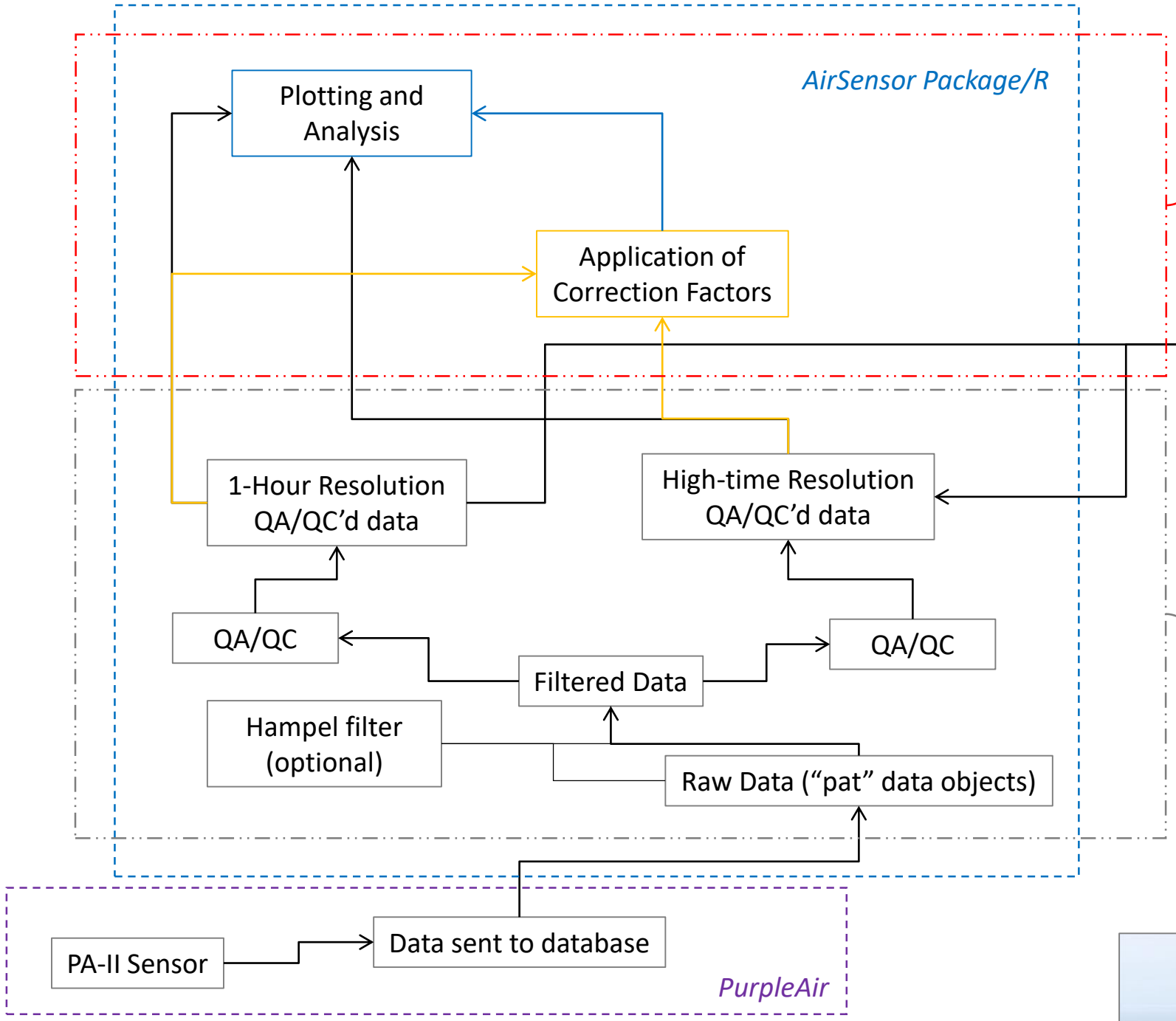
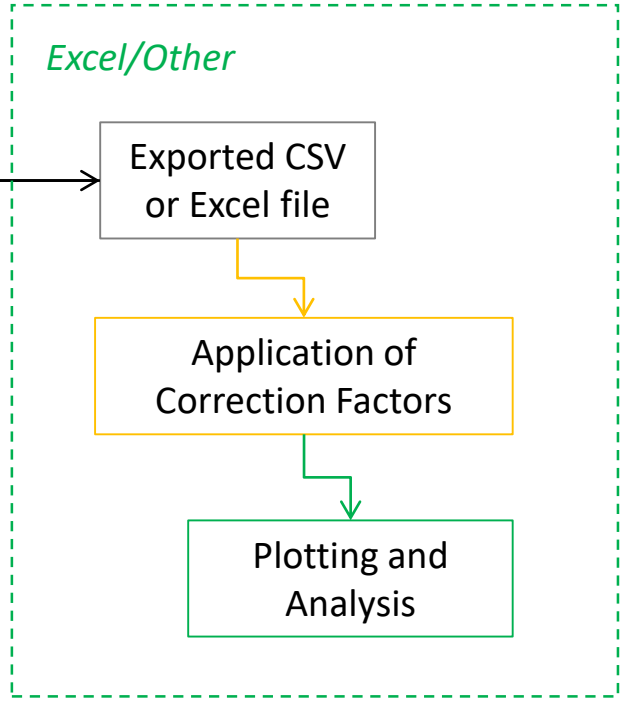


