

COASTAL VALUATION

Economic Evaluation of Coastal Land Loss in Louisiana

PURPOSE

Quantify and present the economic importance of coastal Louisiana to the nation and the state and the magnitude of risk to coastal assets (natural and manmade) and commerce posed by the land loss crisis



PROJECT GOALS

Estimate assets and economic activity at risk in a future without action:

- I. Direct effect of land loss
- 2. One-time losses due to increased storm risk
- 3. Impact on other states and the nation



KEY MEMBERS OF PROJECT TEAM

Louisiana State University

- Stephen Barnes
- Stephanie Virgets
- Ben Vincent
- Chris Schmidt

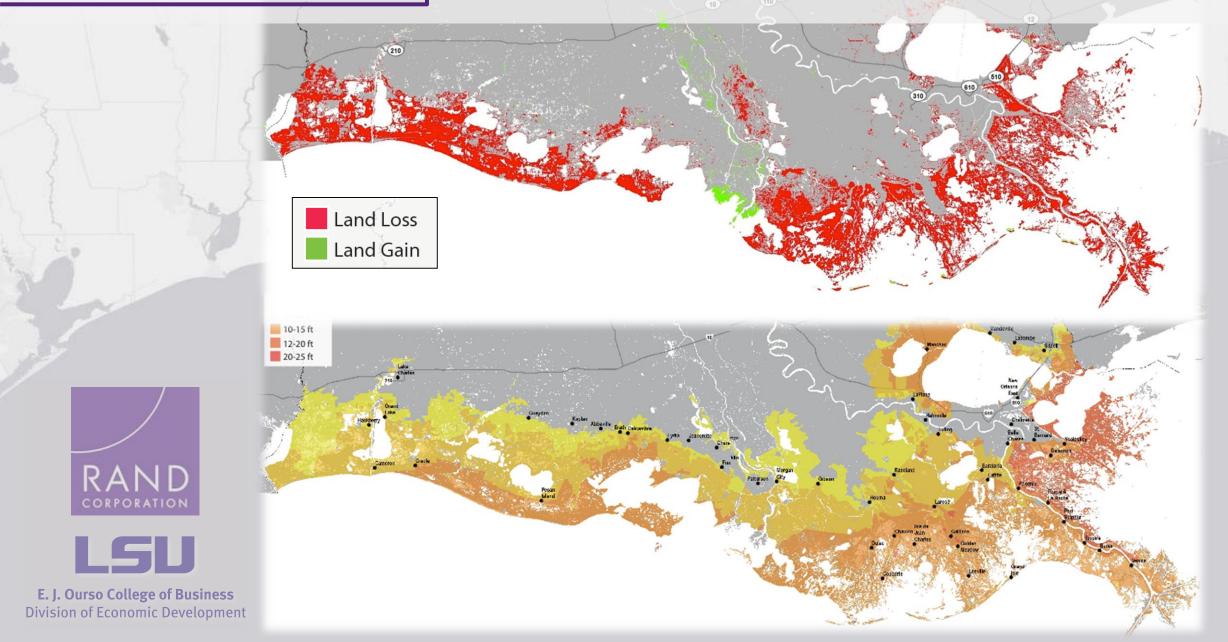
RAND Corporation

- Craig Bond
- Nick Burger
- Kate Nixon
- Sarah Weilant



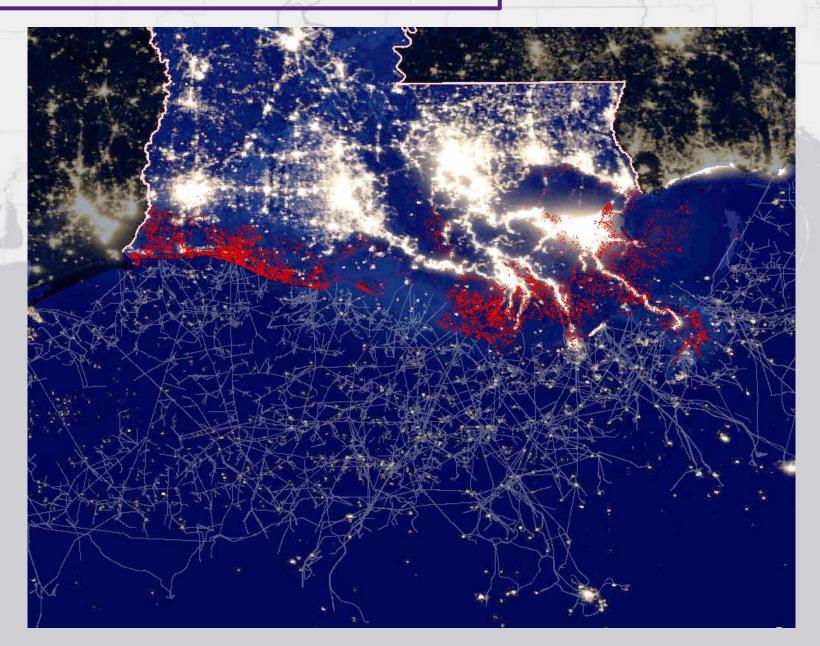
