

GreenMobility

Car measurements –
Hardware and software

Car measurements



Project needs

- Reading car data
- Potential extra sensors
- Transferring of the data

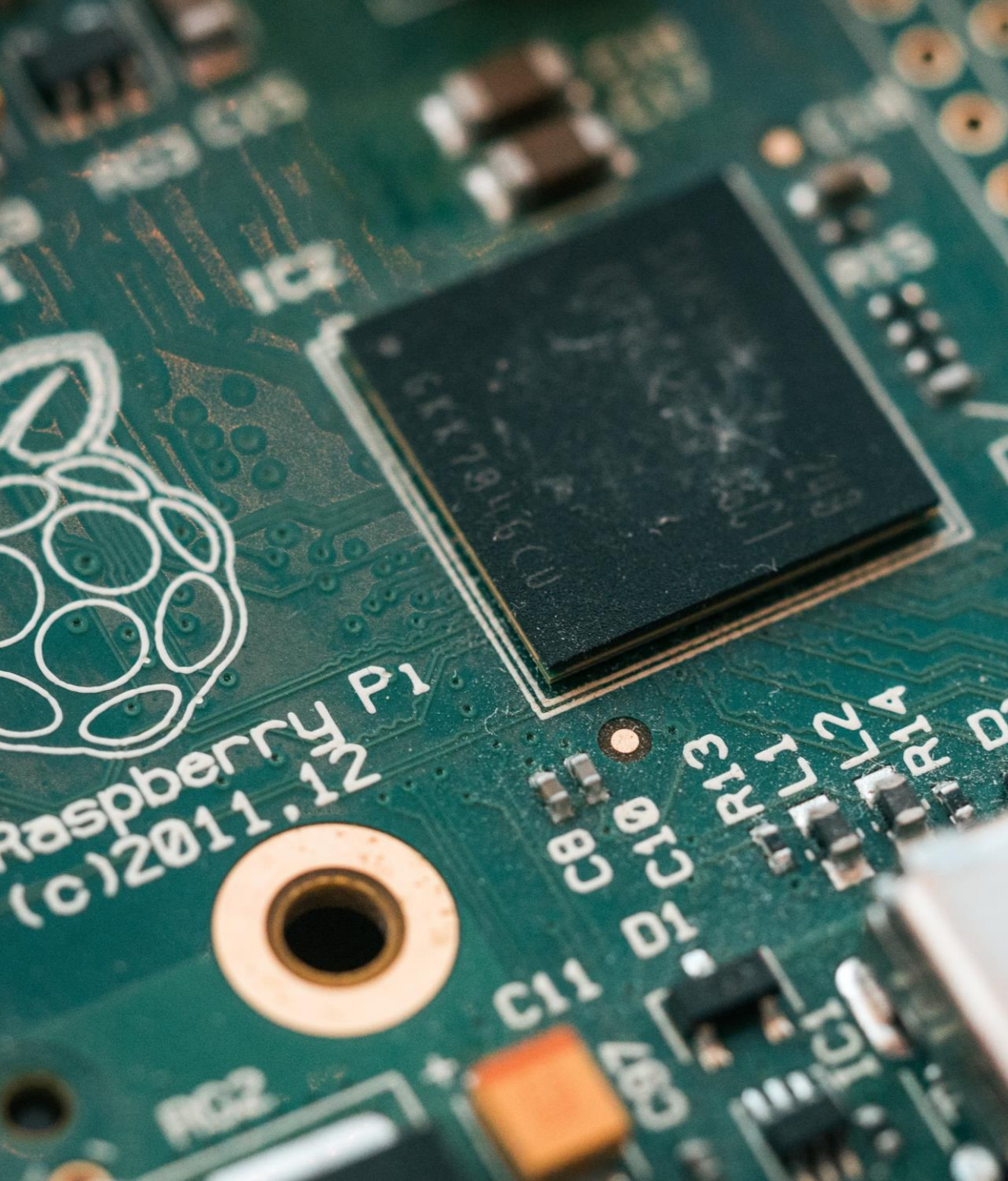
- GreenMobility carsharing hardware - Possibilities and limitations

Solution - All-in-one solution "AutoPi"



AutoPi hardware

- Raspberry Pi Zero embedded + OBD chipset
- Built-in accelerometer
- Various types of connections
 - GPS + A-GPS
 - Wireless connections
 - WIFI
 - 4G
 - Bluetooth
- SD card
- Extra connection ports and pins for external sensors



Solution - All-in-one solution "AutoPi"

AutoPi software

- Cloud interface
 - Centralized place to manage devices
 - Software updates
 - Reconfigurable
 - Configure the intervals of measurements
 - Filter what CAN signals to store
 - Add/Remove as we learn
 - Change how often to upload
- Send directly to own database where it can be accessed or distributed.

DATA COLLECTION AND THE POWER OF FREE FLOAT CARSHARING

FREE FLOAT

Take a car at location A and leave it at location B

GreenMobility fleet

- 400 cars
- +5 trips per car per day (on average)
- +10.000 kilometers of car data every day



THE OPERATION ZONE