

# **Experiential learning projects in mainland**

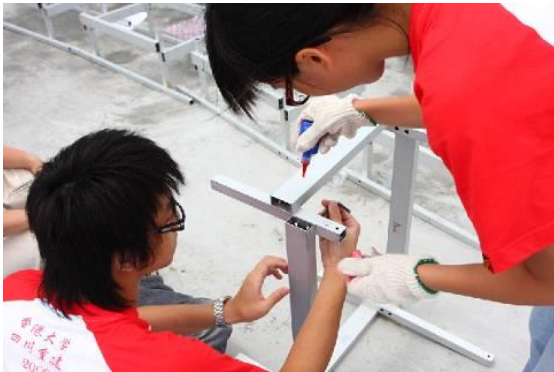
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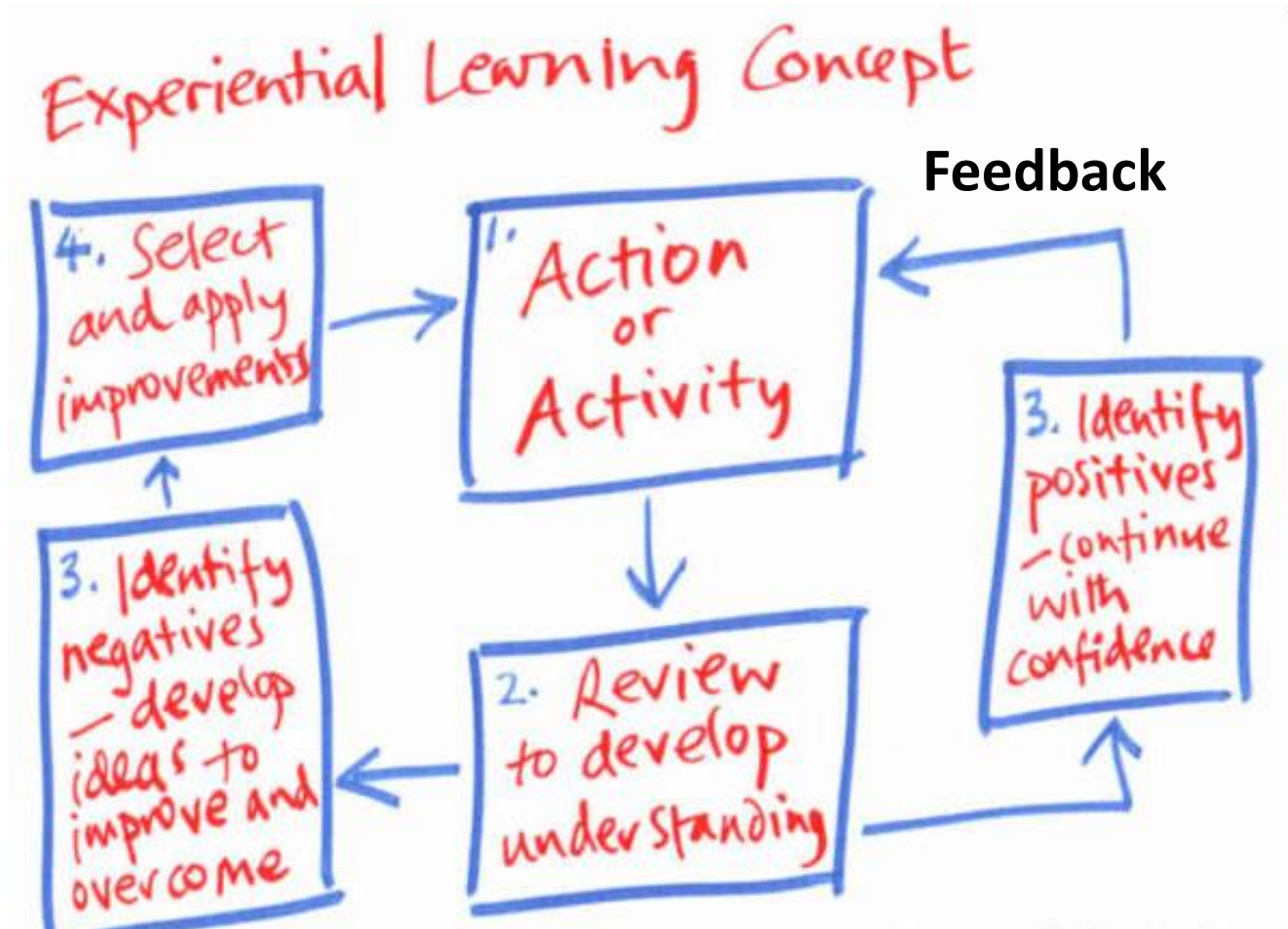
Faculty of Engineering

