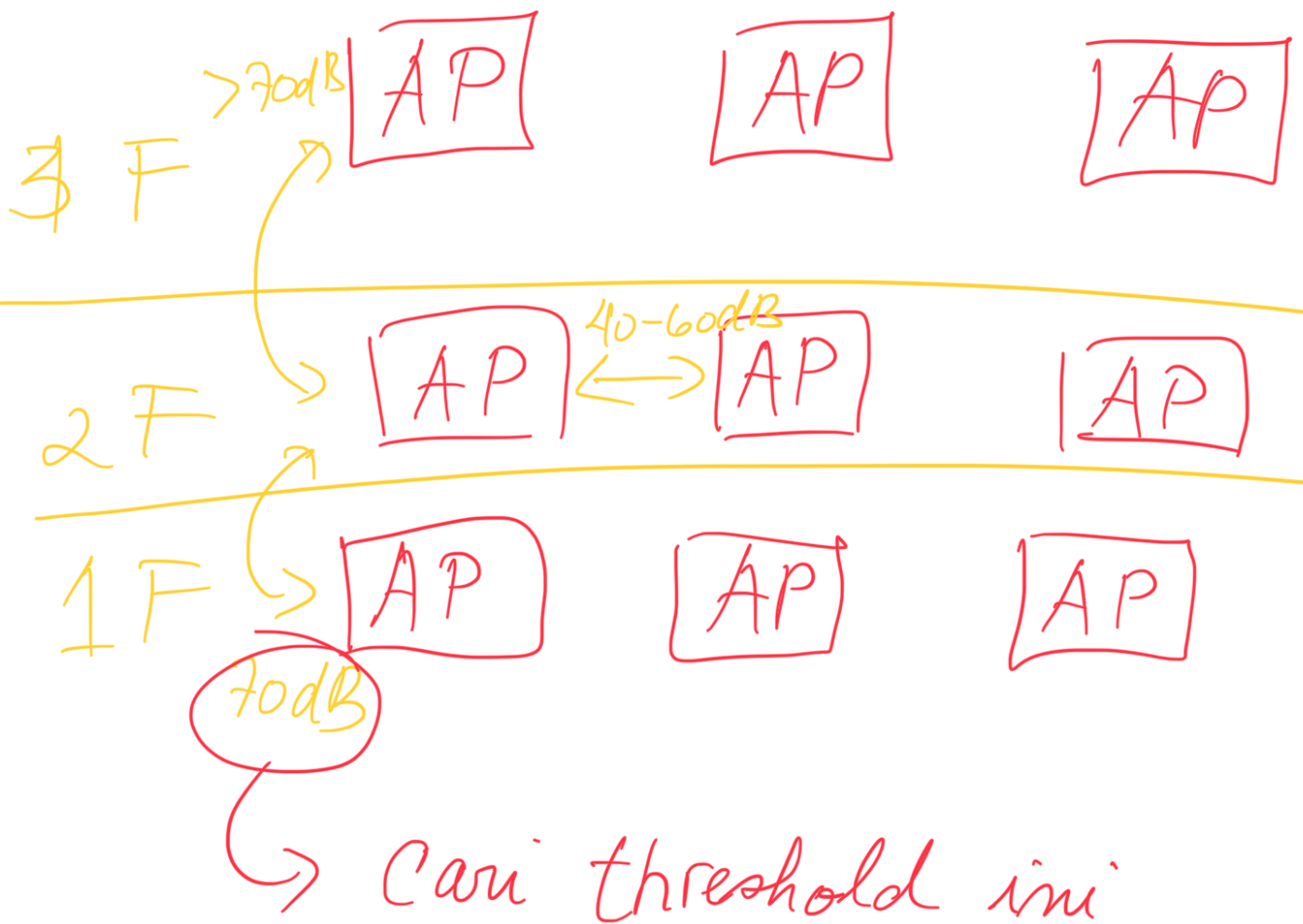


- (1) Heatmap from multiple APs
- (2) Heatmap calibration using RSSI from adjacent AP

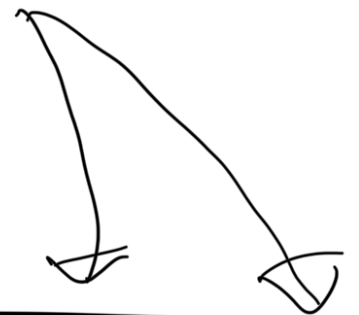


Preprocessing Steps

① Labeling

→ NTU ST → Extract
floor & AP # from
'ap-name'

→ UI → ?



