

# How do we Value Biodiversity...

## Let us Count the Ways

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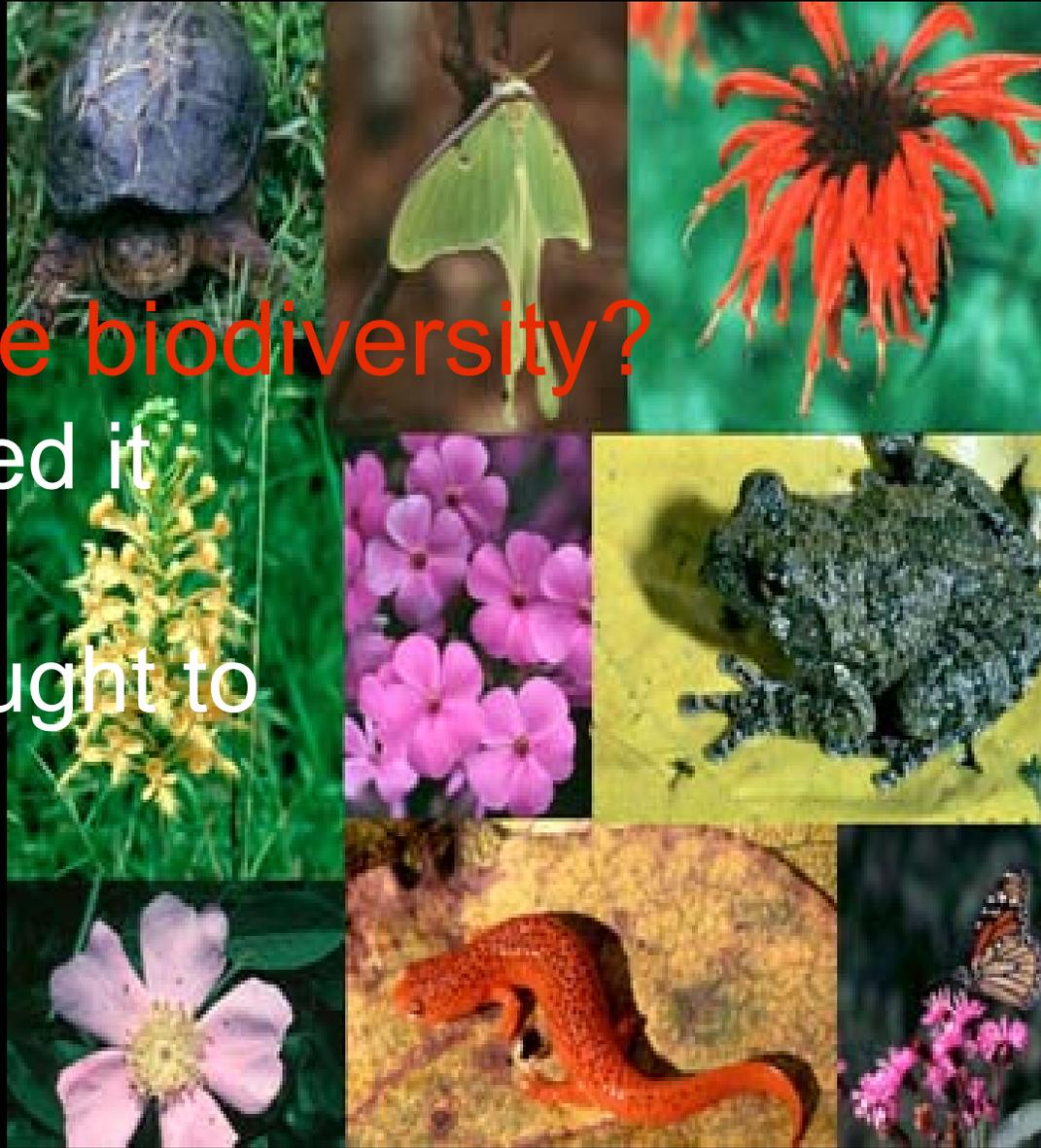
# Value (vælyoo)

