

# Bertrandt GUIDE

## Innovation Cluster

Individual. Efficient. Sustainable.





# Bertrandt GUIDE

## Guide for Intelligent Driving Efficiency:

Our **Bertrandt GUIDE** innovation cluster sees the vehicle as a fully customizable partner with the aim of improving its eco-balance regardless of the powertrain installed.

For that reason, we deliberately focus on reducing travel time. Using optimization algorithms, a large number of destinations are arranged into the optimum order, taking into account various determinants, and thus optimizing the planned route.

By integrating the Mobile App into the vehicle, Bertrandt GUIDE has the potential not only to provide realistic real-time images of the current traffic situation, but also to calculate the vehicle's range and to display charging points and filling stations located along the route.

CRM





Synchronization of existing systems almost in real time.



Cross-platform development

- > Flutter, Dart
- > Web, Android & iOS



Communication between the back end and the Mobile App

- > MQTT client



Backend server on the Azure Cloud

- > Implementation of the MQTT broker in C#



Processing of the data from the Mobile App

- > Conversion into geo-locations



Optimization algorithm

- > Variant of the travelling salesman problem



Native Android Automotive application

- > Kotlin



Navigation via Navigation UI SDK

- > Gradle in the build process



Communication with the back end

- > MQTT client

# Shaping the future together!



## **Diverse application possibilities with Bertrandt GUIDE – for both private and professional purposes:**

- Family logistics, vacations, or road trips
- Sales or business trips
- Last mile logistics
- Shuttle services or service vehicles

Benefit from our knowledge and experience in the development of mobile and automotive apps and use the customization potential of Bertrandt GUIDE for your customer segment. Our experts will support you throughout the entire product cycle.

**From the initial idea to series production readiness!**



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