## Integrating the social and natural sciences in boundary organizations: Lessons from Sea Grant

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## Thanks to Sea Grant Social Science Community of Practice

# Sea Grant Sea Grant

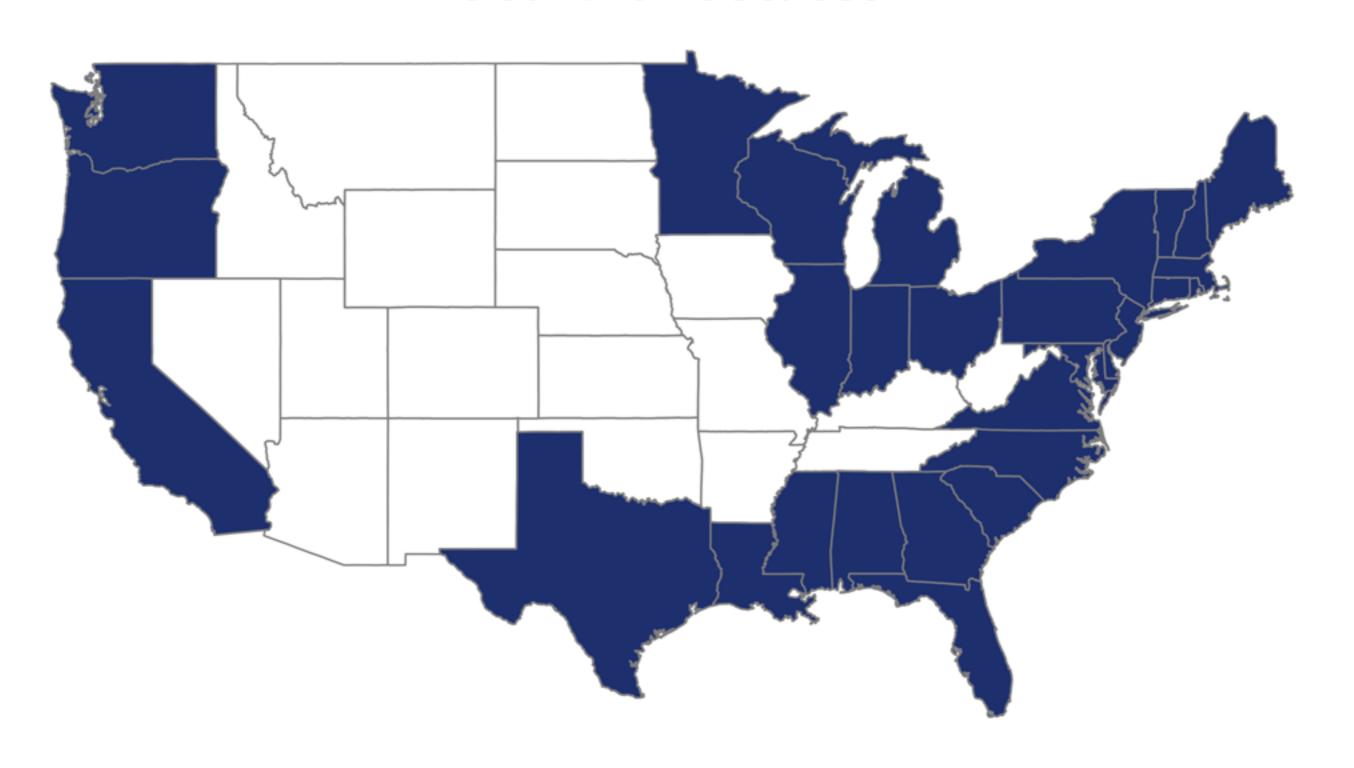


AT TEXAS A&M UNIVERSITY

