# Acquiring Real-time Air Quality Information at your location using PRAISE-HK Web Service

# What is PRAISE-HK?

http://praise.ust.hk/

Big Data
Model
Air Quality Info data stored on a Server

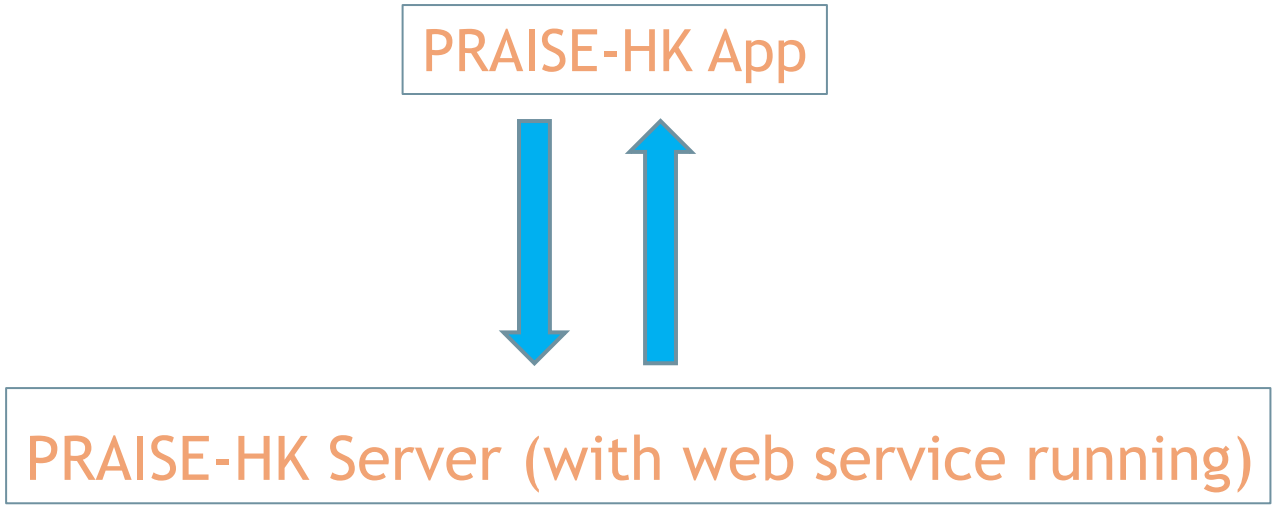
# PRAISE-HK air quality information

- High data-density (down to street level)
- High accuracy
- Able to provide 48-hour forecasted air quality information

Air quality information which includes:

1. Air Quality Health Index (AQHI)
2. % added short-term health risk (%AR)
3. Concentration of air pollutants - Nitrogen Dioxide ($NO_2$), Ozone ($O_3$), Respirable Suspended Particulates ($PM_{10}$), Fine suspended particulates ( $PM_{2.5}$), and Sulphur Dioxide ($SO_2$)

# How to access Air Quality Info on the PRAISE-HK Server?



# What is Web Service?

- A service offered by an electronic device to another electronic device, communicating with each other via the Web.
- Similar to communication between human (that using a web browser) and a web server.

# How to access the PRAISE-HK Web Service?

Use an Application Programming Interface (API)

e.g. *https://praise-web.ust.hk/uwsgi/praise-service/?todo=get_data&lng=114.155780&lat=22.338711&...*

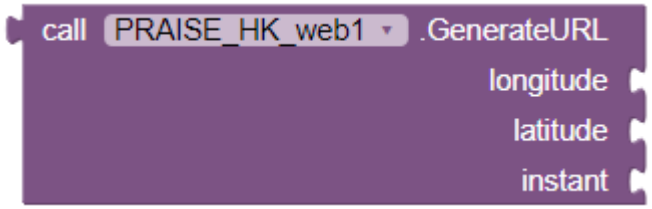
The URL is long….(***actually very long!!***):

