

# Building Resiliency into Energy Assurance Planning

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# Florida Petroleum Council

- **Division of the American Petroleum Institute**
- **Represent All Segments of the Petroleum Industry**
  - ✓ **Exploration**
  - ✓ **Production**
  - ✓ **Refining**
  - ✓ **Transportation**
  - ✓ **Retailing**

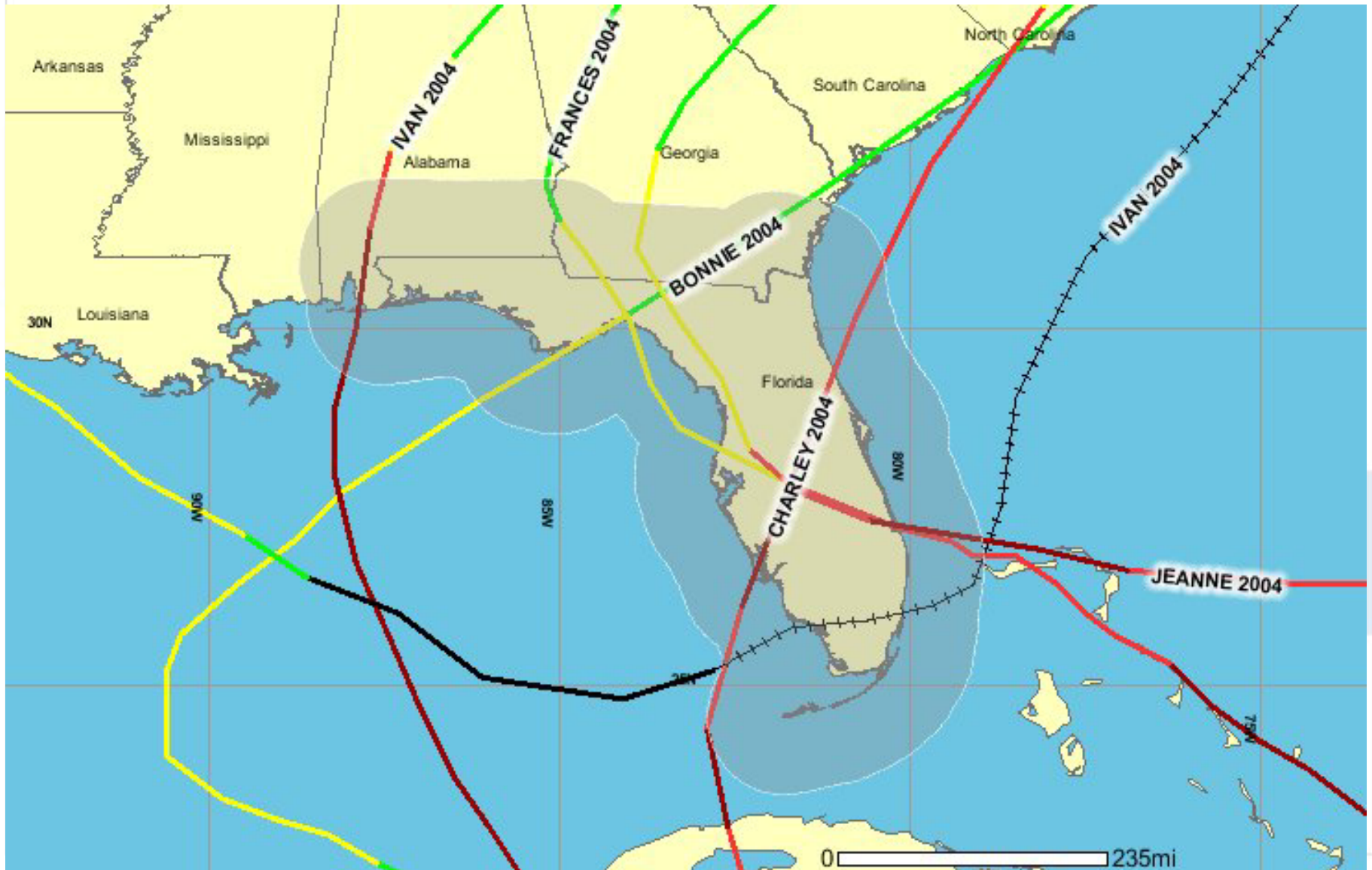
# Florida's Statistics

- **Population: 18.2 million**
  - ✓ 6.4 million households
  - ✓ 17% 65 or older
- **Tourist: 82.4 million**
  - ✓ 39 million arrive by car
- **Registered vehicles: 14.5 million**

