



DURHAM • CHAPEL HILL • CARRBORO

DCHC

METROPOLITAN PLANNING ORGANIZATION

PLANNING TOMORROW'S TRANSPORTATION

Congestion Management Process (CMP) – Bicycle Level of Traffic Stress (LTS)

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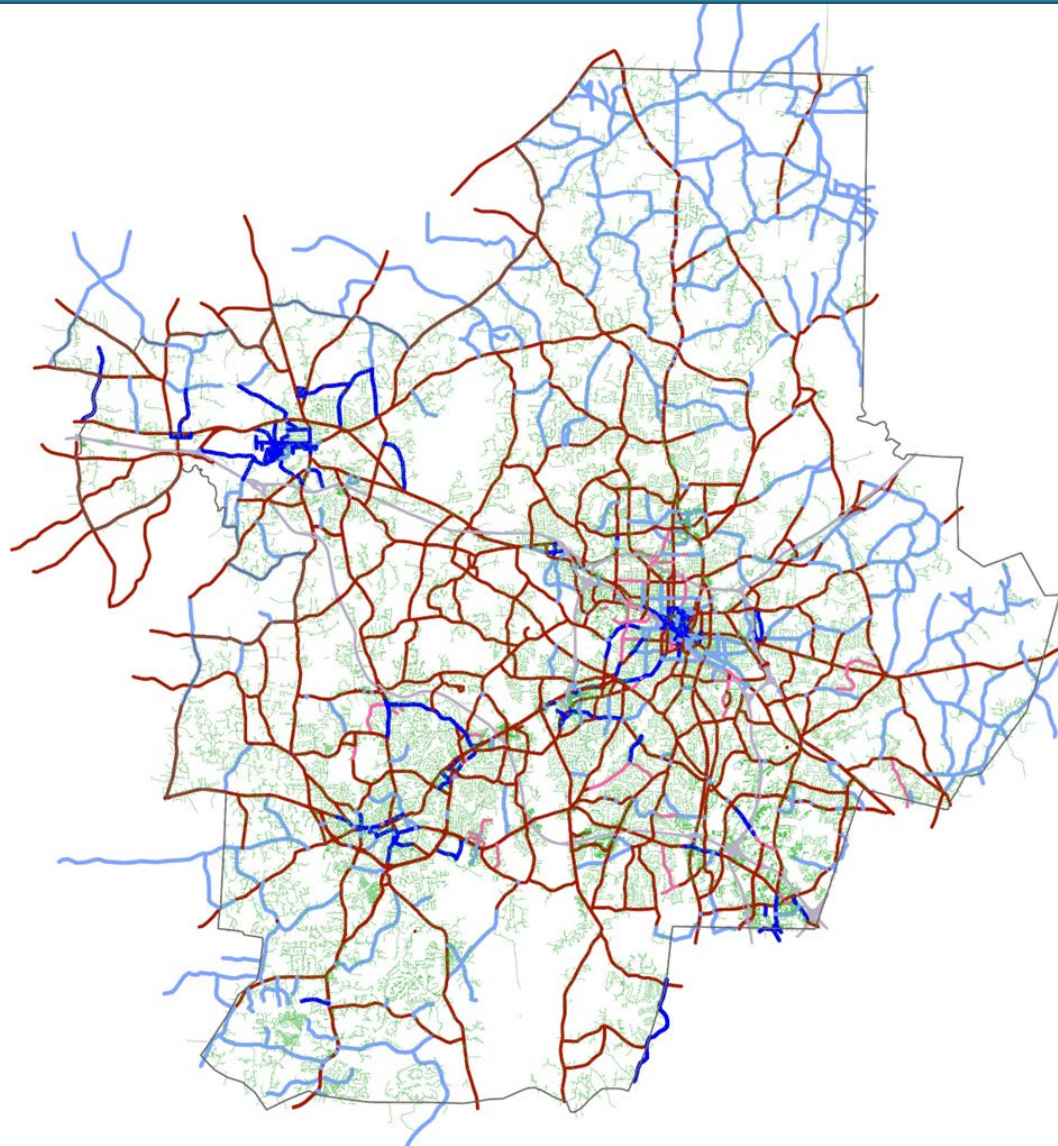
Bicycle Level of Traffic Stress (LTS)

