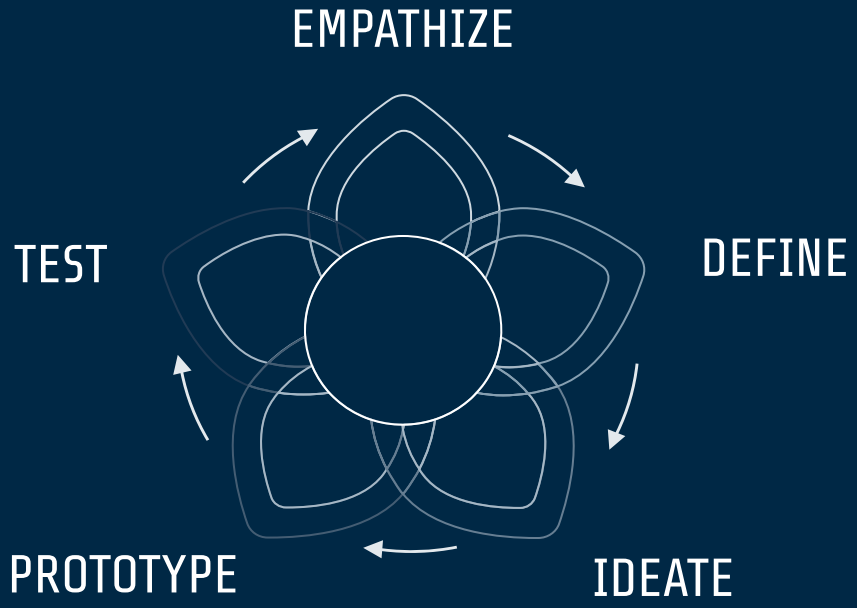
Kiana

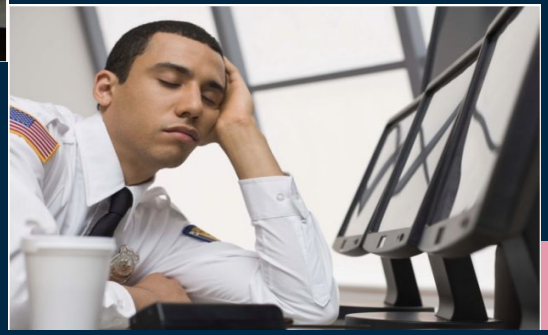
KIANA CONSULTING PHASE-I REPORT

3 x Zones

CONTENT



CURRENT SITUATION



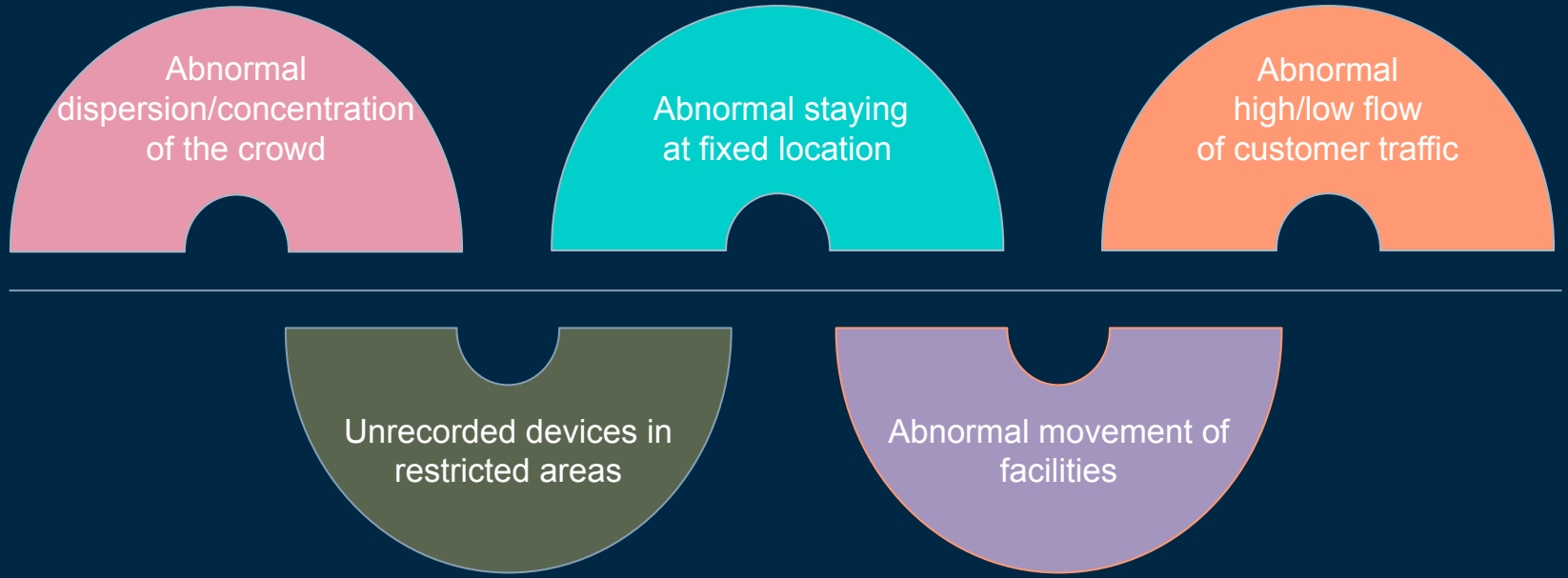
EMPATHIZE | DEFINE | IDEATE | PROTOTYPE | TEST

