

Alternative Trips



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Problem

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*“Cars are responsible for around **12%** of total EU emissions of carbon dioxide (CO₂)”*

*“The global aviation industry produces around **2%** of all human-induced carbon dioxide (CO₂) emissions.”*

Sources: https://ec.europa.eu/clima/policies/transport/vehicles/cars_en
<https://www.atag.org/facts-figures.html>



Problem

Lack of alternatives to
usual unsustainable car
trips.



Goal

Promote **sustainable** traveling in local areas using a friendly environment bicycle to decrease the CO₂ commission for locals.

Move the focus from the city center to the suburbs area for city visitors.



Goal

Make travel more **accessible** and **sustainable** (by providing alternatives with zero CO2 emission).

Promote **local travels**
as the opposite of
mass-tourism.



What is unique about it?

Provide easily accessible
eco-friendly weekend
trips.

Put a focus away from the
city center.

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Desktop App or Mobile App

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We created a desktop website to release as fast as possible.
In the future we plan to create a mobile app.

Bicycle Trips Planner

DEMO

<https://youtu.be/jC1j9XMKHWQ>



What data and APIs did you use for your project?

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Front-end:

- Google Maps
- Google Direction Renderer

Back-end:

- Google Places API
- Google Directions API
- Google Directions Matrix API

Tech challenges



Optimize call for
different Google APIs.

Consistent data
streamline.

Find bugs when debugger
doesn't work.

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Next steps

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- suggested **accommodation** on the route (hotels, campings etc)
- extend **route filters** (exceedance, surface type, distance from the city, key words, localisation)
- bicycle services, shops, renting points





Thank you!