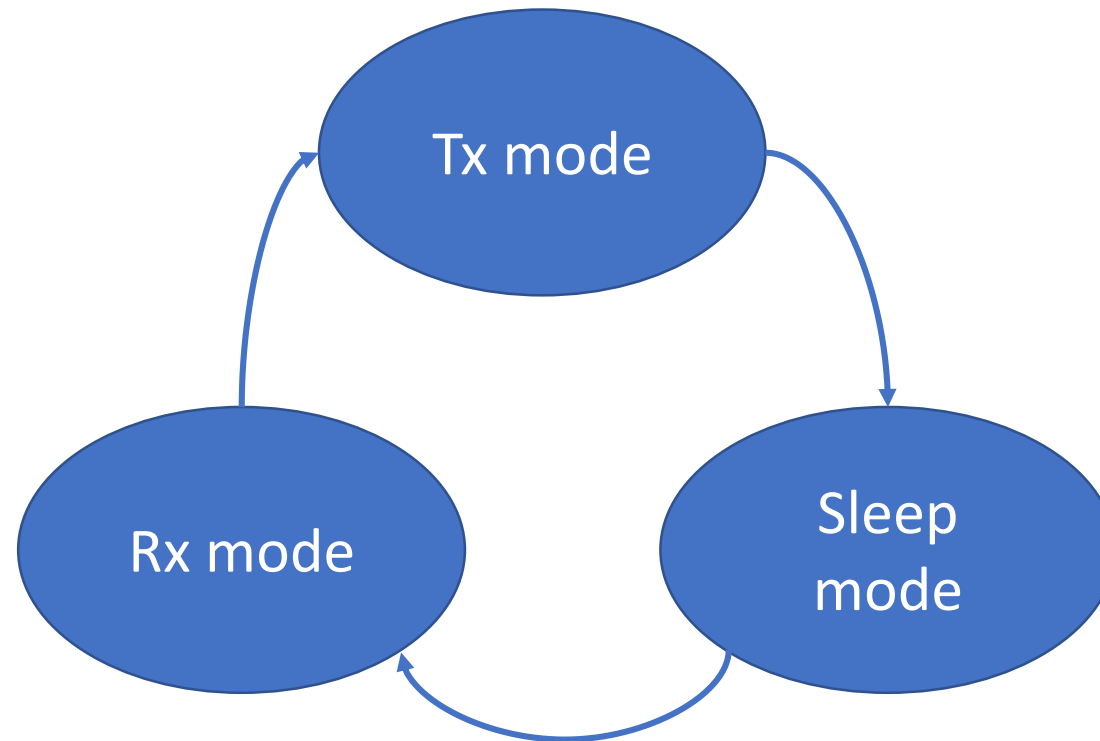# Power consumption Lab

F. Ferrero
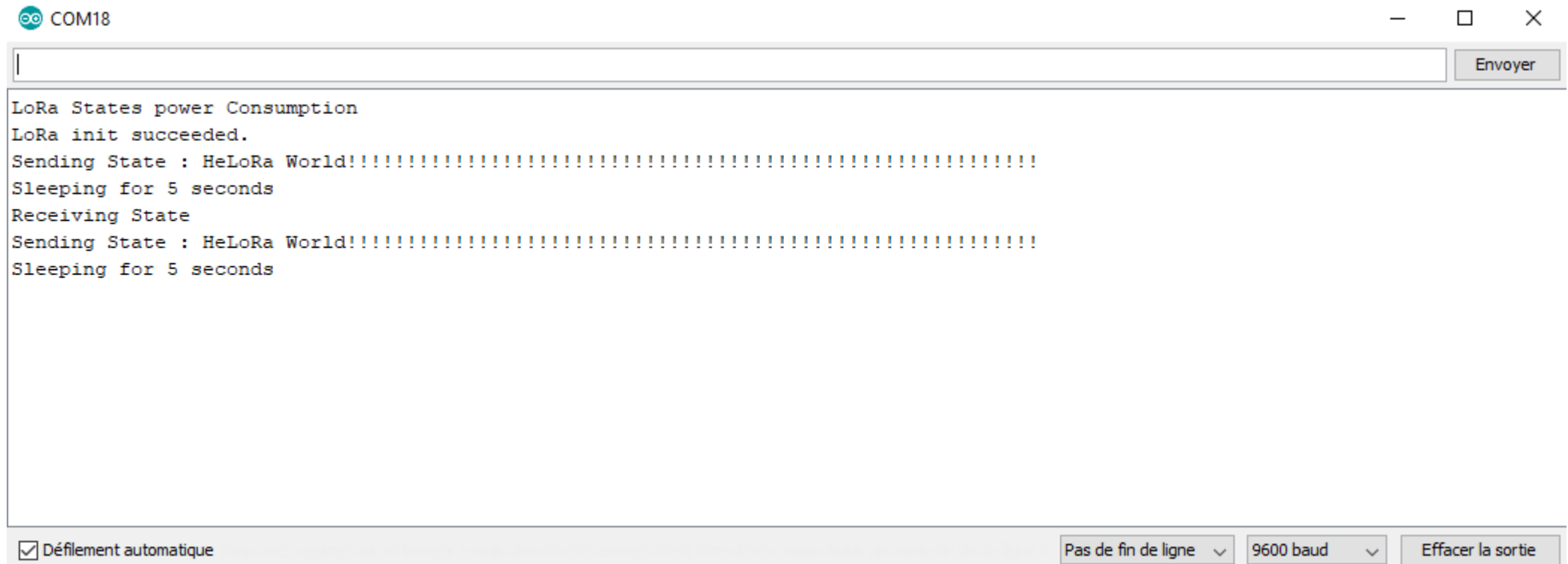
Power consumption Lab

- Download the code Lora_test_States.ino in UCA_Board/Arduino_Code/LoRa_PHY/

- Upload the code in the board

Power consumption Lab

- The code set 3 differents states :
  - Transmission mode (the Tx power can be tuned from 2 to 20dBm)
  - Sleep mode
  - Reception mode

Power consumption Lab

- You can use a 66312A DC source to measure the power consumption in the 3 different modes with 3.3V

- Try to power the Arduino on Vcc Pin and Raw Pin.

- The Raw pin used a regulator and can be powered from 4 to 9 V.

Power consumption Lab

- If we use a AA lithium battery with a capacity of 2.6 A.h

- For transmit, a SF9 and 14 dBm

- A transmit will take 200ms and 1 Tx each hours.

- What is the autonomy of the device ?