

ECONOMIC STUDY: HANDOUT FOR POTENTIAL CONSULTANTS TO BE CONSIDERED

1 Background ALBATRAS

Background information on the Declaration of Zurich concerning the improvement of road safety in particular in the tunnels of the Alpine zone is publicly accessible under www.zuerich-process.org

Within the ALBATRAS study, three appropriate instruments of traffic management systems for transalpine road freight transport have been analysed, harmonised and aligned on a comparable scientific, technical and operational level. The considered instruments are:

- ACE: Alpine Crossing Exchange
- AETS: Alpine Emission Trading System
- Toll+: Differentiated toll systems

A detailed scheme has been elaborated on how the respective instruments could be implemented in practice, considering organisational, operational, administrative, technical and economical aspects.

Within the study different operable thresholds for the three policy measures (caps for the number of trucks regarding ACE, caps for the amount of emissions regarding AETS and toll levels regarding Toll+) have been defined (a more restrictive and a more tolerant one for each instrument). Thereby an implementation of the traffic management instruments on the transalpine corridors of Alpine Region B+ (between Ventimiglia and Tauern-axis) is assumed, whereas the effects shall be analysed for the whole Alpine Region C (between Ventimiglia and Wechsel). Building on that, the impacts on transport flows on Alpine routes have been modelled and analyzed in a traffic study for 21 different scenarios, which are compared to 3 BAU scenarios (2020, 2030 with high economic growth and 2030 with low economic growth). The traffic study has been carried out using a multimodal traffic model, which simulates route and mode choice in transalpine freight transport depending on different policy measures.

The results of the calculations for each scenario provide the following output:

- Effects on transport volumes in tons/a per transalpine corridor and transport mode (road, unaccompanied combined transport, wagon load, rolling motorway)
- Change in tons/a compared to the respective BAU scenario for road and rail
- Effects on road transport prices (per trip and country for the ACE scenarios respectively per trip, km and country for AETS, Toll+ and MIX scenarios)
- Costs and revenues for the public sector

The present study, subject to tender, shall follow up on those results and analyze economic aspects of the different scenarios in detail

2 Content of the economic study

Work Package 1: Economic effects of introducing one instrument for the entire alpine region (ACE or AETS or Toll+)

The contractor has to analyze the economic effects in the alpine region C of introducing ACE or AETS or Toll+ in the alpine region B+ on the:

- a) Economy at national and regional level
- b) Transport sector

a) Economy at national and regional level

In this context, the economic effects of introducing one instrument in the alpine region B+ on each of the Zurich Process member states, i.e. Austria, France, Germany, Italy, Slovenia and Switzerland have to be analysed, particularly the impacts on GDP, employment respectively unemployment rate, consumption costs / price levels, specific economic sectors, road infrastructure management, trade flows including specific commodity groups, industrial organisation or secured supply with goods.

In addition to the national level, the impacts to be expected have to be analysed on a regional level as far as possible, referring to the administrative divisions of each country of the Zurich Process (e.g. NUTS 2 regions). In this respect, the analysis should focus on these regions that are primarily affected by these transport flows considered in the "ALBATRAS" study in the different scenarios.

b) Economic, logistical, social, occupational impacts on the transport sector in general and the road transport in particular

The most detailed step on the analysis focuses on the transport sectors at national and regional level of each country of the Zurich Process member states and in this context especially on road transport. Within this analysis the impacts of introducing one instrument in the alpine region B+ regarding e. g. changes of logistical chains, modal shift, the situation of undertakings in this sector, prices and costs of transport or impacts on unemployment rates shall be addressed.

Work Package 2: Economic effects of simultaneously introducing different respectively mixed/combined instruments for the entire alpine region

Building on the findings of WP1, the contractor has to give a well-founded estimation regarding the impacts of introducing different instruments and of introducing a mixed/combined instrument in the alpine region B+. The contractor shall identify those combinations that are expected to have noteworthy, differing impacts, and the analysis has to focus on these combinations.

The contractor has to analyze the economic effects in the alpine region C of the simultaneous introduction of ACE and AETS and Toll+ in different countries of the alpine region B+ as well as the introduction of a mixed/combined instrument on the:

- a) Economy at national and regional level
- b) Transport sector

The analysis has to be conducted with the same questions in mind analogue to Work Package 1, the difference being that simultaneously different (mixed/combined) instruments will be introduced in the alpine region B+ and their effects analysed for alpine region C.

3 Procedure

- The invitation to tender procedure is conducted by Switzerland according to Swiss law
- Estimated timeframe for launching the invitation to tender: after 14 February 2011
- Maximum estimated budget: € 155 000
- Estimated duration for conducting the study: May to December 2011