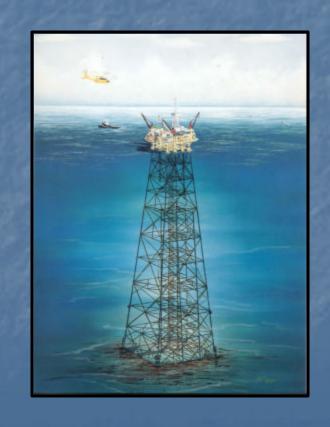
# Social Impact Assessment and Offshore Oil and Gas in the United States

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### **MMS Mission**

Primary responsibility is to manage oil, gas, and mineral resources on the OCS





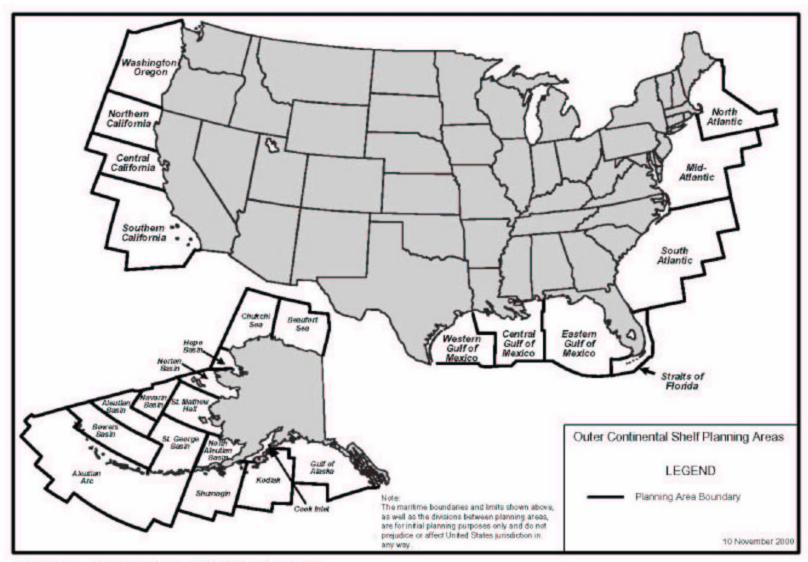
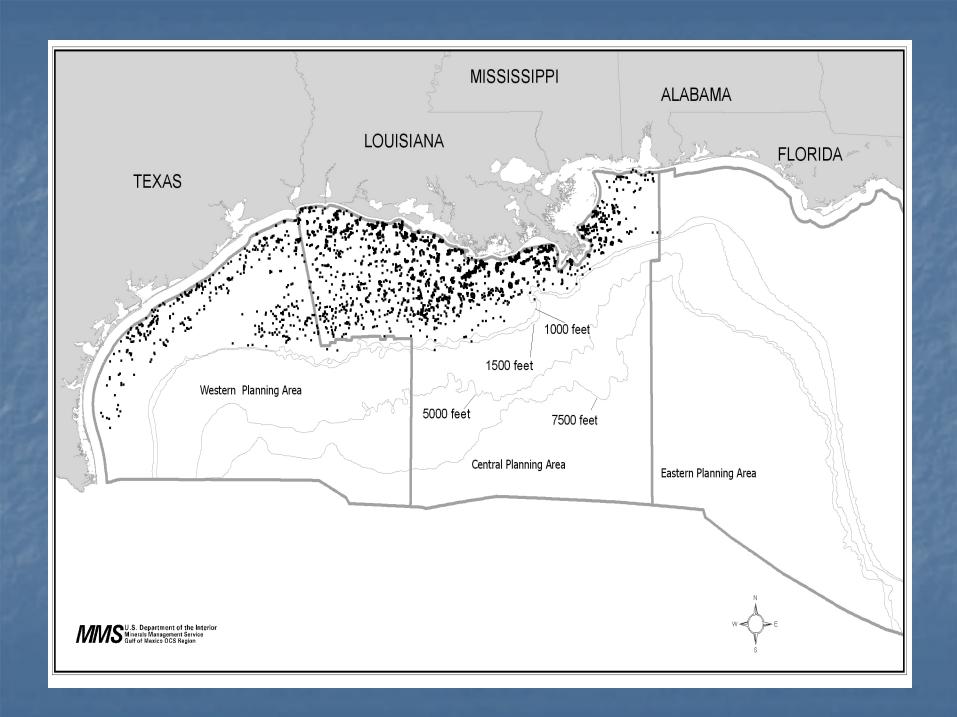
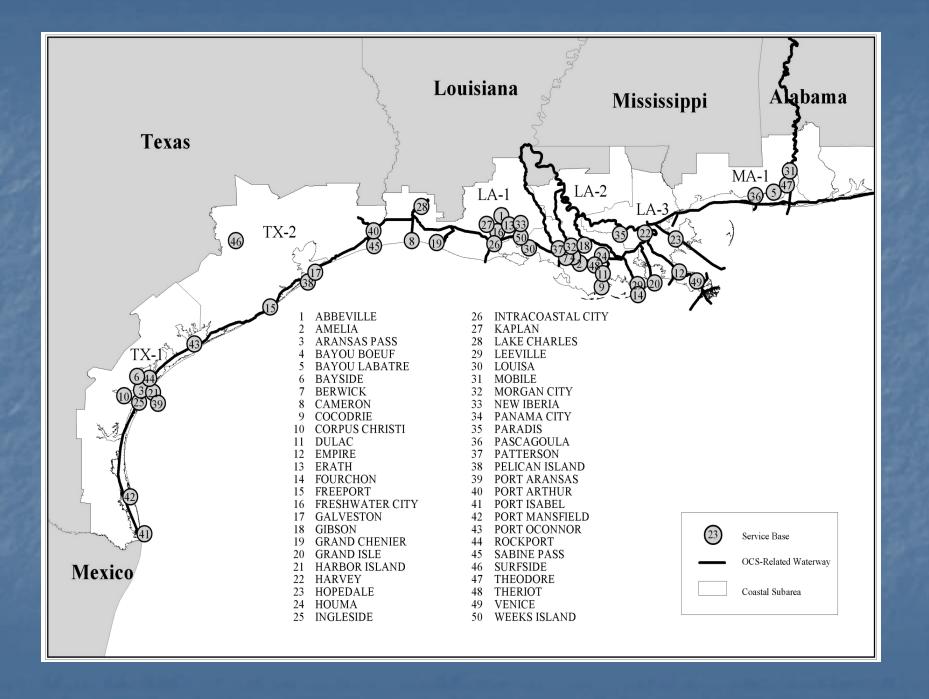