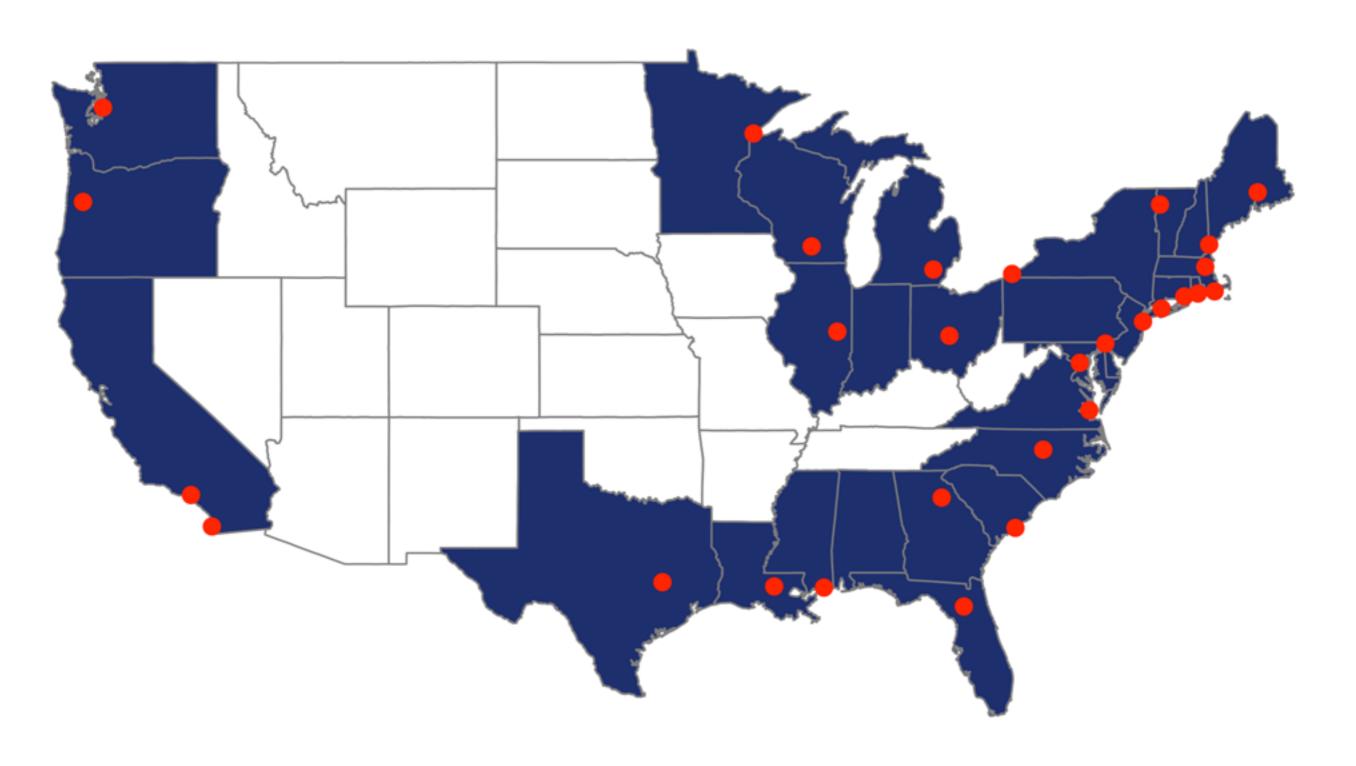
TexasSeaGrant.org

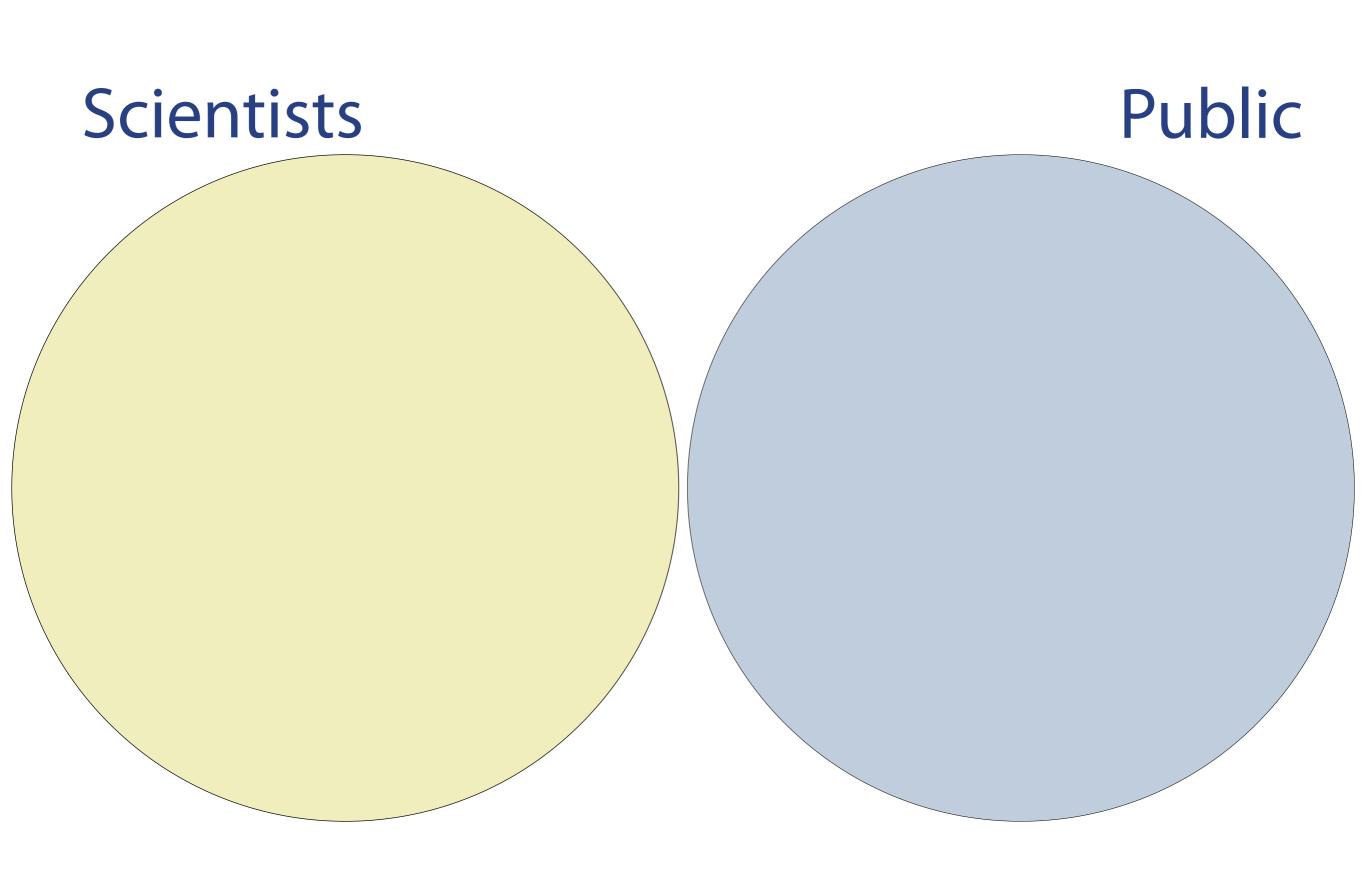
#### Background

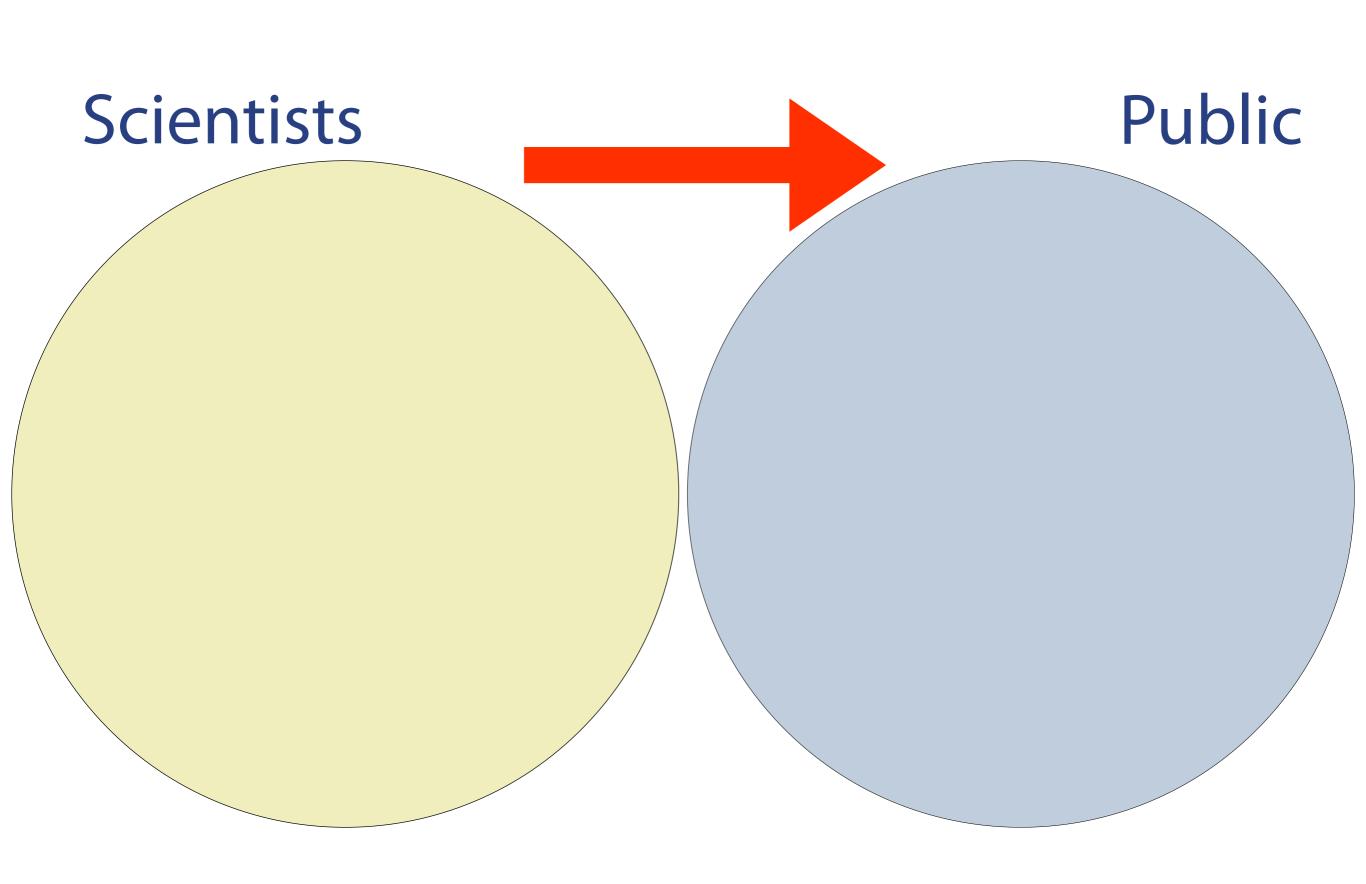
