**Wireless communication standards**

**6LoWPAN**

* Has very long battery life (10 years)
* 100 meters of range
* Data transfer rate of 50 – 250 kbit/s
* Compatible with Arduino, Bluetooth, and Zigbee
* very expensive - $26 - $34

**LoRaWAN**

* Connects to 4G networks.
* 100Kbps date rate
* 2 – 5km range

**Data file standards**

**JSON**

* Easier to use and access data.

**Sensors to include (through connection I2C)**

* Temperature
* Humidity
* Wind speed.
* Altitude

**Sub Systems**

* Home unit
* Field unit
* Cloud
* Transmitter