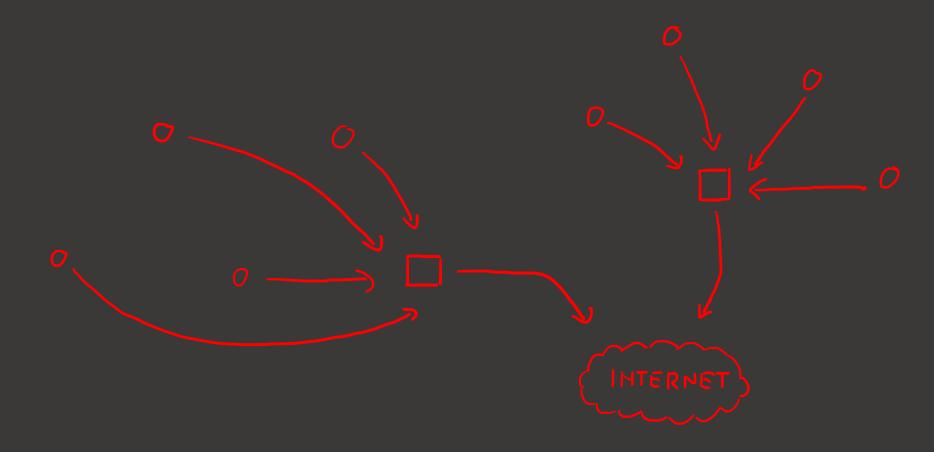
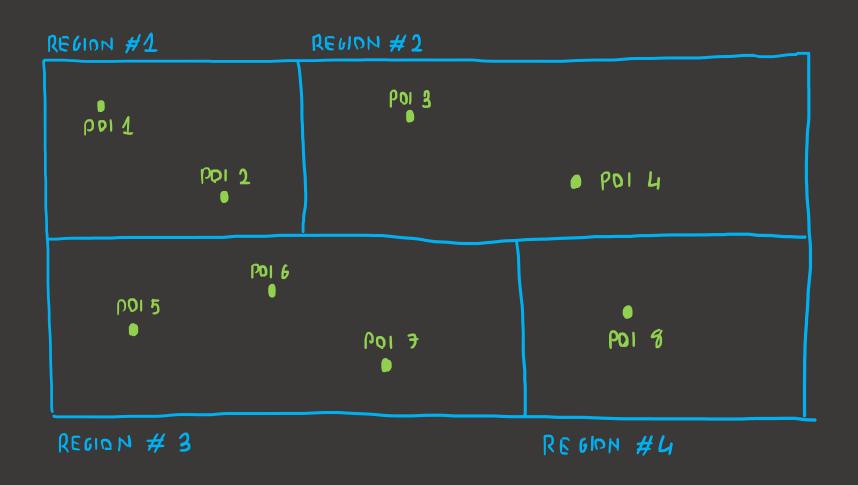
PROJECT 1

INPUT DOTA (FROM SENSORS WITH CONTIKI-NG): COORD. PAYLOAD



PRE-MEMORIZED DATA (ON BACKEND):



```
DATA PROCESSING (IN SPARK):
```

```
IMPUT RECORD COORD. PAYLOAD

DUTPUT RECORD REGION POI PAYLOAD
```

- USING COORD. IDENTIFY REGION
- THEN CALCULATE THE DISTANCE FROM COORD. TO EVERY POI IN REGION
- DICE ALL DISTANCES ARE CALCULATED, ADD THE NEAREST POI TO THE RECORD
- MARE THE RECORD PERSISTENT

THE FINAL MODEL TAKES INTO ACCOUNT THE POSSIBILITY THAT A REGION DOESN'T ALLOW DATA COLLECTION. IN THIS CASE, INPUT RECORDS ARE GENERATED IN A SIMULATED MODEL (USING MPI) AND DIRECTLY SENT TO THE BOCKEND.

