



Analysis of

PAX, FREIGHT AND MAIL
REVENUE

Comparison of the top Australian Cities by the Pax Revenue and by the number of flights

- **Canberra** is the 9th city with by the **total revenue**, but only 12th by the **number of flights**. It shows a high effectiveness of the local business.
- **Clarins** is the 5th city by the **number of flight**, but it is only 7th city by **total revenue**. The low performance of this city might be investigated in the future.

	AustralianPort
Sydney	5987
Melbourne	3753
Brisbane	3279
Perth	1668
Cairns	870
GoldCoast	779
Adelaide	722
Darwin	487
Norfolk Island	101
Townsville	57
Port Hedland	47
Canberra	47
Sunshine Coast	29
Toowoomba Wellcamp	20

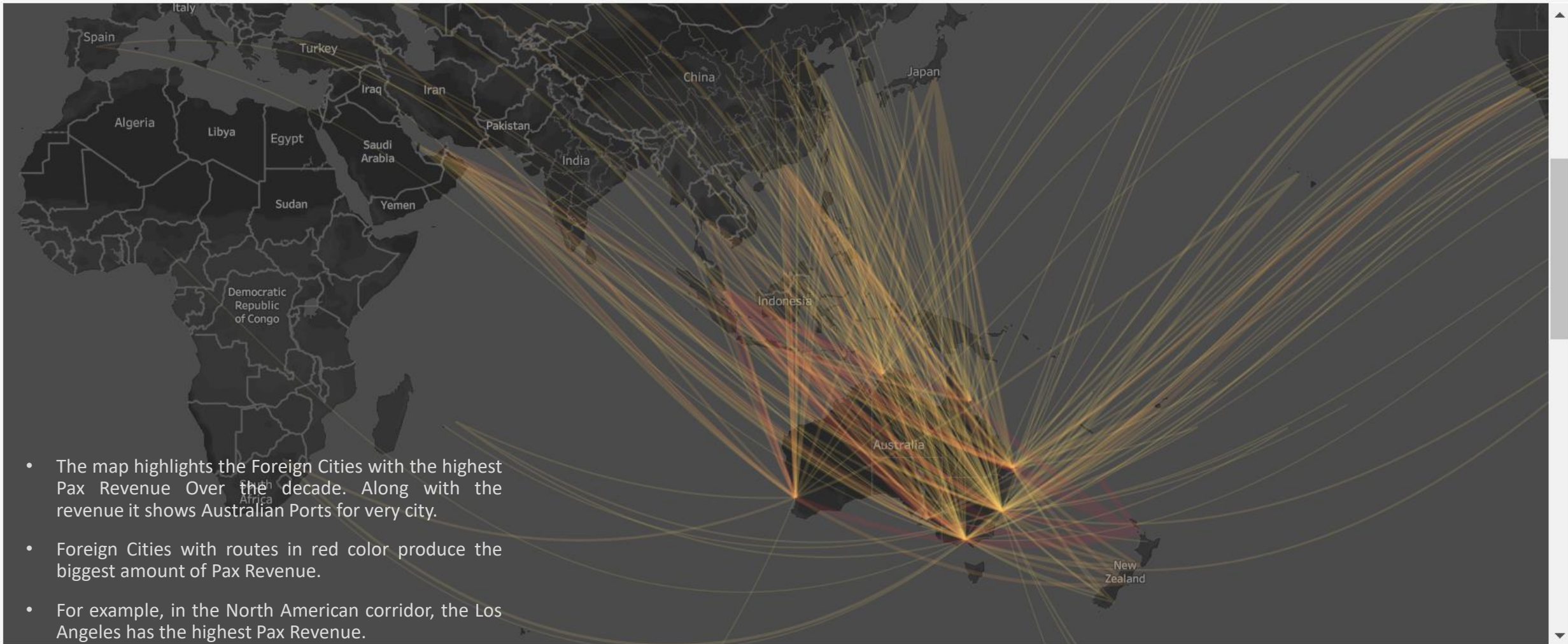
Australian Cities by the number of Flights

