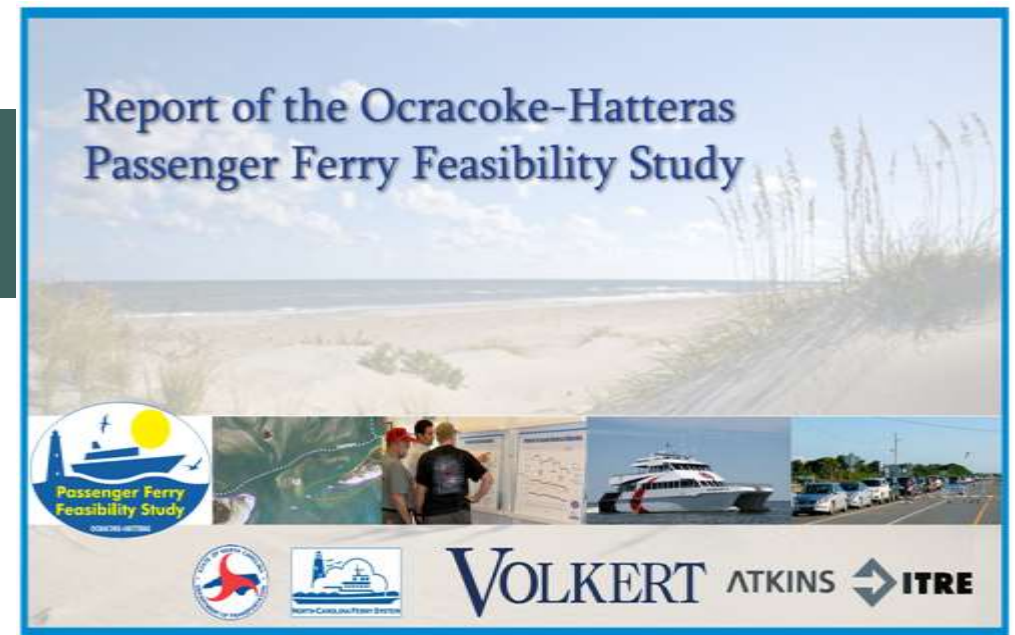# *Feasibility Study*

- Ferry route to Ocracoke changed due to shoaling
- Longer route caused reduction in number of crossings
- Longer wait times at terminals
- Unmet travel demand (vehicles leaving queue)
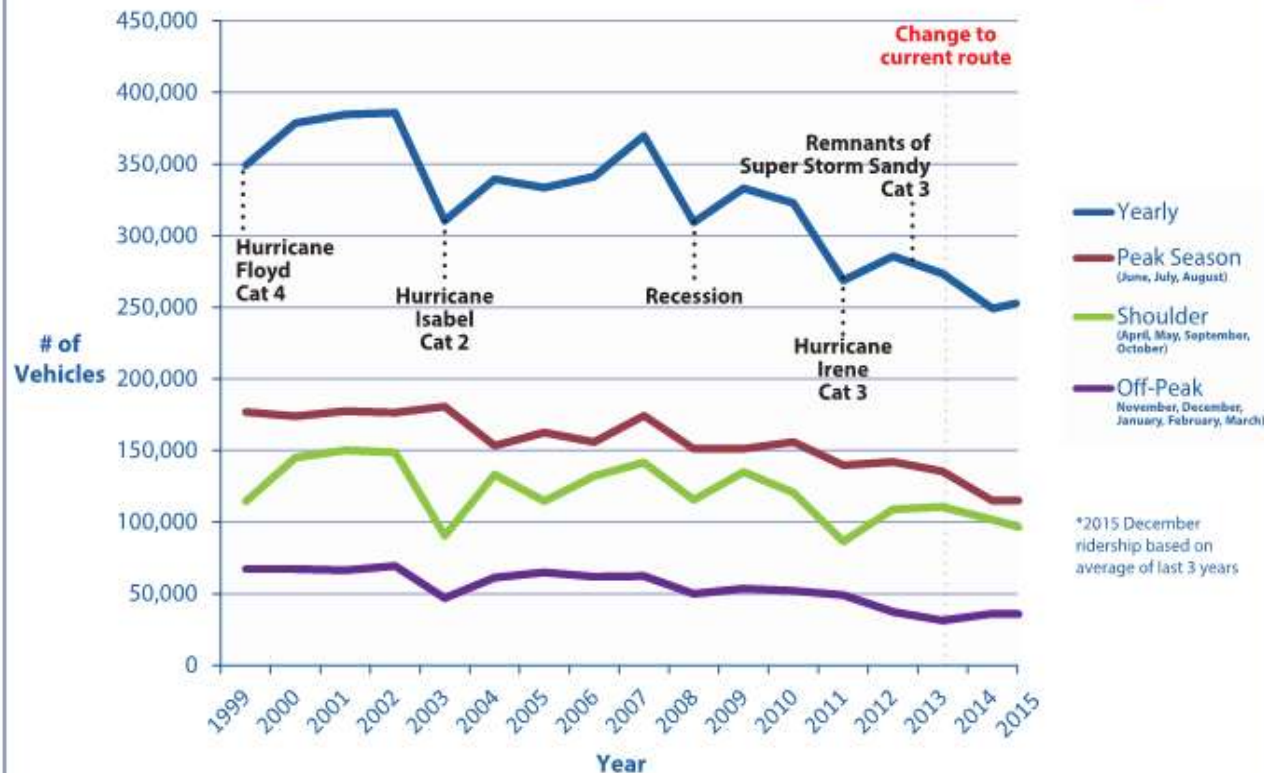- Increase in labor, fuel, and maintenance costs

