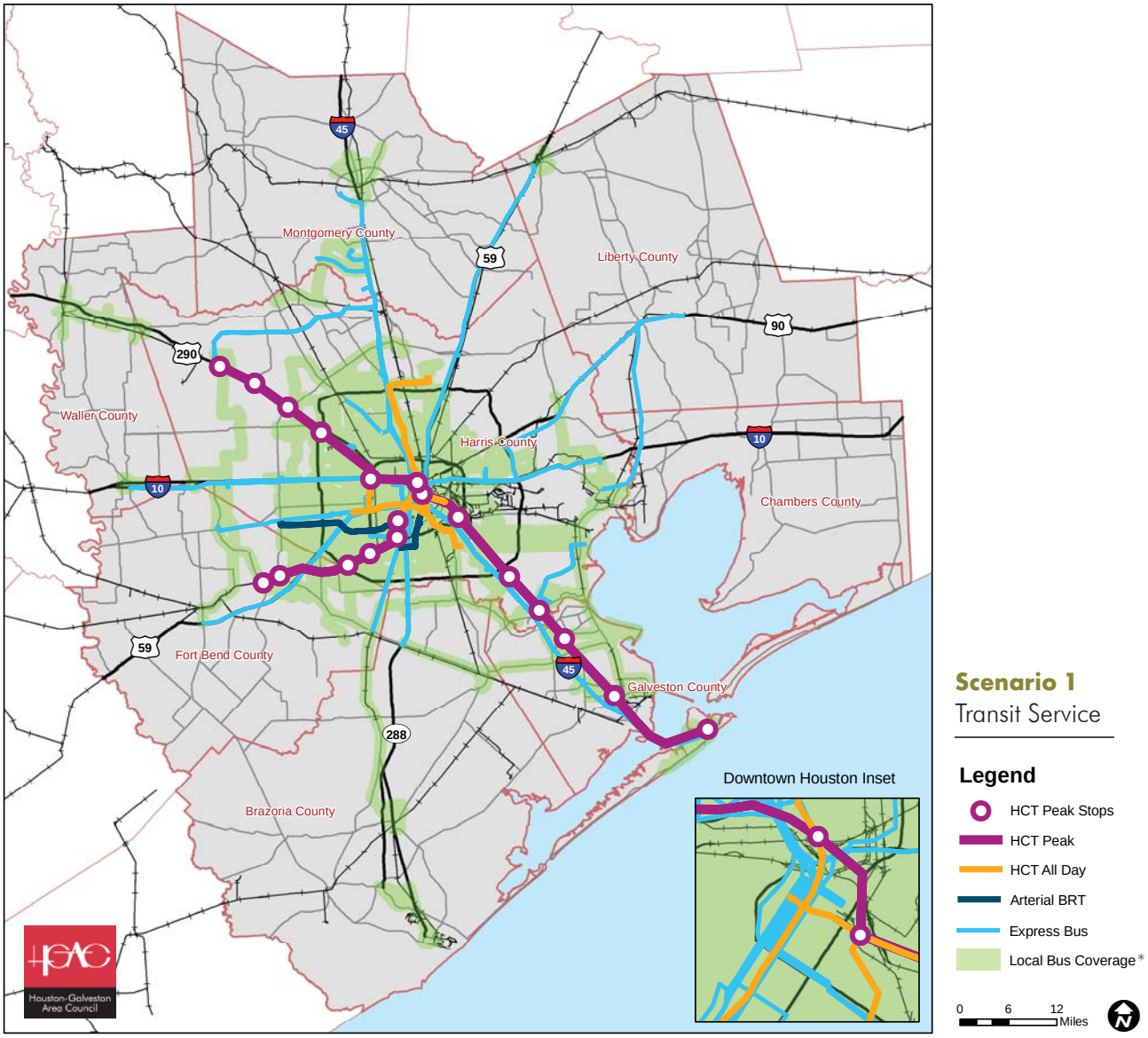
Regional Transit Framework Study

2040 Transit Scenarios

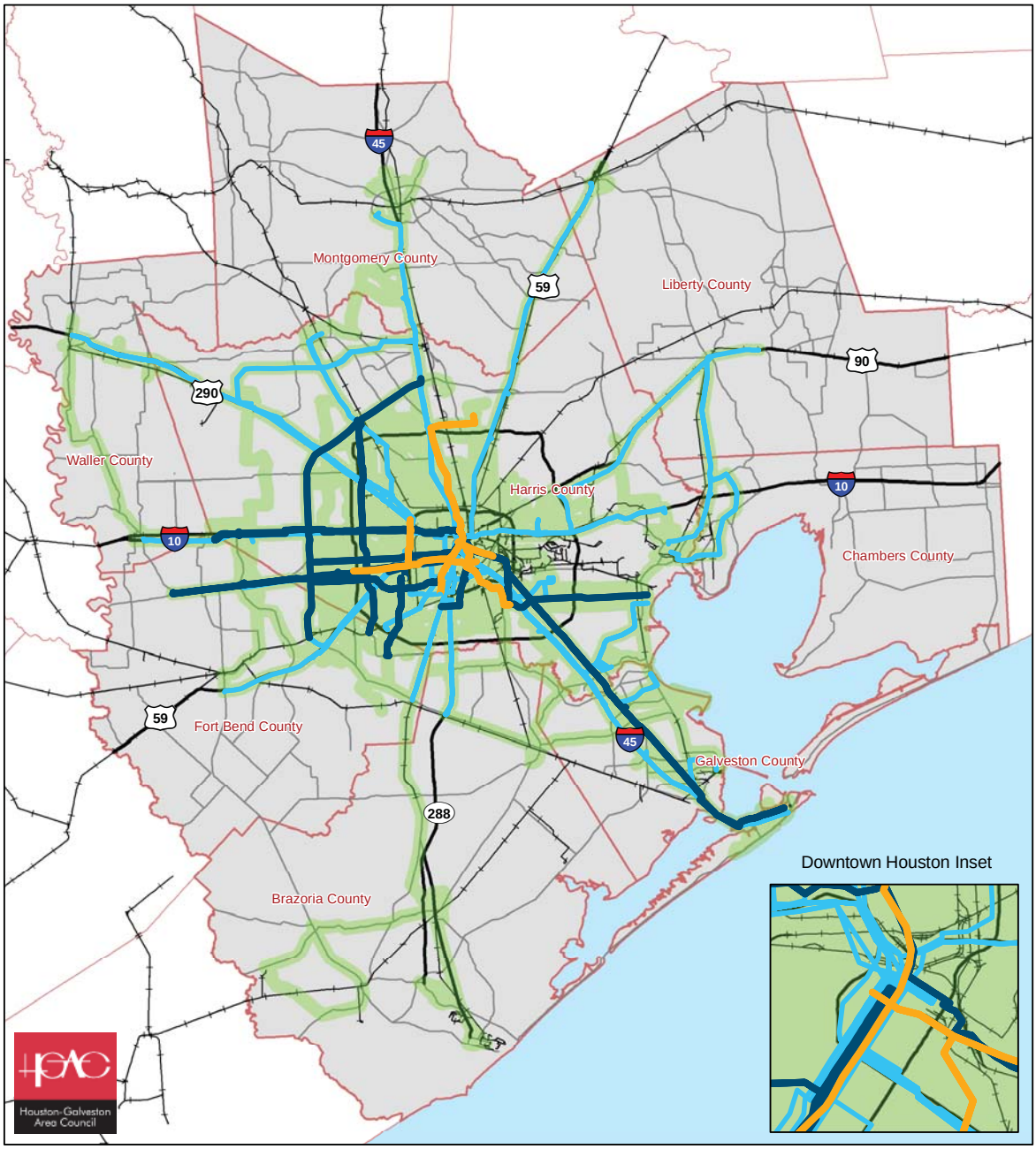
Four long-range transit scenarios have been developed as part of the Regional Transit Framework Study to provide the community with alternative visions for addressing transit needs within the H-GAC region by 2040. A base network of transit enhancements previously identified in the H-GAC region through 2040 is common to all four of the proposed transit scenarios (see Fact Sheet #3 for more information).

Scenario 1 serves as a base scenario for the H-GAC region. In this scenario, a modest number of enhancements were identified for fixed route and premium bus service. The express bus system was modified to accommodate HCT Peak service such as commuter rail or expanded commuter bus service operating in dedicated guideways. In addition, the scenario includes several passenger facilities such as transit centers and park-and-rides, as well as operations and maintenance facilities to support the expansion of services.