#### **Sea Grant states**

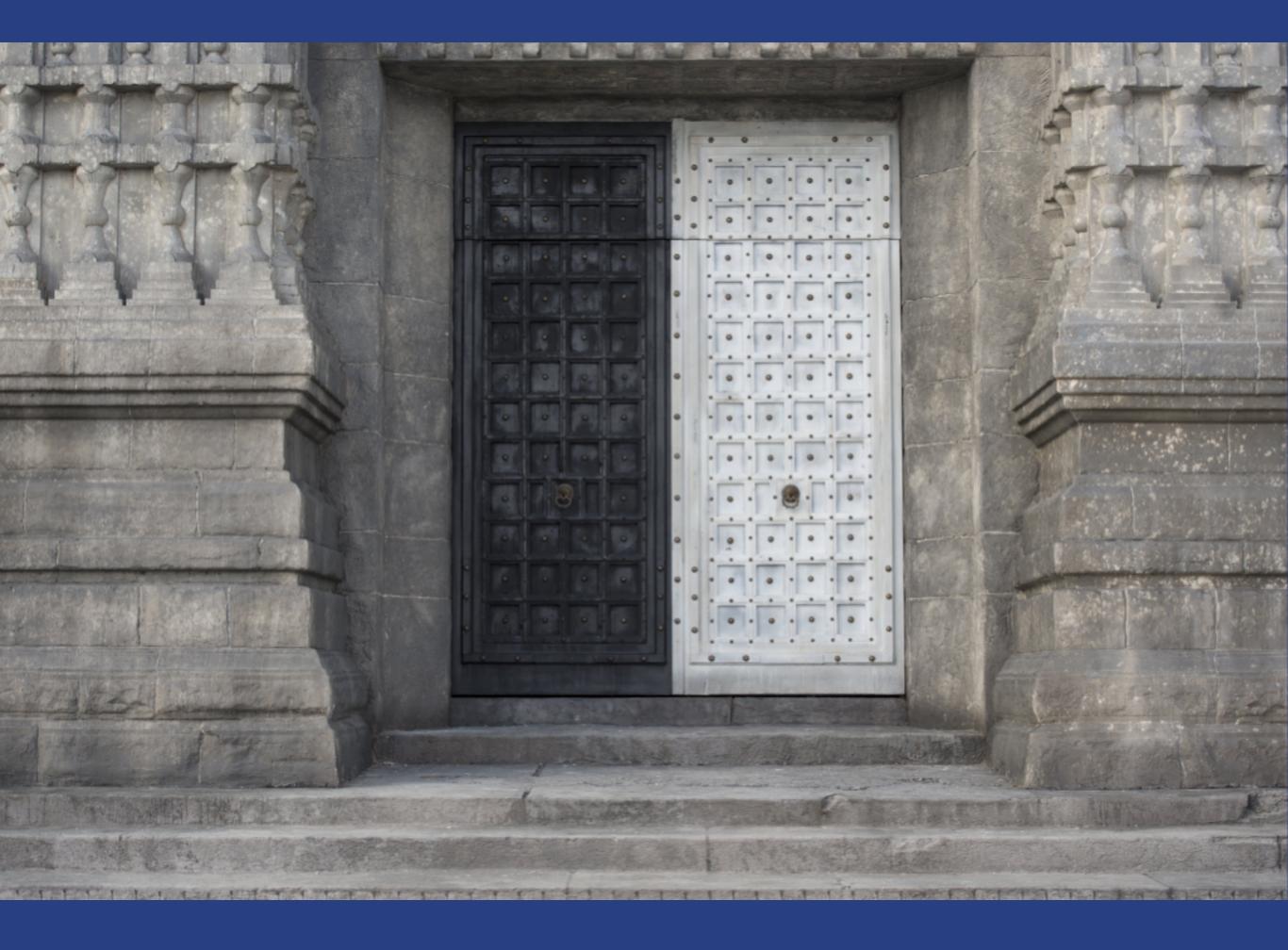


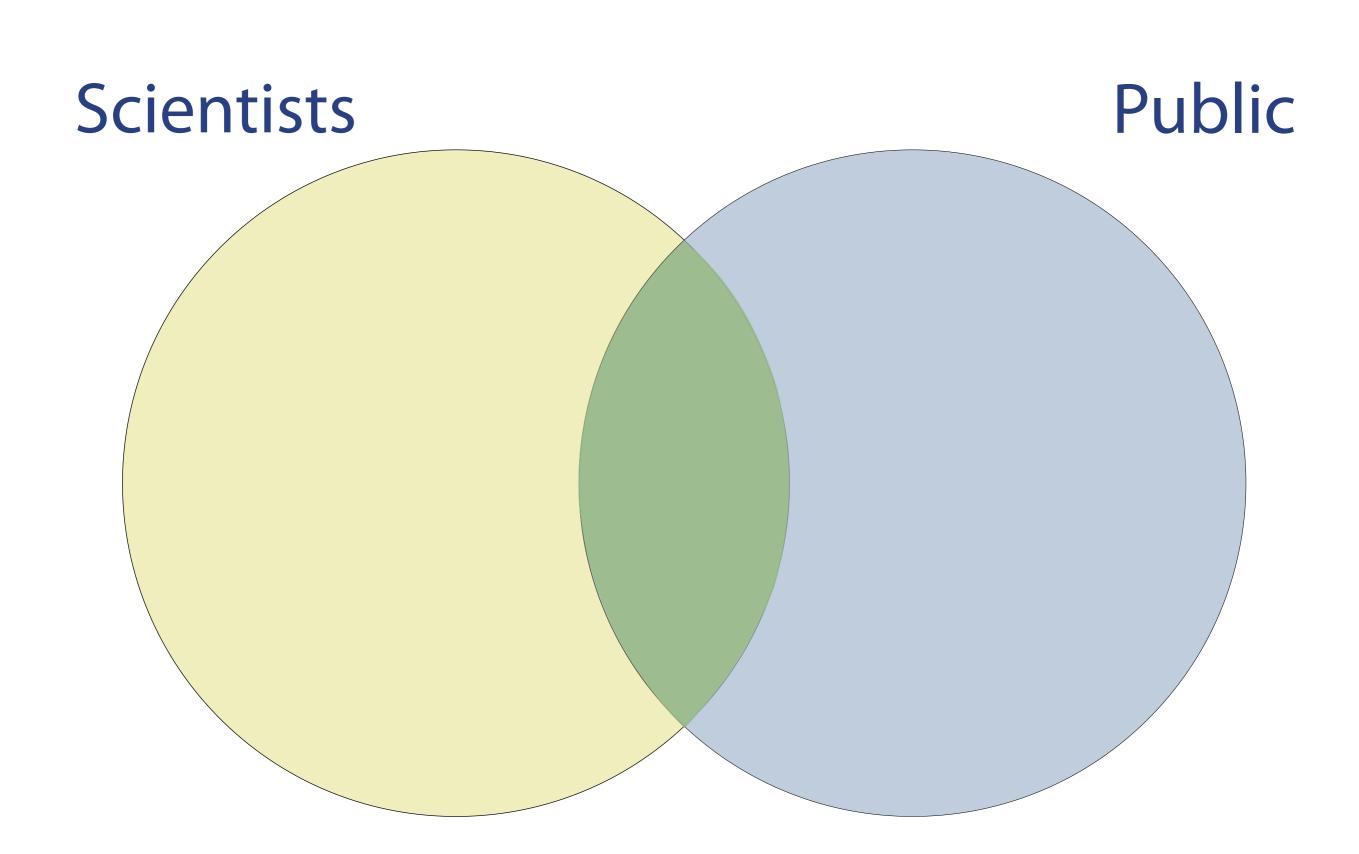
#### **Sea Grant main office locations**