1. The regard that something is held to deserve; the importance or preciousness of something
2. A person's principles or standards of behavior
3. The numerical amount, quantity, or number



# Why do we value biodiversity?

- We (might) need it
- We like it
- We think we ought to



# Usefulness

- Depends on claims of fact
- Scientific methods to measure “use” values



# Aesthetics and Moral Duty

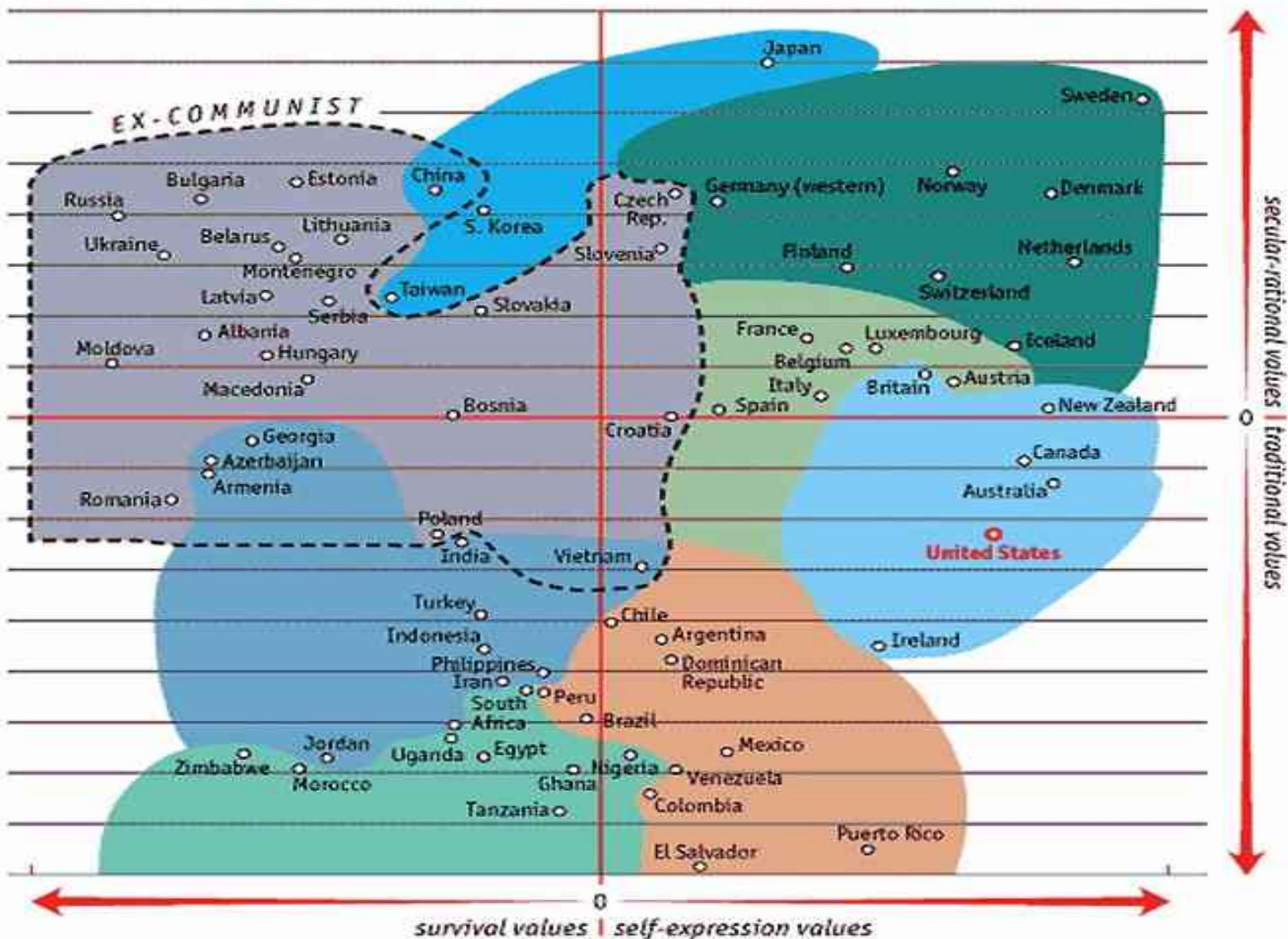
- Different world views
- Science not much help at all



