



**BIOSPHERE**

- Introduction of alien species
- Overexploitation of biological resources
- Resistance building
- Ecosystem conversion
- Ecosystem degradation
- Loss of genetic diversity
- Loss of species diversity

**ATMOSPHERE**

- Stratospheric ozone depletion
- Tropospheric pollution
- Local air pollution
- Enhanced greenhouse effect
- Global and regional climate change

**PEDOSPHERE**

- Loss of fertility (organic matter, nutrients)
- Salinization, alkalization
- Erosion, morphological changes
- Overfertilization
- Acidification, contamination
- Surface sealing
- Compaction
- Deposition and accumulation of waste

**POPULATION**

- Population growth
- Migration
- Urbanization
- Urban sprawl
- Damage to health caused by environmental factors

**HYDROSHERE**

- Sea-level rise
- Changes in ice-caps and glaciers
- Changes in oceanic circulation
- Freshwater scarcity
- Changes in groundwater level
- Changes in water quality (pathogens, nutrients, toxins)
- Changes in loads of particulate and dissolved matter
- Changes in local water balance

- Increased food production
- Expansion of agriculturally used lands
- Intensification of agriculture
- Decline of traditional agriculture
- Expanding monetary sector
- Increase of environmentally sound economic processes
- Increased tourism
- National economic policy strategies

**ECONOMY**

- Increased consumption of energy and resources
- Enhanced labor productivity
- Enhanced capital intensity
- Enhanced resource productivity
- International indebtedness
- Tertiarization
- Industrialization
- Increasing protectionism
- Increasing world trade
- Globalization of markets
- Growing traffic volume
- Expansion of transport routes
- Construction of technical megaprojects

**PSYCHOSOCIAL SPHERE**

- Demand for higher standards
- Growing environmental awareness
- Increased mobility
- Growing interest in participation
- Sensitization to global problems
- Women's emancipation
- Growth of fundamentalist movements
- Spreading of western lifestyle and consumption patterns

**SOCIAL ORGANIZATION**

- Widening international social and economic disparities
- Social and economic marginalization
- Mounting poverty
- Individualization
- Decline of traditional social structures
- Institutionalization of social services
- Increasing ethnic and national conflicts
- Democratization
- Increasing international agreements and institutions
- Increasing significance of NGOs
- Increasing environmental protection at national level
- Structural unemployment on the rise

**SCIENCE AND TECHNOLOGY**

- Intensification of education and capacity building
- Mounting technological risks
- Knowledge and technology transfer
- Medical progress
- Automatization, mechanization
- Progress in information technology
- Progress in biotechnology and genetic engineering
- Advances in environmental engineering
- Development of new materials, material substitution
- Development of renewable energies and resources