



DURHAM • CHAPEL HILL • CARRBORO

DCHC

METROPOLITAN PLANNING ORGANIZATION

PLANNING TOMORROW'S TRANSPORTATION

ITS, Interchange & Corridor-wide Mitigation Strategies

February 5th, 2024

ITS Improvements

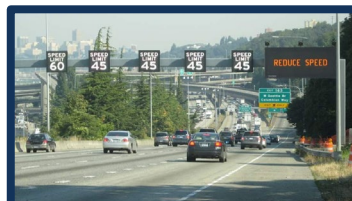
Freeways:



**A. Integrated
Corridor Management**



**B. Ramp
Metering**



**C. Variable Speed
Limits**



**D. Queue
Warning
Systems**



**E. Hard Shoulder
Running**

Arterials:



**A. Integrated
Corridor Management**



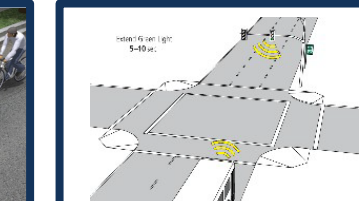
**B. Adaptive
Signal Control**



**C. Variable Speed
Limits**



**D. Bike/Ped Signal
Actuation**



**E. Transit
Signal Priority**

Interchange Area Improvements

Higher-Priority Strategies:



A. Adjust Signal Coordination*



B. Add Sidewalk/Bike Facilities



C. Signalize Crosswalks



D. Reduce Turning Radii

Lower-Priority Strategies:



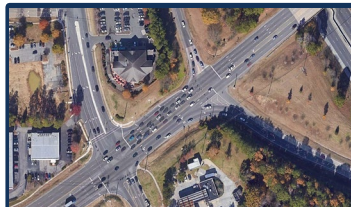
E. Add/Lengthen Turn Lanes



F. Extend Ramp Queue Storage



G. Lengthen Accel/Decel



H. Move/Improve Adjacent Signal



I. Access Management



J. Modify Interchange

Corridor-Wide Strategies

- Freeways
- 4+ Lane Divided Arterials
- 2-4 Lane Undivided Arterials

Corridor Mitigation Strategies: Freeways

Higher Priority Strategies



**A. ITS/Integrated
Corridor Management**



**B. Ramp
Metering**



**C. Bus Rapid Transit/
Bus On Shoulder**



**D. Hard Shoulder
Running**

Lower Priority Strategies



**E. Modernize
Ramps**

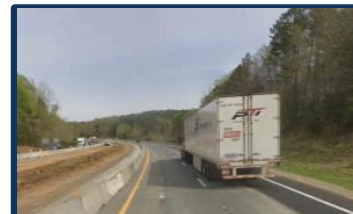


**F. Auxiliary
Lanes**



**G. Add
Managed Lanes**

Lowest Strategy



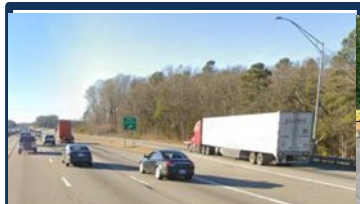
**H. Add
General
Purpose Lanes**

Corridor Mitigation Strategies: 4+ Lane Divided Arterials

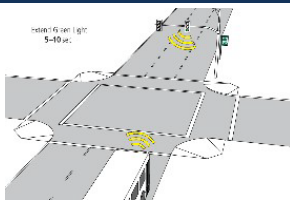
Higher Priority Strategies



A. Adjust Signal Coordination*



B. ITS/Integrated Corridor Management



C. Transit Improvements**

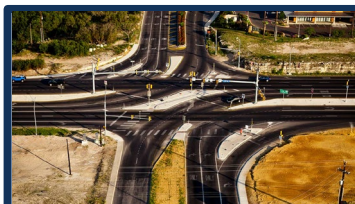


D. Shared Use Paths

Lower Priority Strategies



E. Access Management



F. RCIs/Other Alt. Intersections



G. Add General Purpose Lanes

* Adjust Signal for multi-modal trips

**Transit Improvements may include, but not limited to, BRT, service frequency increase, and transit priority corridor

Corridor Mitigation Strategies: 2-4 Lane Undivided Arterials

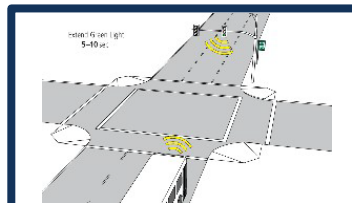
Higher Priority Strategies



A. Adjust Signal Coordination



B. ITS/Incident Response



C. Transit Improvements*



D. Improve Connectivity



E. Ped/Bike Improvements

Lower Priority Strategies



**F. Roundabouts/
Alt. Intersections**



G. Add General Purpose Lanes



H. Access Management

*Transit Improvements may include, but not limited to, BRT, service frequency increase, and transit priority corridor

Thank You