumps</td>
</tr>
<tr>
<td><strong>Traffic Impacts</strong></td>
<td>Medium/Low traffic impacts, removing travel lanes but traffic in southern section is light</td>
</tr>
<tr>
<td><strong>Parking Impacts</strong></td>
<td>Total of <strong>253 spaces impacted at 28 intersections</strong> (approximately 9 spaces per intersection) plus up to 51 additional spaces to integrate far side bus stations</td>
</tr>
<tr>
<td><strong>Median/Widening Impacts</strong></td>
<td>Narrow median 1 to 4 feet at intersections (typical); widen roadway at intersections 1 to 2 feet at a few locations</td>
</tr>
<tr>
<td><strong>Relative Cost</strong></td>
<td>Greater than Alternative 1, but no additional significant changes to roadway geometry</td>
</tr>
<tr>
<td><strong>Person Throughput</strong></td>
<td>Increased improvements in passenger throughput with current service levels based on:</td>
</tr>
<tr>
<td></td>
<td>• Modest increases in persons on transit; estimated transit ridership increase of 4% (Estimated increase of 500 riders per day and 21 peak hour, peak direction riders)</td>
</tr>
<tr>
<td></td>
<td>• No change to persons in autos; no significant impacts on auto traffic capacity</td>
</tr>
<tr>
<td></td>
<td>Potential for greater improvements in person throughput capacity with additional transit service frequencies leading to increased transit ridership without affecting road capacity</td>
</tr>
<tr>
<td><strong>Economic Impact Potential</strong></td>
<td>Opportunities for development at many station areas; increased investment in South section of corridor</td>
</tr>
</tbody>
</table>

* Planning level estimate based on TCRP Report 18 and VPTI Report; Subject to revision
Alternative 3

- **Queue Jumps**
  - 79th Street
  - 95th Street
  - Halsted between 79th & 98th Streets

- **Bus Lanes**
  - 98th to 154th Streets (Peak Hour Only or 24 Hour)
Alternative 3: Sample Aerial

Initial concept for illustrative purpose only
Alternative 3: Sample Cross Section

Minor widening (1 to 2 ft) needed in a few locations
Alternative 3: Off-Street Parking

Halsted between 98th and 129th:

• Primarily commercial properties

• Average On-Street Parking Utilization
  - AM Peak: 7%
  - Mid-Day Off-Peak: 11%
  - PM Peak: 9%

• Max On-Street Parking Utilization: 45%

• Parcels without Off-Street Parking: 11

• Approximate Number of Off-Street Spaces: 6,700
Alternative 3: Measures of Effectiveness

<table>
<thead>
<tr>
<th>Measure</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus Travel Time</td>
<td>Queue jumps similar to Alternative 1 and 2; Bus lanes similar to Alternative 2, or <strong>10%</strong> savings total for this alternative plus <strong>3%</strong> saving from TSP and Signal Optimization</td>
</tr>
<tr>
<td>Reliability</td>
<td>Significantly improve travel time and reliability within city limits</td>
</tr>
<tr>
<td>Traffic Impacts</td>
<td>Same as Alternative 2; Low traffic impacts, removing travel lanes but traffic in southern section is light</td>
</tr>
<tr>
<td>Parking Impacts</td>
<td>Same spaces impacted as Alternative 1 and 2 between 79th and 98th St.; Total of <strong>90 spaces</strong> (plus up to 7 additional if far side stations) impacted at <strong>10 intersections</strong> (approximately 9 spaces per intersection) plus approximately <strong>981 spaces</strong> between 98th St. and 129th on Halsted (approximately 32 spaces per block)</td>
</tr>
<tr>
<td>Median/Widening Impacts</td>
<td>Narrow median 1 to 4 feet (typical); widen roadway 1 to 2 feet in some locations</td>
</tr>
<tr>
<td>Relative Cost</td>
<td>Greater than Alternative 2, but no additional major changes to roadway geometry</td>
</tr>
<tr>
<td>Person Throughput</td>
<td>Greatest improvements in passenger throughput with current service levels based on: • Modest increases in persons on transit; estimated transit ridership increase of 5% (Estimated increase of 550 riders per day and 24 peak hour, peak direction riders) • No change to persons in autos; no significant impacts on auto traffic capacity Potential for greater improvements in person throughput capacity with additional transit service frequencies leading to increased transit ridership without affecting road capacity</td>
</tr>
<tr>
<td>Economic Impact Potential</td>
<td>Opportunities for development at many station areas; increased investment in south section of corridor and in designed TIF Districts, Special Service Areas, and Thrive Zones</td>
</tr>
</tbody>
</table>
Peak vs. Off-Peak Travel

- **Bus:**
  - 44% of trips occur during peak
  - Hourly midday ridership is 75% of peak

- **Auto:**
  - Peak: 24% of ADT
  - Off Peak: 76% of ADT

![Avg. Hourly Ridership by Time of Day](chart.png)
Station Location Concepts
Limited Stop Service

• Pulse service will have fewer stops
  o ½ mile spacing estimated to provide 22% travel time savings
  o 98% of existing riders board at a stop within ¼ mile of stations
  o Pace local service will likely have reduce frequency

• CTA local service remains in place
Station Improvements

- Near-level boarding
- Heated shelters with seating
- Bicycle racks
- Landscaping
- Vertical marker with real time and static information
- Trash receptacles
- Customizable features
Typical Station Placement

- Thoughtful station placement to ensure safety and promote efficient bus operation
  - Far side where possible
  - Connections to existing service
- Multiple alternatives still under consideration

*Initial concept for illustrative purpose only*
98th Street

Initial concept for illustrative purpose only
123rd or 124th Street

Initial concept for illustrative purpose only
149th or 150th Street

Initial concept for illustrative purpose only
Small Group Discussion
Small Group Discussion

- Evaluate each alternative
  - Which aspects do you like? Which do you not like?
  - Are there specific locations where bus only lanes or queue jumps are preferred? Why?
  - Is there a preference for peak-hour or 24-hour lanes?
- Review station placement
  - Are the current placements appropriate? Any recommended changes?
  - Have all connections been considered?
- Report back to group

Pace Harvey Transportation Center
Next Steps
Next Steps

- February/March 2019
  - Confirm Preferred Alternative(s)
  - Corridor Evaluation, Recommendations, and Strategy Report
Contact Information

To speak to a CTA or Pace representative, contact:

Sukmeke Watkins (CTA)
Government & Community Relations Representative
(312) 681-2793

Martin Sandoval (Pace: Chicago)
Community Relations Representative
(847) 217-9098

Jessica Rybarczyk (Pace: Suburbs)
Community Relations Representative
(847) 372-2077

For general project questions, email:
SouthHalstedBus@transitchicago.com

Website:
www.transitchicago.com/planning/SouthHalstedBus/
Thank you!