Report of the Ocracoke-Hatteras Passenger Ferry Feasibility Study

VOLKERT ATKINS ITRE

Vehicles queued to board ferry at Hatteras

New Route

Old Route

Silver Lake Harbor

Horseshoe Channel

Sloop Channel

Barney Slough

Inlet Gorge

Hatteras Island

Hatteras Terminal

Ocracoke Island

South Dock Terminal

Hatteras Inlet

ATLANTIC OCEAN

Hatteras/Inlet Gorge/South Dock
Rollinson Channel Route
Hatteras/South Dock Route
Hatteras/Silver Lake Route

Source: ArcGIS Map Service (Ocean/World Ocean)

0   0.5   1   2 Miles

Feasibility Study

- Decrease in ridership
- Decrease in business revenue for Ocracoke and Hyde County
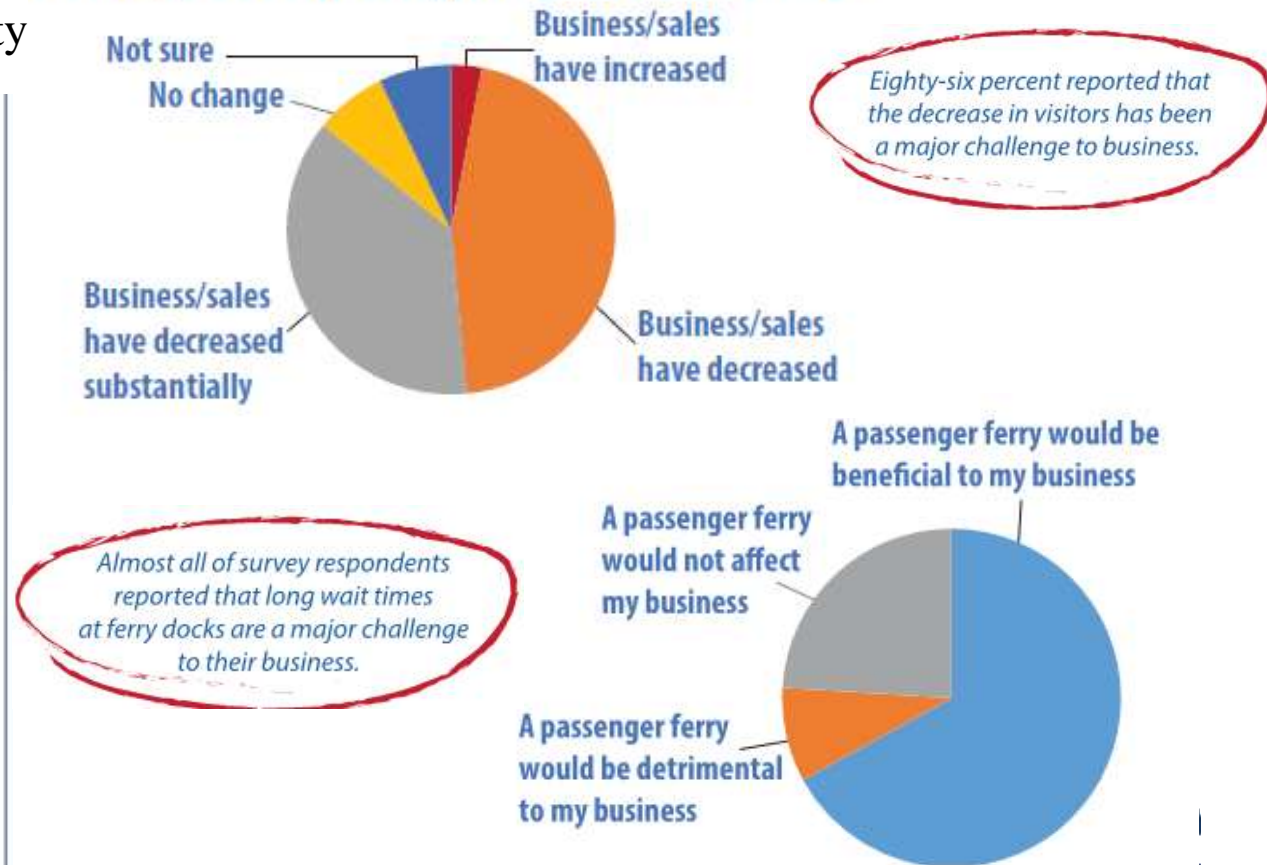
Budget - Cost Estimates

