SUSTAINABLE DEVELOPMENT, ENVIRONMENT AND INFRASTRUCTURES

Strategic Reflection Forum "The integration of South America and the role of the infrastructure" Buenos Aires, Argentina May, 2009



TOPICS

Environmental sustainability criteria in the planning of infrastructures

- Previous ideas
- Focus
- Environmental and territorial effects

Incorporation of the infrastructures to the planning process (the case of the PEIT)



ENVIRONMENTAL SUSTAINABILITY CRITERIA PREVIOUS IDEAS

- The sustainable Development as the center of the international agenda (Río 92): balance/juggling of objectives: social progress; economic development; and conservation of resources
- To integrate the environment in all policies that have an effect on the territory; and in phases of the process
- To incorporate the territorial dimension
- Transportation infrastructures have been pioneers in relation to integration



FACTORS THAT MOTIVATE INTEGRATION

- Increase in the scale and complexity of the relations among action areas (globalization)
- Increase in the transformation capacity of the environment by means of technical opportunities and the available capital = increase in the geographical area of influence
- Dissatisfaction regarding the results of the traditional sectoral focuses (inefficiency related to a posteriori corrections)

European references

- Integration strategy MA in transportation policy (1999)
- Guidelines for environmentally sustainable transportation (OECD OCDE, in Spanish, 2002)
- Environmental and strategic assessment



TERRITORIAL AND ENVIRONMENTAL EFFECTS OF THE INFRASTRUCTURES (1)

Economic and competitiveness:

- Changes in transportation costs
- Changes in competitiveness conditions (sectors/territories)
- Creation of infrastructures = colonization of the territory

Accessibility and connectivity

- Opportunities and threats: delocalization; markets
- Importance of anticipating and managing suitably

Territorial model: uses of soil and localization:

- Polarization or re-balance?
- Conflicts among alternative uses



TERRITORIAL AND ENVIRONMENTAL EFFECTS OF THE INFRASTRUCTURES (2)

Environmental

- Energy consumption and natural resources
- Contribution to climate change (30% emissions)

Nature and biodiversity

- Direct; habitat fragmentation
- Landscape and cultural heritage (deterioration, identity)

Emissions and pollution of air, water and soil

Degradation, erosion, soil sealing, noise

Health, security and quality of life

- Functional and social segregation linked to types
- Accident rate and road security



ARTICULATION AMONG TRANSPORTATION AND TERRITORIAL DEVELOPMENT POLICIES

Transportation (all types) more than infrastructure (DGTREN)

- Balance among "transnational" networks and "capilar" networks (national, regional ones)
- Actions in integrated territorial development strategies (according to characteristics of each territory)
- Environmental and territorial impact assessments (TIA) in programs and big infrastructure and transportation projects



INFRASTRUCTURE IN THE PLANNING PROCESS. THE CASE OF THE PEIT

Diagnosis as a starting point:

- Predominance of negative trends against positive ones
- Derived character of the "demand" and transportation activity
- Difficulty related to change in "isolated" focus (costefficacy of the actions)
- Contradictions/balance among objectives: transportation-environment-territory
- Relevance of the problems in metropolitan and urban areas



THE PROCESS OF THE PEIT

- Agreement Council of Ministries (July, 2004)
- Forums and previous queries
- Proposal document (December, 2004)
- Outreach, institutional debate and public participation
- Environmental assessment
- Approval by Council of Ministries (July, 2005)
- Sectoral plans and other development instruments (2006-2007)
- Follow-up, assessment and revision



ENVIRONMENTAL AND TERRITORIAL OBJECTIVES OF THE PEIT

- Equitable accessibility conditions
- Modal balance (road, RW –FC, in Spanish, ports and airports) and integration of the system
- Social cohesion
- Energy efficiency, reduction of global impacts
- Improvement in environmental quality
- Fulfillment of environmental agreements



ENVIRONMENTAL ACTIONS IN THE PEIT

- Environmental objectives
- Report on environmental sustainability (Directive 2001 CE)
- Social and public participation
- Environmental memory agreed by the Ministries of Development and the Environment
- Incorporation of the recommendations of the environmental memory
- Follow-up instruments



BASIC ENVIRONMENTAL CRITERIA

Integration of the inter-modal transportation system:

- Travelers: public transportation
- Goods: RW and sea

Energy and environmental efficacy

- Reduction of transportation intensity in the economy
- Demand management

Fulfillment of agreements related to Climate Change

- NP of allocation of emissions
- Quality of the air in urban zones

Environmental assessment and follow-up



RECOMMENDATIONS OF THE ENVIRONMENTAL MEMORY

- Improvement of the methodologies for socio-economic and environmental assessment
- Additional study on the impact of the infrastructures in the natural surrounding
- Environmental objectives in the follow-up system of the PEIT
- Integration of sectoral policies: climate change, energy, cohesion, etc.
- Promotion of social participation



CONCLUSIONS - MARGIN OF ACTIONS

- Prioritization of transverse aspects (global ones and territorial dynamics in design/planning/management
- Prioritization of environmental objectives = reinforcement of actions related to compatibility/fulfillment of environmental agreements
- To relate territorial and environmental objectives in all the phases of the process: decision/planning/performance
- Inter-modal integration
- Adaptation to the institutional management structure
- Improvement in assessment system; knowledge and information
- Promotion of innovation
- Transparency and fostering of participation

