

THESIS - European Market Analysis of National Road Databases

1 Background

National road databases are critical for traffic management, infrastructure planning, and digital services. However, their structure, governance, and accessibility vary significantly across European countries. Understanding these differences is essential for Triona and its product TNE (Transport Network Engine) to identify opportunities and develop strategies for market entry.

2 About TNE

TNE is a powerful system for managing road and railway networks, developed to support both national and local stakeholders. The system enables efficient data collection, editing, validation, and publishing of geospatial information related to transport infrastructure. TNE is currently used by several Nordic authorities and organizations and is adaptable to different types of datasets and workflows.

3 General

This thesis is aimed at one or two students. At least 50% of the work should be carried out on Triona's premises.

4 Objective

The thesis will conduct a comprehensive market analysis of selected European countries regarding the existence, structure, and management of national road databases, including their data quality, update processes, and integration capabilities, and to provide recommendations on which markets are most attractive for TNE.

5 Scope of Work

The analysis should address the following questions:

- Is there a national road database? (Yes/No)
- Who is responsible for it?
- What is the quality of the data?
- What type of data is stored in it?
- What is it used for?
- When was it launched in its current version?
- How often are changes published?

6 Strategic Impact

The possible strategic impact includes:

- Market prioritization by means of identifying which European countries have well-structured, accessible, and frequently updated national road databases, enabling TNE to focus on the most promising markets.
- Competitive advantage by providing insights into technical and regulatory requirements, helping Triona position TNE as a leading solution for transport network management.
- Partnership opportunities by highlighting potential collaborations with national authorities, municipalities, and private actors involved in data updates.

- Enabling product adaptation by informing how TNE can be tailored to meet integration and system requirements in different countries.
- Long-term growth by giving the data needed to establish a roadmap for entering new markets, strengthening Triona's presence in European infrastructure data management.

7 Expected Result

The result is presented in a report, with a detailed market analysis as well as recommendations on which markets are most attractive for TNE.

8 Budget

Triona dedicates a supervisor for supervision/discussion regarding requirements and functionality, as well as ensures access to work tools (computer, etc.) and a workplace.