<https://copperhilltech.com/blog/obdii-data-logging-with-raspberry-pi-and-pican2-can-bus-interface/>

<https://sgframework.readthedocs.io/en/latest/cantutorial.html>

<https://www.kbb.com/obd-ii/>

<https://www.csselectronics.com/pages/obd2-explained-simple-intro>

https://python-obd.readthedocs.io/en/latest/

Things to research

Key points

**Client statement feedback**

* Current data collections systems are centralized
  + Lack real time functionalities
* Distributed
* Traffic systems are highly dynamic
  + Require highly dynamic data collection systems
    - These systems should be real time
      * therefore , a distributed solution to collect is required
* Proposal :
* Collect data
  + vehicle related data, location data,
    - road conditions
      * black ice traction symbol
      * Can be used for planning roads

- Send this data to a central location to be assessed on short and long terms

**Things to look at**

Pico

* Communication port set on pico
* Assisted GPS
  + Google
  + Lab testing

**Communication**

* LORA WAN
  + Theoretical range of 15km
* 4G, 3G
  + Chip can be installed
* Determine lora speed capability
  + <https://pubmed.ncbi.nlm.nih.gov/33271857/>
* Download data of OBD application onto the chip