

# Mobility scan

Shiny demo

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# Summary

This is a Shiny application designed and developed to foster sustainable mobility behavior under a specific initiative: Livemobility (see <https://www.livemobility.com/>).

Livemobility is a platform that rewards people for sustainable commuting behavior and helps companies to save money, avoid environmental pollution, improve public health and save travel time. This is achieved through a digital ecosystem that analyses mobility behavior and generates personalized insights to improve mobility efficiency.

This Shiny app is hosted at shinyapps.io and makes use of web interactive settings together with Google Maps APIs to provide relevant indicators of impact, generate geographic scans and create mobility profiles.

# Main libraries

- shiny
- dplyr
- plotly
- data.table
- leaflet
- gmapsdistance
- googleway

# Demo

(Random addresses in London)

# Descriptives

Mobility scan

1 Description  
2 Data  
3 Analysis  
4 Flows

**Input type**  
 Addresses  Analytical data

**Analytical data (CSV file)**  
Browse... analyticalData2020-06-08 04\_45\_22.csv  
Upload complete

**Summary**

	Car commuting distance (km)	Car commuting duration (min)
Shortest	1,7	7,1
25%	7,7	25,3
50%	10,8	32,9
Average	11,0	32,4
75%	14,1	39,4
Longest	33,5	56,2

**Warnings**

Status	Cases
PLACE_NOT_FOUND	0
ROUTE_NOT_FOUND	0

Show 10 entries

Search:

Origin	Destination	carDuration(min)	carDistance(km)	statusCar	transitDuration(min)	transitDistance(km)	statusTransit	bikeDuration(min)	bikeDistance(km)	statusBike	bikeAdvice	ebikeAdvice	transitAdvice
All	All	All	All	/	All	All	All	All	All	A	All	All	All
W9+3AN+UK	Sky+garden+London+UK	35.083	10.414	OK	48.733	12.004	OK	41.883	11.992	OK	0	1	0
N19+5TY+UK	Sky+garden+London+UK	28.117	8.81	OK	44.067	9.722	OK	32.45	9.549	OK	0	1	0
NW10+7SS+UK	Sky+garden+London+UK	46.2	18.083	OK	87.767	18.395	OK	58.95	17.108	OK	0	0	0
SW6+4HE+UK	Sky+garden+London+UK	39.267	12.731	OK	61.4	11.143	OK	39.367	11.151	OK	0	1	0
E8+4AP+UK	Sky+garden+London+UK	17.883	4.014	OK	20.133	4.217	OK	12.683	4.014	OK	1	0	0
N15+3TP+UK	Sky+garden+London+UK	31	9.079	OK	47.05	10.571	OK	29.833	9.099	OK	0	1	0
NW9+8BH+UK	Sky+garden+London+UK	53.333	18.153	OK	72.167	18.458	OK	61.367	18.648	OK	0	0	0
SW6+4RH+UK	Sky+garden+London+UK	38.4	12.845	OK	62.383	12.896	OK	38.667	11.19	OK	0	1	0
SW9+9UT+UK	Sky+garden+London+UK	27.467	8.523	OK	31.817	7.694	OK	22.7	6.508	OK	1	0	0
SW6+7DZ+UK	Sky+garden+London+UK	38.75	12.96	OK	50.767	12.118	OK	40.55	11.166	OK	0	1	0

Showing 1 to 10 of 500 entries

Previous 1 2 3 4 5 ... 50 Next

# Benefits & Advice

Mobility scan



- Description
- Data
- Analysis
- Flows

## Benefits

72% ▼  
**- €1.583.266**  
ANNUAL COSTS

76% ▼  
**- 248.012 kg**  
ANNUAL CO2 EMISSIONS

Inf% ▲  
**+ 29.340 kcal**  
ANNUAL BURNED KCAL

7% ▲  
**+ 8.483,2 hrs**  
ANNUAL TIME SPENT

- Finances
- Baseline
- Advice
- Details

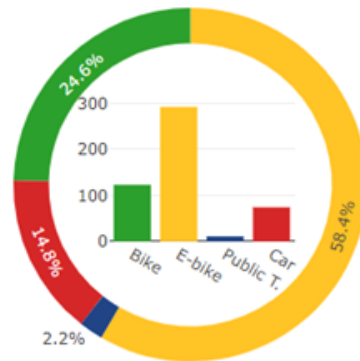
€  
**ANNUAL COSTS**  
601.255 eur

**ANNUAL CO2 EMISSIONS**  
80.007 kg

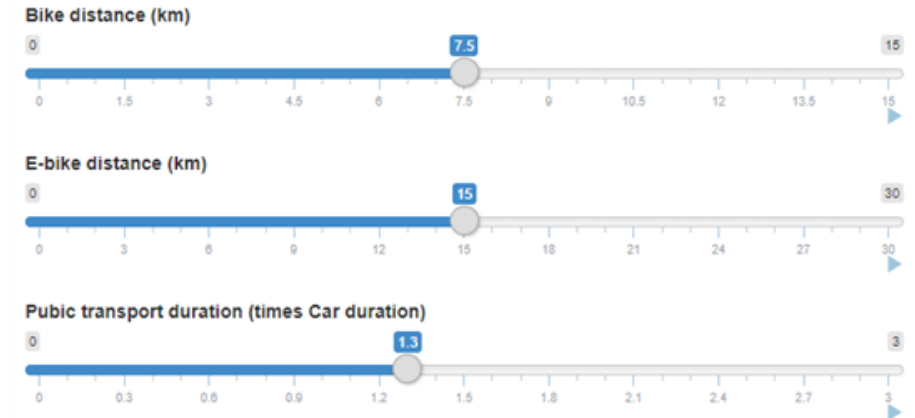
**ANNUAL BURNED KCAL**  
29.340 kcal

**ANNUAL TIME SPENT**  
127.246,7 hrs

## Modal split



## Thresholds parameters



# Mobility dynamic

Mobility scan

Description

Data

Analysis

Flows

## Information retrieval

Obtain routes from analytical data  Routes data

## Routes (CSV file)

Browse... routesData2020-06-08 04\_59\_08.csv

Upload complete