890,758

Number of devices
appear in TPS1 Level 2

EMPATHIZE | DEFINE | IDEATE | PROTOTYPE | TEST

DETECT ABNORMAL MOVEMENT & DENSITY



EMPATHIZE | DEFINE | IDEATE | PROTOTYPE | TEST

GOAL : Enhance the efficiency of detection and response time

01

MAINTENANCE NEEDS

02

EMERGENCY SITUATION

EMPATHIZE | DEFINE | IDEATE | PROTOTYPE | TEST

SPECIFIC APPLICATION

"When there's a fire incident or bomb threat, people will be running away from the site."

"When there's medical related emergency, the crowd will be gathering at one location."

"If a non-airport device appears in a place that is not open to the public, that might be guests entering restricted areas, either by mistake or on purpose."

"When a person is stuck in an elevator, the device remains at the same location for a long period of time."

"When the restroom or other facilities needs maintenance, the passenger flow will drop significantly."

"An airport device moves out of its normal range may be associated with equipment stealing."

EMPATHIZE | DEFINE | IDEATE | PROTOTYPE | TEST

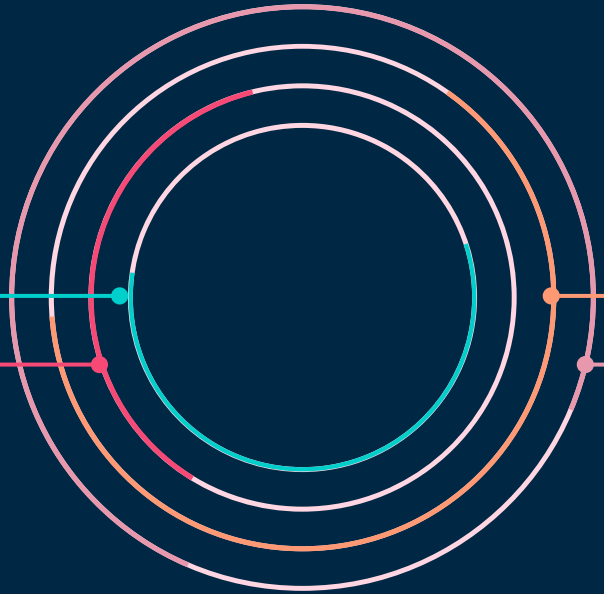
ADVANTAGES

OPERATION

Prevent maintenance issue to ensure airport's operational continuity

SAFETY

Ensure airport's and passengers' safety



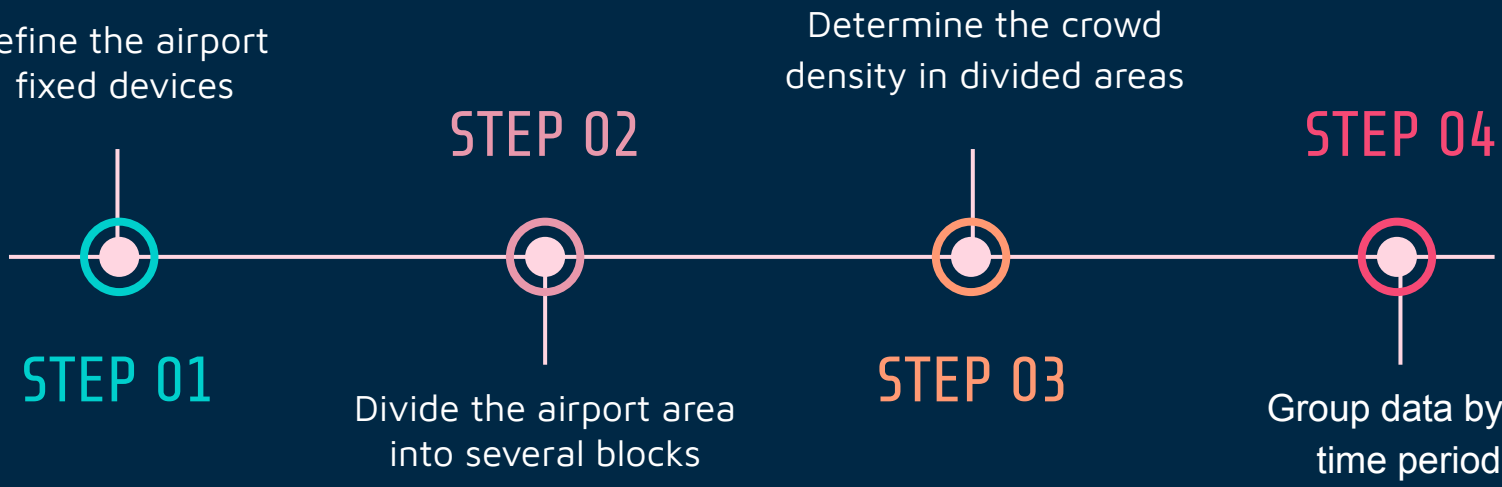
Efficiency

Reduce response time for emergency

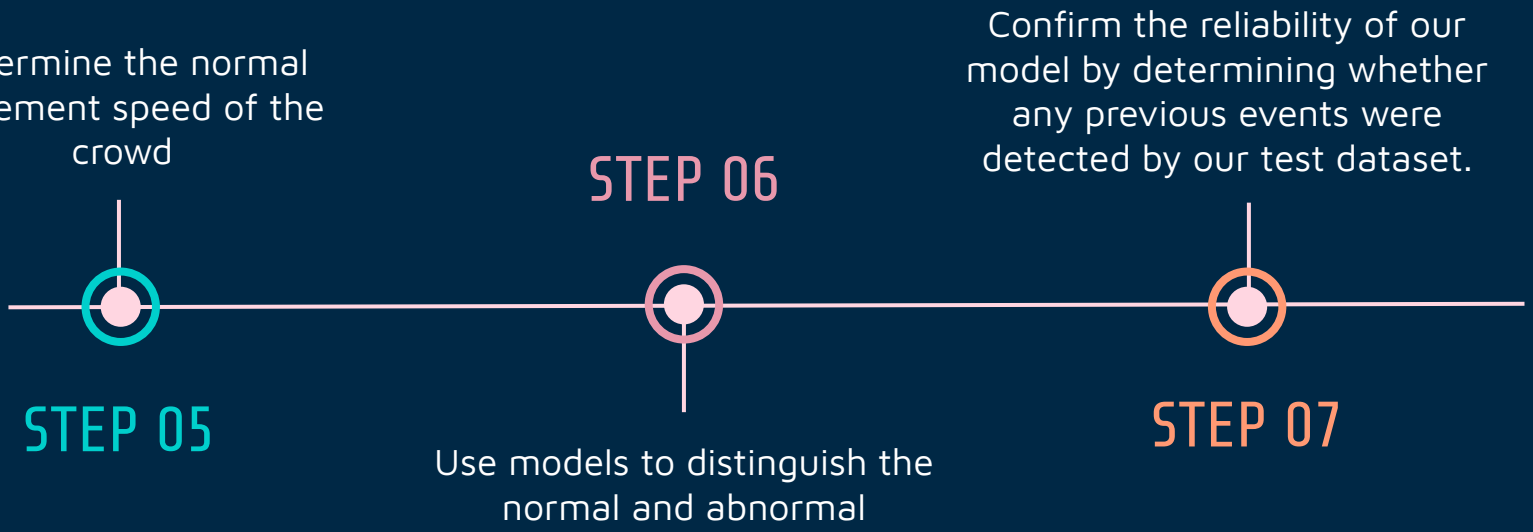
COST

Reduce manual labor cost & security cost.