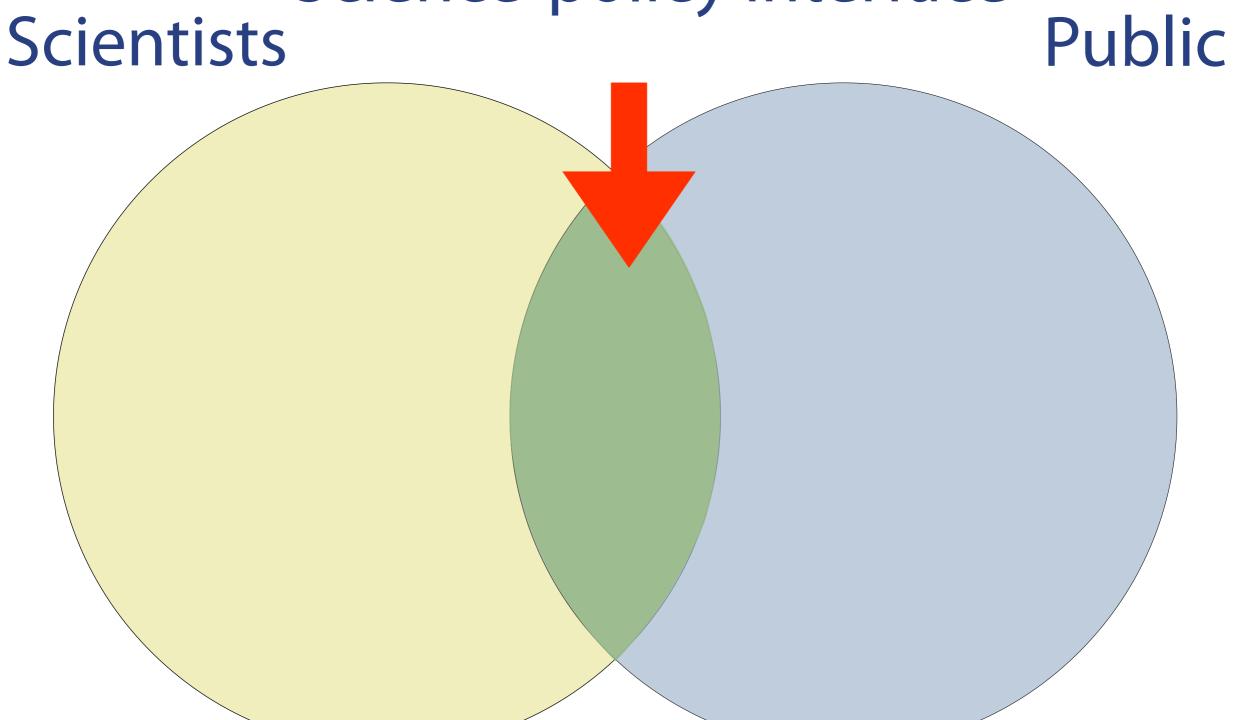


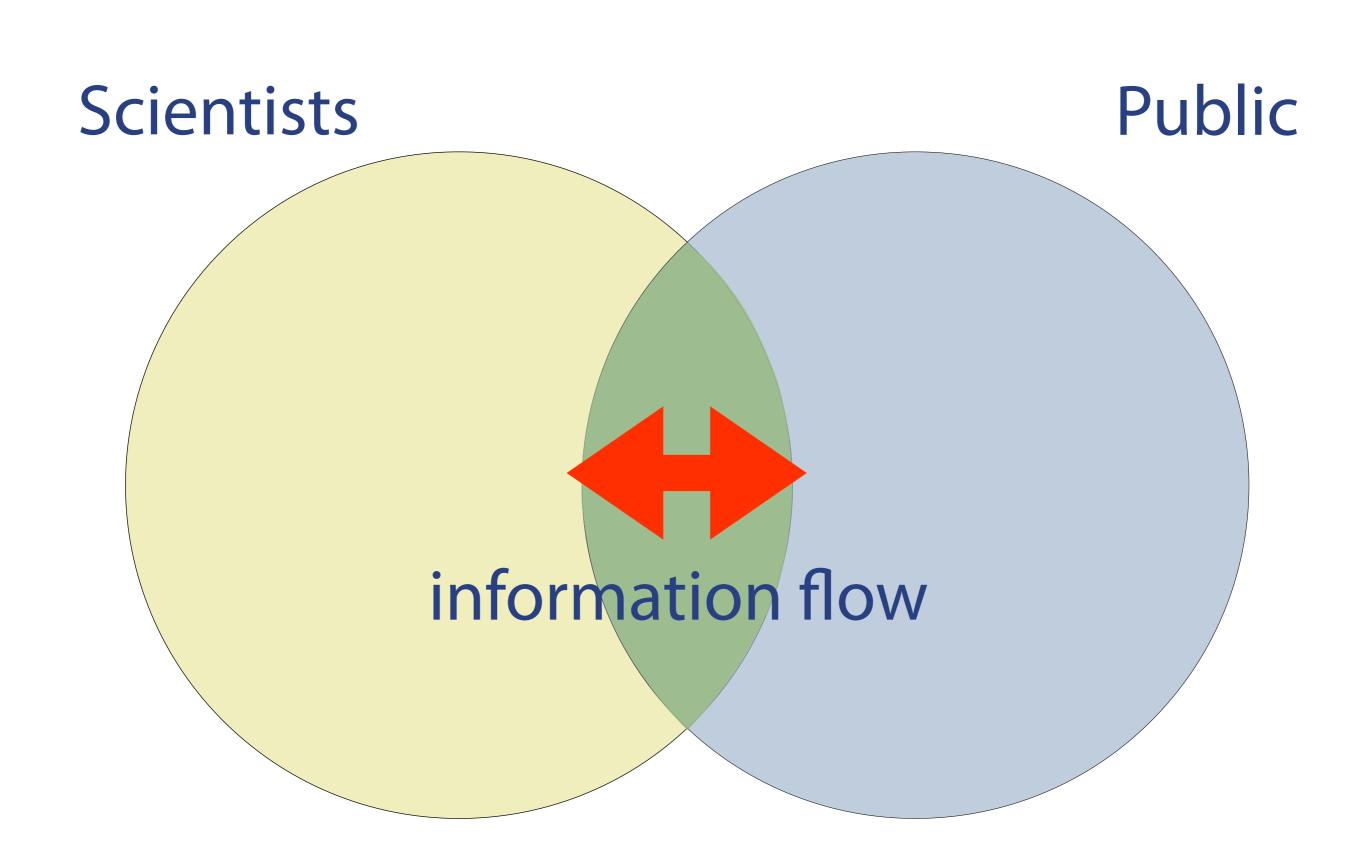






Science-policy interface







**Boundary organizations** provide a bridge for and broker knowledge between the production side (universities, research institutes) and the use side (stakeholders, decision makers).