Charles Sutcliffe, Policy Adviser with Governor's Office of Coastal Activities, is providing day-to-day guidance and serves as the conduit between the Steering Committee and our group

2012 MASTER PLAN: FUTURE WITHOUT ACTION

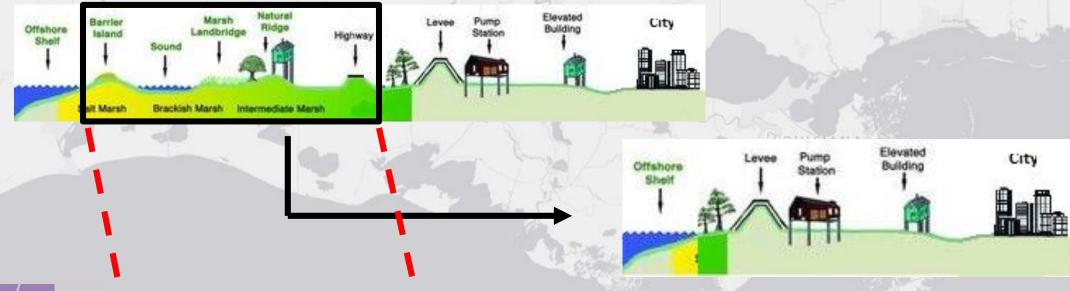


ECONOMIC ACTIVITY AND LAND LOSS





ECONOMIC IMPACT FROM: DIRECT LAND LOSS









- Most land loss is marsh land
- Limited lower-elevation assets (people build on highest land available)
- Permanent losses

ECONOMIC IMPACT FROM:

INCREASED STORM RISK





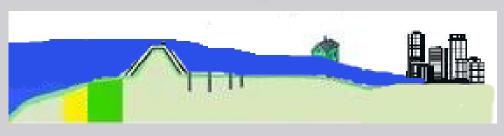
Division of Economic Development

Much larger numbers and values for property at risk

Business interruption/flows important

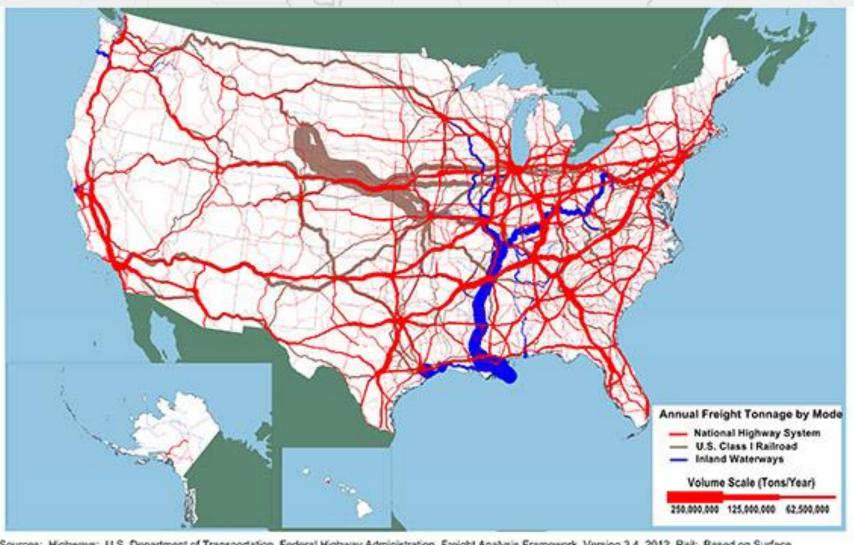
E. J. Ourso College of Business One time losses

