
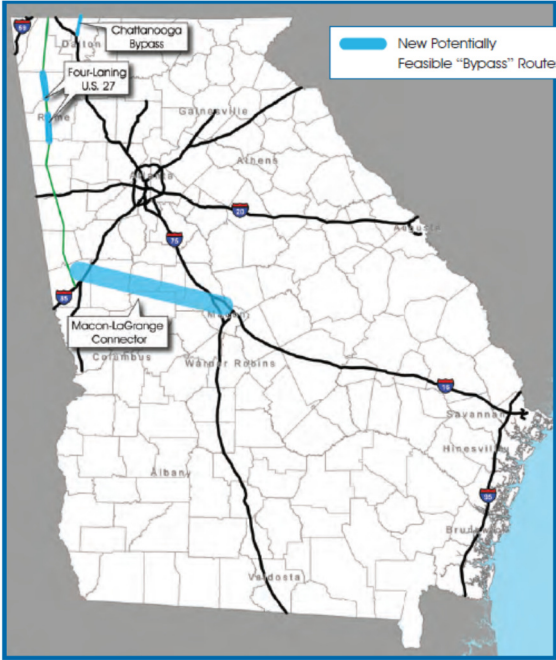


Table 1. Ring roads for bypass traffic.

Initiative 1: Ring Roads for Bypass Traffic	
Description: The construction of bypasses (high speed ring roads, or beltways) to move through-trucks to the periphery of the urban area. Only viable if they lead to cost savings to carriers.	
Targeted mode: Through traffic	Geographic scope: Corridor
Type of Initiative: Infrastructure management: major improvements	Primary objective: Reduce congestion
Expected costs and level of effort to implement: The cost and effort to construct a new ring road can be very high, involving construction of a new roadway, roadway crossings, and interchanges. Such a construction project will involve long-term planning and implementation, elaborate needs assessments, and impact analyses.	
Advantages: <ul style="list-style-type: none"> • Reduce congestion • Enhance safety • Environmental sustainability • Reduce infrastructure damage 	Disadvantages: <ul style="list-style-type: none"> • High probability for unintended consequences <ul style="list-style-type: none"> – May lead to new development outside urban core – Environmental impacts on the communities affected by the new road • Environmental impacts associated with new construction • Require very high capital investments • Require private-sector acceptance
Typical example: <ul style="list-style-type: none"> • Sydney Orbital Network, Australia (Transport for NSW 2012) • “Through” Corridors in Atlanta, Georgia, United States (Georgia Department of Transportation 2011b) 	
 <p>Source: OpenStreetMap Contributors 2010</p>	 <p>Source: Georgia Department of Transportation 2011b</p>
Related alternatives: 1. New and Upgraded Infrastructure, Intermodal Terminals ; 2. Truck Routes ; 3. Exclusive Truck Lanes (Dedicated Truck Lanes)	
References: Marquez et al. 2004; PIARC 2011	