Traffic Management Enhancements
Phase 3
City of St. Louis
3/8/2018
Missouri TEAM
What is Traffic Management Enhancements Phase 3?

Traffic Information Center (TIC)

Network Design

Downtown Multimodal Study & Signal Retiming
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CBB

Introduction Traffic Information Center & Network Design

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CBB

Downtown Multimodal Study
ABOUT

• Traffic Management Enhancements Phase 1 (2012)
• Traffic Management Enhancements Phase 2 (2015)
• Traffic Management Enhancements Phase 3
  • Congestion Mitigation Air Quality (CMAQ) Grant
  • Three components
    • Network Design and Construction
    • TMC/TIC Staffing
    • Downtown Multimodal Study & Signal Retiming
• History of Network
NETWORK DESIGN

- Monitoring Stations
  - Traffic Operations Center (TOC)
  - Traffic Information Center (TIC)
  - Secondary Installation at Soldier’s Memorial
Phase 3 Camera Installation
• Staffing
  • Started in March 2017
  • 2 Operators
  • Monday – Friday
    • AM Shift – 5:30AM to 2:00PM
    • PM Shift – 10:30AM to 7:00PM
  • Special Events
  • Special Tasks
• Day-to-day Operations
  • TACTICS Management/Signal Maintenance
• Citizen Service Bureau (CSB) Requests/Customer Complaints
• Special Event Egress & Management
• Special Tasks
Tactics Management/Signal Maintenance

- Improving TACTICS Database
- Establishing communication with offline signals to bring them under system control (+25% since start)
  - Roughly 525 traffic signals in the city
  - 373 now online
- Observing traffic via traffic cameras to make timing improvements as needed and respond to incidents if necessary
  - 35 Traffic Cameras
TRAFFIC INFORMATION CENTER

- Special Event Management
  - St. Louis Cardinals Egress
  - St. Louis Blues Egress
  - Forest Park Events
    - Fair Saint Louis – STAFFED EVENT
    - Balloon Glow – STAFFED EVENT
    - LouFest
    - Twilight Tuesdays
TRAFFIC INFORMATION CENTER

• Special Event Management
  • Quick Response
    • TACTICS feature that activates special timing plans based on a predetermined set of “triggers”
TRAFFIC INFORMATION CENTER

• Special Tasks
  • Pedestrian Timing Improvements
    • Evaluating Pedestrian Timing throughout the city and making improvements when possible to improve pedestrian safety.
    • Completing evaluation by arterial
  • Signal Detection Inventory/ Recommendations
    • Conducting field inventory of detection along major arterials
    • Recommending locations for detection improvements to the City
The Downtown Multimodal Study is one component of a three part Congestion Mitigation Air Quality (CMAQ Grant) project of the City of St. Louis. The project also includes Traffic Information Center Staffing, as well as a System Buildout. The Downtown Multimodal Study component includes a signal timing plan, developing recommendations for a robust multimodal transportation network, including a Downtown bike plan.
A robust multimodal system that enhances connections for pedestrians, bicyclists, transit users and motorists, of all ages and abilities, while improving quality of life, supporting economic growth and community development, easing congestion and bettering air quality, and improving public health.
MULTIMODAL STUDY

- Feb: Project Kickoff
- Feb – April: Data Collection
- April: Stakeholder Engagement
- April – September: Infrastructure Inventory & Alternative Analysis
- September: Engagement Week Workshops
- September – January: Alternative Refinement

2017

- January: Public Meeting
- January – March: Update Recommendations & Alternatives
- March: Final Report & Recommendations

2018
MULTIMODAL STUDY

Engagement Week 1 – April 2017

- Stakeholder groups (19) invited to participate in discussion, as well as existing conditions
- 75 attendees / 40 organizations
- Project vision & multimodal plan elements
- Coordination with current planning efforts
- Goals, objectives, strategies and elements
- Mode maps
- Data collection & infrastructure inventory ongoing
Goals

