Integrated Web Based Visualization of Railway Track Information

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Outline

- Introduction
- Methodology
- Development
- Demonstration of the Results

Introduction

- Visualization
  - Human capacity to read information
  - Mass data
  - Visual representations
- Previous achieved work
- Problem definition
- Objective of the thesis

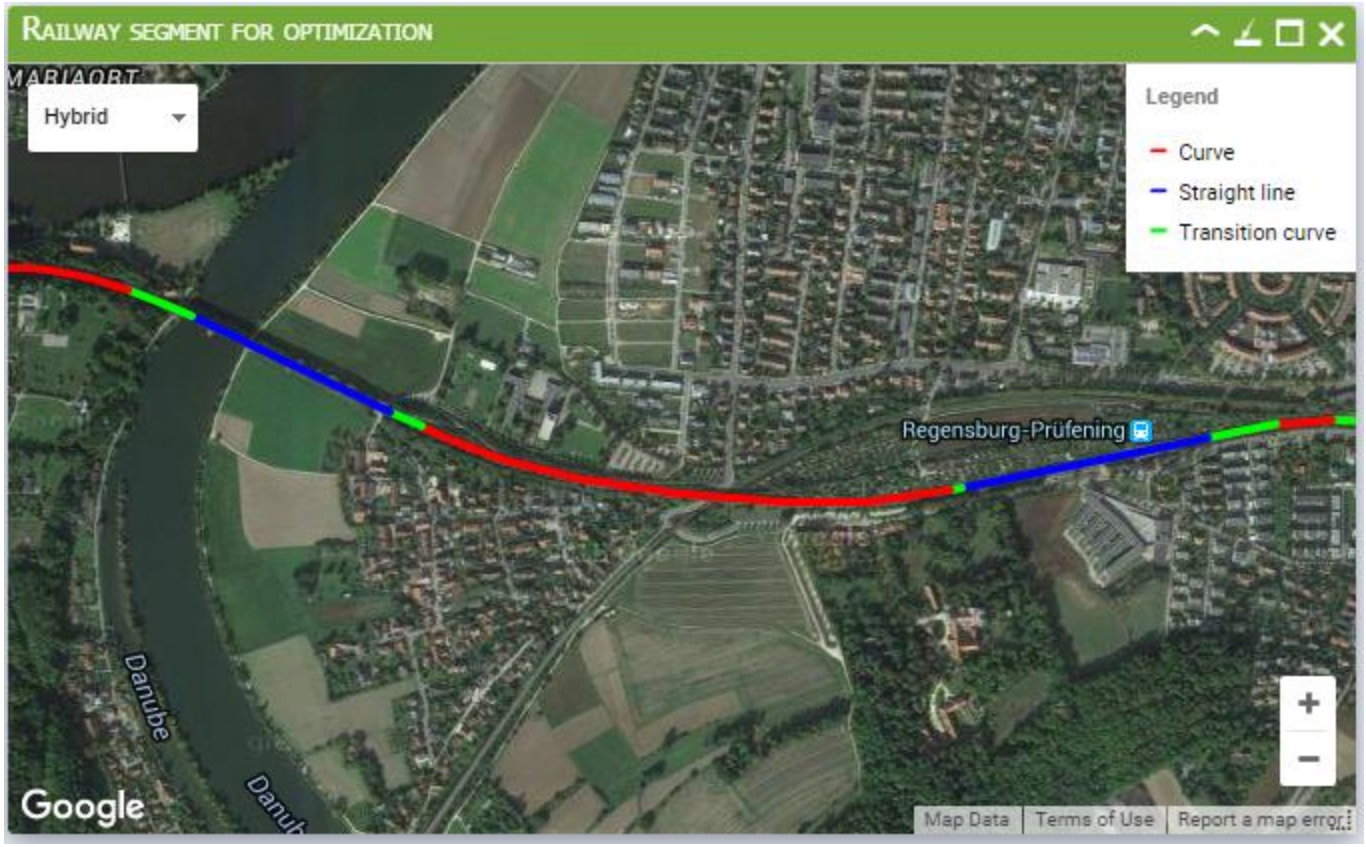
Methodology

- Examination of Visualization tools
  - Mapping libraries and APIs: Google Maps, Leaflet, Open Street Map, etc.
  - Charts visualization APIs: Google Charts, HighCharts, D3.js, etc.
- Selection of appropriate chart types: Pie, Diff, Bar, etc.
- Geo-Visualization of parameters on the map
- Design decision to improve the usability of the web application.

Development

- Benchmarking analysis
- Specifying the general requirements of the final product
- Preparation of the input data
- Technology enablers used in the implementation of the project:
  - API: Google Maps, Google Charts
  - Libraries: GeoXML3, Jquery, Jquery-UI, FlipClock, Elabel, JsPanel
  - Languages: HTML, CSS, JavaScript, PHP, KML
  - Techniques: AJAX
  - Frameworks: Bootstrap
  - Tools: Sublime, Apache web server

Demonstration of the Results




QUESTIONS?
COMMENTS?
CONCERNS?

References

- https://fensafitters.wordpress.com/tag/fensa-fitter/