

# CAR CARBON

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#### 2<sup>ND</sup> LARGEST ROAD CONCESSIONAIRE IN PORTUGAL













Highways play a crucial role in interurban and regional mobility, allowing people, goods and services to reach their destinations in safe and (most of the time) predictable conditions

Unfortunatelly they affect landscapes, water resources, habitats and biodiversity and the vehicles that use them significantly contribute to noise production and

**HIGH LEVELS OF CO2 EMISSIONS** 







• To better monitor and communicate our performance related to ESG Topics we published our first Integrated Report in 2019 using GRI Indicators

carbon emissions coming from vehicles were significantly higher than any other source

• In 2021 we were advised by a different consultant with a different methodology to calculate car carbon emissions

calculation was a black box

Annual Emissions are determined through the

application of EMISSION FACTORS to traffic

aggregated data but there is not an unique

methodology









- To effectively and consistently monitor the carbon footprint of our road users
- To register and understand car carbon emissions at the stretch level and within different time frames

#### ARDIAN

- To develop a tool dedicated to road infrastructure operators
- To help portfolio companies act towards reducing carbon footprint







#### TO DEVELOP A CARBON EMISSIONS CALCULATION MODEL DEDICATED TO THE ROAD SECTOR

- $\checkmark$  Using disaggregated traffic data
- $\checkmark$  Incorporating the geometric characteristics of the road
- $\checkmark$  Including driving behaviour
- $\checkmark$  Automating the process of importing, processing and producing information
- $\checkmark$  Supporting the calculation model with specialized bibliography





## MODEL PRINCIPLES









## CARCARBON DASHBOARD



- Fully Automated Process
- Intuitive and easy-tonavigate dashboard
- Emissions at a much more disaggregated level
- Comparability of information

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- Incorporate new (and different type of) information sources
- Communicate outputs through different channels
- Develop new modules/scenario analyses



## CONTACTS

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