- Originally developed by the Meneta Transportation Institute in 2012
- Identifying streets that are low-stress for bicyclists
- Bike LTS framework is based on a hierarchy of roadway characteristics, including:
 - 1) traffic speed and volume,
 - 2) presence and type of bicycle facility,
 - 3) roadway cross- section, and
 - 4) land use context

Bicycle Level of Traffic Stress (LTS) – Methodology

- FDOT's Bike LTS method suited for planning applications
- Professional judgment where data were not available, such as
 - 1) Width of the bicycle lane,
 - 2) on-street parking, separation from the travel lanes,
- Preliminary results and requires review by planners from local jurisdictions
- Quality of the roadway network is assessed on a 5- point scale:
 - ❖ 1 - Very Low Stress; reflecting that the facility is more inviting to more types of bicyclists including most children
 - ❖ 2 - Low Stress; reflecting that the facility is suited for most adults as it has marked bicycle lane
 - ❖ 3 - Moderately Low Stress; reflecting that the facility is suited for many adults
 - ❖ 4 - Moderate Stress; reflecting that the facility is suited for some adults
 - ❖ 5 - High Stress; reflecting that the facility is suited only for experienced bicyclists
 - ❖ 99 - Bicycle Access Prohibited

Preliminary LTS Results – MPO area

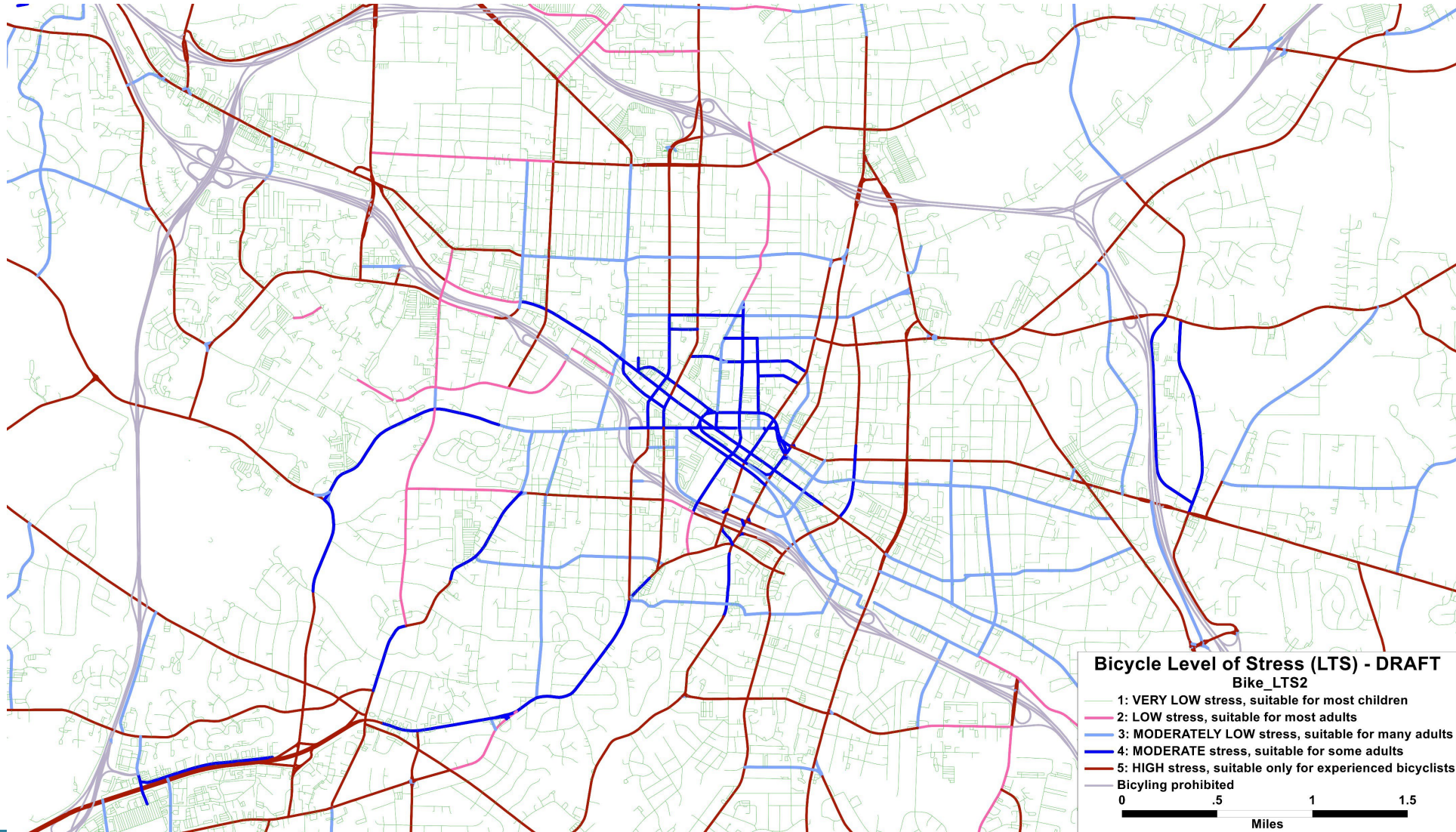


Bicycle Level of Stress (LTS) - DRAFT Bike_LTS2

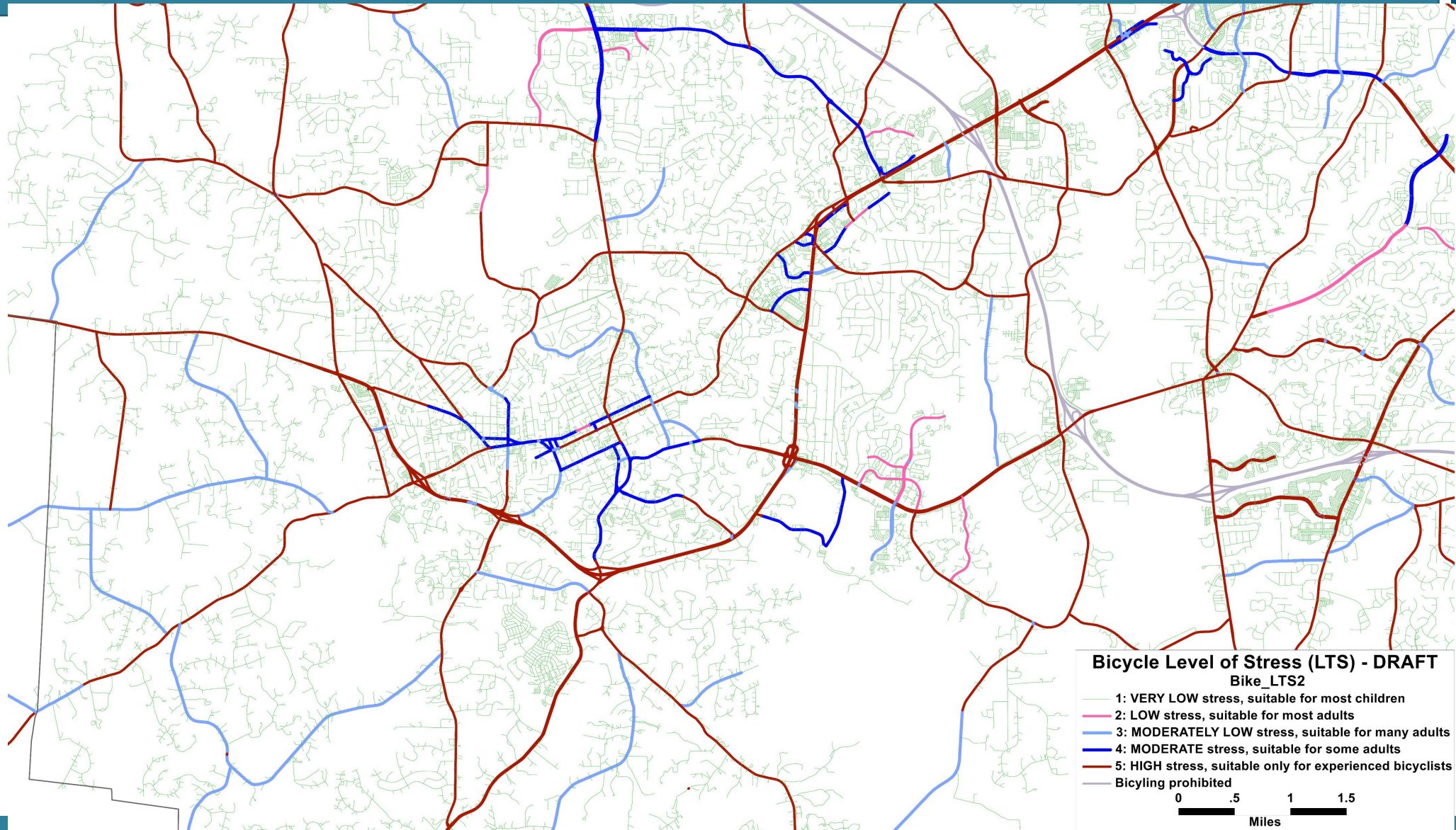
- 1: VERY LOW stress, suitable for most children
- 2: LOW stress, suitable for most adults
- 3: MODERATELY LOW stress, suitable for many adults
- 4: MODERATE stress, suitable for some adults
- 5: HIGH stress, suitable only for experienced bicyclists
- Bicycling prohibited