- Kirchoff, Lemos, and Dessai 2013

How can social science help navigate this boundary?





#### Methods

## Delphi panel: systematically eliciting expert consensus

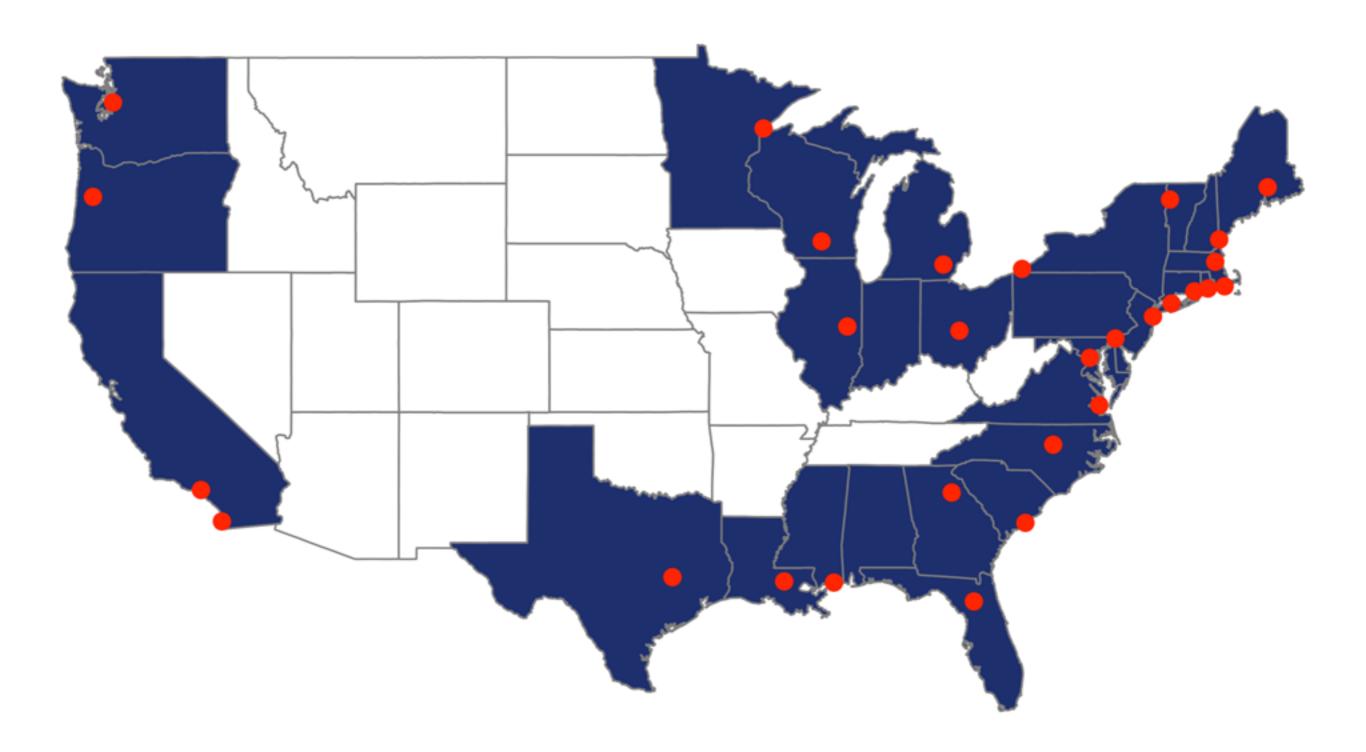


## Delphi panel: systematically eliciting expert consensus



#### (Reporting on round 1 today)

Photo: Ronny Siegel



#### Delphi panel round 1



Surveyed directors & 1–3 staff at each program



62% response rate

#### Delphi panel round 1



Inductive coding of openended responses



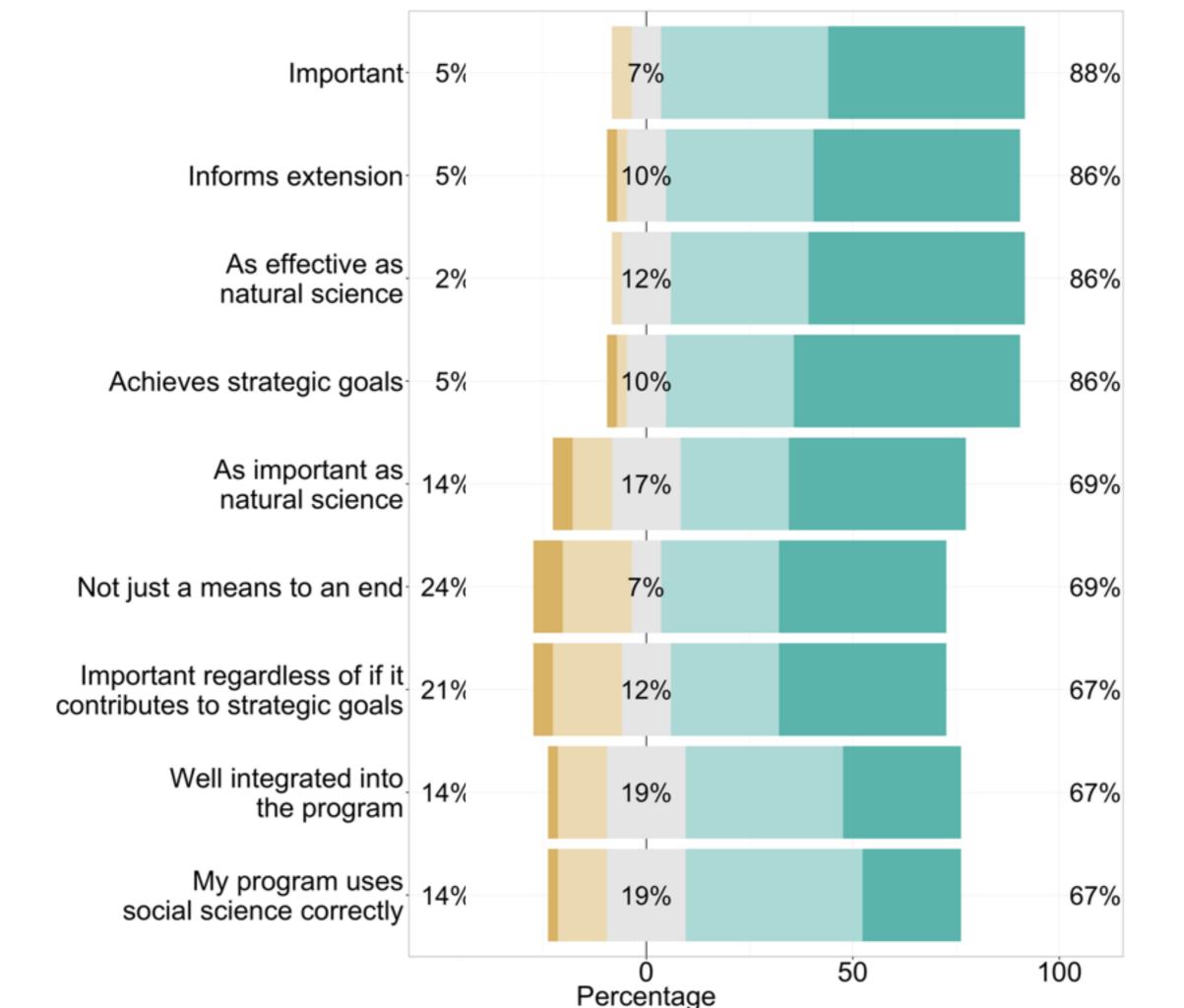
3 topics to discuss today

## 1. What are attitudes toward social science at Sea Grant?

## 2. What is a successful social science project at Sea Grant?

### 3. What factors promote or hinder successful social science at Sea Grant?

## 1. What are attitudes toward social science at Sea Grant?



## 2. What is a successful social science project at Sea Grant?

knowledge groups adaptation something people andor improve data target

know communities good
make behavior allows
projects define change able valuable
defined rocalite defined resultScoastal address needed used useful findings efforts better issue findings resource information result produces understand marine management community important needs practices sustainable

defined results

behavior allows change usecan goals useful efforts better issue findings resource information result produces

adaptation something people andor Improve datatarget communities mpacts projects define informpublic defined coaștal n goals used efforts erissue result understand management

adaptation something people andor improve datatarget communities impacts projects define informpublic defined coaștal can goals used efforts erissue result understand marine management

#### Applied (41%)

Behaviors & behavior change (27%)

Helps stakeholders make decisions (24%)

Improves understanding, generally (24%)

Success defined on own merits (22%)

Success only defined in terms of application (22%)

