



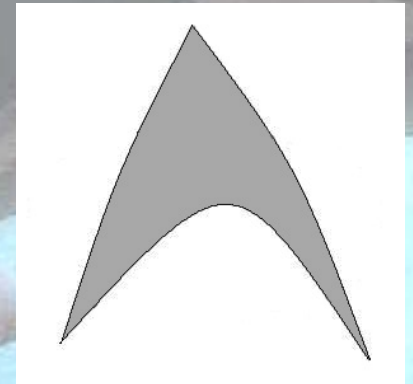
Visioning Our Desired New England Aquatic Environments

"It's too late to be a
pessimist"

NEAEB NEXUS

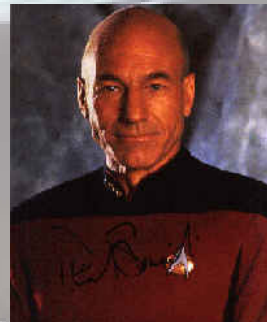
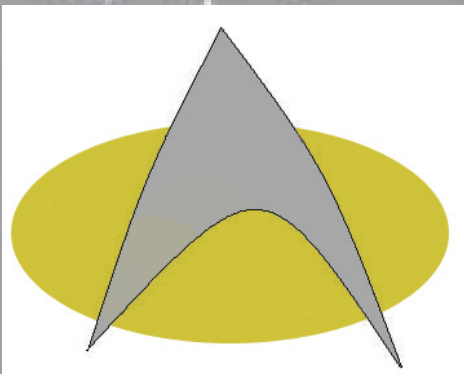
Legacy Staff

- Pioneered aquatic resource the management
- On the job when the Clean Water & Clean Air Acts came into being
- Retirements imminent