Storm Surge, 2064



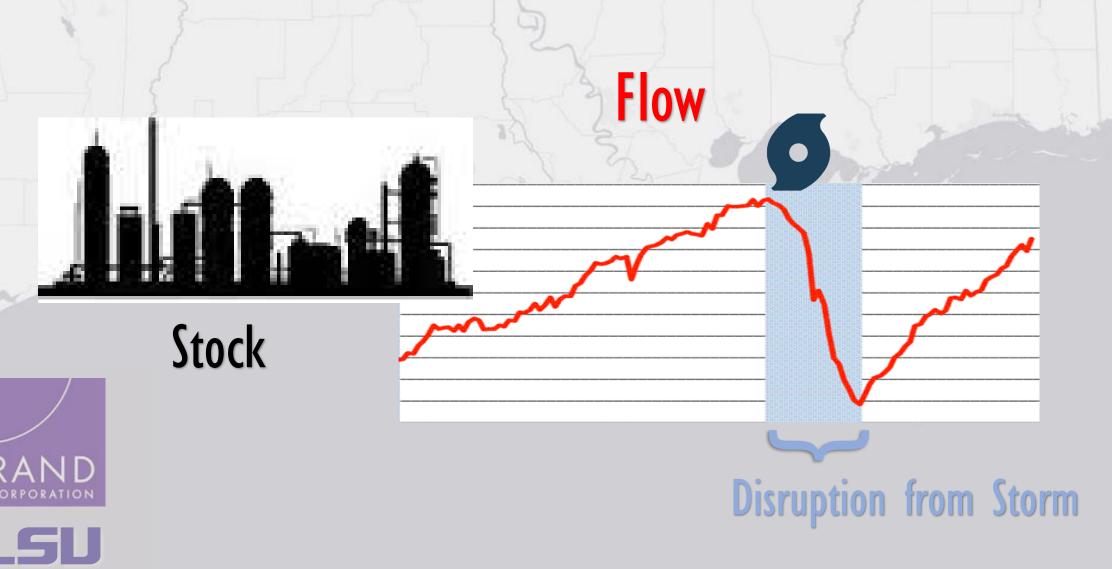
ECONOMIC IMPACT: ON OTHER STATES





Sources: Highways: U.S. Department of Transportation, Federal Highway Administration, Freight Analysis Framework, Version 3.4, 2012. Rail: Based on Surface Transportation Board, Annual Carload Waybill Sample and rail freight flow assignments done by Oak Ridge National Laboratory. Inland Waterways: U.S. Army Corps of Engineers (USACE), Annual Vessel Operating Activity and Lock Performance Monitoring System data, as processed for USACE by the Tennessee Valley Authority; and USACE, Institute for Water Resources, Waterborne Foreign Trade Data, Water flow assignments done by Oak Ridge National Laboratory.