High quality, rigorous research (19%)

Extension/outreach explicitly integrated (19%)

What is successful Sea Grant social science?

## 3a. What factors promote successful social science at Sea Grant?

understand value focus dont use access partners group also Conductworking scientists work people **projects**conducting dévelopinput resources understanding

group also Conductworking andor funding time strong local Staff support extension can sure

community conductworking scientists work people

understand value focus dont use access partners community working group also andor trained capacity tools needs strong local natural extension can sure work people projectsconducting developinput resources understanding

understand value focus dont use access partners community working group also andor trained capacity tools needs strong local natural extension can sure work people projectsconducting developinput resources understanding

Adequate funding (35%)

Expertise available (32%)

Stakeholder partnerships (26%)

Leadership buy-in (24%)

Good project design & response (21%)

Addresses relevant questions (21%)

What factors lead to successful social science at Sea Grant?

# 3b. What are some barriers that hinder social science at Sea Grant?

questions opposite capacity sciences take work projects etc fear conductsupport effective including process understanding

capacity sciences take work projects staff funding value survey can many conductsupport

questions opposite capacity sciences focus agencies dont data etc fear many effective including process understanding

questions opposite \_\_\_\_. capacity sciences focus agencies dont data etc fear conductSUP effective including process understanding

Lack of funding (40%)

Lack of staff or time (37%)

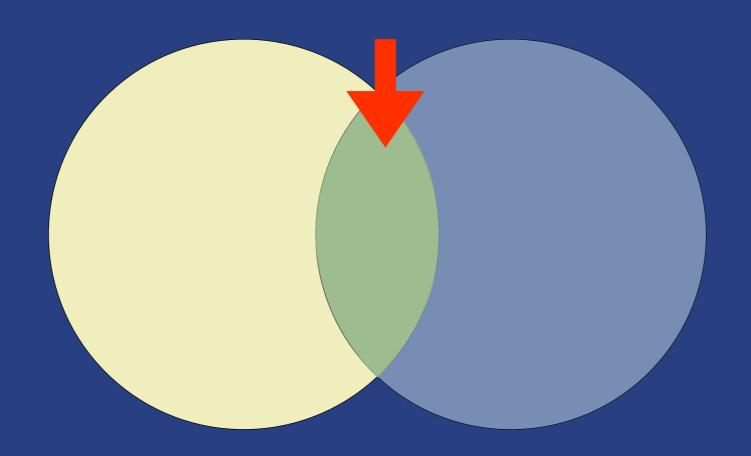
Social science not respected (27%)

Poor project design (23%)

►IRB/Bureaucracy (20%)

What are barriers to successful social <a href="mailto:science">science</a> at Sea Grant?