	Project Funding			
NC GA Appropriation =		$ 3,650,000		
FLAP Funds =		$ 5,470,288		
Total Funds Availble =		$ 9,120,288		

Design & Engineering Costs			
	Study	Contracted	
Federal Lands =	$ -	$ 100,000	(FL Project Management)
Elliot Bay Design Group =	$ -	$ 465,651	(Vessel Design & PS&E Package)
PB	$ -	$ 954,364	(Transit & Landward Design & PS&E Package)
RK&K	$ -	$ 402,500	(Project Management & Inspection)
		$ 1,922,515	

Funds Available for Construction =	$ 7,197,773

	Study	RFI Estimate
Passenger Ferry Vessels Cost=	$ 6,600,000	$ 10,000,000

Funds Available for Terminal Improvements =	$ 597,773	$ (2,802,227)

Hatteras Improvements:	Study	Estimate		Ocracoke Improvements:	Study	Estimate
Parking Lot (resurfacing & striping) =	$ 60,000			Relocation/Reconfiguration of NPS Dock =	$ 118,000	
New Employee Parking Lot =	$ 45,000			Pull Off Lane for Passenger Pickup/Drop-Off =	$ 10,000	
Passenger Parking Overflow =	$ 65,000			Passenger Waiting Amenities =	$ 225,000	
Passenger Waiting Amenities =	$ 360,000			Bathroom Improvements =	$ -	$ 75,000
Boat Utility connections/Floating Dock =	$ 578,500			Floating Dock =	$ 300,000	
Signage =	$ 20,000			Signage =	$ 10,000	
	$ 1,128,500	$ 1,128,500			$ 663,000	$ 738,000

				Ocraoke Transit Improvements:		
				Passenger Vehicle Purchase (3 @ $50,000 each) =	$ 240,000	$ 150,000
Ticketing System =	$ 150,000	$ 150,000		Transit Stops =	$ 33,000	$ 18,000
				Signage =	$ 26,000	$ 5,000
					$ 299,000	$ 173,000

	Study	Estimate*	
Terminal Improvements Cost =	$ 2,240,500	$ 2,189,500	*Plans are not available to perform detailed cost estimate
			However some costs have been estimated based on research
Remaining Budget =	$ (1,642,727)	$ (4,991,727)	