# Social Values – Personal Values

- freedom of expression
- personal freedom
- the rights of the individual
- open debate
- thinking for oneself
- the accountability of public officials
- self reliance
- personal achievement
- hard work
- achieving success in life
- helping others
- fulfilling obligations to others

■ Confucian   
 ■ Protestant Europe   
 ■ Central/eastern Europe   
 ■ Asia   
 ■ Catholic Europe   
 ■ English-speaking   
 ■ Africa   
 ■ Latin America



Externally imposed  
restrictions on choice

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The Fatalist  
It doesn't matter ....

The Hierarchist  
Managing preferences...

Individual

Group

-

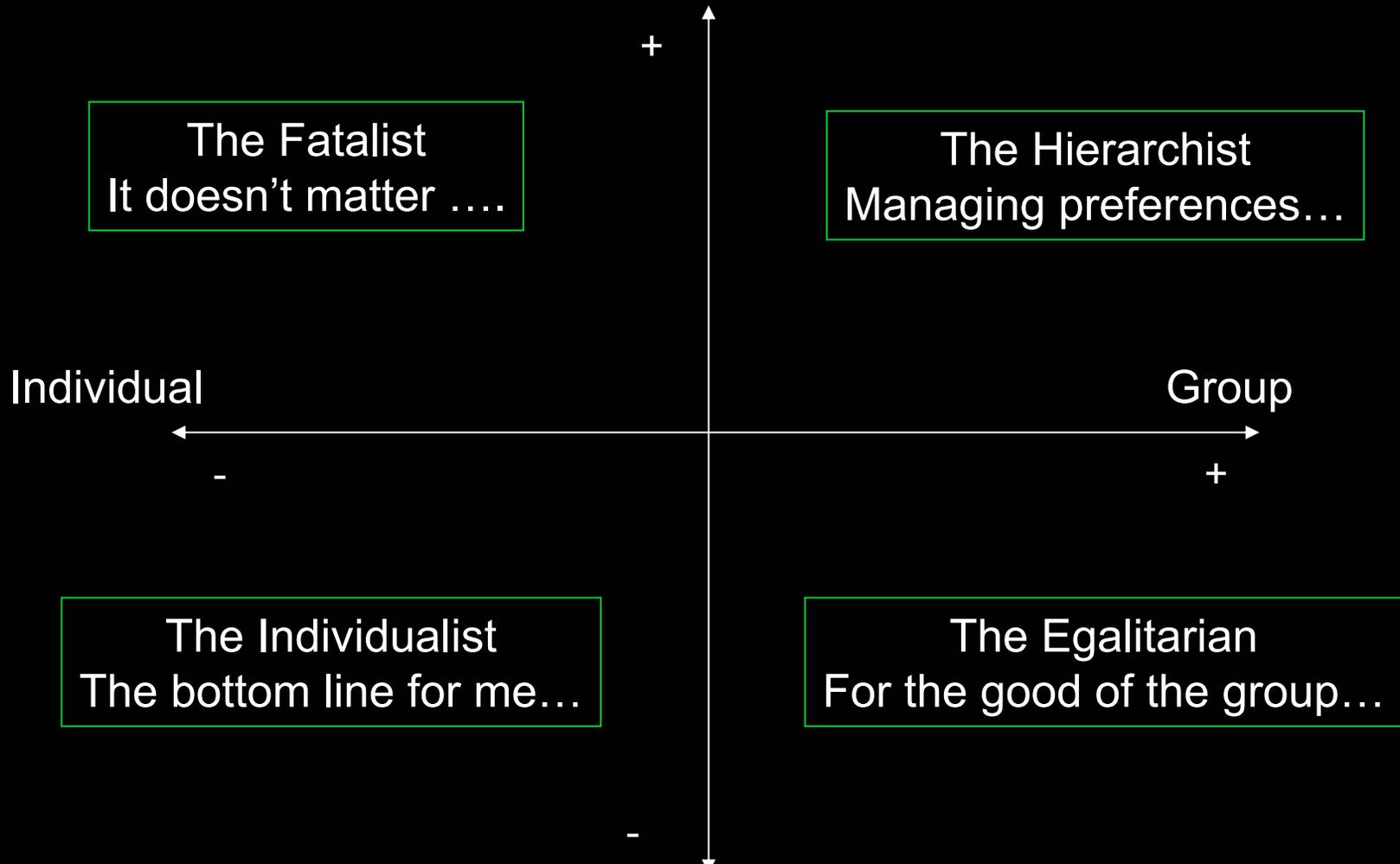
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The Individualist  
The bottom line for me...

