Kiana Mid-point Presentations

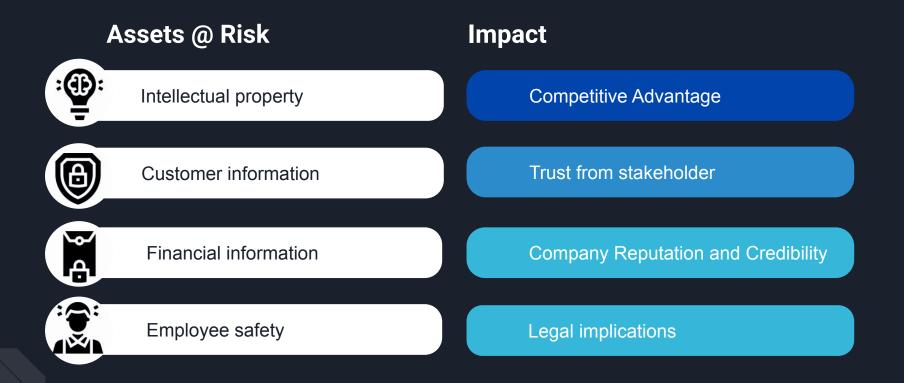
Los Angeles Consulting Group (LACG)

Agenda

- Problem Definition
- Value Proposition
- Technical Approach
- Future developments
- Q&A



In 2022, 45% of US companies have experienced a data breach



Optimize security zone is needed

WHAT?

 Restrict people without authorization accessing the specific zone

HOW?

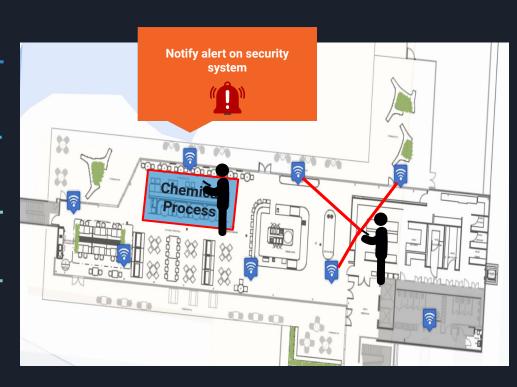
 Triangulate the location of each device within the building

WHO?

 Finance, Healthcare, E-commerce, Government, or any other industry

Require? • Area of security zones

Level of security access



Optimizing Security Can Boost Your Security Values



Protect Sensitive Info: Security zones and tracking unauthorized access keep sensitive business information safe.



Maintain Customer Trust: 56% of customers now actively show an interest in a company's cyber-resilience



Reduce Security Risk: Security zones handling hazardous materials and getting warnings when unauthorized persons enter help in reducing the risk of security breaches.



Secure Customer Assets: Optimize Security Zone helps customers feel confident that their valuable assets are safe from security breaches.

Discovering the **Extra Values** from optimizing security solution



Data Exploration

Data Summarization

All data of Kiana datasets	291,645,684	rows
Number of unique Mac ID	124,444	MacID
Number of Mac ID appear only once (random Mac ID)	722	MacID

Time Span

From 2019-08-12 18:27:04.91 UTC to 2020-09-01 23:58:49.698 UTC

Totally 384 days

Levels

Ground Floor, 1st Floor, 2nd Floor, 3rd Floor

Preparation for data research

Only Inside Building

Use latitude and longitude of the building to determine of a Mac ID inside building or not.

Mobile / Fixed

Calculate standard deviation distance per day to determine whether a Mac ID is mobile or fixed.

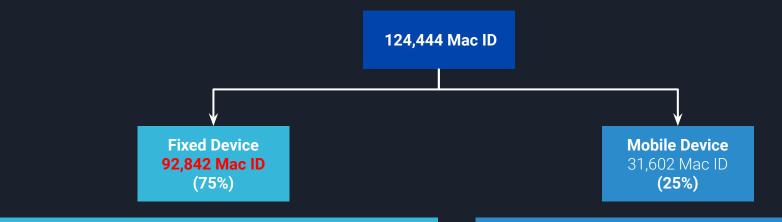
If Mobile:

Employee / Visitor

Define a Mac ID shows more than 50 days as **Employees**,

Define a Mac ID shows less than 50 days as Visitors

Data Preparation leads to the results



Mac ID show in 1 days: 68,002 (73%)

Mac ID show less than 5 days: 81,917 (88%)

Mac ID show more than 50 days: 188 (0.2%) > Office equipment

Mac ID show in 1 days: 20,088 (64%)

Mac ID show less than 5 days: 27,951 (88%)

Mac ID show more than 50 days: 1117 (3%) > Employee

Start optimizing security zone

Function 1:

Customization, Draw in any shape, Change anytime

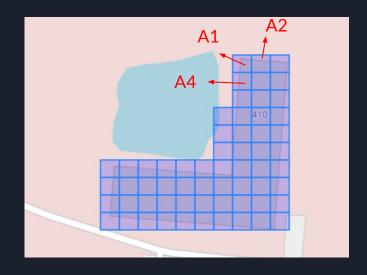
This approach helps clients with small area to manage.



Function 2:

Customization, Select areas to use, Change anytime

This approach helps clients with big area to manage.



Detect if there is an Intruder enters the security zone

Message content:
When
Where
Security's Current location
Intruder's Current location

When there is an unauthorized device has been detected inside the security zones

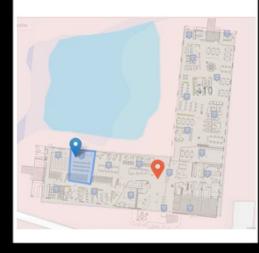
The system will send messages to the available security guy who is nearest to the location

Floor Ground Floor

Location: CEO office

Time: 2019-08-12

18:27:04.91



Summarizing our idea

- Security zoning and segmentation
- Intrusion detection
- Fault management





Thank You Q&A