Figure 1-1. Outer Continental Shelf Planning Areas





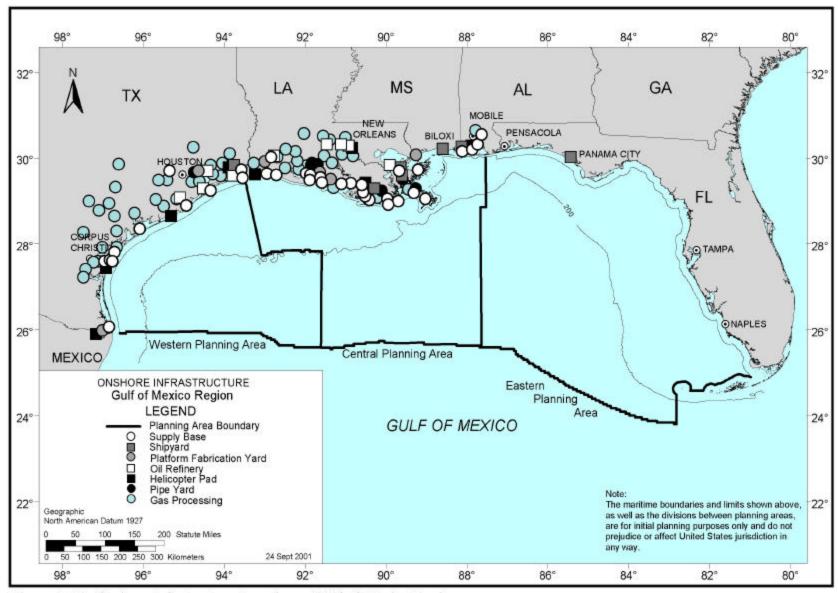


Figure 3-16. Onshore Infrastructure Locations - Gulf of Mexico Region





### **Environmental Assessment**

- Assess the likely effects of OCS activities on the marine, coastal, cultural, and human environments, including...
  - Assessment of each proposed lease sale and all proposed exploration and production activities.