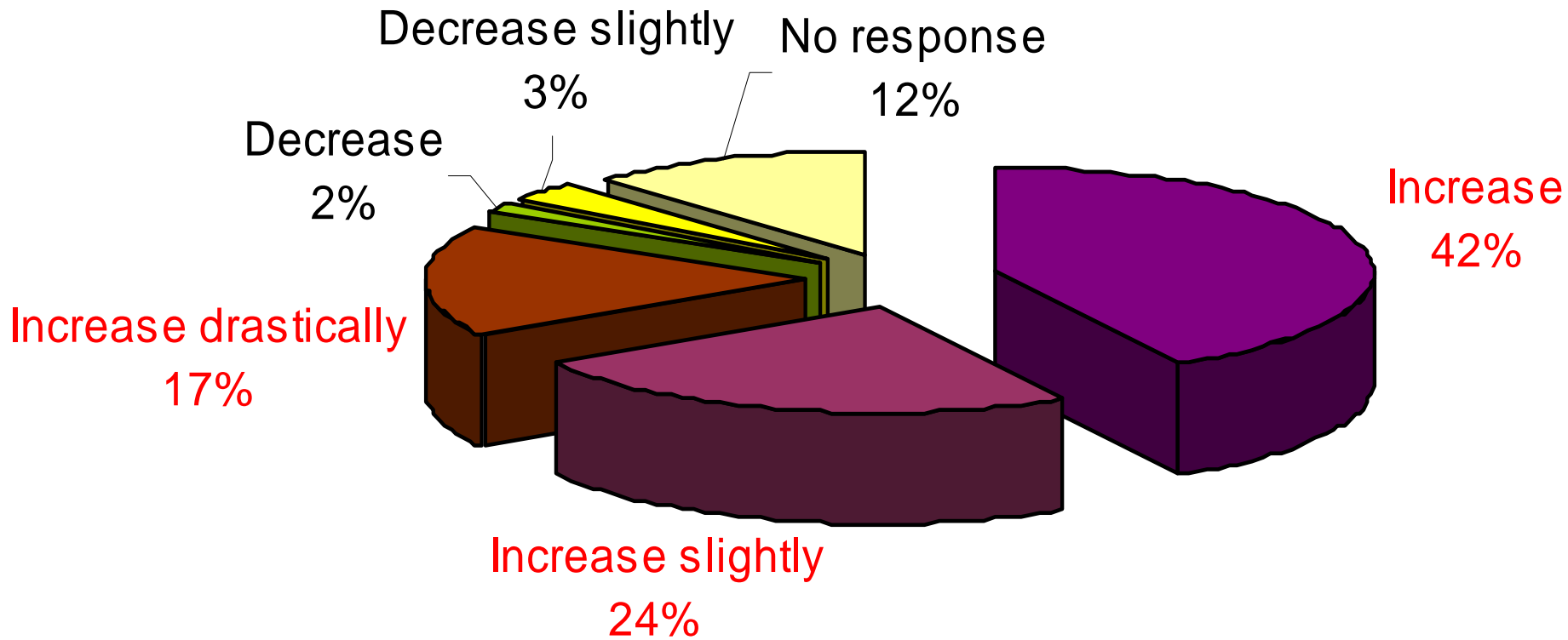


Next Generation Staff

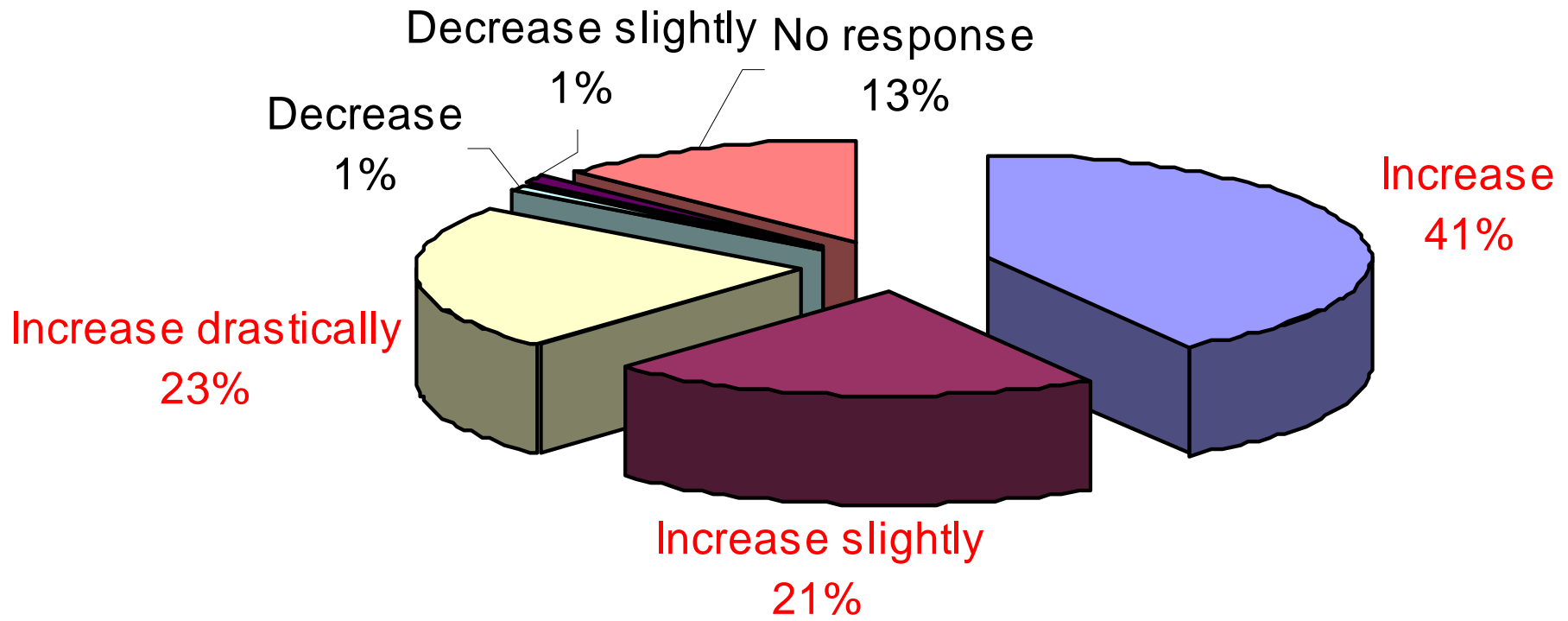
- Trained in developed environmental academic programs
- Old threats still to manage



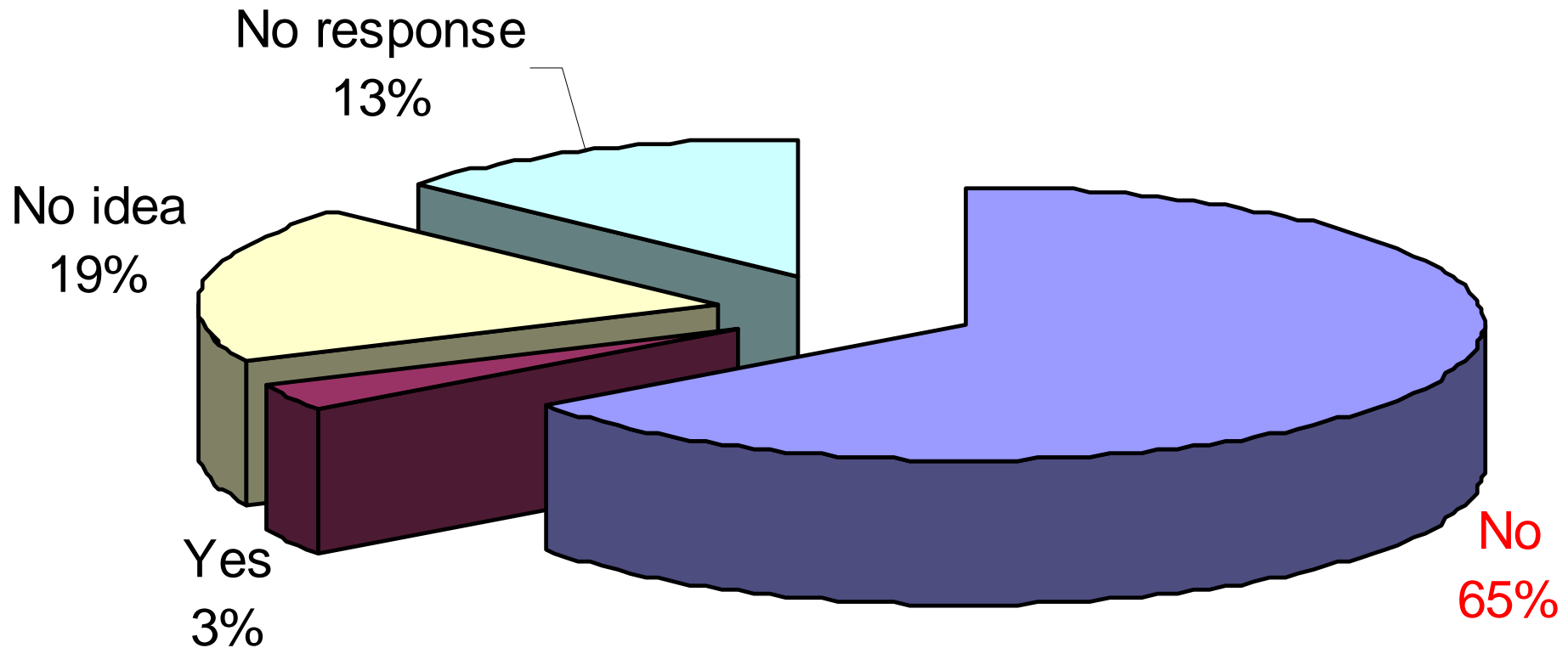
of threats to New England aquatic systems in next decades will



