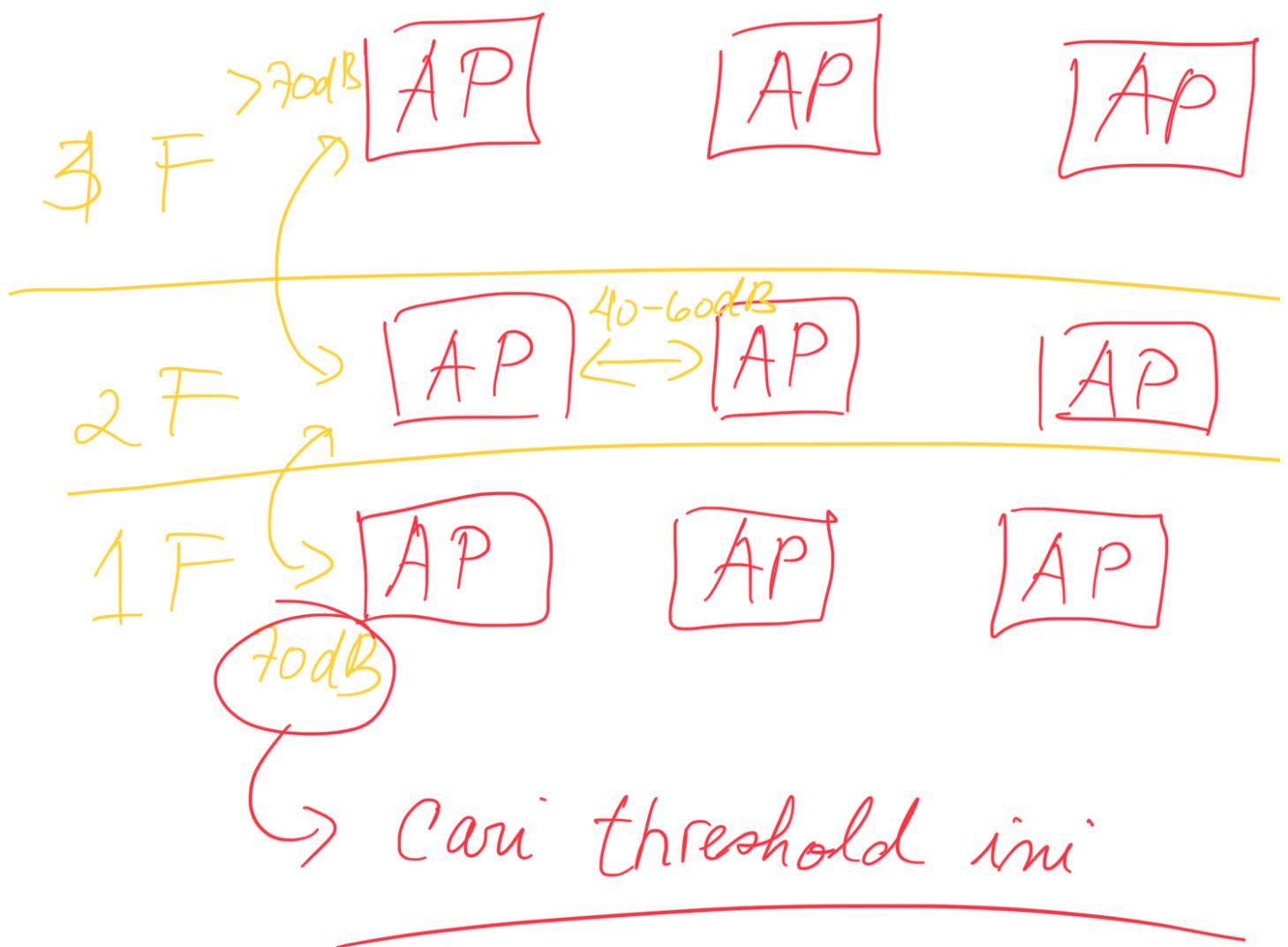


- (1) Heatmap from multiple APs
 - (2) Heatmap calibration using RSSI from adjacent AP
-



Preprocessing Steps

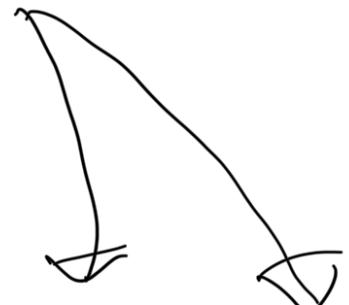
①

Labeling

→ NTUST → Extract

floor & AP # from
'ap-name'

→ UI → ?