TWO BROAD TYPES OF IMPACT: STOCKS AND FLOWS



DIRECT LAND LOSS





FLOW



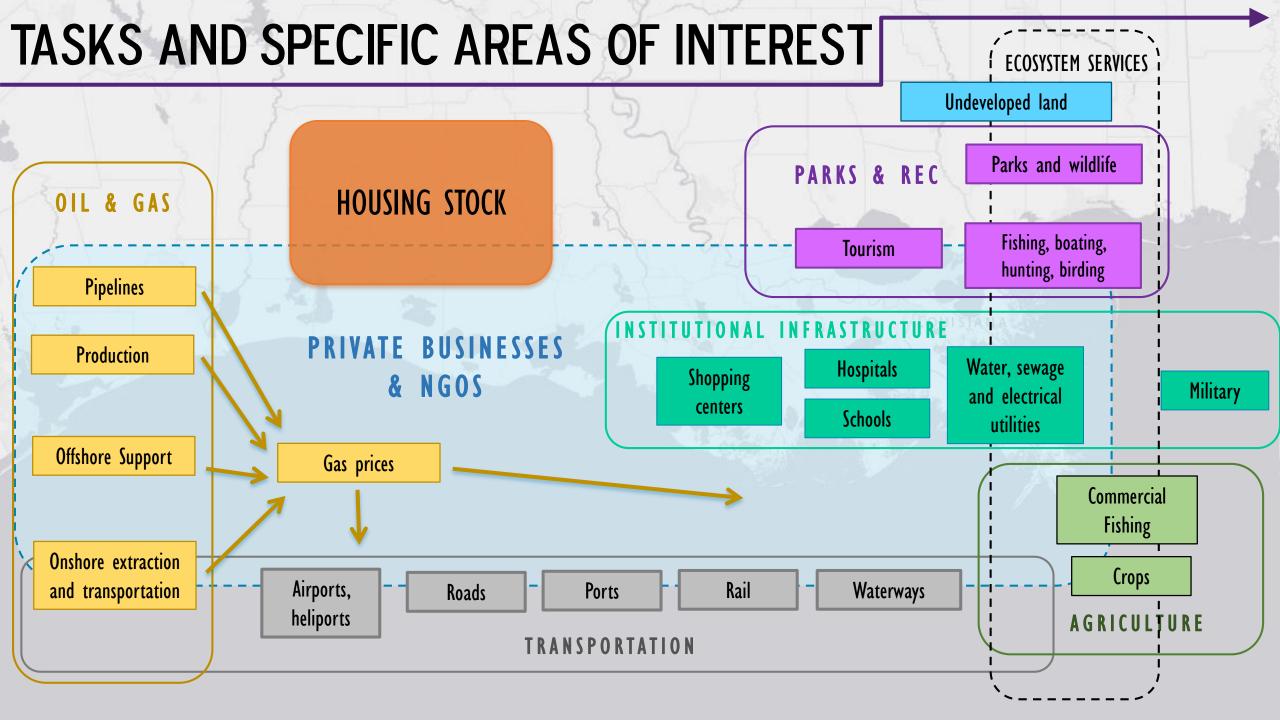




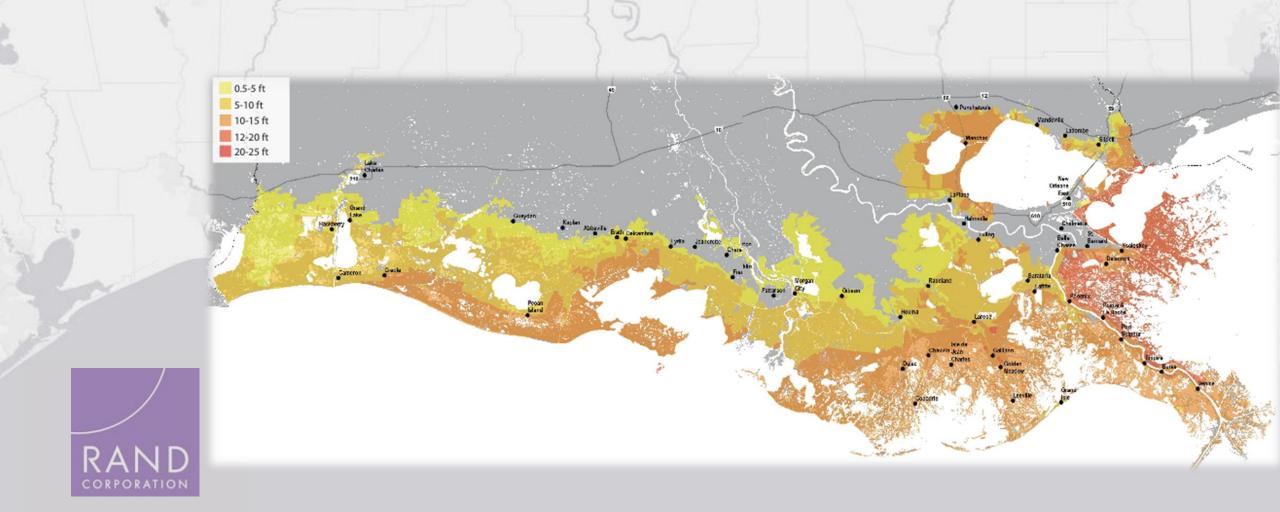




LSU

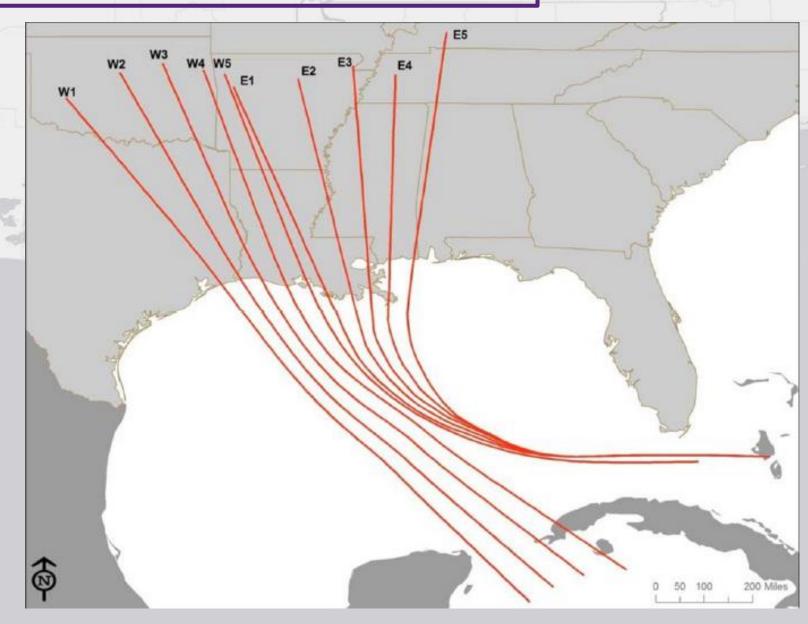


HURRICANE DAMAGE: 100 YEAR FLOOD



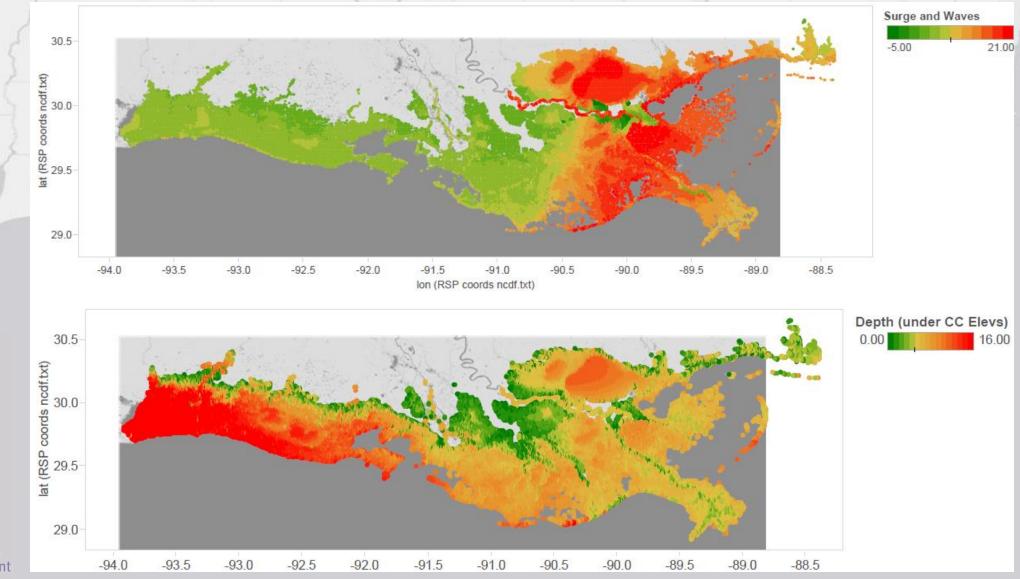


HURRICANE TRACKS FOR CASE STUDY: E2 AND W2





STORM SURGE FOR TWO CASE STUDIES





PROJECT TIMELINE

LSU/ Steering Committee Conference Call | October 2014 **RAND** LSU/RAND First Interim Report | December 2014 Comments on Interim Report Due Back | February 2015 **CPRA** LSU/RAND Second Interim Report | April 2015 LSU/ **CPRA** Final Comments Due Back (Conference Call) | May 2015 **RAND** Final Report | June 2015 LSU/RAND Presentation to Steering Committee | July 2015 LSU/RAND

CPRA LSU/ RAND

Working Groups



PROJECT DELIVERABLES

- Data repository of assets and business activities in coastal area
- Maps showing locations of assets and business activities
- Narrative report outlining methodology and results
- Executive summary presentation



Public and conference presentations