Complexity of threats to New England aquatic systems in next decades will



Current management strategies adequate?



What's the Next Generation Staff to do?

What's the Next Generation Staff to do?



MIND MELD

Doesn't Anybody Just Talk Anymore?

A.K.A. NEAEB NEXUS CAFÉ

Basic World Views*

Technological Optimism

- Resources are unlimited
- Technological progress can deal with any challenge
- Competition promotes progress: markets are the guiding principle

Technological Skepticism

- Resources are limited
- Real progress depends less on technology and more on social and community development
- Cooperation promotes progress: Markets are servants of larger goals

*Costanza, R. 2000. Visions of alternative (unpredictable) futures and their use in policy analysis. *Conservation Ecology* 4(1): 5

Technological Optimism Management Example

- Clean water is unlimited
- We can discharge our wastes and fecal material into it
- Technology will find ways to remove nutrients, caffeine, pharmaceuticals, e coli, etc
- No need to change our behavior of defecating into water & flushing it away
- The free market meets our demands for cleansers to keep our toilets clean with automatic cleansers

Policy & Management

Real State of the World

Optimists
Right

Skeptics
Right

Technological
Optimist

Star Trek

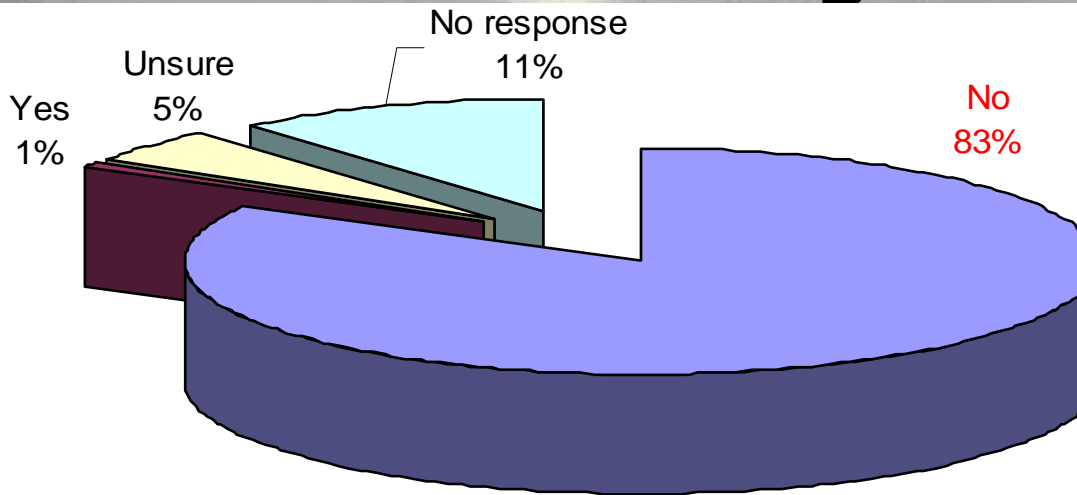
Mad Max

Technological
Skeptic

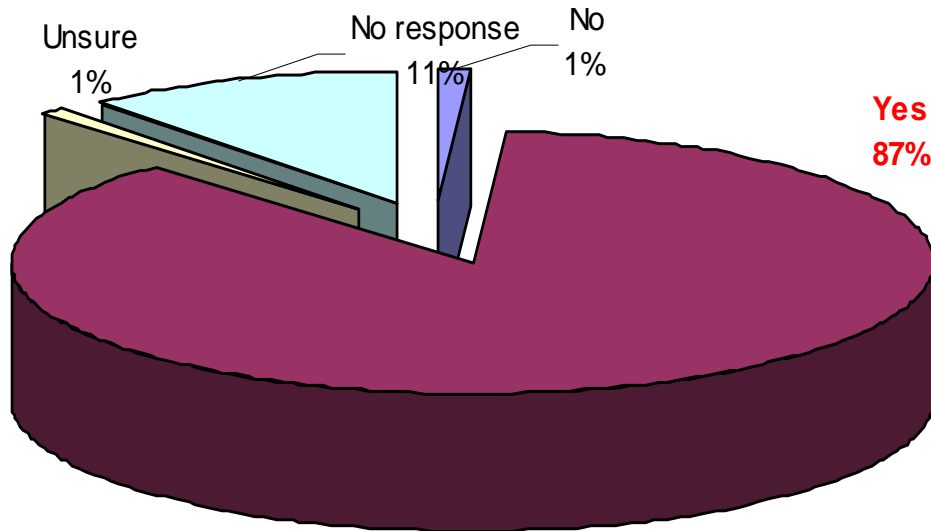
Big
Government

Ecotopia

NEAEB participants are Technological Skeptics



Do you agree with the statement "technological progress will solve or fix all of our future aquatic resource challenges"?