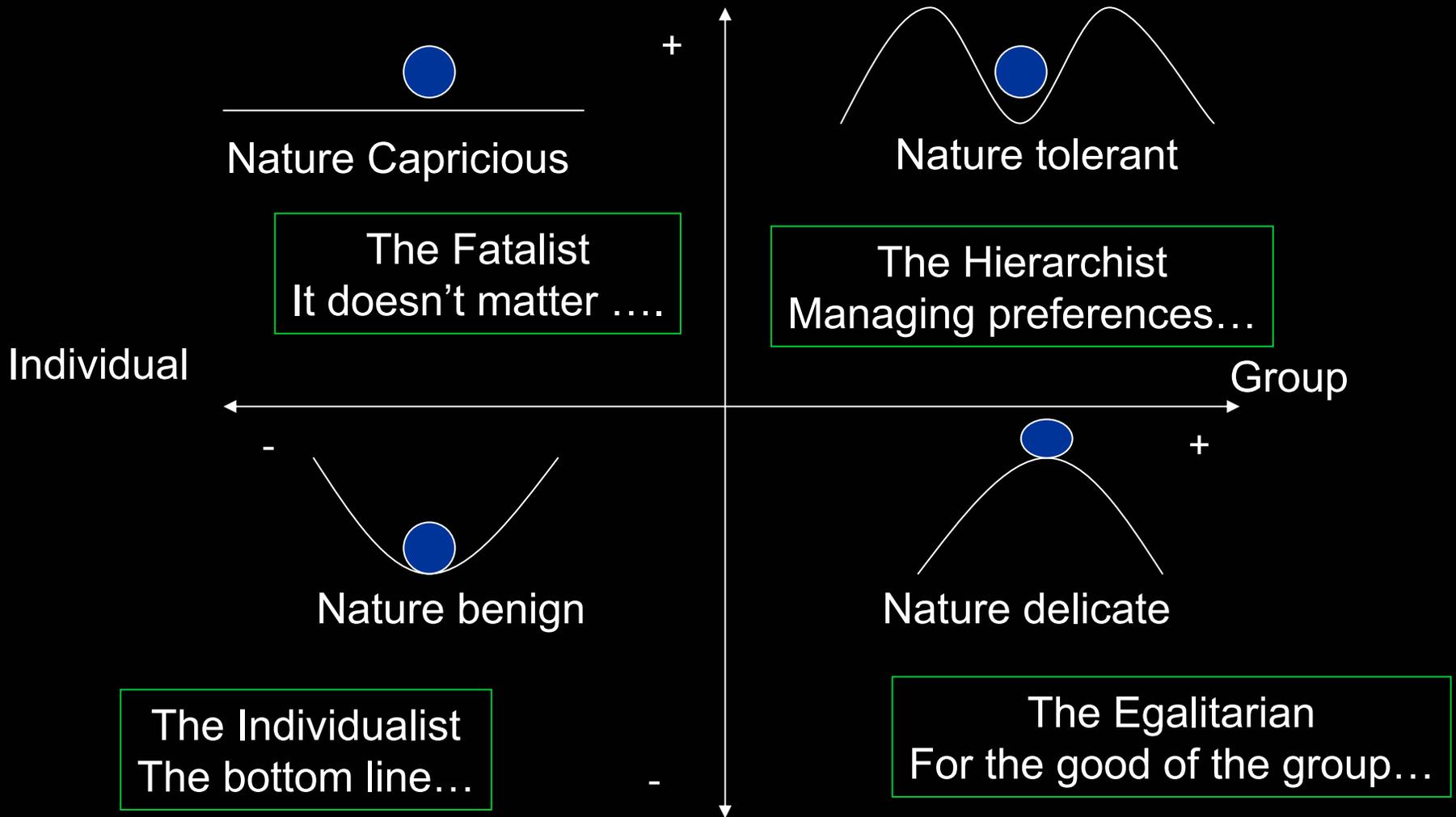
The Egalitarian  
For the good of the group...

