

### PURPOSE OF THIS MEETING

- Present existing and future transportation issues as identified by the project team
- Obtain your feedback regarding those issues in preparation for the March 19 public workshop

### HOW WE IDENTIFIED TRANSPORTATION ISSUES

- Review of past downtown transportation studies
- Listening tour/field observations
- Transit operations interviews with DTC staff
- Traffic analyses: existing and future

#### REVIEW OF PAST DOWNTOWN TRANSPORTATION STUDIES

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- Over 40 reports reviewed
  - The majority of the Wilmington Initiatives reports from 1996 through 2008
- Over \$350 million has been invested in transportation improvements since 1996
- Some recommendations from previous studies may still be considered for implementation



# LISTENING Tour

# LISTENING TOUR

- Wilmington Area Planning Council
- City of Wilmington
  - Mayor's Office
  - City Council Public Works and Transportation Committee
  - Departments of Planning, Public Safety, Public Works, Law
- Delaware Department of Transportation
- Transportation Management Association of Delaware
- Wilmington Parking Authority
- Wilmington Renaissance Corporation
- Riverfront Development Corporation
- Downtown Visions
- Wilmington Main Street
- Greater Wilmington Convention and Visitors Bureau
- Delaware Historical Society
- Major businesses
- Developers

### LISTENING TOUR RESULTS

- Over 300 comments were received
- Most were categorized into seven Common Themes to help guide the study



## COMMON THEMES

- Promote a vibrant, healthy Downtown, with a mix of 24-hour uses, through transportation improvements.
- 2. Ensure that Downtown streets balance all modes of travel (walking, bicycling, transit, and driving) and include buildings and streetscape that enhance street life.
- 3. Provide convenient, frequent transit service throughout the City, especially to the train station.
- 4. Reclaim Rodney Square as Downtown's premier public space.

## COMMON THEMES

- 5. Make Downtown more walkable.
- 6. Improve the existing street system for all modes of travel by timing traffic signals, evaluating street direction changes, and managing on-street parking and loading.
- 7. Match parking supply with demand.

### LISTENING TOUR: Specific Locations of Concern

- Martin Luther King, Jr. Boulevard area
- Rodney Square
- Delaware Avenue/I-95 area
- Market Street
- Fourth Street
- King Street
- Orange Street
- Walnut Street
- Several other locations

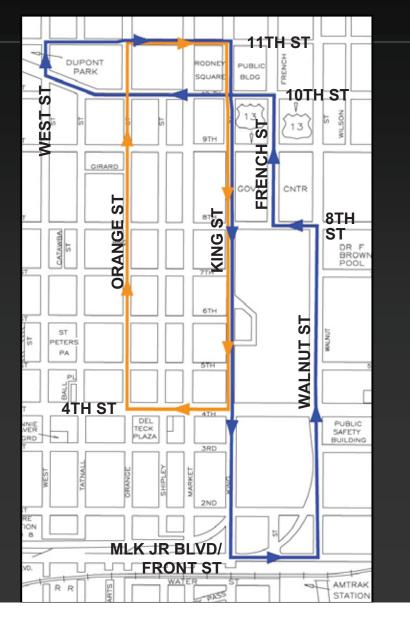
#### LISTENING TOUR: GENERAL ISSUES

- Not location-specific:
  - Transit circulation/taxis
  - Comprehensive pedestrian/streetscape improvements
  - Policy/marketing/enforcement (not capital projects)
  - Comprehensive bicycle improvements
  - Parking projects (other than policy)

# TRANSIT Operations

- 38 routes provide service to downtown Wilmington
- Most routes start or end downtown
- Express service on seven routes during weekday commute hours
- Standard 40-foot buses are used on most routes; notable exceptions are the Wilmington Trolley (32) and 301

- Two basic downtown
  loops:
  - Orange Street loop: 22 routes
  - -Amtrak loop: 12 routes



- Rodney Square is the starting or ending point for 20 routes
- Weekday bus trips at Rodney Square:
  - Market Street: 41 trips (all trolley)
  - 10th Street: 248 trips
  - 11<sup>th</sup> Street: 388 trips
  - King Street: 499 trips (356 lay over)

- Between 8 and 9 am, 50 trips start or end on the King Street side of Rodney Square
- Between 4:30 and 5:30 pm, 70 trips start or end on the King Street side of Rodney Square
- 5 or 6 buses can serve this side at one time





- Existing conditions based on counts conducted by this study
  - Critical intersections were counted
  - Travel demand model will be used to interpolate traffic volumes
  - Modeling is <u>PRELIMINARY</u> and at this point is based only on level of service
- Future conditions assume ten percent growth in all traffic volumes

- "Level of Service," or LOS, is a measure of how speed and convenience of travel are experienced.
- At a traffic signal, LOS is measured by the number of seconds of total delay experienced by the average motorist entering the intersection.

- LOS is measured by "grades" from A through F:
  - A: 0 to 10 seconds of delay
  - B: 10 to 20 seconds
  - C: 20 to 35 seconds
  - D: 35 to 55 seconds
  - E: 55 to 80 seconds
  - F: more than 80 seconds
- These are measured during the morning (7 to 9 am) and evening (4 to 6 pm) peak hours

- In Delaware, LOS D or better is generally considered acceptable in urban areas
- New research is developing models on how to consider pedestrians, bicycles, and transit as well as motor vehicles in calculating LOS for urban streets

# TRAFFIC ANALYSES: AM PEAK

|                                      | AM peak hour level of service |        |
|--------------------------------------|-------------------------------|--------|
| Intersection                         | Existing                      | Future |
| MLK/Maryland/Madison                 | F                             | F      |
| 2 <sup>nd</sup> /Walnut              | F                             | F      |
| 4 <sup>th</sup> /Jackson             | F                             | F      |
| 9 <sup>th</sup> /Adams               | F                             | F      |
| 11 <sup>th</sup> /Adams              | F                             | F      |
| Delaware/11 <sup>th</sup> /Jefferson | F                             | F      |
| Delaware/Washington                  | F                             | F      |
| 4 <sup>th</sup> /Walnut              | E                             | F      |
| Front/Walnut                         | E                             | TBD    |

All other intersections function at LOS D or better.