*Includes increased demand response service in areas outside of the fixed route bus network

Scenario 2 provides a more robust fixed route bus and premium bus network in the H-GAC region. A greater number of passenger facilities were also added to accommodate the expanded bus network. This scenario focuses on expanding the region's transit service primarily through premium bus services, to provide direct access to as many people in the region as possible. As a result, there is a greater focus on bus operations and expanded demand response service.



Scenario 2
Transit Service

Legend

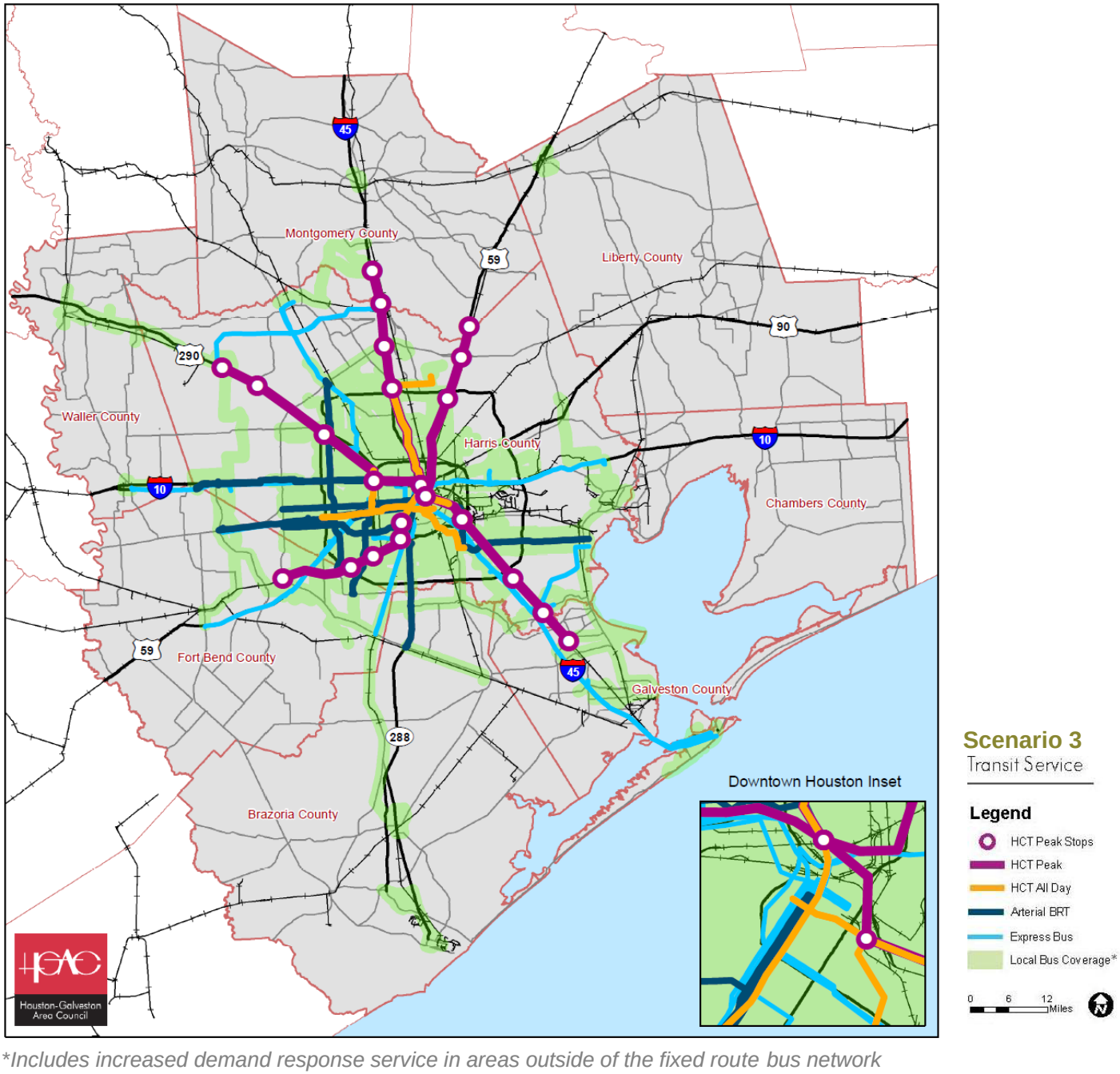
- HCT All Day
- Arterial BRT
- Express Bus
- Local Bus Coverage*