-

No externally imposed  
restrictions on choice



Externally imposed  
restrictions on choice



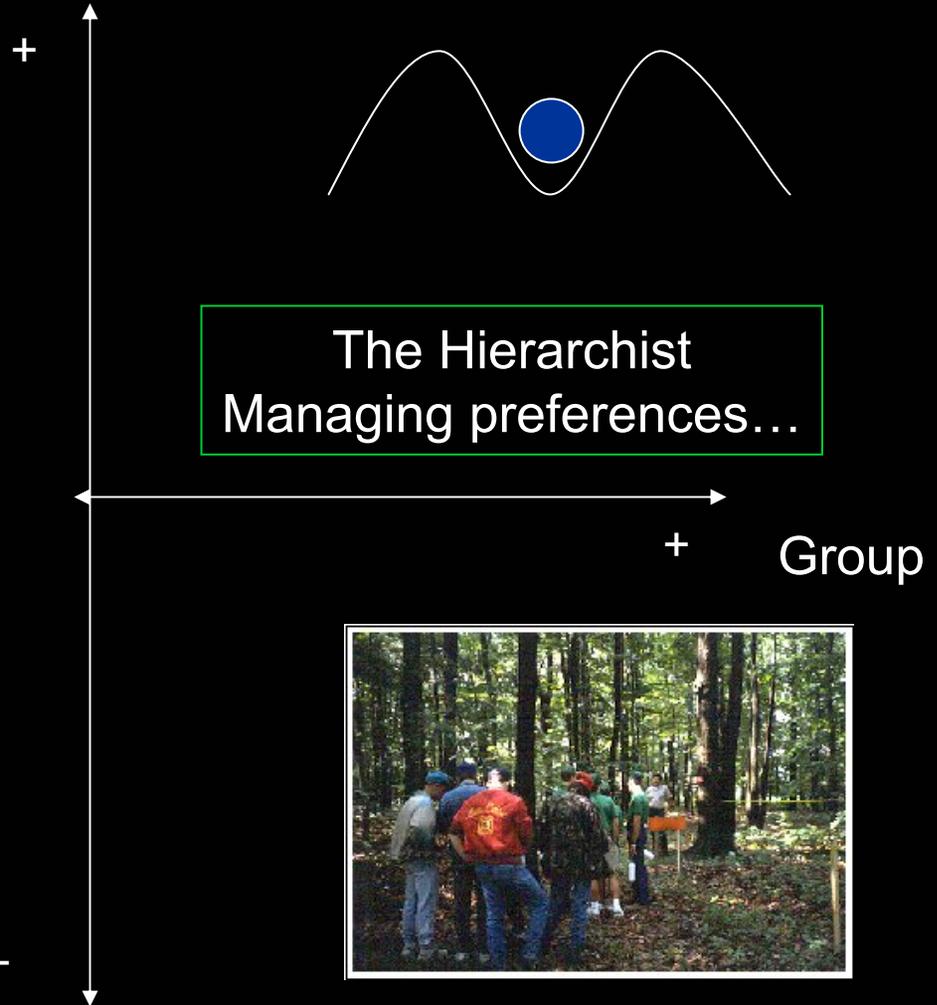
No externally imposed  
restrictions on choice

Externally imposed  
restrictions on choice

# Utilitarianism

Willingness to pay

Willingness to accept



No externally imposed  
restrictions on choice

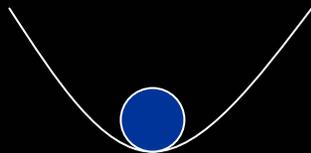


Externally imposed  
restrictions on choice

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**Libertarianism**  
Market-based values  
Pollution as an assault

Individual -



The Individualist  
The bottom line for me...

