

# Human Dimensions of Global Environmental Change

# Social Process Diagram

**FUND OF KNOWLEDGE & EXPERIENCE**

Change in Expectations

Note: This diagram shows representative labels for connections between building blocks.

Accumulation of Knowledge and Experience

Adaptation of Cultural Norms

Education, Socialization

Negotiation, Lobbying, Bargaining, Election

**PREFERENCES & EXPECTATIONS**

Technological Evolution

Land Use

**POLITICAL SYSTEMS & INSTITUTIONS**

Revenues

Regulation, Taxation

**FACTORS OF PRODUCTION & TECHNOLOGY**

**RESOURCES**

LABOR

LAND

CAPITAL

RAW MATERIAL

ENERGY

**TECHNOLOGY**

Interregional or International Bargaining

Change in Distribution of Pressure Groups

Population Policies

Supply of Labor

Demographic Rates, Migration

Choice of Valued Goods

Supply of Valued Goods

Creation of Uncertainty

Climate Change, Change in Terrestrial Ecosystems

Deforestation, Land Use

Manufacturing, Agriculture, Services, Transportation, Communication

Transformation

Choice of Particular Production Processes

**POPULATION & SOCIAL STRUCTURE**

- Size & Age/Sex Distribution
- Social Categories: class, clan, caste, ethnicity
- Health Parameters

Crowding, Culturally-based / Ethnically-based Competition

Ideal Family Size, Reinforcement / Assimilation of Cultural and Ethnic Values

Demographic Rates

Demand for Labor

**ECONOMIC SYSTEMS**

- Production, Distribution & Consumption of Goods & Services

Trade Flows

Trade Flows

Atmosphere, Ocean, Inland Water, Biosphere Changes

Modifications of Environment

**GLOBAL SCALE ENVIRONMENTAL PROCESSES**

Harvest Dates

Emissions, Pollution

Migration

Migration