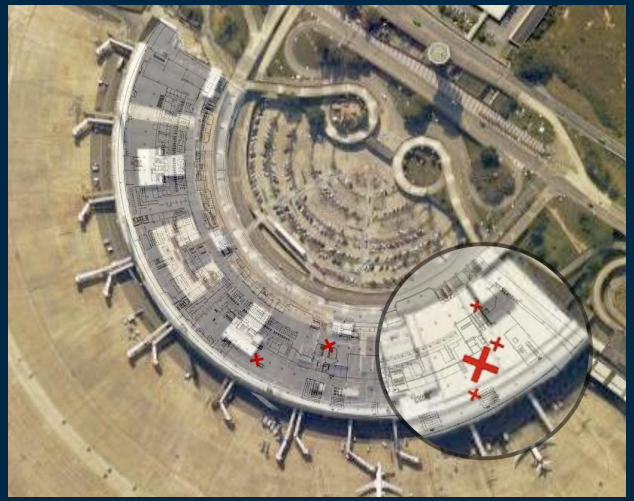
TECH APPROACH



TECH APPROACH



Fixed Devices

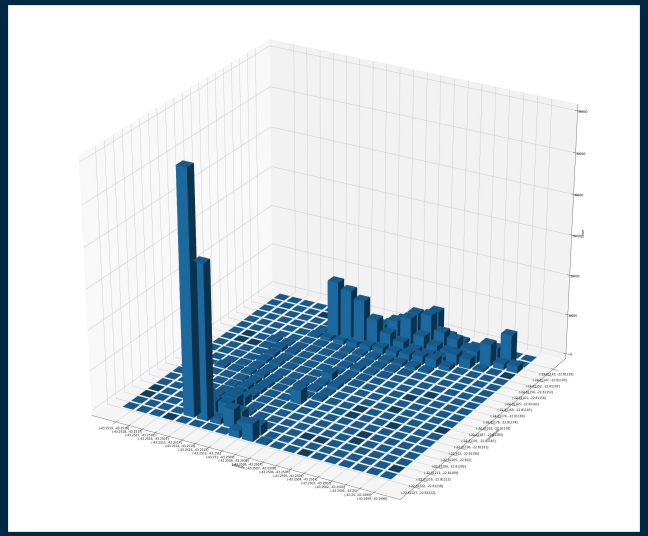


MAC Address (e.g.):

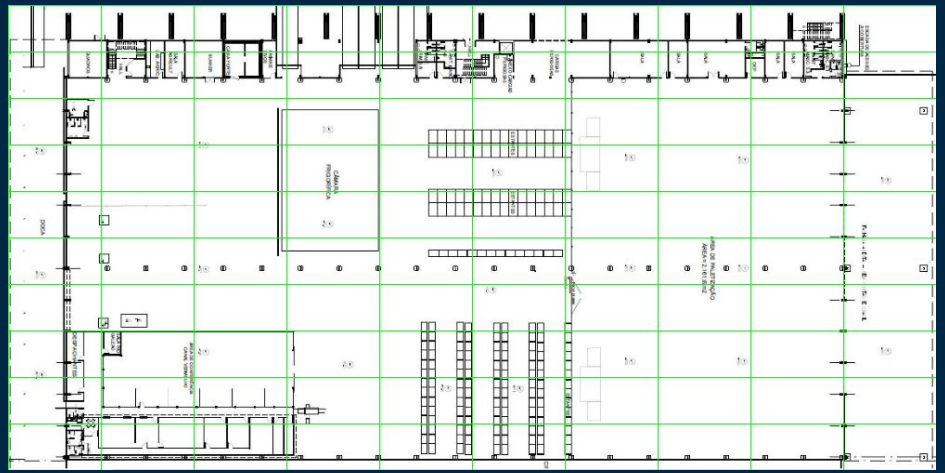
00:05:9e:97:19:b0
28:80:23:32:16:10
28:80:23:32:16:11
28:80:23:32:16:12
28:80:23:32:16:16
30:b5:c2:d4:c1:40
c0:25:e9:7e:d8:5c
c0:25:e9:7e:d8:5d
c0:25:e9:7e:d8:5e
d0:04:01:48:f9:66
fc:64:3a:24:ab:dc