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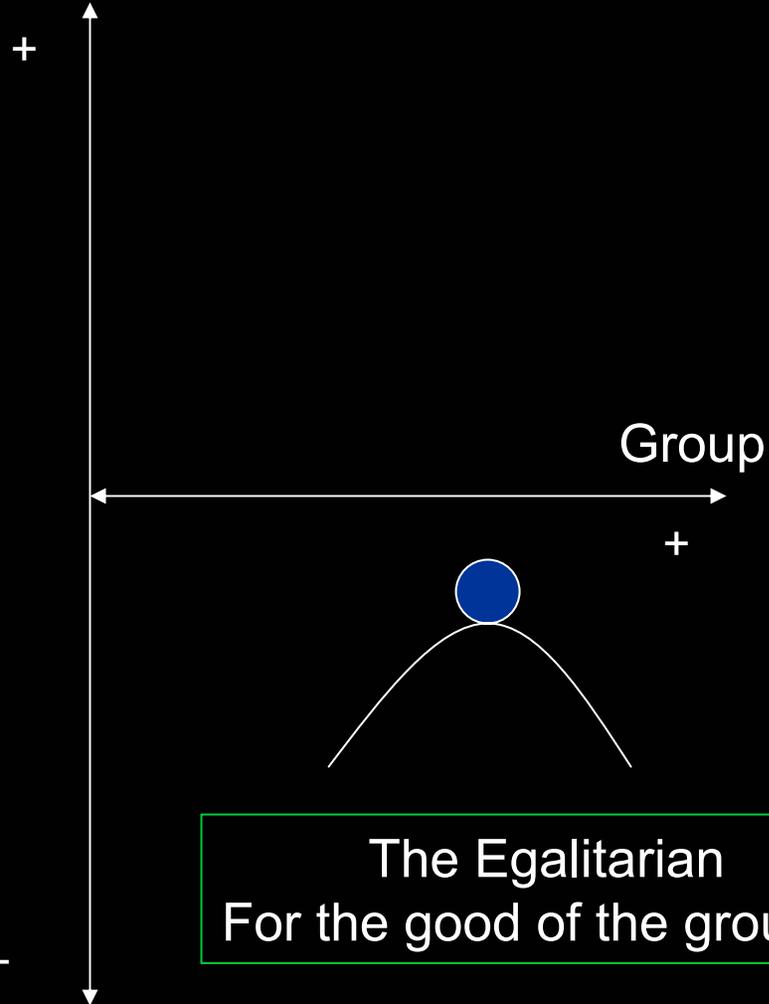
No externally imposed  
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# Egalitarianism