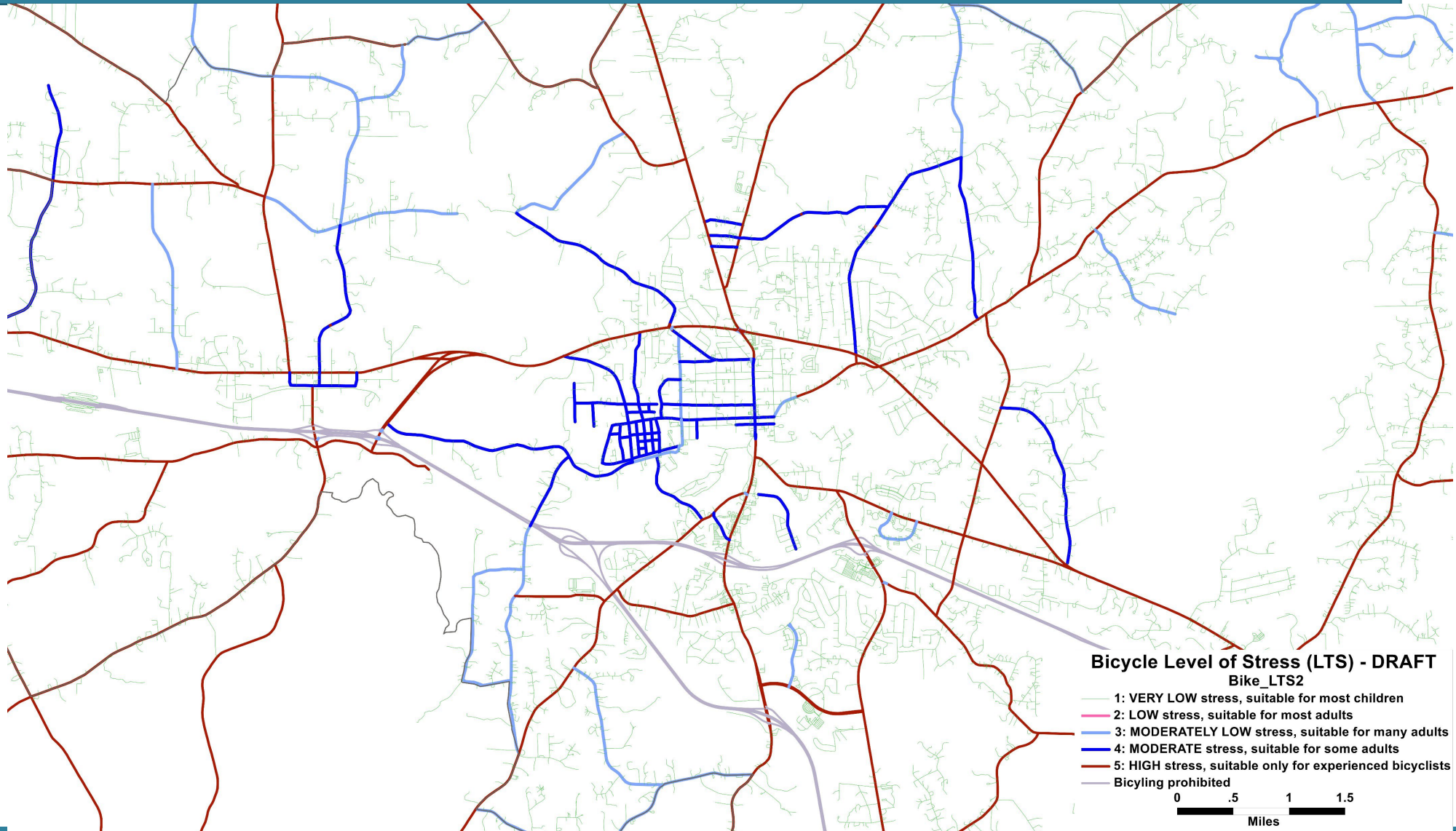
Preliminary LTS Results – Downtown Durham