EMPATHIZE | DEFINE | IDEATE | PROTOTYPE | TEST

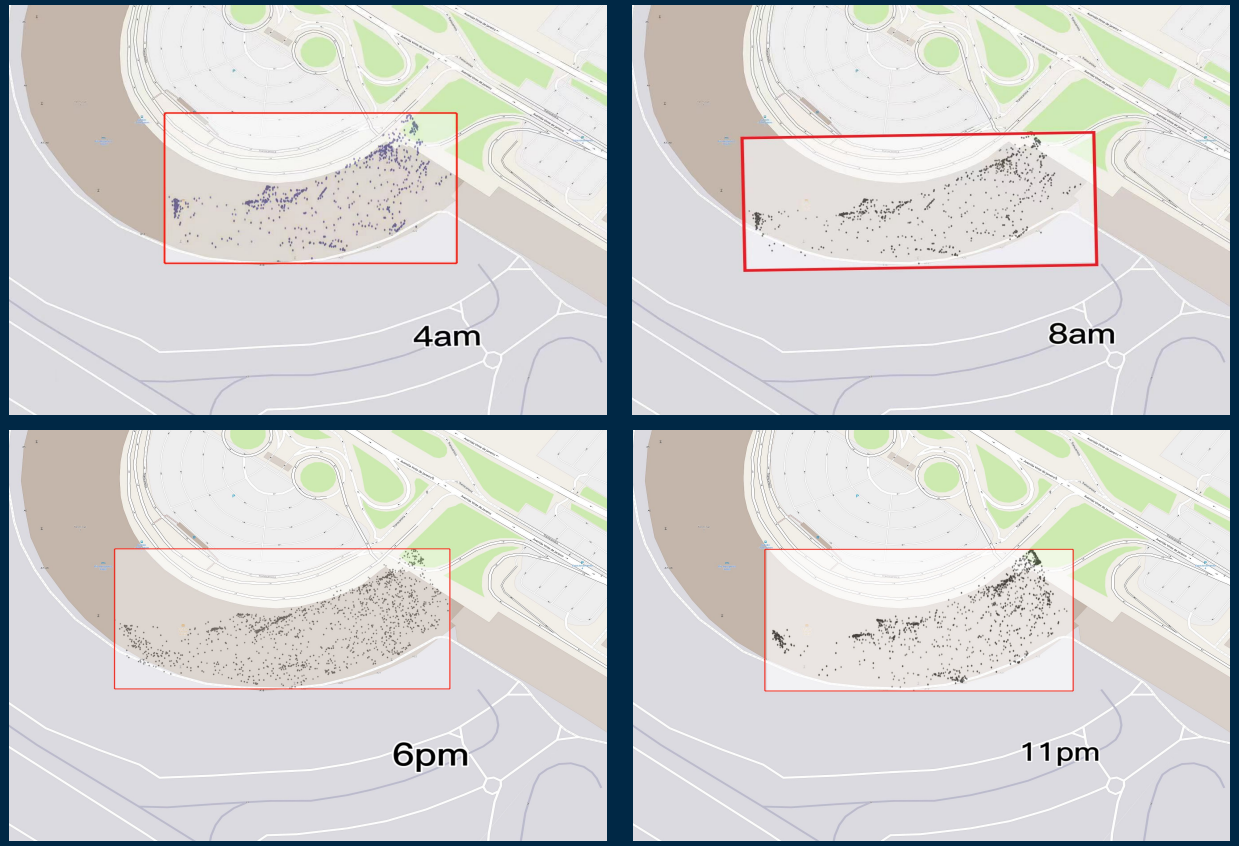
Crowd density by coordinates



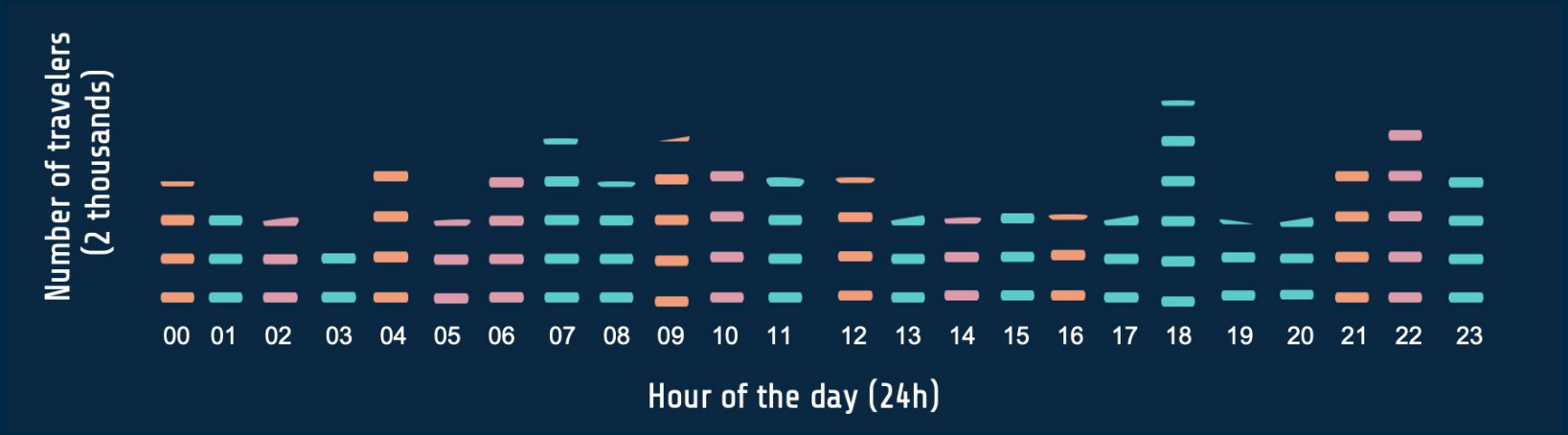
Grids