Do you agree with the statement "technological progress is limited and to deal with future aquatic resource challenges we must also employ social and behavioral change"?

Technological Skeptics Management Example

- **Clean water is a limited resource**
- **Disposing of wastes and fecal material in it is not sustainable**
- **Technology will help remove some, but not all pollutants**
- **Alternatives to disposing of waste in water are developed**
- **Separation of urine from fecal material requires a widespread change in behavior and adoption of new toilets that don't flush**
- **People will have to adopt behaviors that require self maintenance of wastes**

Policy & Management	Real State of the World		
		Optimists Right	Skeptics Right
	Technological Optimist	Star Trek	Mad Max
	Technological Skeptic	Big Government	Ecotopia

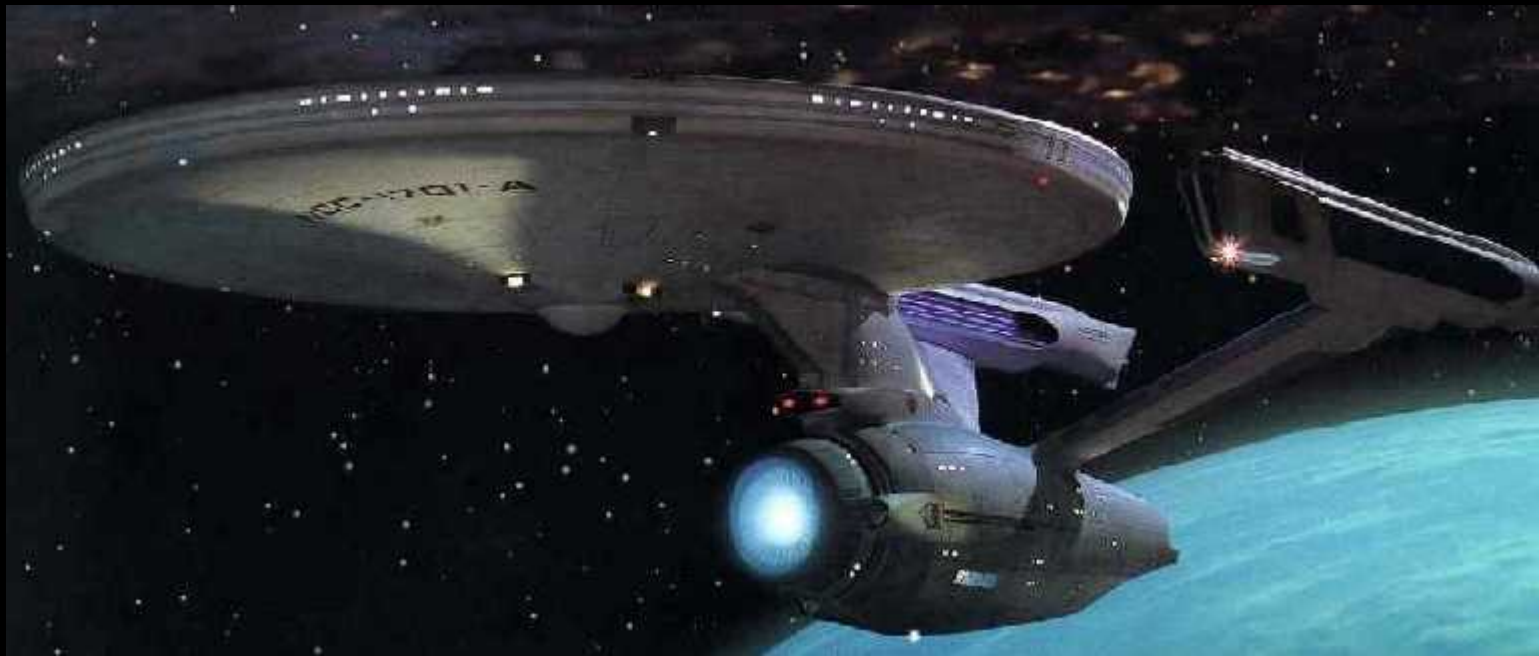
~~GOVERNMENT IS NOT THE SOLUTION TO OUR PROBLEM. GOVERNMENT IS THE PROBLEM.~~
 RONALD REAGAN



