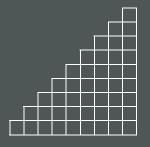


# Logistics Route Optimization

project by Denis Kleptsov



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## Logistics Route Optimization in Estonia

#### About the project

Timeframe	March 17–23, 2025
Team	solo project by Denis Kleptsov
High-Level Goal	Reduce delivery route distances by ≥15% using clustering and optimization methods.
Toold & Data	<ul> <li>Tableau, Python, Excel</li> <li>2 datasets (885 delivery records + 20 route logs)</li> <li>Geocoding via HERE API</li> <li>Route planning via OptimoRoute</li> </ul>

#### **Context & Summary**

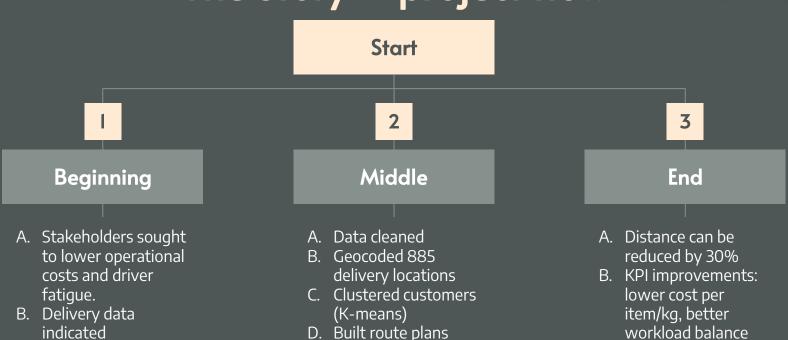
- Textile delivery operations in Estonia (urban and rural)
- Focused on a single transport partner with a high volume week
- Evaluates delivery efficiency and route structure

#### **Main Question**



Can geographically clustering customers and optimizing routes reduce travel distance and time?

## The Story — project flow



using distance-

minimizing heuristics

inefficiencies: long

workloads.

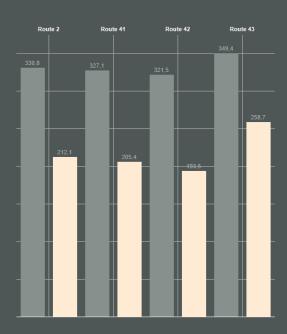
routes, inconsistent

## Visual Outputs & Interpretations



- Legacy Routes
- Optimized Routes

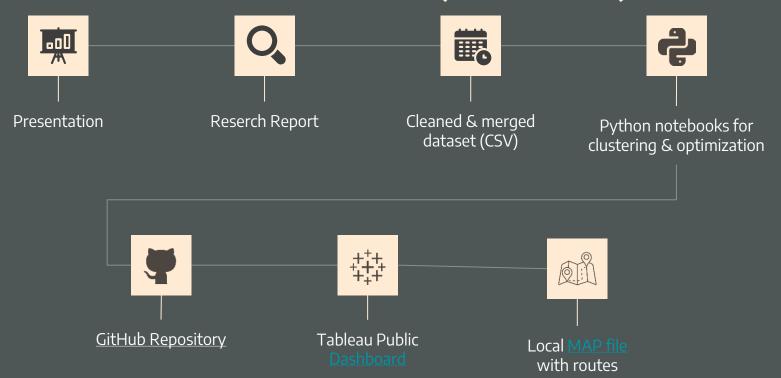
Optimized routes reduce the total distance from ~1300 km to ~850 km, only on 4 Routes, reducing the driving load by **33,17**%.



Four geographic clusters were formed from 885 delivery points. This zoning supports logical and shorter delivery paths.

For more info, **click here** 

## Resources & Deliverables (with links)



## Thanks



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