



Friendly Drive >>>> DRIVING SUSTAINABILITY



The Problem



Implication

►CO2 ►NOx







"The planet is on f***ing fire!!!"

-Bill Nye; "The Science Guy"

The Solution - Co-



- ▶ Real time-tracking and analyzation of driving behaviour using the <u>TIxS plug</u> by Pixida
- ▶ Gamified education for the driver
- Shift of driving behaviour to a more sustainable style











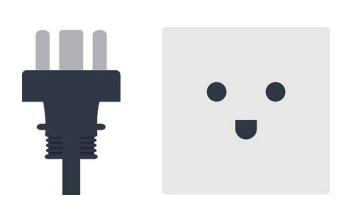
How it works

- Plug&play device for the car cigarette lighter
- ► linked to user account on our FriendlyDrive smartphone app









TIXS

GPS dataAcceleration data



API

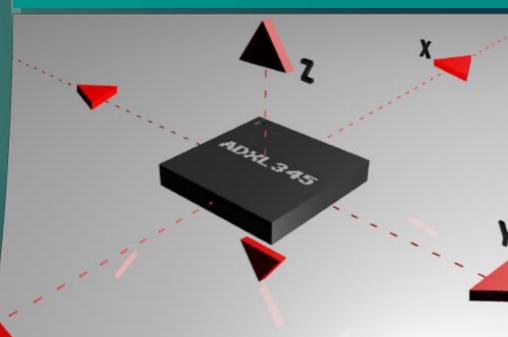
Information about driving environment



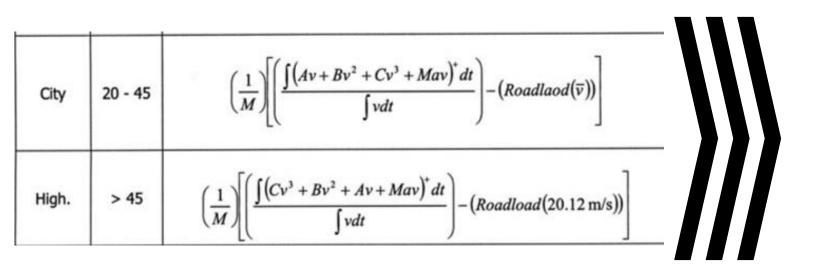
AGGRESSIVENESS-SCORE







Berry, I.M.:The Effects of Driving Style and Vehicle Performance on the Real-World Fuel Consumption of U.S. Light-Duty Vehicles





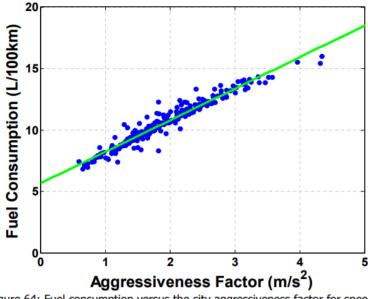


Figure 64: Fuel consumption versus the city aggressiveness factor for speed traces with average velocity less than 20 mph (32 kph)

>Correlated to fuel consumption





AGGRESSIVENESS-SCORE

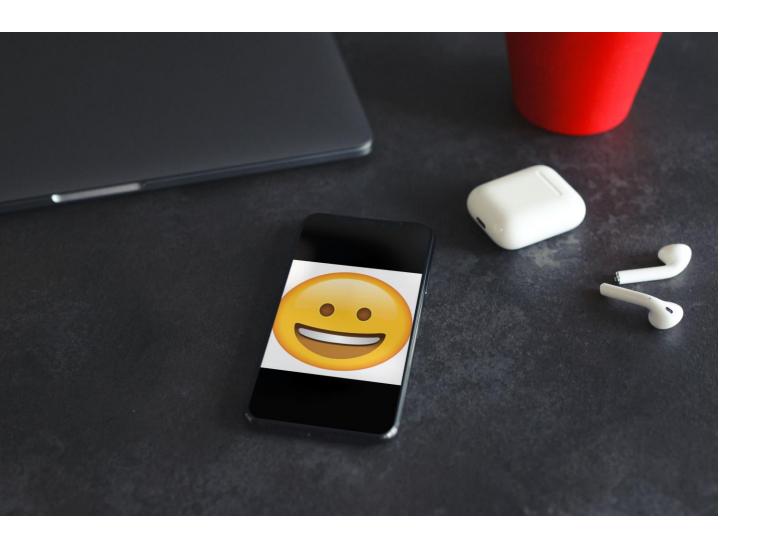




RULE-BASED ECO-SCORE

- normalised to driving behaviour of the entire dataset
- adapted to driving environment





<u>User experience</u>

- Auditive/ visual feedback about the driving style (real time/ retrospect)
- ► Tips on driving style and acceleration behaviour

Gamification

- Ranking list to compare with other drivers
- Virtual badges for special achievements like "FriendlyCityDriver"; "HighwayHero" etc.