1. Difficult to remember
2. Clumsy to input

***Solution…***

"PRAISE_HK_web" extension

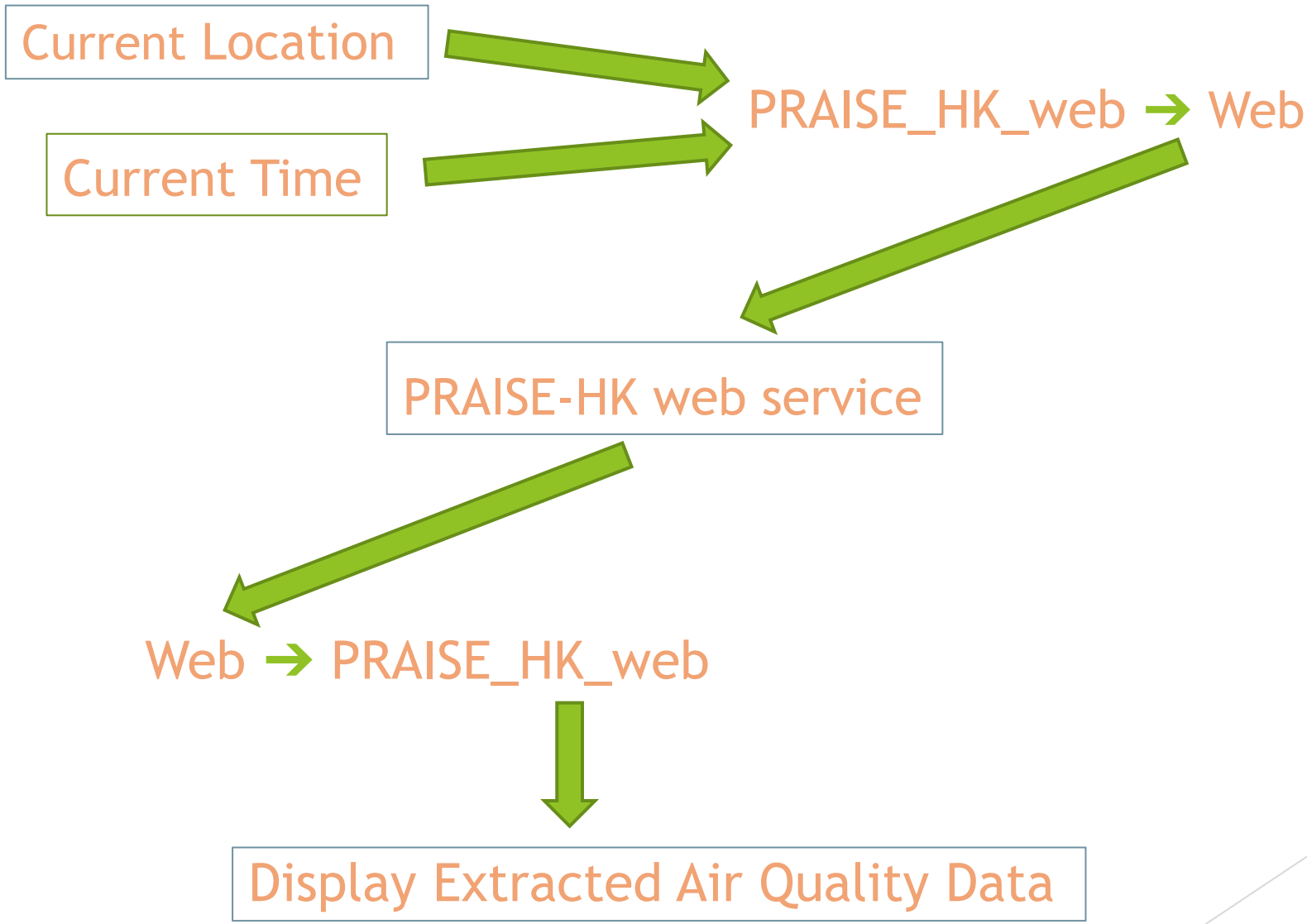
With it, just need to provide some critical parameters:




But what is *extension*?

*http://ai2.appinventor.mit.edu/reference/other/extensions.html*

# Workflow


Current Location
Current Time
PRAISE_HK_web → Web
PRAISE-HK web service
Web → PRAISE_HK_web
Display Extracted Air Quality Data