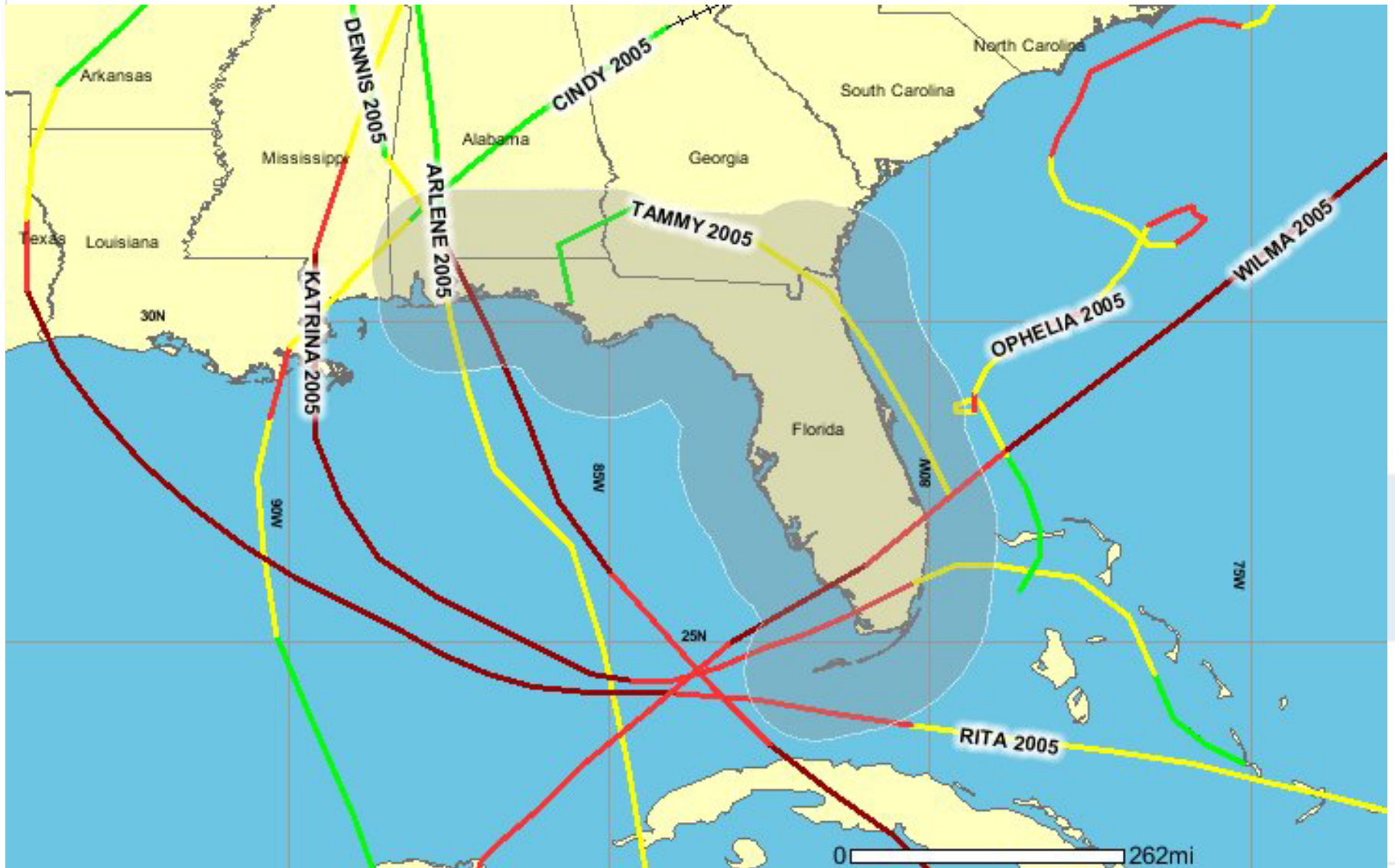
## A Few More Stats

- **17.3 million Floridians live in coastal areas (~95%)**
- **487% increase between 1950 and 2000**
- **Population density in Florida coastal areas is 346 people per square mile**

# 2004 Hurricane Season



# 2005 Hurricane Season



# Objective

**To ensure petroleum supplies are distributed to key/critical areas and the distribution infrastructure is restored as quickly as possible.**

**The Florida Petroleum Council facilitates communications among the petroleum industry, Governor, emergency responders, regulators, marketers, utilities, and affected industries.**



# Pre-Planning

- **Emergency Response Meetings and Exercises throughout the year**
- **Re-establishment of Distribution Priorities**
- **Re-establishment of Utility Restoration Priorities**
- **Re-establishment of Channels and Contacts to Execute Various Waivers**

# Hurricane Approaching - Industry

- **Ports prioritize off-loading of petroleum**
- **Industry pre-positions inspection/recovery teams and equipment just outside of projected path**
- **Industry implements evacuation and communication contingency plans for employees**
- **Begin port terminal and retail facility shut down procedures**

## Hurricane Approaching - Government

- EOC opened and initial contacts with industry are made
- Permits and passes are issued for additional and overweight vehicles (passage into any restricted zones)
- Federal and state fuel exemptions and variances are filed for approval to coincide with relief efforts
- Port status is continually communicated by USCG

# Hurricane Striking



- **Constant communication with EOC (often at the EOC)**
- **Provide emergency fuel if need arises**
