

Scientific insights: answers?

When do I take action or 'believe'?

- Inductive reasoning: 'bottom up'
 - Honey bees *Apis mellifera* how do they find their way?
- Deductive reasoning: 'top down'
 - Using a general theory, derive a testable prediction about a specific case: Sea otters as keystone predators



Worldview: what the world means to me (and my kind)

- Religion
- Resource abundance
- Standard of living
- Interaction with 'outgroups'
- Government

- And....?

Imbalances?

- 1/5 of the world's population live in the 20 richest countries (25K/yr)
- Yet...in the U.S 35 million people (1/3 children) live without sufficient food.
- U.S spends \$38 billion yr. on diet programs

Education and fertility rates (women) 2000

- Inverse relationship (education/TFR)
 - Ethiopia: 6%/6.6
 - Cambodia: 17%/5.1
 - Egypt: 80%/3.4
 - South Africa: 95%/3.1
 - Italy: 95%/1.3
 - U.S: 95%/2.0

Religion (2000)

- 83% of the world is religious (5 billion people). 2/3 belong to the 'big three'
- Christian: 33%, (2 billion)
- Islam: 20%, 1.2 billion
- Hindu: 12.5 %, 800 million

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Quality of life indicators

TABLE 1.2 Average Indicators of Quality of Life for the Ten Richest and Poorest Countries¹

INDICATOR	POOR COUNTRIES	RICH COUNTRIES
Per capita GNP	\$170	\$29,946
Life expectancy	47.4 years	77.9 years
Infant mortality ²	114	5.7
Child deaths ³	194	7.5
Safe drinking water	42%	NA ⁴
Female literacy	38%	97%
Birthrate ⁵	45.2	11.4

Notes:¹Averaged as a group; ²per 1,000 live births; ³per 1,000 children under age 5; ⁴not available, but close to 100 percent; ⁵per 1,000 people.

Source: Data from World Resources Institute, 1998-99. Oxford University Press, New York.

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U.S. consumption/production

TABLE 1.3 The United States, with 4.5 Percent of the World's Population . . .


CONSUMES	PRODUCES
26 percent of all oil	50 percent of all toxic wastes
24 percent of aluminum	26 percent of nitrogen oxides
20 percent of copper	25 percent of sulfur oxides
19 percent of nickel	22 percent of chlorofluorocarbons
13 percent of steel	26 percent of carbon dioxide

Source: Data from World Resources Institute, 1998–99.

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- ## Haiti and Costa Rica: a case study
- History
 - Religion
 - Occupation
 - Government
 - Status today

How we think, what we believe,
how we are governed, all
influence how we behave,
including our behavior towards
our environment



Diversity