**D R A F T** 

# TRAFFIC ANALYSES: PM PEAK

|                             | PM peak hour level of service |        |
|-----------------------------|-------------------------------|--------|
| Intersection                | Existing                      | Future |
| MLK/Washington/Justison     | F                             | F      |
| MLK/ Market                 | F                             | F      |
| 4 <sup>th</sup> /King       | F                             | F      |
| 9 <sup>th</sup> /Adams      | F                             | F      |
| 4 <sup>th</sup> /Jackson    | D                             | E      |
| 12 <sup>th</sup> /Jefferson | D                             | E      |
| Delaware/Adams              | D                             | E      |

All other intersections function at LOS D or better.

**D R A F T** 

# SUMMARY OF ISSUES BY AREA/CORRIDOR

#### Summary of Issues: M.L. King, Jr. Boulevard Area

- Pedestrian access issues
  - MLK Jr. Blvd. itself
  - Amtrak bridges: lighting and cleanliness
- Traffic congestion at four intersections
  - MLK Jr. Blvd. /Maryland/Madison
  - MLK Jr. Blvd. /Washington/Justison
  - MLK Jr. Blvd. /Market
  - Front/Walnut
- Public desire to remove the "sweeps"
- Unclear signing
- Maryland/Monroe safety and congestion issues
- Proposed bike route in the Wilmington Bicycle Plan
- Wilmington Transportation/Transit Center project
- Water Street project, Shipley to West
- Water Street walkway project, West to Madison

### SUMMARY OF ISSUES: RODNEY SQUARE

- Conflicts between pedestrian use of the square and its current function as a transit center
  - Safety for all modes of travel
  - Security
  - Aesthetics
  - Noise/air pollution

#### SUMMARY OF ISSUES: Delaware Avenue/I-95 Area

- Pedestrian access issues
- Traffic congestion at six intersections
  - 9th/Adams
  - 11th/Adams
  - 12th/Jefferson
  - Delaware/Adams
  - Delaware/11th/Jefferson
  - Delaware/Washington
- Unclear signing
- Speeding
- Left turn prohibition from WB 10<sup>th</sup> to SB Washington
- Delaware, 11<sup>th</sup>, and 12<sup>th</sup> are proposed bike routes in the Wilmington Bicycle Plan
- Second phase of Delaware Avenue Gateway project

### SUMMARY OF ISSUES: MARKET STREET

- Pedestrian access issues
- Signal timing
- Conflicts with parked cars, school buses, emergency vehicles, trolley
- Proposed bicycle boulevard in the Wilmington Bicycle Plan
- Market Street Phase IV project, 11<sup>th</sup> to 16<sup>th</sup>

#### SUMMARY OF ISSUES: FOURTH STREET

- Pedestrian access and safety issues
  - 6 pedestrian crashes at King, 2000-2006
  - 5 pedestrian crashes at Madison, 2000-2006
- I-95 gateway/streetscape
- Traffic congestion at three intersections
  - 4<sup>th</sup>/Jackson
  - 4<sup>th</sup>/King
  - 4<sup>th</sup>/Walnut
- No left turn lane from EB 4<sup>th</sup> to NB Adams
- Downtown 4<sup>th</sup> Street project, I-95 to King

#### SUMMARY OF ISSUES: KING STREET

- Excessive width south of 8<sup>th</sup> Street
  - Pedestrian access issues
  - Speeding
- Traffic queues
  - Too many buses
  - Some congestion due to MLK Jr. Blvd./Market signal
- Proposed bike route in the Wilmington Bicycle Plan
- King Street transit corridor project, MLK Jr. Blvd. to 13th

#### SUMMARY OF ISSUES: Orange Street

- Spot issues
  - Pedestrian crossings at 10<sup>th</sup> Street
  - Lane shift at 9<sup>th</sup> Street
- Orange Street transit corridor project, MLK Jr. Blvd. to 13th

#### SUMMARY OF ISSUES: WALNUT STREET

- Speeding
- Pedestrian access issues
- Lanes are not aligned across some intersections
- Traffic congestion at three intersections
  - Front/Walnut
  - 2<sup>nd</sup>/Walnut
  - 4<sup>th</sup>/Walnut
- Walnut Street corridor improvements project, Front to 16<sup>th</sup>
- Wilmington Transportation/Transit Center project
- Leo J. Dugan Bridge improvements project

#### SUMMARY OF ISSUES: OTHER LOCATIONS

- Old 9<sup>th</sup> Street "mall" creates issues for emergency vehicles and parking
- Exiting City Center garage on 12<sup>th</sup> Street
- Inadequate post office parking
- 12<sup>th</sup> Street connector
- Signal timing at 2<sup>nd</sup>/Shipley
- Other bike routes proposed by the Wilmington Bicycle Plan
- Riverfront access: I-95 ramps, new Christina River bridge

#### SUMMARY OF ISSUES: GENERAL TOPICS

- Transit circulation/taxis
- Comprehensive pedestrian/streetscape improvements
- Policy/marketing/enforcement (not capital projects)
- Comprehensive bicycle improvements
- Parking projects (other than policy)

# UPCOMING ACTIVITIES

- Development of improvement alternatives
  - March July 2009
- Report preparation
  - July September 2009

# ANTICIPATED SCHEDULE





Public workshop

## CONTACT INFORMATION

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