0 6 12 Miles

Includes increased demand response service in areas outside of the fixed route bus network

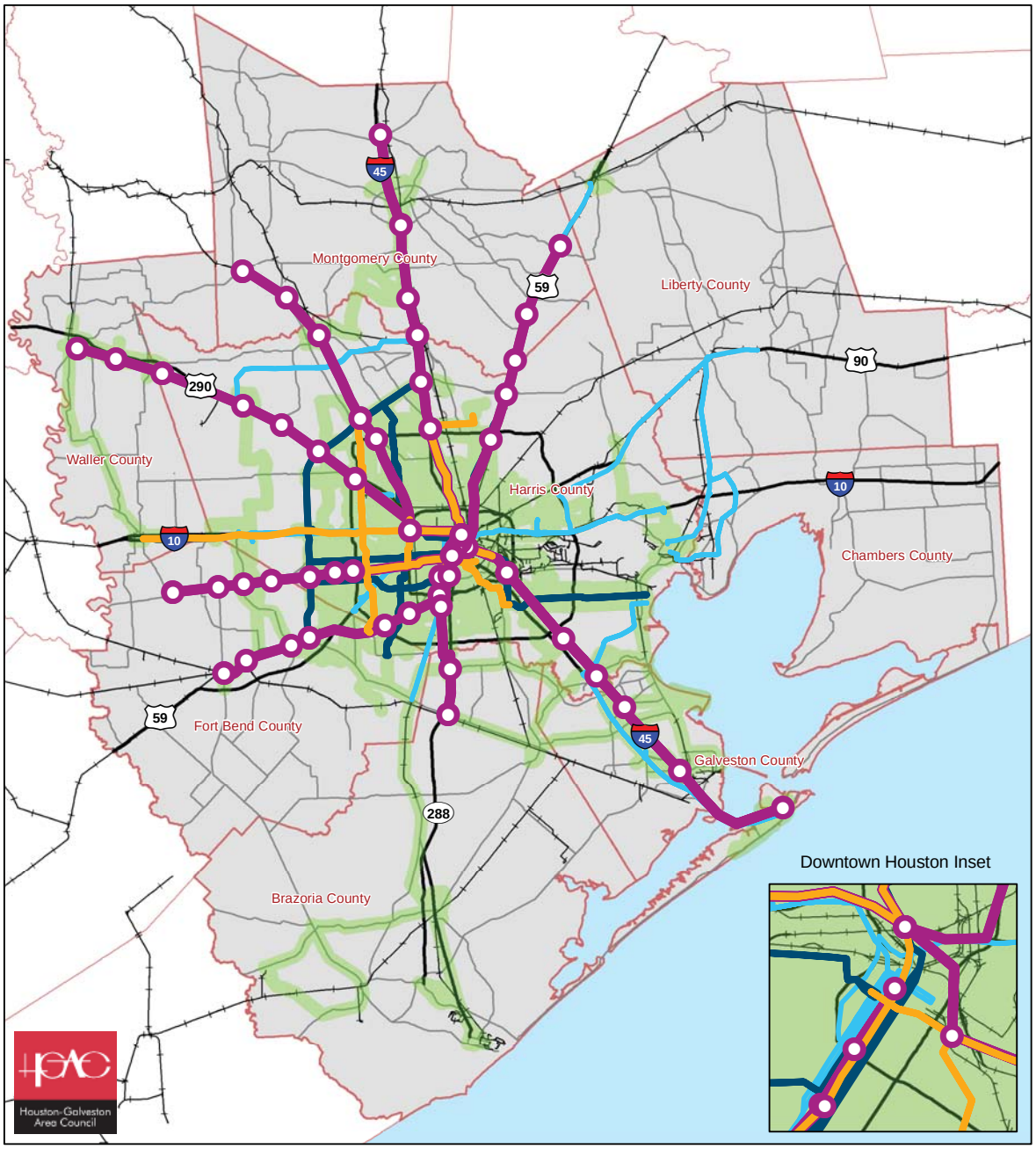
Scenario 3 includes expanded transit services throughout the region; however, transit investments would be focused in high demand corridors to maximize regional transit mode share. This scenario would include local area circulation with feeder services connecting population and employment centers with transit services operating in the region's high demand corridors. In addition, Scenario 3 would provide:

- Additional high capacity transit services (Peak and All Day) and a more concentrated fixed route bus and express bus network than the two previous scenarios
- Additional passenger facilities such as park-and-rides to establish multi-modal transit access points throughout the region



**Includes increased demand response service in areas outside of the fixed route bus network*

Scenario 4 includes the largest network of fixed route bus, premium bus, and HCT services, compare to the other scenario. Strategically located passenger facilities would be provided to allow passengers to quickly move throughout the H-GAC region. Several O&M Facilities would be added to provide additional capacity to accommodate expanded services. Compared to the other scenarios, this scenario maximizes service levels consistent with defined service standards and maximized direct connections to increase effectiveness through the reduction of transfers.



Scenario 4
Transit Service

Legend

- HCT Peak Stops
- HCT Peak
- HCT All Day
- Arterial BRT
- Express Bus
- Local Bus Coverage*

0 6 12 Miles

*Includes increased demand response service in areas outside of the fixed route bus network

Comparison of Scenario Elements

Comparison of Estimated Expenditures by Scenario (in 2009 Dollars)

Scenario	Total Expenditures (Operations & Maintenance)
1	$28,486,428,000
2	$33,501,077,000
3	$33,136,587,000
4	$49,281,244,000

Source: H-GAC Project Team, 2010.

Fixed Route Bus Service Total Annual Revenue Miles by Scenario

Scenario	Annual Revenue Miles
1	56,621,000
2	60,988,000
3	55,182,000
4	61,668,000

Source: H-GAC Project Team, 2010.

Commuter Express Bus Service Total Annual Revenue Miles by Scenario

Scenario	Annual Revenue Miles
1	12,628,000
2	26,953,000
3	16,044,000
4	14,841,000

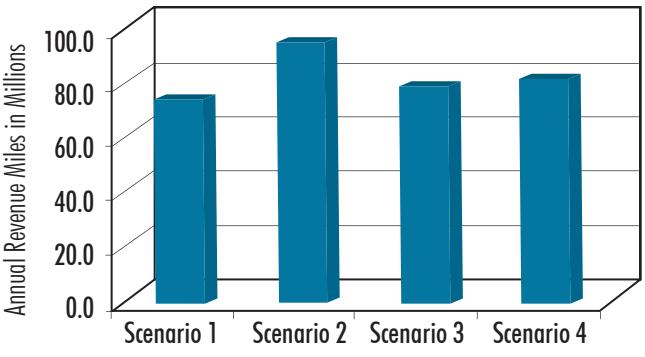
Source: H-GAC Project Team, 2010.

Proposed Arterial Bus Rapid Transit Service by Scenario

Scenario	Corridor Length (mi)
1	22.7
2	253.7
3	170.8
4	159.1

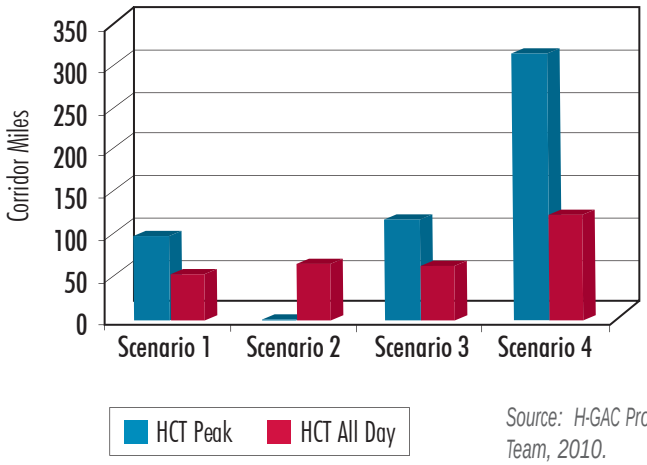
Source: H-GAC Project Team, 2010.

Annual Bus Revenue Miles



Source: H-GAC Project Team, 2010.

High Capacity Transit Corridor Miles



Source: H-GAC Project Team, 2010.

For additional information about the study contact Shaida Libhart of the Houston-Galveston Area Council at 713-627-3200.