## **Environmental Studies Program**

Ongoing Research by Region *A Snapshot!* 

Gulf of Mexico

Alaska

Pacific

National

~ 120 Studies at

~ 50 Studies at

~ 40 Studies at

~ 22 Studies at

~ \$56 million

~ \$22 million

~ \$38 million

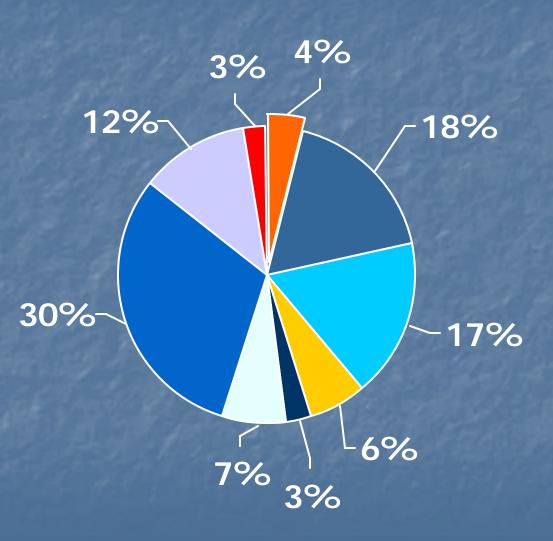
~ \$ 7 million

# **Budget by Discipline**



- □ Biology
- ■F&E
- □ Info.M gmt
- Minerals
- End.& Prot. Species
- Pollutant Transport
- Soc-Ec





## The Original US SIA Paradigm

- Driven by population effects (labor demand, construction phase, boomtowns, etc.)
  - Demographic effects
  - Economic Impacts
  - Infrastructure and services
  - Fiscal Effects
  - Social/Cultural effects and change (an after thought?)

# The Original US SIA Paradigm (cont.)

- Specific context grew out of rural areas becoming more developed
  - Introduction of large, new energy developments
  - Morphed concerns about small towns and boomtowns into a systematic analysis of socioeconomic impacts

Is the original US SIA paradigm appropriate for analyzing the OCS oil and gas program's social and economic effects?