# Conclusions: What does this mean for social science research at boundary organizations?



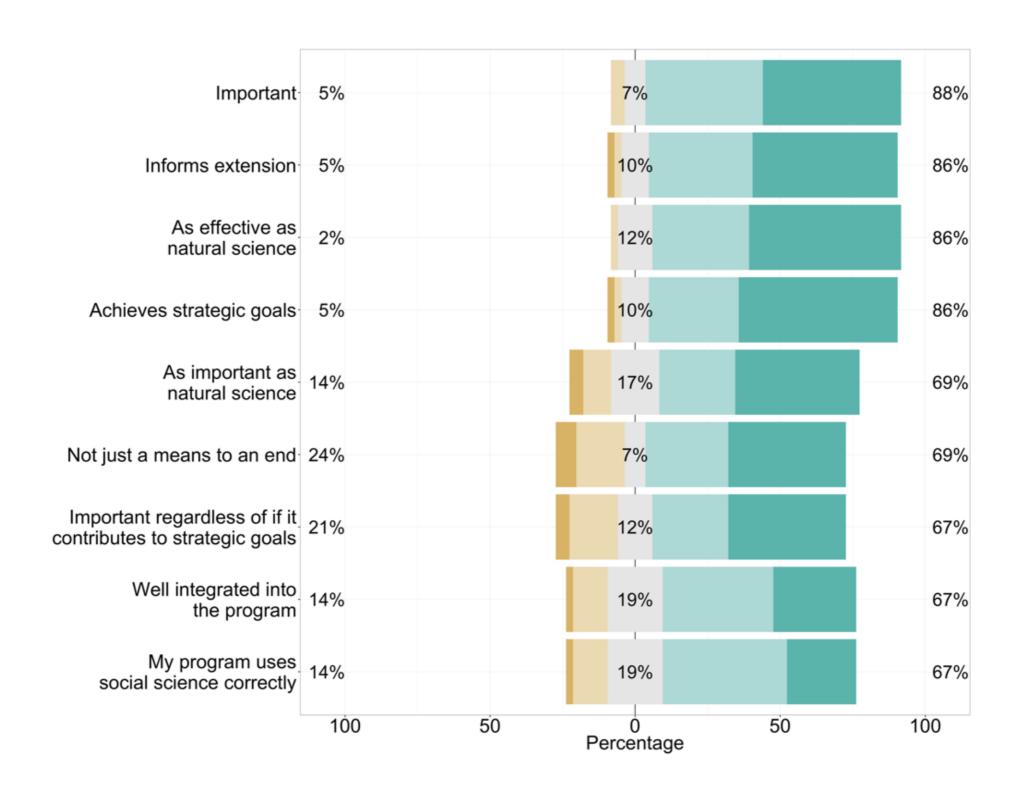
# We aren't the Oracle: applied, partnerdriven research is important



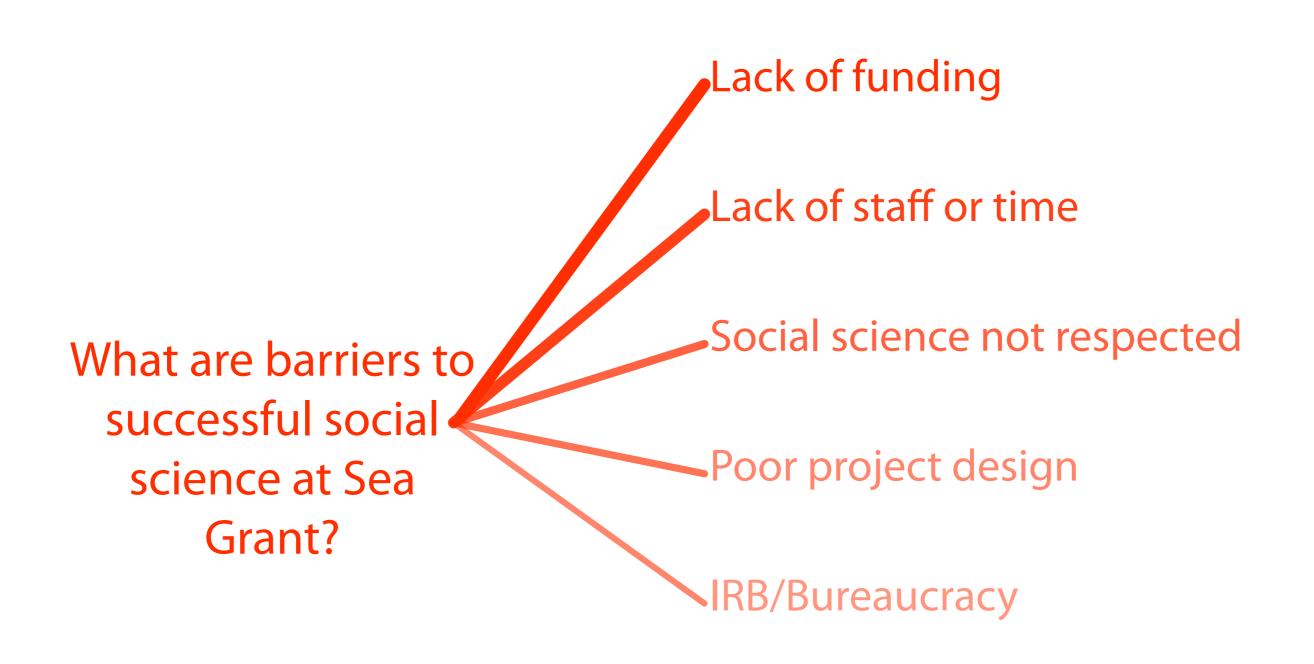
#### (We aren't Socrates, either)



#### Favorable attitudes vs. lack of buy-in



### Favorable attitudes vs. lack of buy-in



## 2 stakeholder groups