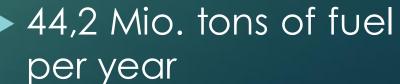






The Market

- ▶ 47,1 Mio. registered cars in Germany
- >5 Mio. companyowned



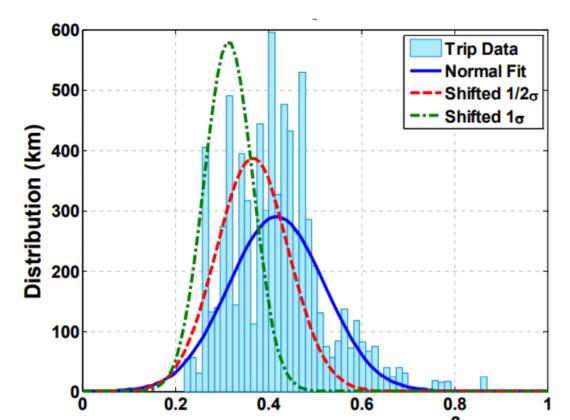
> 170 Mio. tons of CO2 per year in 2020

Costs & Potential

- 5,91 Bn. € per year in fuel
- Improvement of eco-score by one deviation results in ~-6% fuel consumption

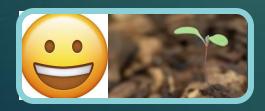
- 355 Mio. € savings per year
- 9.6 Mio. tons CO2 less per year





The bigger picture

- ► For 2030 Germany wants to cut its CO2 emission from transport by 11 Mio. tons (in relation to 2020 forecast)
- FriendlyDrive can contribute a big part

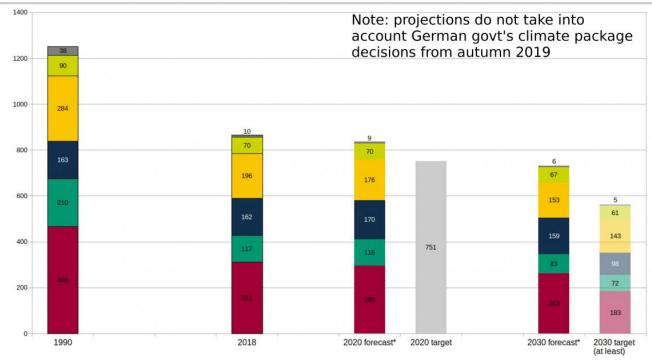




German greenhouse gas emission reduction sector targets and projection for 2020 and 2030.



Data: BMU 2019



■Energy ■Buildings ■Transport ■Industry ■Agriculture ■Other ■Total

In million tonnes CO2 equivalents.

*BMU GHG emissions projections report 2019



Monetization

- Renting model:
 - 5€ monthly royalty fee for device + app
- Sales of anonymized user data:
 - ▶ approx. 1,20€ per dataset
- ▶ Worst prediction:
 - ▶ 3% share of total market= 1,4 Mio. Sales
 - 7 Mio. € revenue from fees per month
 - ▶ 1.6 Mio. € if every dataset sold just once
- Break-even approx. within 12 months (without EoS)



Marketing strategy

1st stage:

- Focused targeting of companies with big car pools
- Partnering with automotive factorers and distribution via their loyalty club programs

2nd stage:

targeting of end customers via cost-effective online advertisement and PoS marketing



Feedback from our future customers











"I drive friendly now." "Easy and enjoyable- a great way to save fuel."

"Fuel costs go DOWN- so do emissions. I love it."

When do YOU start driving friendly?



AND THIS IS HOW IT LOOKS IN ACTION...!!

STAY TUNED:

https://friendlydrive .wordpress.com/