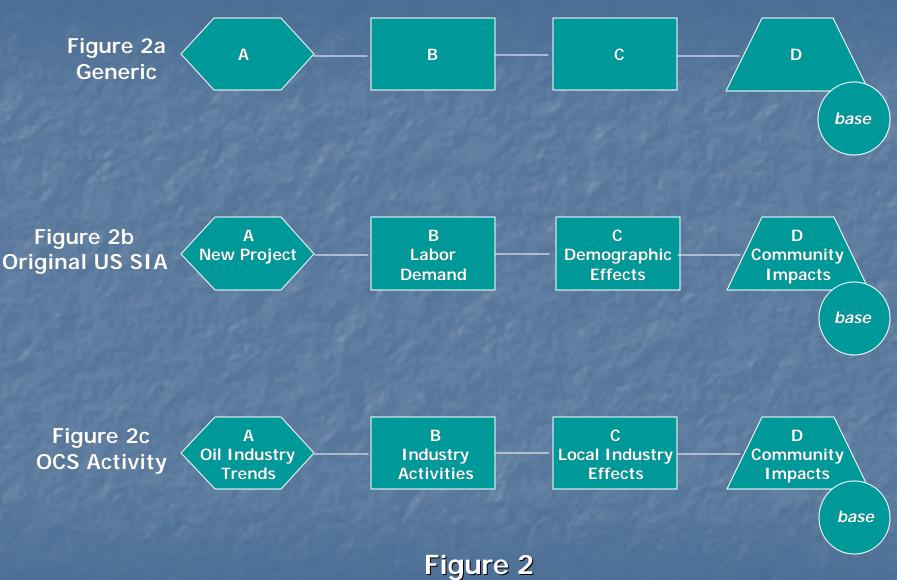


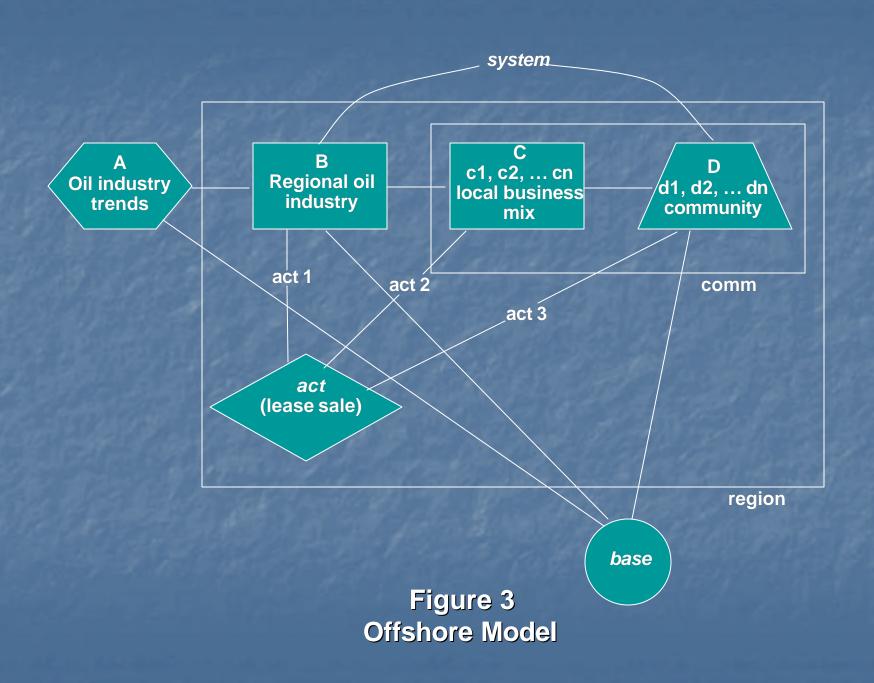
Figure 2
General Model

# Boomtowns and the Original US Social Impact Assessment Paradigm

- Boomtowns shaped "classic" SIA approach including an emphasis on demographic effects
- The magnitude of demographic effects became synonymous with all impacts
- These studies articulated a logic that still underlies much of current SIA analysis

# Underlying Logic Still Incorporated into Much of Federal SIA in the US

- Current SIA deals with what happens during and after construction
- Current SIA deals with community change due to the influx of newcomers
- Current SIA deals with new industry/development
- Current SIA deals with short/long-term effects to community



#### Table 1

Original US SIA	OCS Activity
Assesses a project	Assesses a program
Project simple and key variables specific to plan and geography	Industry complex and key variables hypothetical and general
Assessment area = the community	Assessment area = multiple states
Community small, rural & isolated	Affected areas include urban and/or industrialized
Processes related to industrialization	Processes related to regional development
Project new to area	Program (and industry) developed in area
Project timeframe discontinuous	Program timeframe ongoing
Time compression highlights effects	Timelines not compressed
Timeframe segmented	Timeframe segments all ongoing & overlapping
Effects vary by project phase	Effects vary by industry mix and activity level
Effects concentrated in construction	Effects of segments indistinct

#### Table 1—Cont.

Original US SIA	OCS Activity
Project imposed from without	Program (industry) evolved in area
Project organization unfamiliar	Industry tied to local entrepreneurship
Project technology unfamiliar	Project technology locally developed
Project scale massive & unfamiliar	Project scale typical and familiar
Labor demand greater than supply	Local labor supply matched to industry
Labor demand compressed in time	Labor demand continuous
"Boom and bust" concerns	Market fluctuation concerns
Cumulative effects = other projects	Cumulative effects = ongoing program
Effects decision driven	Effects economically driven
Assessment rationalistic	Assessment probabilistic
Outcomes more "predictable"	Outcomes less "predictable"
EIS stresses planning	EIS stresses documentation

# The Regions, the Industry, and Socioeconomic Effects

- Challenges
  - Baseline
  - Affected area
  - Offshore oil industry
  - Addressing local effects
  - Cumulative effects



### Current Approach

- Away from population driven models (one size does not fit all)
- Away from strong bent to invoke Durkheim and anomie
- Focus towards reflexive community/social change and "perceived freedom"
  - By studying issues of importance depending on "place"
  - By integrating effects as a "layer cake" and linking levels of analysis (macro/micro)
  - By emphasizing social and cultural effects rather than treating them as a residual after thought
  - By focusing on realities rather than academic exercises