



Triangle Region Bus on Shoulder System (BOSS) Expansion Study

June 2021

Study Partnership



Primary Study Goals

- **Identify most promising locations for BOSS expansion in Triangle**
- **Create a blueprint for how other North Carolina regions can establish successful BOSS programs**
- **Document best practices and design criteria for BOSS that can be used statewide**

Peer Review Findings

- The Triangle / NC are already BOSS leaders
- BOSS has excellent safety record everywhere; regular maintenance supports operations/safety
- Variety in BOSS Implementation

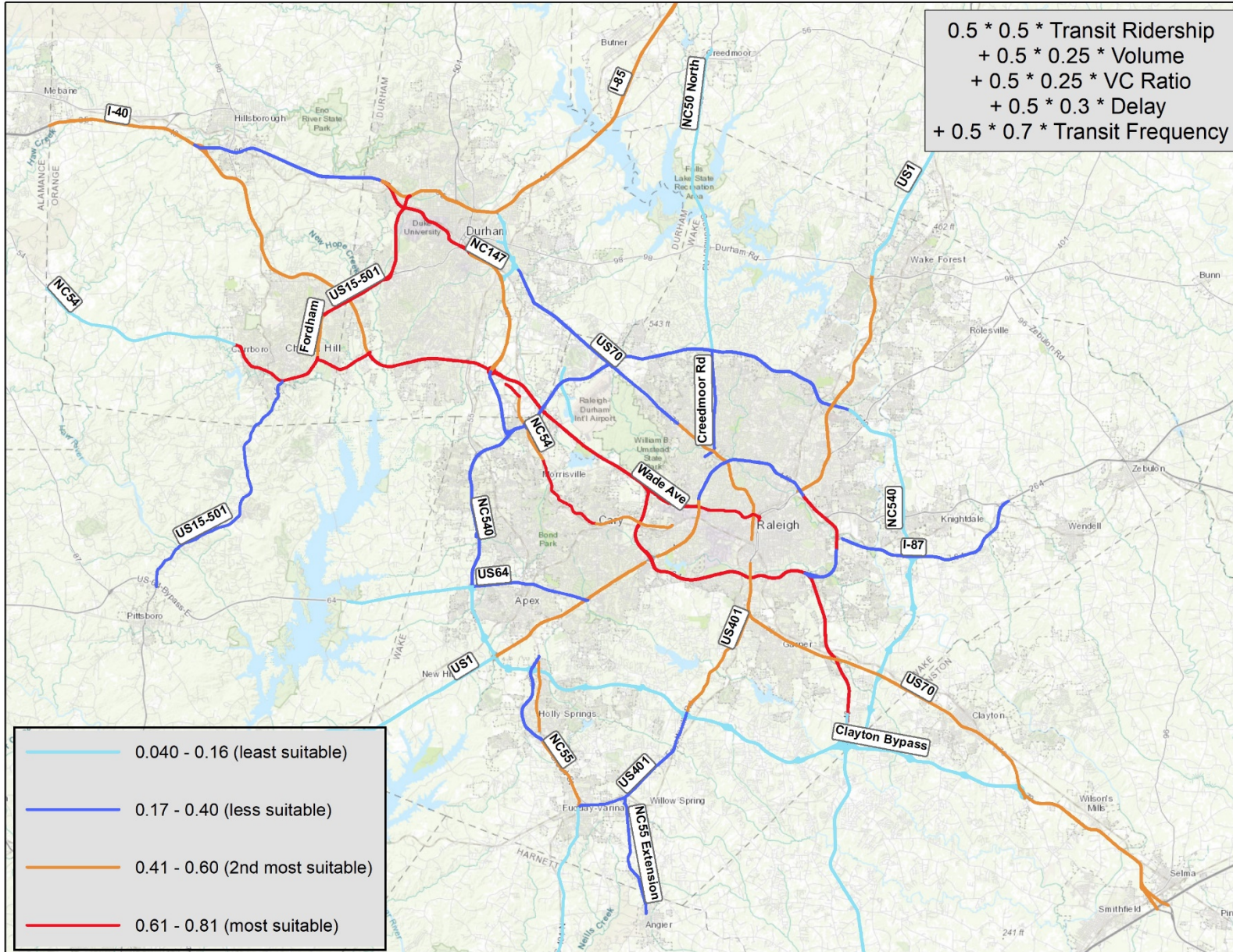


Visualization of project in development - Julia Tuttle Causeway, Miami

Criteria Development and Potential Facilities

- **BOSS documentation is almost non-existent (except FL, and now NC)**
- **Created 24 Minimum & Recommended Criteria for Design and Operations**
- **Example: shoulder width**
 - **Minimum: 11 ft**
 - **Recommended: 12 ft**

