Data sent to the server

—> in one packet. (time interval will be configurable with an sms)

- timestamp int64

BME680 (each 15 minutes or more)

- temperature float [°C]
- pressure [pa] or [hpa]
- humidity floar [% relative]

BHI160 B (each 15 minutes or more)

- number of steps int (since last time)

GNSS SE686-A (each 15 minutes or more) (how many points : databike —> 30)

- Altitude float [m]
- longitude double
- latitude double

UV light (ADC differential ref 1.5V, max 3.3V, gain 1/3) (each 15 minutes or more)

- UV intensity float

Battery voltage (ADC single pin) (each 15 minutes or more)

- battery voltage float

Modem information and network (each 15 minutes or more)

- Mobile country code int
- Mobile network code int
- current band
- cellid int
- connection mode (LTE::0 or NB-IoT::1) bool
- signal quality RSRQ int [dB] (Reference signal received quality)
- signal quality RSRP int [dBm] (Reference signal received power :: average power level from a reference signal)
- APN string

Debug informations (each 15 minutes or more)

- GNSS time to fix int (has the GNSS module received a fix)
- LTE number of missed connection int
- …