- **Communicate information to companies as it becomes available**



## Post Hurricane Initial Contact and Evaluation

- **Employee Contact and Safety Assurance**
- **Company inspection and recovery teams mobilized**
- **Ports / Terminals / Transportation / Retail Facilities inspected for safe operations**

# Post Hurricane Ports and Terminals

- **Facilitate Port and Terminal Restoration**
  - ✓ **Army Corp of Engineering Port Evaluation and Dredging**
  - ✓ **USCG Escorts for Barges**
  - ✓ **Communicate Port Status**
  - ✓ **Power Restoration to Port Terminals – Generators / Utilities**



# Post Hurricane Distribution and Restoration

- **Terminals and all transports begin distribution**
- **Fuel distribution according to priorities**
  - ✓ **Emergency and relief workers**
  - ✓ **Health care facilities**
  - ✓ **Main egress and ingress routes**
  - ✓ **Strategic locations corresponding with utility restoration**

## Lessons Learned

- **Shorter evacuations – safety and less fuel**
- **Communications among government, utilities, and petroleum companies can expedite infrastructure restoration**
- **Minimize reporting requirements by companies to allow personnel to focus on restoration**
- **Calm, confident communications by executive (Governor) is key**
- **Debriefings lead to best management practices – within the industry and between industry and government**

# Outstanding Issues

- **More Commitment to Rely on Market Solutions**
  - ✓ **Mandatory generators at petroleum facilities**
    - Do not address transportation bottleneck
    - Raise expectations among citizens
    - Increase competition for diesel
  - ✓ **Proliferation of home generators leads to increased petroleum demand**
  - ✓ **Market Prices vs. Price Gouging**

Questions?