RFI Cost Estimates

Shipyards	2 Boat Total	
Armstrong	8.752M	NC shipbuilder
All American	$10.78M	West coast shipbuilder
		Long transport therefor expedited build
Blount	$9.20M	RI Shipbuilder
Conrad	$16.40M	No expertise in aluminum hull
		Estimate not used in average
Gladding & Hearn	$11.50M	
Metal Shark	$9.20M	
Average	$9.89M	Not including Conrad

The Vessels
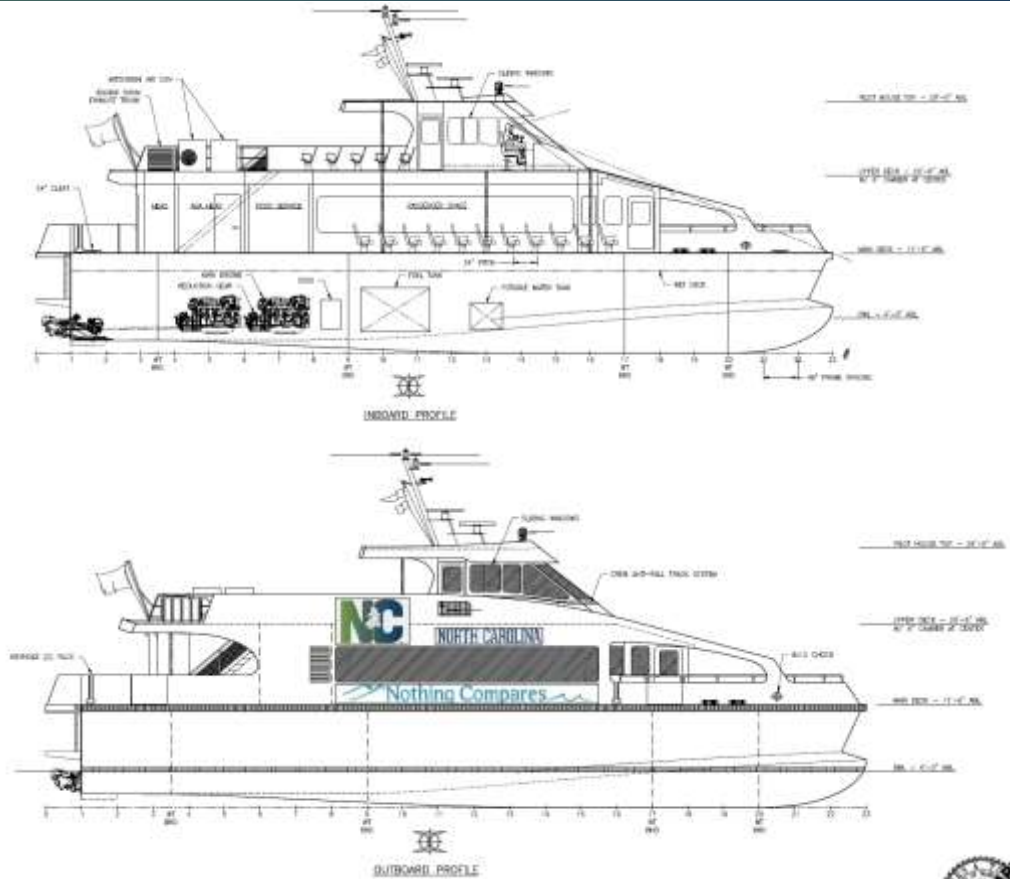
Terminal Improvements

Hatteras Terminal

Ocracoke Terminal

Transportation

Ocracoke Transit

Transit Circulator Map

- 3 Passenger Shuttles

- Wheelchair accessible

- 12 Point-of-Interest Stops

Timeline

Terminal Improvements Design and Permitting	Let and Contract	Terminal Improvements Construction	

2016	**2017**	**2018**

Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct

Vessel Design	Let and Contract	Vessel Construction, Sea Trials, Delivery, and Coast Guard COI	Vessel Operational

Ticketing Website Design	Ticketing Software IT Implementation

Transit Planning & Design Hyde County Operations Analysis	Let and Contract	Transit Improvements at Ocracoke	Transit Operational

NC