Air Pollution In Yangon Before and During Covid19

Submitted By

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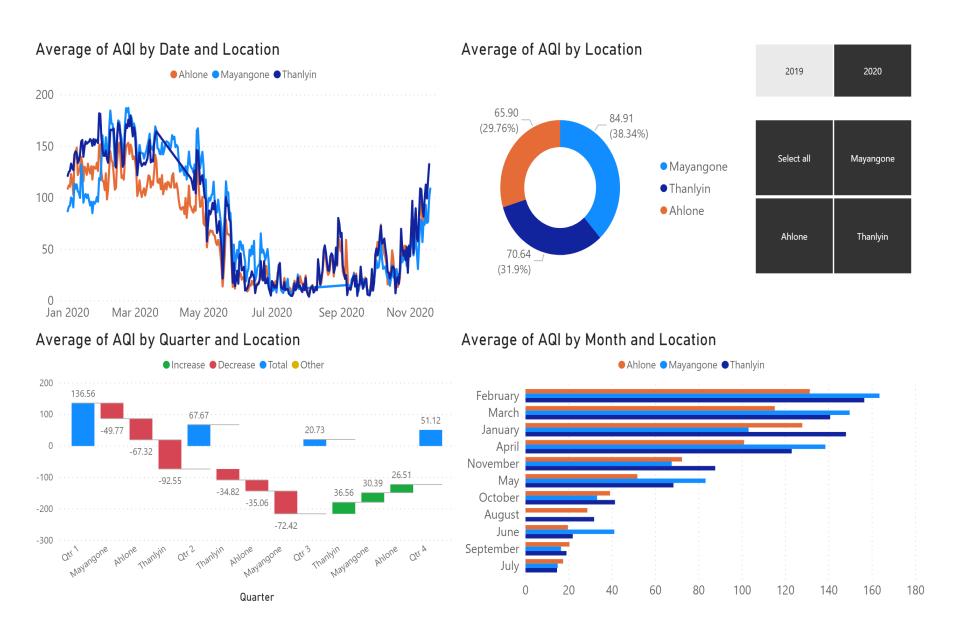
Abstract

- We use the Power Bi(Business Analytics Service) for visualization in Air Pollution Datasets.
- We use the data from the sensors around the Yangon.
- We can easily see the Air Pollution in Yangon before and during Covid19.
- We can easily see the Real Time Data Steaming for Air Pollution include humidity, temperature, PM2.5 Value, Air Quality Index and Health Level Concern.

Dataset

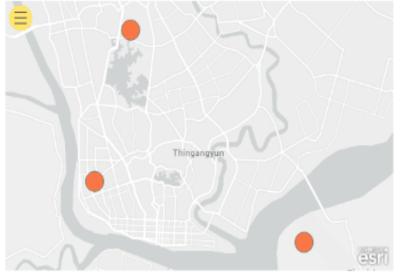
- Ahlone (Myanmar Centre for Responsible Business Sensor Outside)
- Thanlyin (Dulwich College Yangon Sensor Outside)
- Mayangone (7 Mile Sensor Outside)

Result

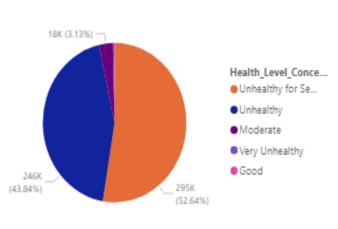


Result

Average of AQI by Location, Lattitude and Longitude

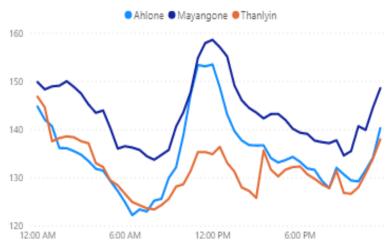


AQI by Health_Level_Concern



Select all	Mayangone
Ahlone	Thanlyin
2019	2020

Average (of	AQI	by	Time	and	Location
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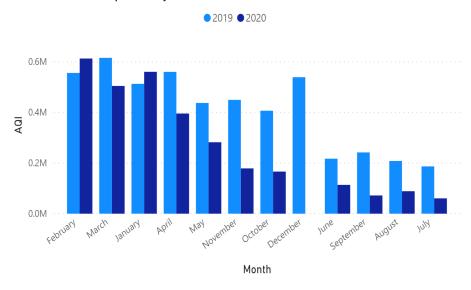