# What have we done?

- Applied engineering knowledge into practice
- Communication and collaboration
- Serve to learn
- Taught the students how to teach the local teachers
- Students' reflection



# Assessments and feedbacks are essential



**Feedback**

**Assessment**

# Assessment and feedback

- **Assessment:**
  - Worksheets
  - Write reflective journal
- **Feedback:**
  - Immediate face to face feedback
  - Post-trip evaluation meeting

UTP Cable Route

Outdoor Access Point

UTP Cable connected to the Computer room

For outdoor access point (on the rooftop).

1. Install a pole in the corner at the roof as specified in the above photo.
2. Install an Access Point on the pole.
3. Lay a UTP cable from the 3rd Computer room (equipment rack) to the AP location at the roof.
4. Connect a RJ45 Ethernet plug at each end.
5. Plug the RJ45 plug into the Access Point.
6. Connect one end UTP cable from the Access Point to "Power Over Ethernet" provided.
7. Connect the power adapter.
8. Connect the to the network switch in the rack.
9. Configure the SSID of the Access Point to "WiFi\_1".

Part B: Signal Measurement.

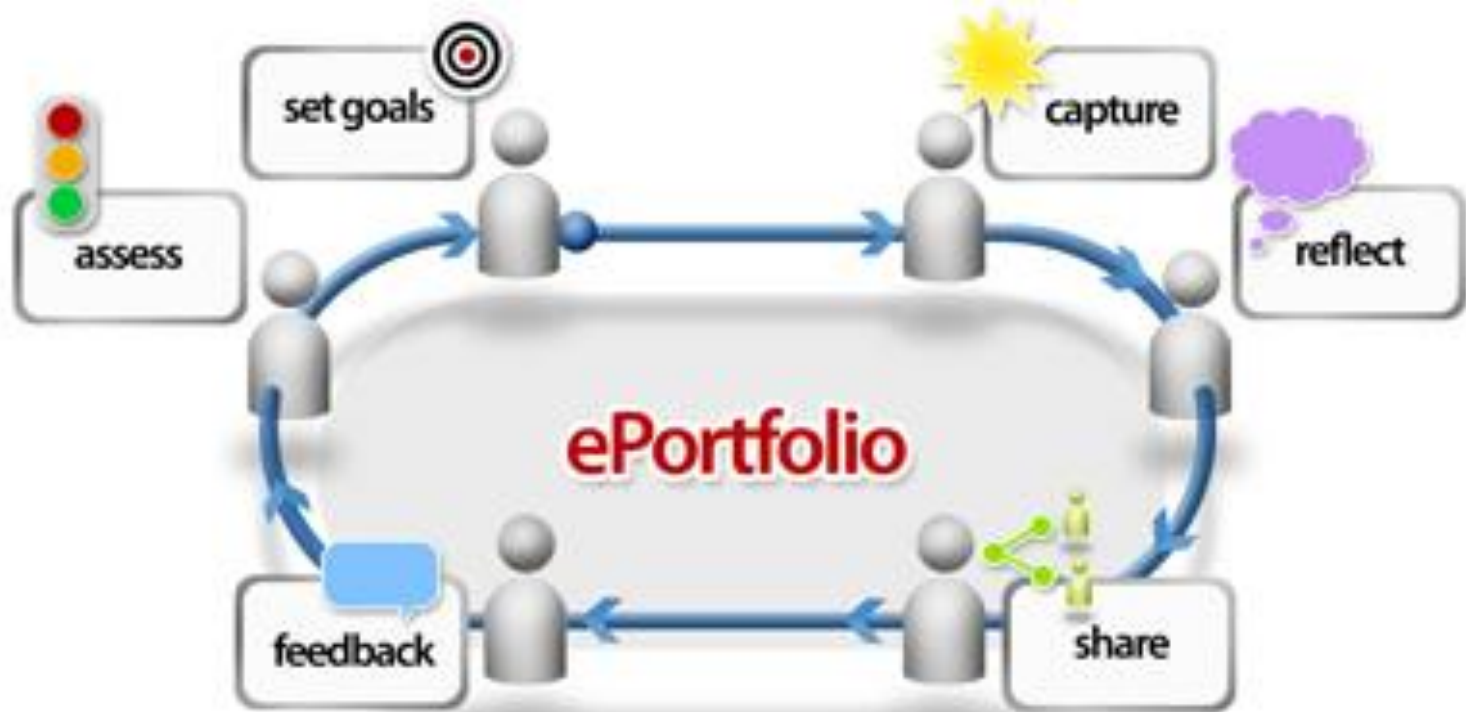
1. Install a software tool called "InSSIDer" or measuring Wi-Fi signal strength. (File is available from <http://www.muhimbi.com/Products/InSSIDer/>).
2. Walk around the position 1 to 20 m to record the signal strength (in dBm) and Channel number of each Access Point (WiFi\_1 to WiFi\_3).