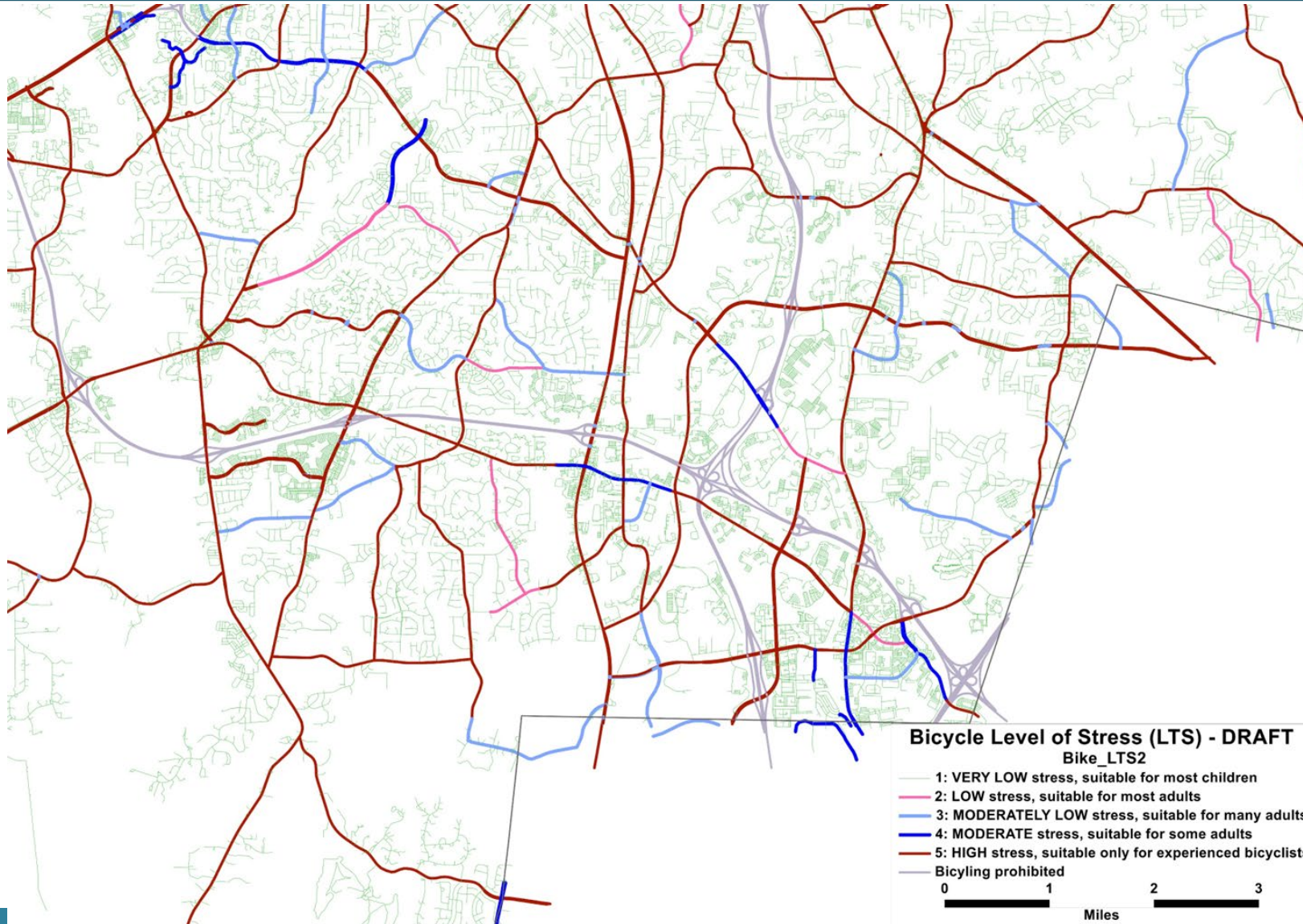
Preliminary LTS Results – Chapel Hill & Carrboro



Preliminary LTS Results – Hillsborough



Preliminary LTS Results – South Point & RTP



Questions & Comments?
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