Location -	Health_Level_Concern	AQI	۸
Thanlyin	Good	321	
Thanlyin	Moderate	8368	
Thanlyin	Unhealthy	67514	
Thanlyin	Unhealthy for Sensitive Group	106827	
Thanlyin	Very Unhealthy	206	
Mayangone	Moderate	3688	
Mayangone	Unhealthy	101320	
Mayangone	Unhealthy for Sensitive Group	80704	
Mayangone	Very Unhealthy	617	
Ahlono	Good	1.42	~

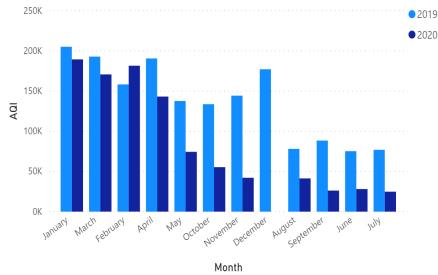
April	June				
August	March				
December	May				
February	Navember				
January	October				
July	September				

Result

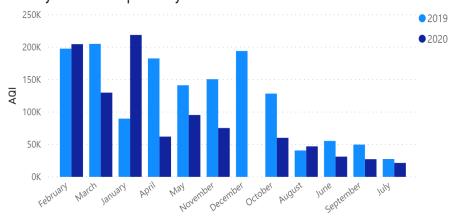
Three Township AQI by Year and Month



Ahlone Township AQI by Month and Year

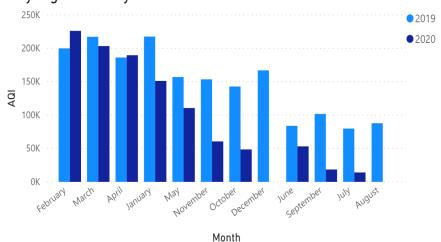


Thanlyin Township AQI by Month and Year

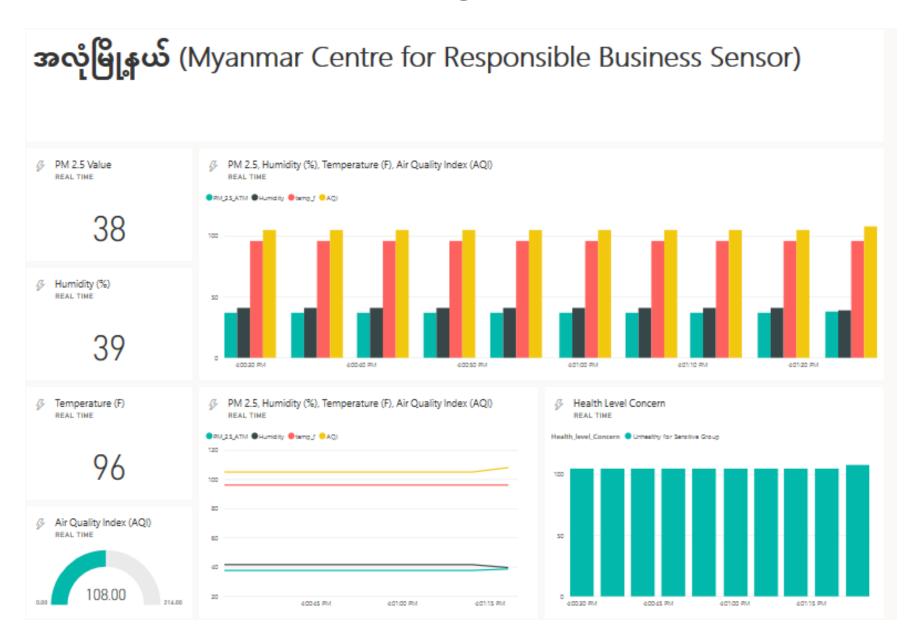


Month

Mayangone AQI by Month and Year



Real Time Data Streaming



Real Time Data Streaming

သန်လျင်မြို့နယ် (Dulwich College Yangon Sensor)



Real Time Data Streaming

မရမ်းကုန်းမြို့နယ် (7 Mile Sensor)



Vision

- We will create the web app, android app and connect with IOT hub.
- We will put the air sensors around the country.
- We will analyze the data from the air sensors
- We give the knowledge to the user by visualization via web app, android app.
- As a product level, we will create the mini air purifier.

Thank u for your attention