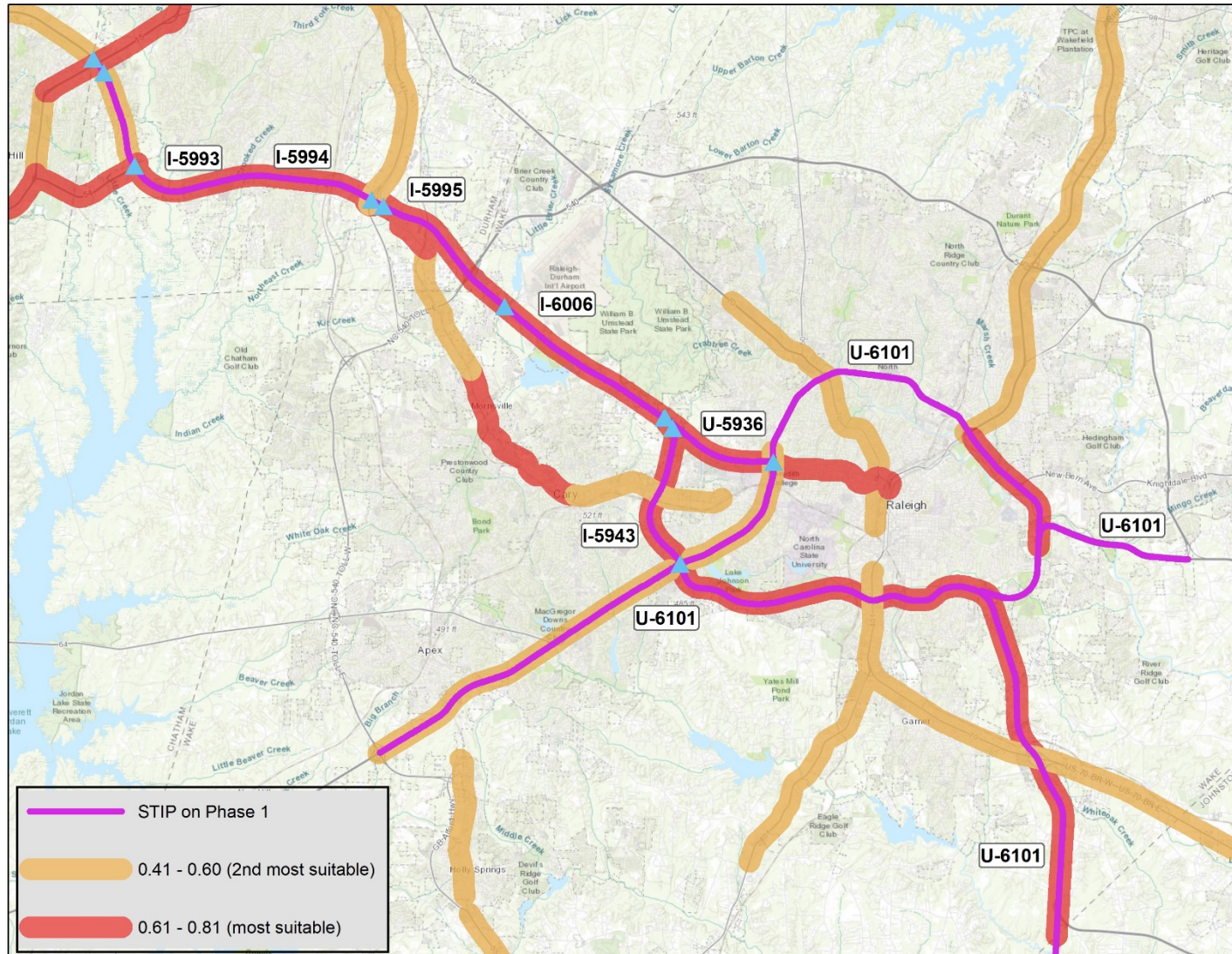
Which Facilities Would BOSS Benefit the Most?



Red – Most Suitable

Orange – Second Most Suitable

What Facilities Are Opportunities Based on Existing Plans and the STIP?



