

1. Target

- ▶ Logistics or supply chain manager of private or public companies
- ▶ Logistics platform manager (urban logistic platform, warehouses ...)
- ▶ Representative of local authorities in charge of urban regulations
- ▶ Transport operator with own-account or subcontracting transport fleet

2. Objectives

The aim of this study is the quantification of the societal impact of one or more modal shift scenarios for the global freight supply chain or for a limited perimeter. Societal footprint quantification is realized through the monetization of the different negative externalities generated by transport activities.

Comparison of results obtained for each scenario allows to evaluate the environmental and societal benefit of a modal shift compared to the existing logistic scheme. Monetization approach makes it possible to calculate an overall footprint including all the externalities retained. GHG emission report can also be established in compliance with the European EN 16 258 standard.

3. Methodology, Pre-requisite and Organisation

For different assumptions of modal shifts, transport flows by mode are evaluated in cooperation with the applicant taking into account its locally available transport supply.

When scenarios and their possible variants have been identified, rating of one or more of the following 6 externalities is established using a recognized methodology:



Noise



Accidents



GHG emissions



Congestion



Pollutants and Particles



Upstream Impact

4. Study organization

Step 1: Identification of operational characteristics of transport flows and definition of alternative modal shifts according to the available transport capability and local regulatory constraints.

Step 2: Calculation in monetary value (€ / t.km) of the cost of each externalities for each scenario and their possible variants. Comparison of the full societal cost, partial shares or by type of externality. Quantification of the robustness of assumptions and their impact if necessary.

Step 3: Presentation of result to the applicant

This study can be supplemented by a monitoring measure phase in case of effective implementation.

5. Deliverables

The deliverable consists of a study report describing scenarios, reference data, calculation assumptions and the detailed results (by externalities, by scenarios and possible variants). Recommendations can be established to facilitate the deployment of a solution. The robustness of the assumptions is also evaluated.

6. Our Resources

The study is conducted by TK Blue experts who participate in International and European working groups (GLEC, ...). The TK'Blue methodology for quantifying externalities is based on internationally recognized methods and the most recent reference data (Ricardo AEA report, ...). Calculations are carried out in accordance with the applicable standards and regulations: The GHG/CO₂e calculator complies with French regulations and the European standard NF EN 16258.

7. References

They trust us :



Projet
Olympic
Energy



NANTES
SAINT-NAZAIRE
PORT



8. For more information :

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