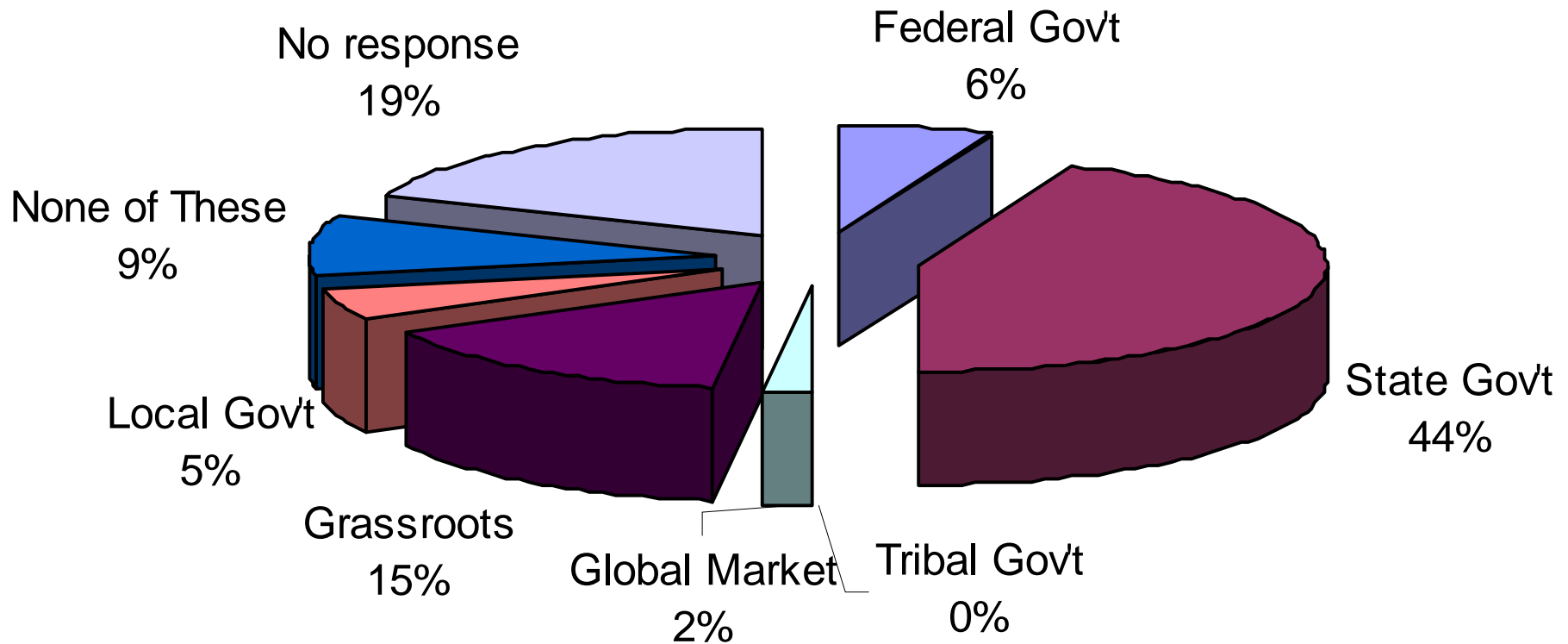
For Ecotopia to be realized

- Ecologists/biologists must understand *Homo sapiens*
- We must learn to convey science to the public & policy makers in a cultural context that invites changes in behavior
- Scientifically based laws and market controls

Can always shift to Star
Trek if technological
solutions arise



The most successful strategies for managing our aquatic ecosystems in future decades will come from?