Most promising segments:

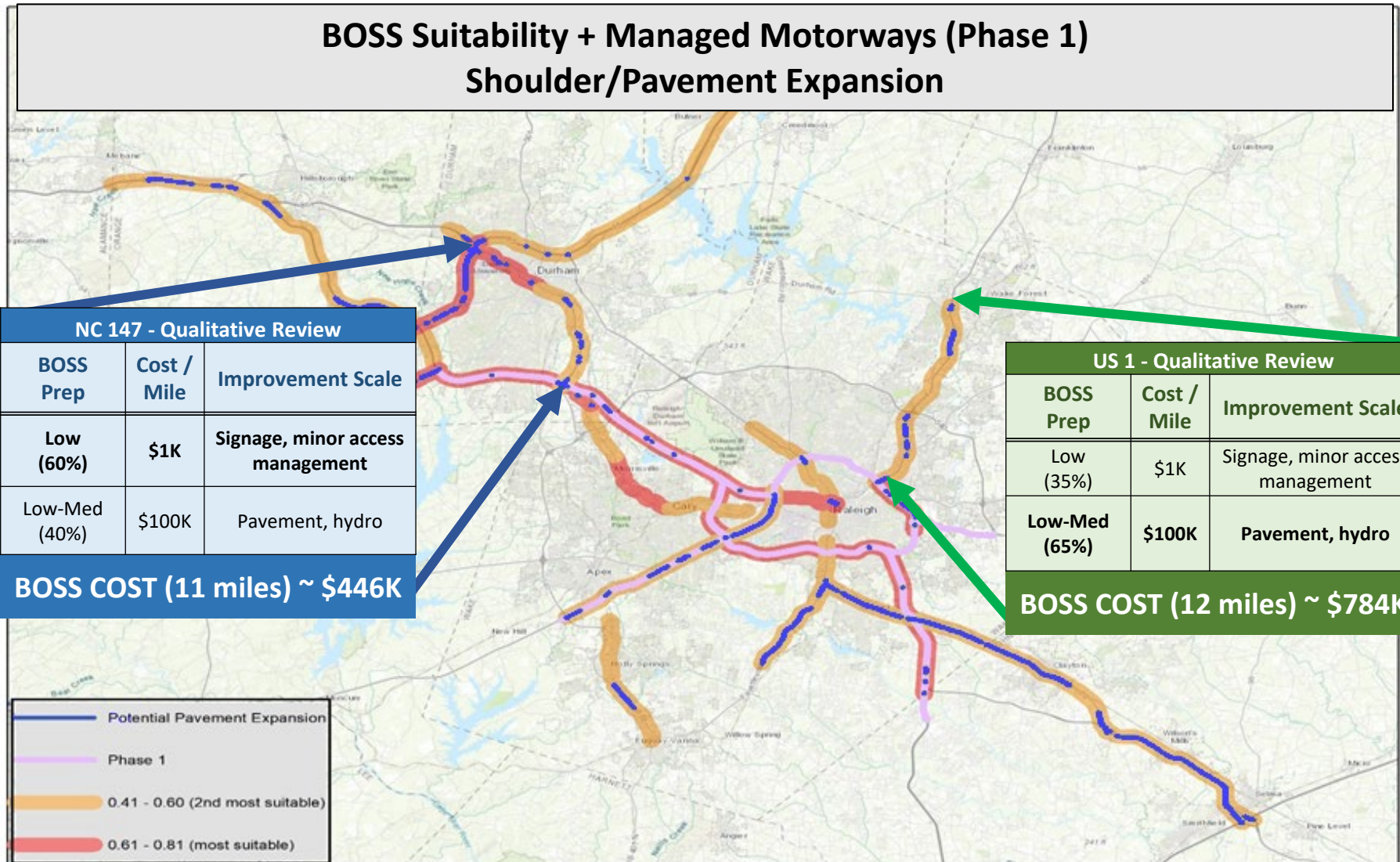
US 1 from I-540 in Apex to I-40 in Raleigh, continuing along I-440 to Wade Avenue

I-40 from exit 289 to the Johnson County Line

I-440 from US 1 North to I-87 in East Raleigh

Segment Perspective

Incremental Service Opportunities



Future Steps

- **Continue active dialogue among Triangle BOSS team members**
- **MPOs, transit agencies engage NCDOT staff on which STIP projects could incorporate BOSS elements**
- **NCDOT considers amendments to BOSS Implementation and Operating Plan based on this study and additional NCDOT research**

Questions / Discussion

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