# Problems:

- Difficult to give immediately feedback to every students.
- Difficult to record and capture their works

# Pilot: use mobile devices to capture



*Level 1*



Google Notebook



Digital Images in Picasa (from scanner or digital camera)



Broadcast Yourself  
Digital Video Clips  
exported from iMovie or  
PhotoBooth



Portfolio as  
Storage



*Collection*  
of Artifacts  
stored in GoogleApps



Digital Audio  
Clips (Audacity,  
Garage Band or  
digital recorder)



Google Docs



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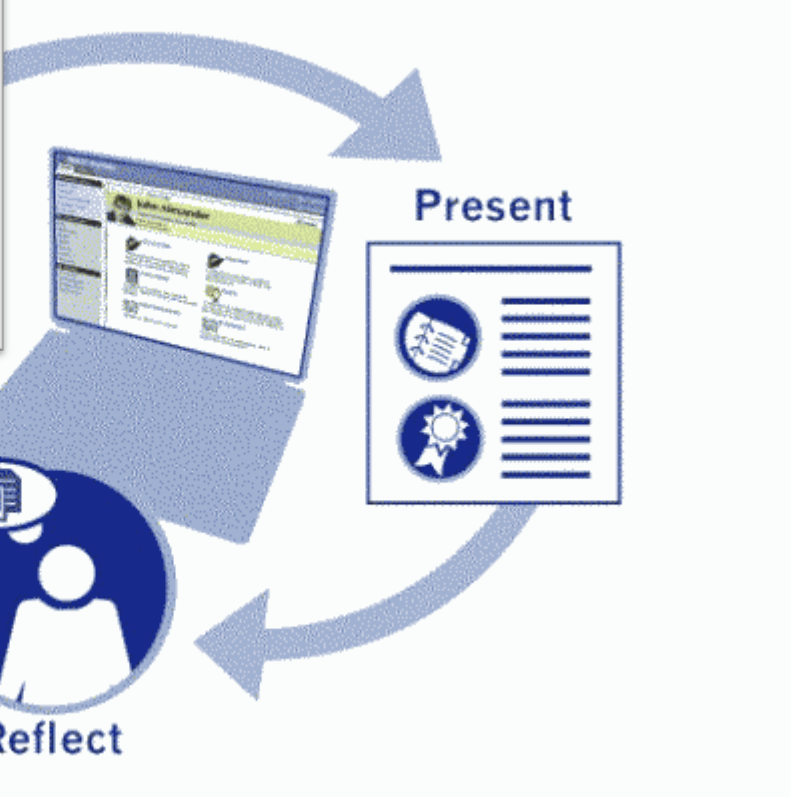
[Drawings](#)



[Forms](#)

School visit

- Topic Folder
- Draw the route to the 1st school
- Reflection on the primary school visit
- Interview with a local student
- Self-evaluation
- Rate the student interview of your teammates





Thank you

Q&A