NEAEB Nexus Café

- So, to start visioning, we break up into 19 topic tables next door

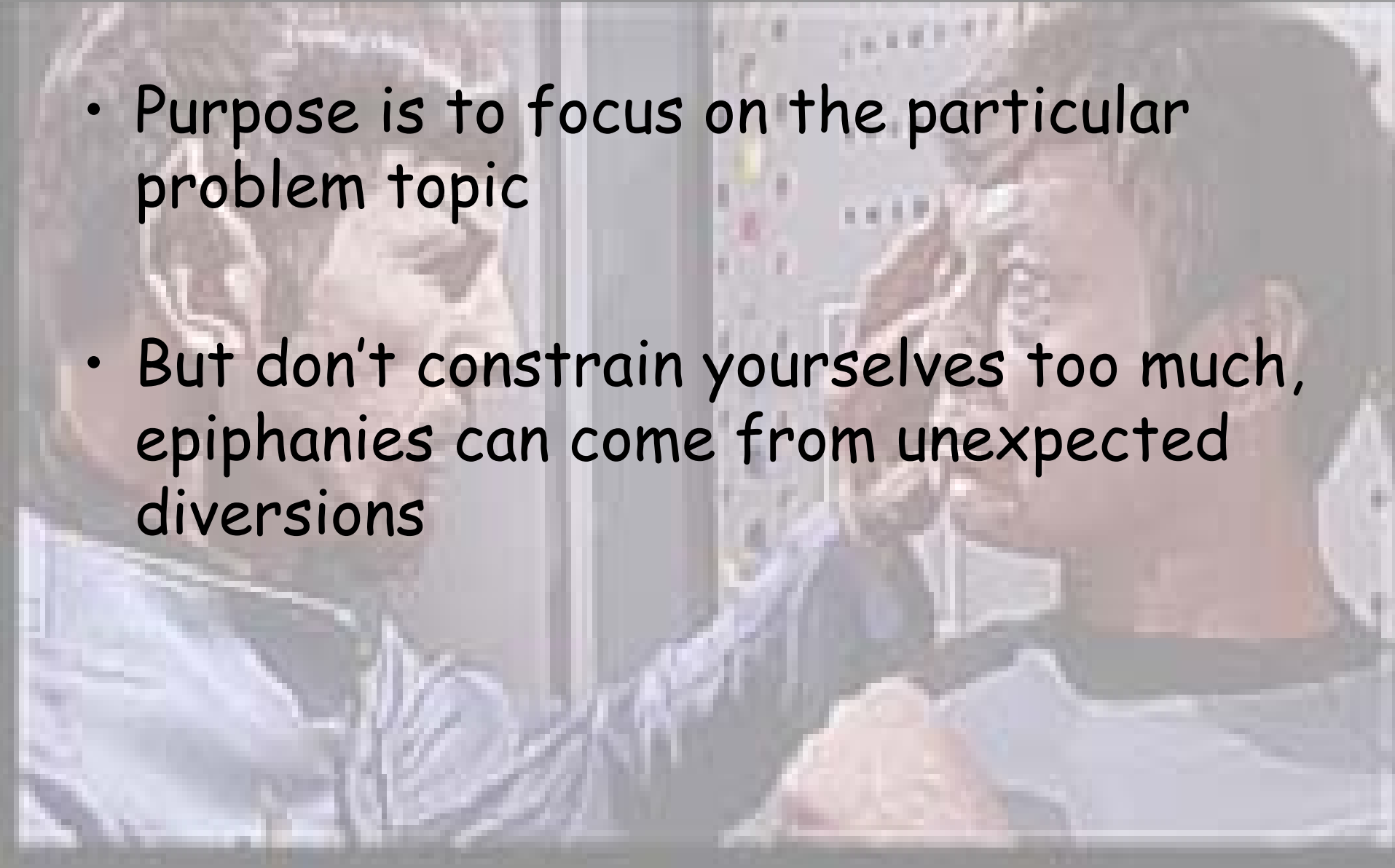


NEAEB Nexus Café

- When discussing your topic, as technological skeptics keep in mind
 - Technology can help, but not solve
 - To change behavior
 - Use laws
 - Use education
 - Make the market serve the greater good
 - Reward stewards
 - Penalize polluters/depleters

NEAEB Nexus Café

- Purpose is to focus on the particular problem topic
- But don't constrain yourselves too much, epiphanies can come from unexpected diversions



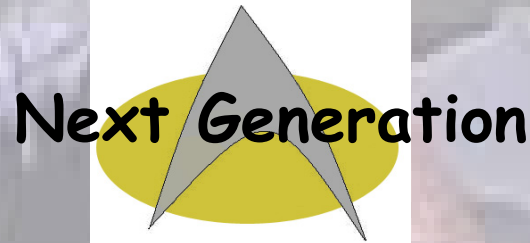
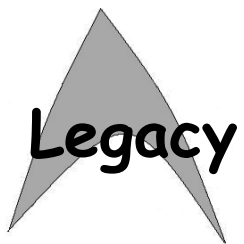
NEAEB Nexus Café

- The Café is next door in the same room as the poster session
- Help yourselves to refreshments when you come in and find a seat at a table



NEAEB Nexus Café

- Moderators will be holding up table #s for their topic listed in your program (7-9 to a table)
- Each table must be a mix of legacy and next generation staff (your communicator symbol **either** gains you access or makes you move to another table) **2-4 legacy staff at a table**



NEAEB Nexus Café

- When you arrive at a table, sign in
- There are three 30 minute discussion rounds
- Five minutes before a round ends, a cow bell will ring

NEAEB Nexus Café



- Prior to the 3rd round, the bar will open and you will be able to redeem your drink coupon for beer or wine

NEAEB Nexus Café

- After the conference, moderators' summaries will be posted on the web
- If folks want to follow up with others at their tables, the topic table participants will also be posted on the web

NEAEB Nexus Café

- Legacy staff will impart their wisdom
- All will share their visions and understandings
- There are no expected action items or wrap up deliverables

NEAEB Nexus Café

The policy approaches dreamed up in this
Café will affect the future of aquatic
resource management in New England!

2,142 yrs

collective experience in this room

Is it too late to be a skeptic?