RSSI

AP₁ AP₂ ... AP_n

Label

Floor

Room

②

Input :

2m → -60dB



- ★ ① RSSI ↑
 ② Band → 2.4GHz or 5GHz?
 ★ ③ Channel → 1 - 11 ↓
 30 ... 40.

Output :

-
- ① Floor ② Room ③ (x, y, z)

Floor Classification

a) Daniel & Ghullam
 needs it.

Skripsi potential

Alifya Thesis :

-
- ① Topic → Analysis of WiFi

Signal coverage

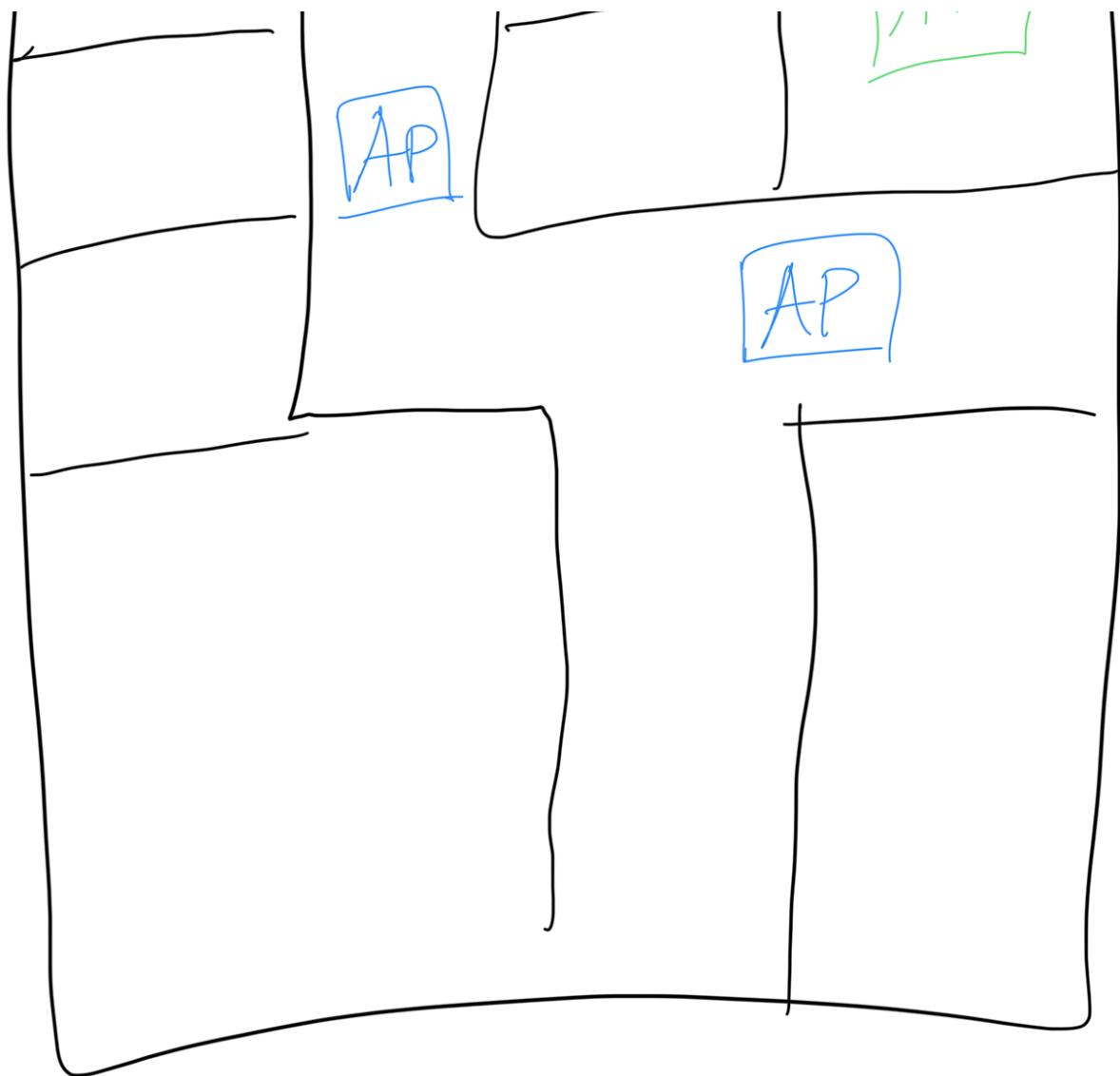
② Goals :

1) Check heatmap / AP
based on frequency &

Code tracing → EIRP (Done with Sionna)
for getting ↓
RSSI on a Path loss func
single coordinate

2) Overall heatmap from
all AP → improve Sionna





③ Heatmap-calibrator
 (RSSI, freq, AP-name)

④ Ubiquiti crawler