*More Room for Development

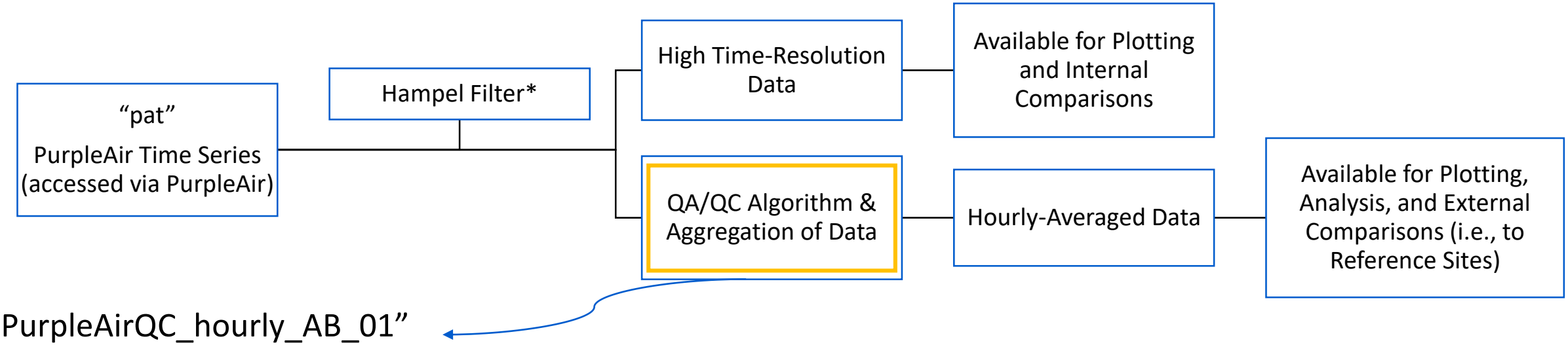
- More/new plot types
- Sensor/sensor or group comparisons
- Robust application of correction factors (compare pre/post application)



Functionality Available, Possible Expansions:

- Developing and testing other QA/QC algorithms

More detail on QA/QC using the AirSensor package



"PurpleAirQC_hourly_AB_01"

- ❑ Data values must be within manufacturer-specified bounds
- ❑ A specified proportion of the data must be present for each hour
- ❑ Hourly averages from Channels A and B must not be significantly different based on a student's t-test
- ❑ Mean difference must be below a given threshold

If all conditions are met, then the average of the averages from Channel A and B, for each hour, is computed

Note: this is one algorithm, the code allows for adjustments to thresholds as well as the development and incorporation of new algorithms

Levels of Data

- Level 1 – “Raw” data, or data as provided by the manufacturer
- Level 2 – Simple/DIY calibration, this may include using a proxy sensor, etc.
- Level 3 – Application of “verified” correction factors to the sensor data*

*(for our work, this may be a global correction for sensors in the South Coast Air Basin)