Find a seat at the Nexus Café

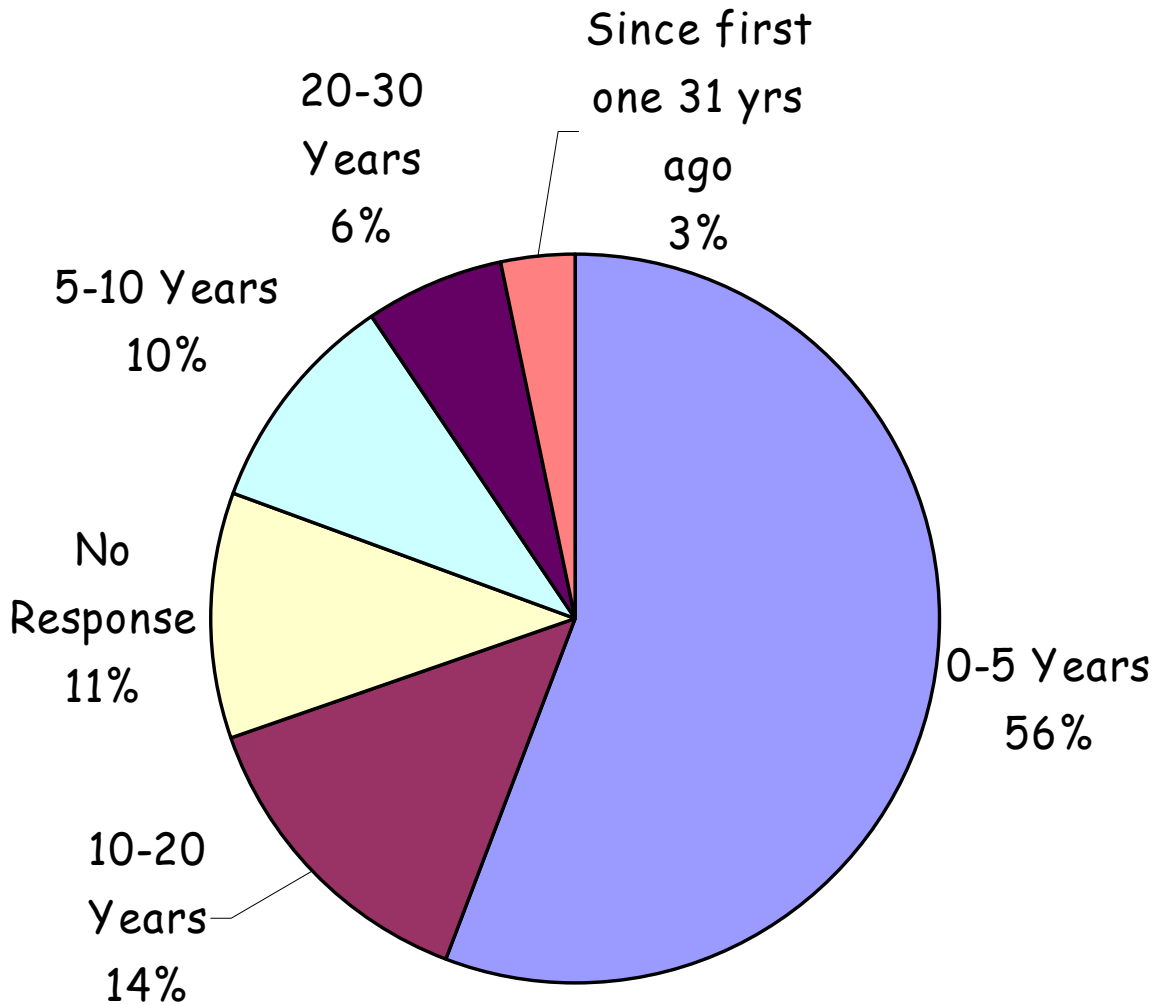
Desegregation at Café Tables Strictly Enforced!
(Legacy & Next Generation Mix)

"Resistance is Futile"