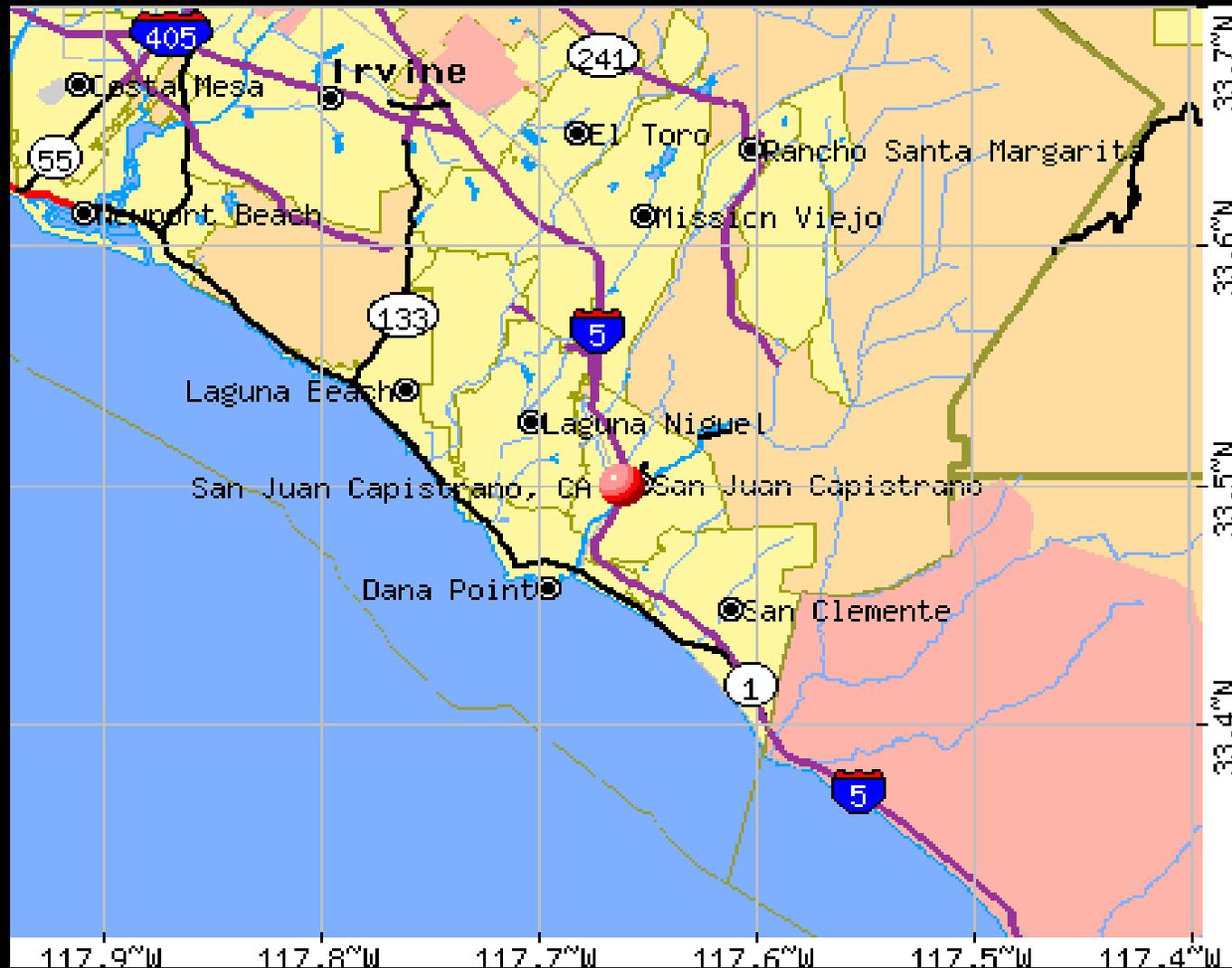
Environmental Justice

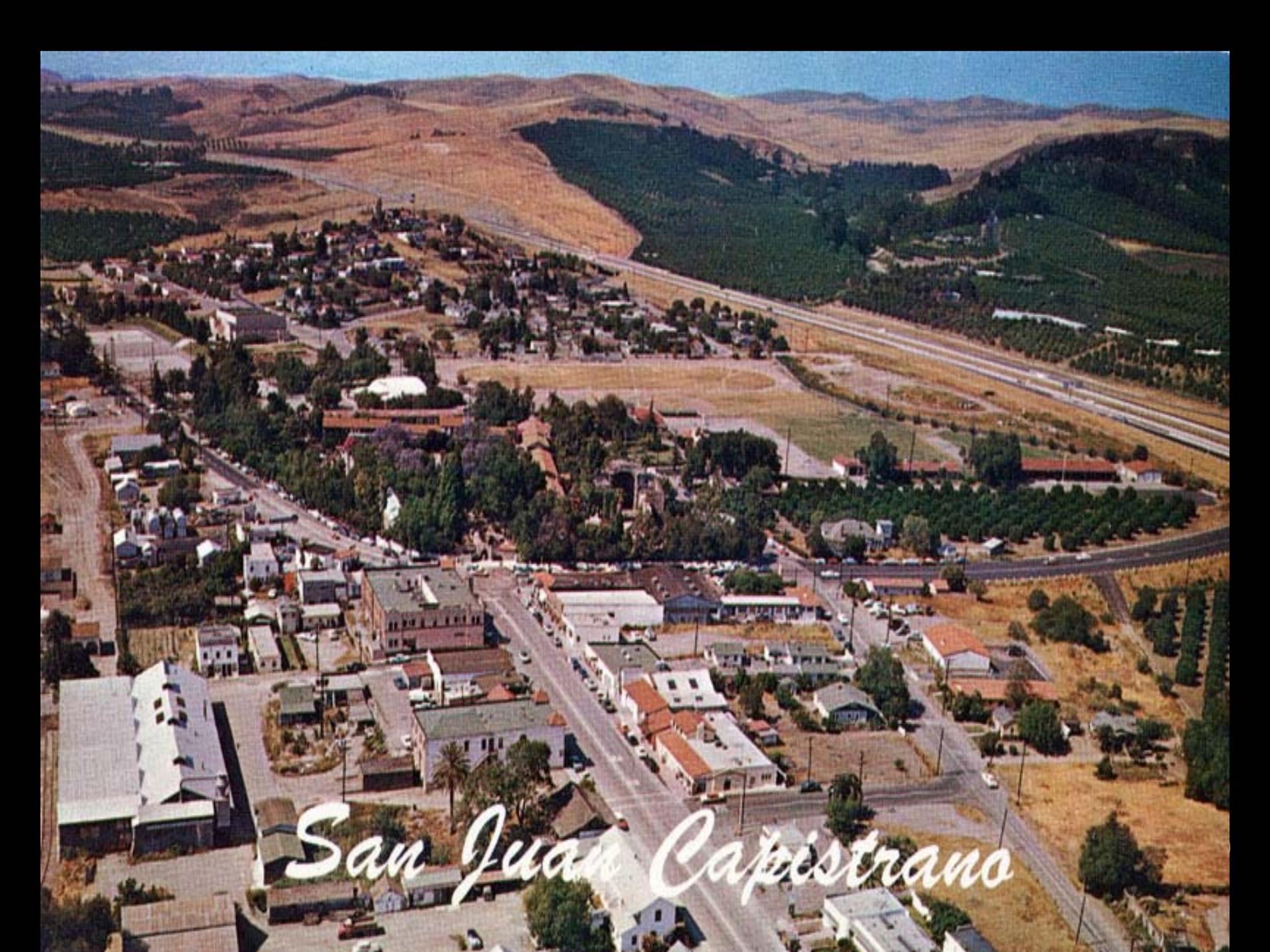
Deep ecology



No externally imposed  
restrictions on choice

# Water Crisis: San Juan Capistrano, California





*San Juan Capistrano*

# Clumsy Solution: Conservation Rates

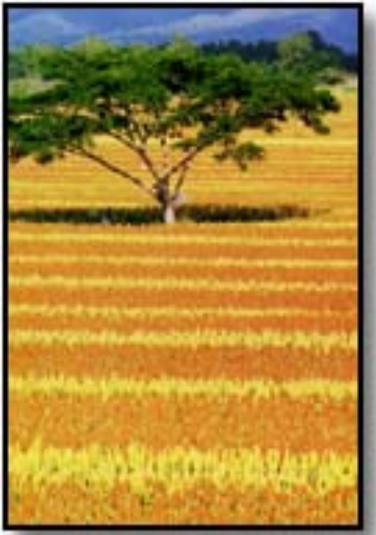
Calculation of base rates:

- Community involvement
- What do people need
- Measurement of use
- Conservation rate set
- Higher rates for additional water



# Clumsy Solution: Addressing Different Values

- **Egalitarian:** what does everyone need, who gets to say what's fair
- **Individualist:** efficient use of resource, able to purchase additional water if desired
- **Hierarchist:** manage and predict water needs, monitor goals and progress



# Creating Clumsy Solutions for Value-based Problems

- Policies that do not make universal claims for what is right
- Policies/practices that recognize multiple value perspectives
- Competent and fair conversations to arrive at “shared” policies that guide public and individual choices