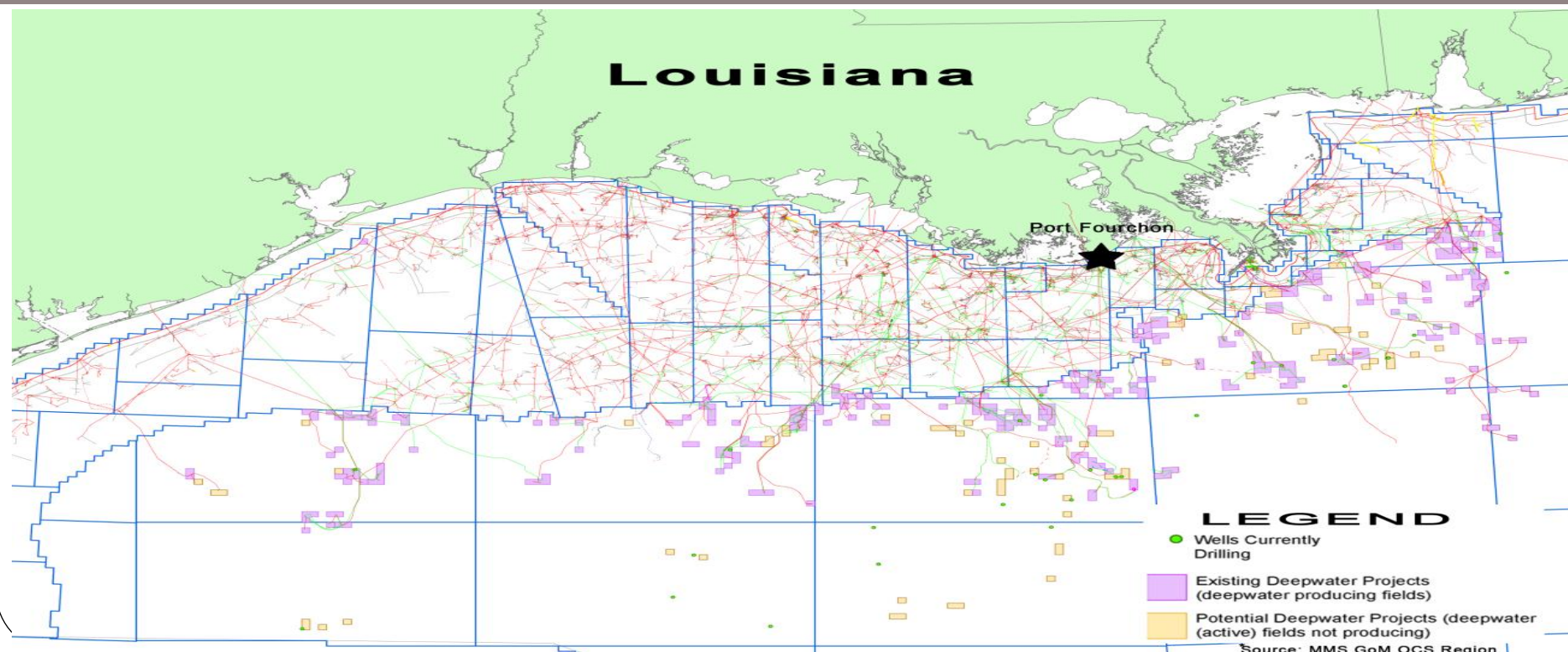




Quadrennial Energy Review Public Stakeholder Meeting Chicago, Illinois August 8, 2014



Elevated Highway Will Replace Existing At-Grade Highway



Elevated LA-1 is built to clear 17 ft FEMA requirement



At-Grade Highway (old LA-1)



09 / 11 / 2008



Time Is Running Out For This Critical, At-Risk Energy Infrastructure

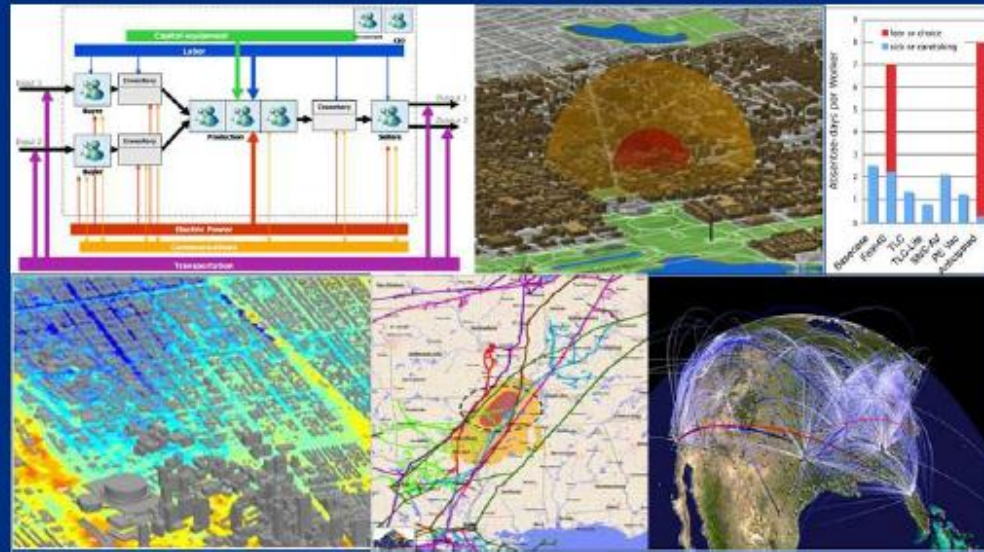


Category 1 Hurricane Isaac Brought Unprecedented Damage



U.S.D.H.S. performed an Assessment of Consequences of Disruptions to LA 1 in 2011.

**In 90 days, as
much as \$7.8
billion of loss
GDP is at risk**



National Infrastructure Simulation and Analysis Center
Risk Development and Modeling Branch
Homeland Infrastructure Threat and Risk Analysis Center
Office of Infrastructure Protection

In Collaboration with

The National Incident Management Systems
and Advanced Technologies Institute at
The University of Louisiana at Lafayette

Louisiana Highway 1/Port Fourchon Study

July 15, 2011



Homeland
Security



*** Elevation of LA-1 becomes increasingly inundated even if present day relative sea level rise (RSLR) remains constant in the future.**

Estimated Effects of RSLR on Frequency and Duration of Inundation for Leeville, LA using observations 1987-1990 and then projecting this 4-year time period forward using present rate of sea level rise

Using "5%" LA-1 elevation of 0.78m NAVD88 (1993)

4-yr Time Period	RSLR rate mm/yr)	Occurrences of Inundation (over 4-years) (# of tides)	Duration of Inundation (over 4- years) (hours (percent of total time))	Elevation Rise Above 1990 MSL (meters)
1987- 1990	9.24	0	0 (0%)	-
2027-2030	9.24	124	960(6%)	0.3
2047- 2050	9.24	1127	19163(55%)	0.6
2097- 2100	9.24	1334	33699(96%)	1.0

*** Need to be prepared for greater impact than this conservative estimate.**



We Are Making Progress, But Remain Challenged To Build 8.7 Miles (denoted in red)