**VISION**

To develop a transportation plan for Downtown St. Louis that supports a robust multimodal system, where users of all ages and abilities feel safe, including pedestrians, bicyclists, transit users, and motorists, and promotes economic growth, community development, better air quality, and improved public health.
Objectives

- Event Traffic Management
- Multi-modal Connections & Circulation
- Safety
- ADA Accessibility
- Mode Shift
- Security
- Placemaking
MULTIMODAL STUDY

Strategies & Elements (measurable)

- Policy/Operations
- Technology
- Wayfinding
- Bike
- Pedestrian
- Transit
- Traffic Management
- Parking Management
- Public/Stakeholder Communication
- Policing
- Hot Spots
- Corridors
- Development Plan Coordination
## Multimodal Study

### Engagement Week 2 – September 2017

<table>
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<th>Mon 9/18</th>
<th>Tues 9/19</th>
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<td>Event Traffic Management / Traffic</td>
<td>Transit</td>
<td>Hot Spot Locations</td>
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<td>Technology</td>
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<td>General Evening Session</td>
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![Images of city streets with people cycling and walking.](image-url)
MULTIMODAL STUDY

Mode Maps: Pedestrian
MULTIMODAL STUDY

Mode Maps: Transit
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Mode Maps: Vehicle
MULTIMODAL STUDY

Public Open House – January 19, 2018

Downtown Multimodal Study

Open House – January 19th, 2018
City Hall Rotunda (1200 Market), 8am – 2pm
Can’t join live? Join us on Twitter! @STLmoves with your questions.
All open house material can be found online at www.downtownstltransportationsudy.com

Contact Jacque Lumsden at JLumsden@cbtraffic.com, or (314) 449-9565 with any questions.
City of St. Louis Project Manager: Dan Buschmeyer, Board of Public Service

Downtown St. Louis Transportation Study

[Image of event setup with people talking and looking at displays]
MULTIMODAL STUDY

Public Open House – January 19, 2018

- Strip Maps (Clark & Tucker)
- Cross Sections (Tier 1, 2 & 3)
- Strategies & Elements / Mode Maps
- Policy Actions & Immediate Opportunities
DOWNTOWN MULTIMODAL STUDY

PEDESTRIAN TREATMENTS (STATEGIES & ELEMENT RECOMMENDATIONS)

- Enhanced landscaping
- Active public realm
- Form-based codes
- Pedestrian scale wayfinding
- Bumpouts
- Enhanced transit stops
- High visibility crosswalks
- Median pedestrian refuge
- Public spaces
- Street furniture
- Bike/ped detour plans
- Gateway signage
- Pedestrian signals with countdown timers
- Audible pedestrian signals
- Leading pedestrian intervals
- AADT compliant
- Pedestrian scramble
- Unique branding
- Public art
- Public Wi-Fi
- Smart kiosks
DOWNTOWN MULTIMODAL STUDY

IMMEDIATE OPPORTUNITIES

- Increased Bike Parking
  - Rack program advertisement
  - Corral implementation
  - Work with new developments
  - Bike share operators
  - Transit stops
- Parklets
  - Washington Avenue
  - Tucker
- Wayfinding – implement CVC next phase
- Lighting Updates

- Ongoing update of pedestrian signals and ramps
- Public Art
  - Washington at 44
  - Metrolink/Metrobus stops
  - Public space murals
- Pilot Programs
- Web based app street closure (with permits)

POLICY ACTIONS

WHAT: Update City policy to implement recommendations that encourage mode shift and enhance mobility.

WHY: Recommendations found within this study include strategies and elements that require updated City policy for optimal implementation

POLICIES TO UPDATE:

- Event traffic management
- Off-peak freight delivery
- Demand responsive on-street parking pricing
- Complete Streets design & implementation
- Form Based Codes
- Consider elimination of parking minimums in non – Central Business District areas along tier 1 bicycle and transit routes
THANKS!

• Questions?

www.downtownstltransportationstudy.com