RSSI				Label	
AP1	AP2	...	APn	Floor	Room

② Input :

2m → 60dB



☆ ① RSSI

② Band \rightarrow 2.4 GHz or 5 GHz?

☆ ③ Channel \rightarrow 1 - 11

\downarrow
30 ... 40...

Output :

① Floor

② Room

③ (x, y, z)

Floor Classification

a) Daniel & Ghulam
needs it.

\rightarrow Skripsi potential

Alifya Thesis :

① Topic \rightarrow Analysis of Wifi

Signal coverage

② Goals:

1) Check Heatmap/AP

based on frequency &

code tracing
for getting ↓

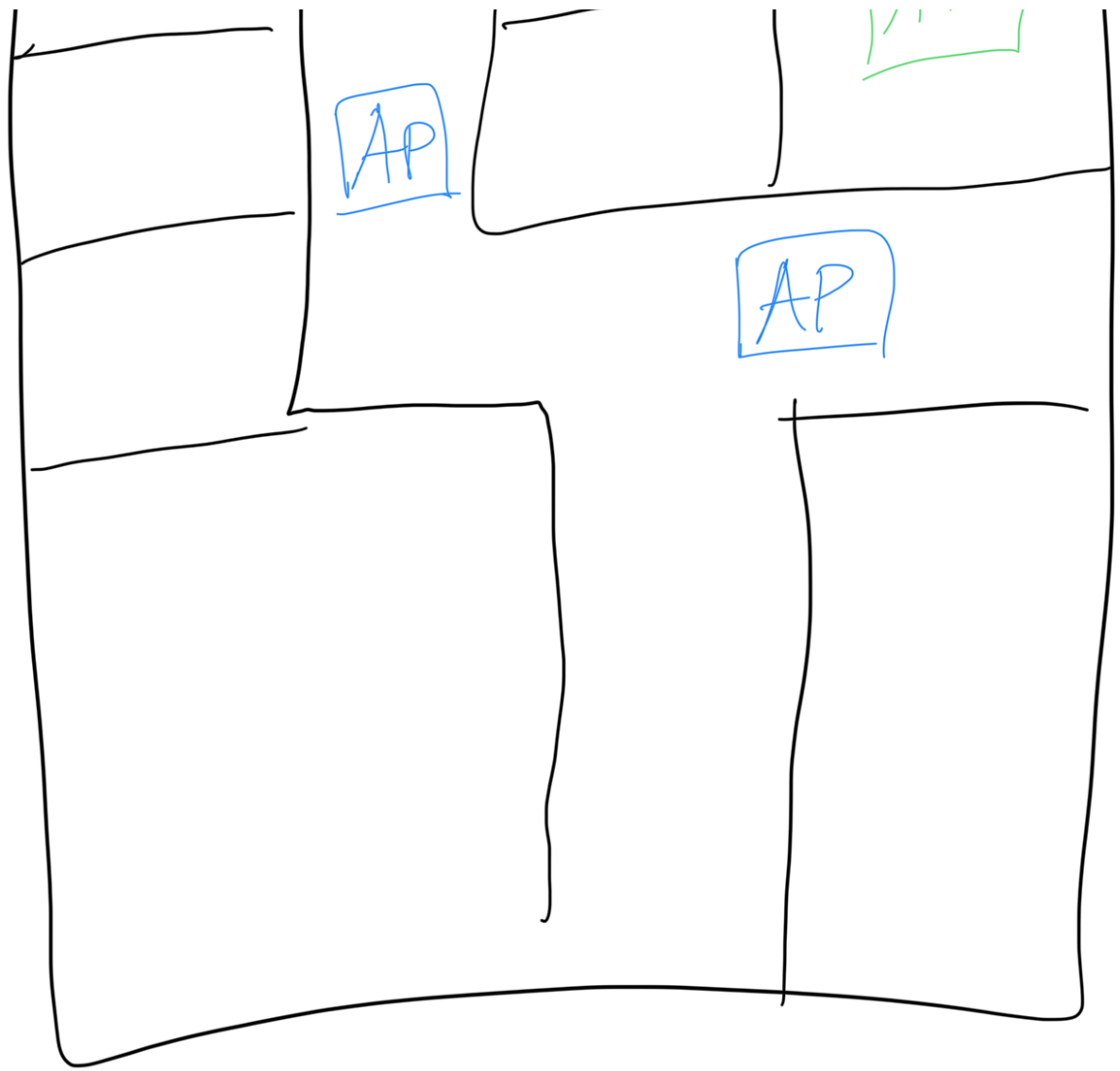
EIRP (Done with Sionna)

RS&I 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