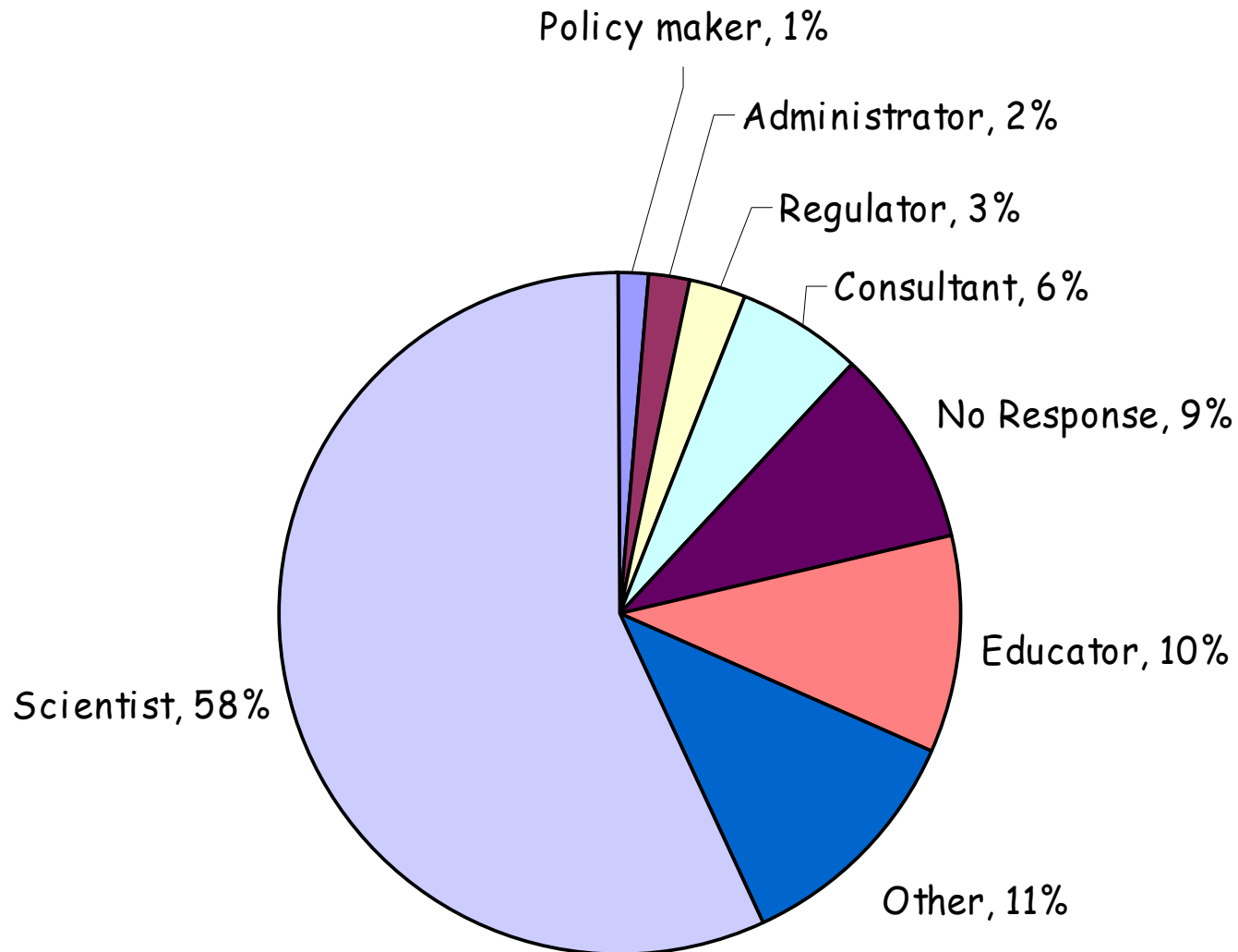


More results from registration survey

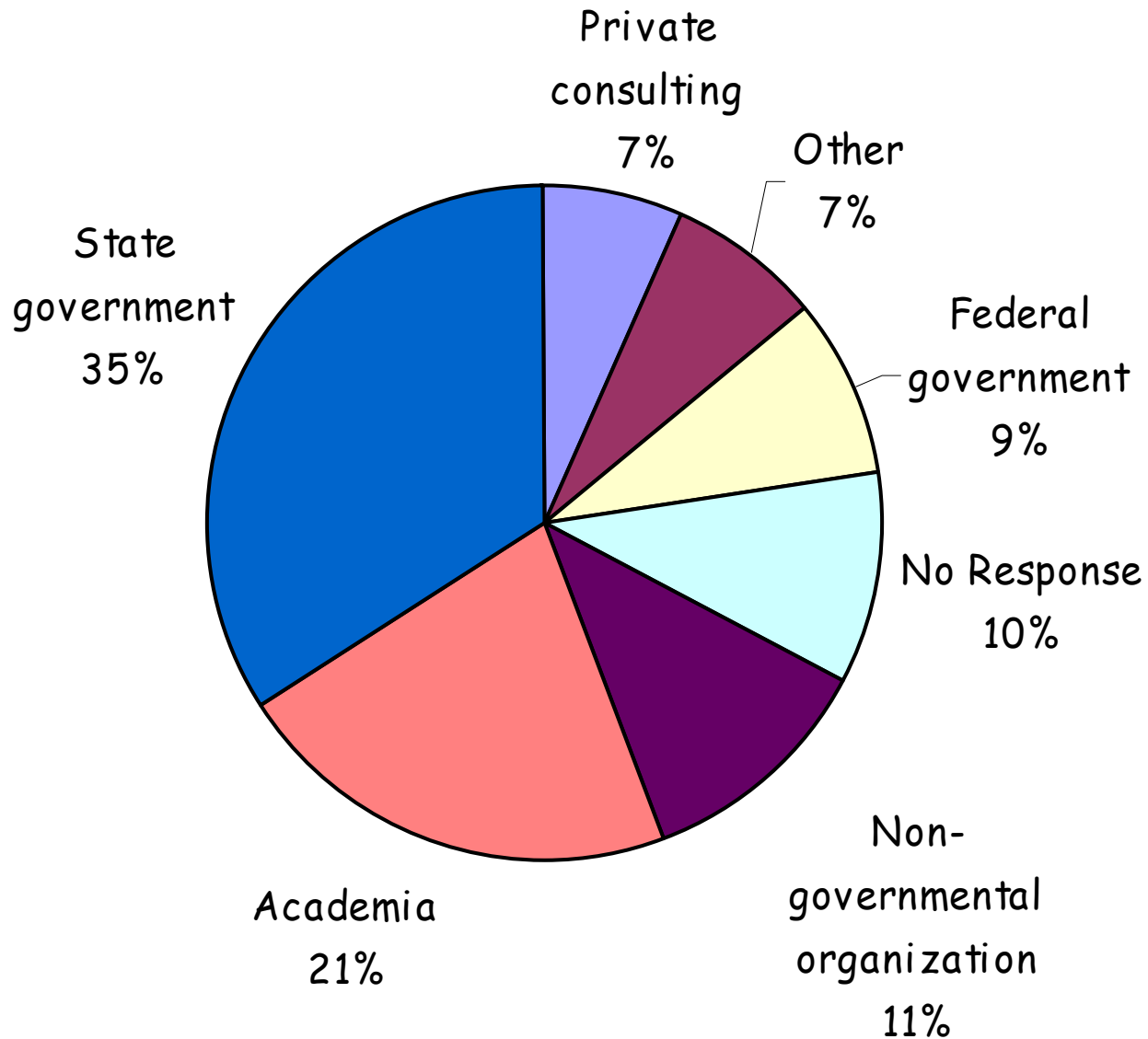
How long have been attending NEAEB meetings?



Which title best fits the bulk of your professional experience?



Where have you spent most of your tenure?



Do you think the most successful management strategies of New England's aquatic systems in the coming decades will come from...