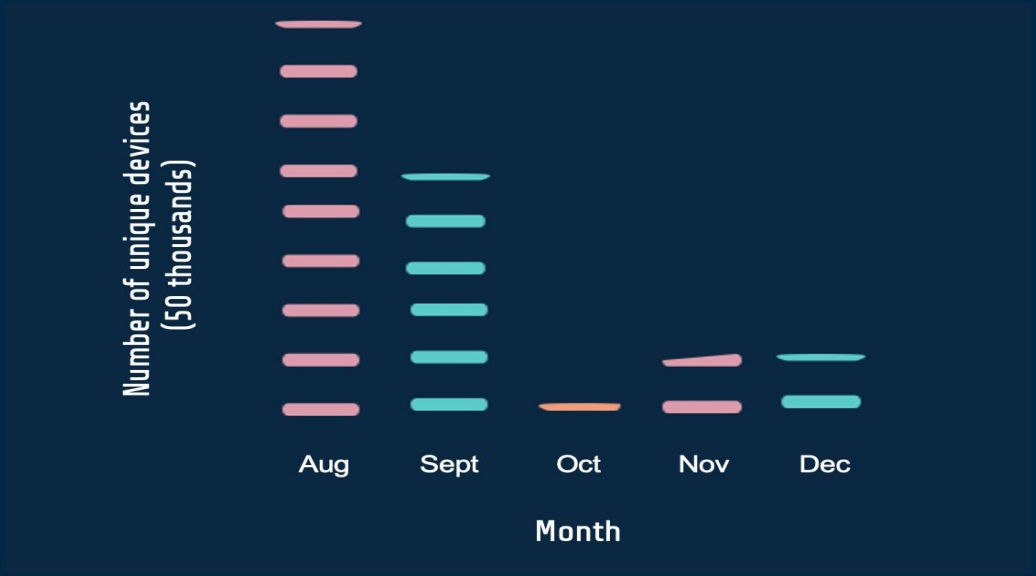
One day's Crowd Density
at 4am, 8am,
6pm, and 11pm



Average Traveler Amount by Hours



Amount of Unique Devices by Months



THANKS