	TotalPax	AustralianPort
0	125854224.0	Sydney
1	73939755.0	Melbourne
2	46294219.0	Brisbane
3	36071308.0	Perth
4	8340836.0	GoldCoast
5	7284587.0	Adelaide
6	5041565.0	Cairns
7	2656972.0	Darwin
8	156849.0	Canberra
9	126166.0	Townsville
10	90480.0	Norfolk Island
11	69189.0	Sunshine Coast
12	29641.0	Port Hedland
13	5435.0	Toowoomba Wellcamp

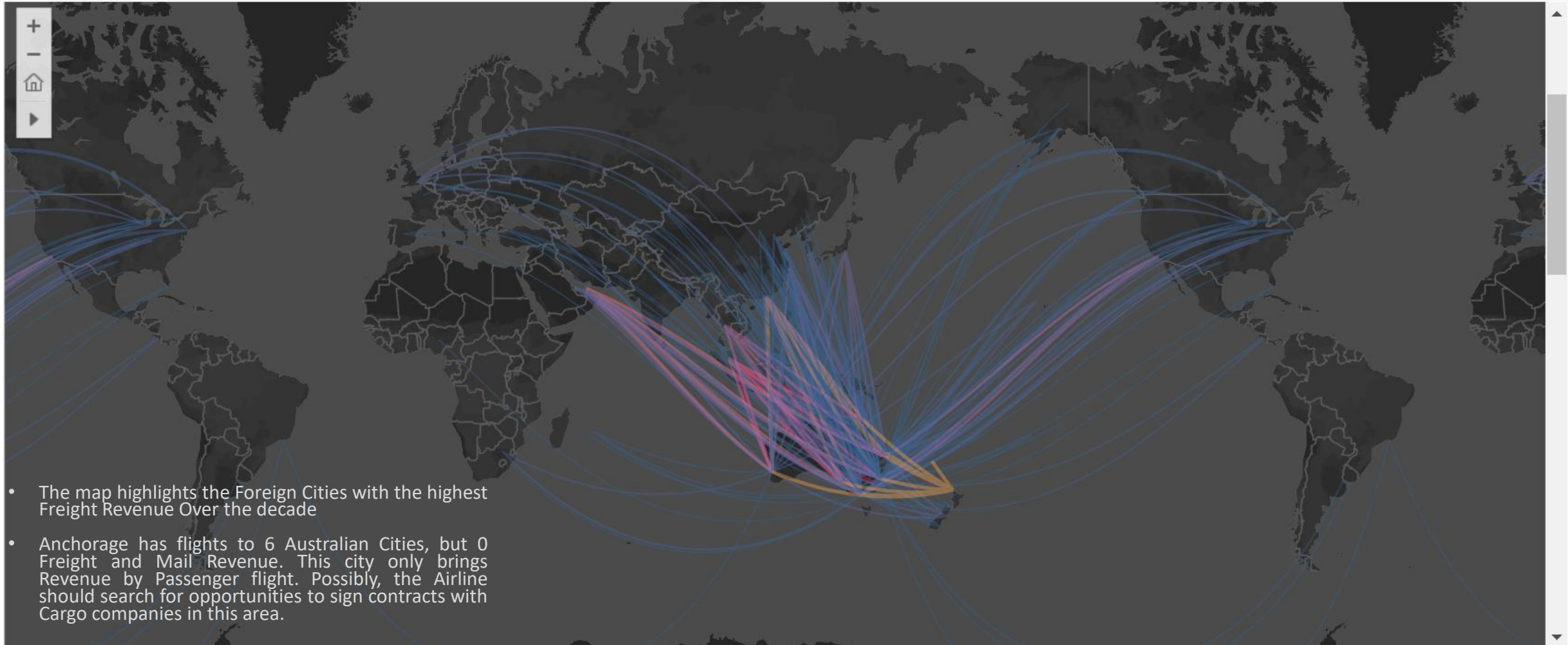
Australian Cities by the Pax Revenue



Total Pax Revenue



Total Freight Revenue

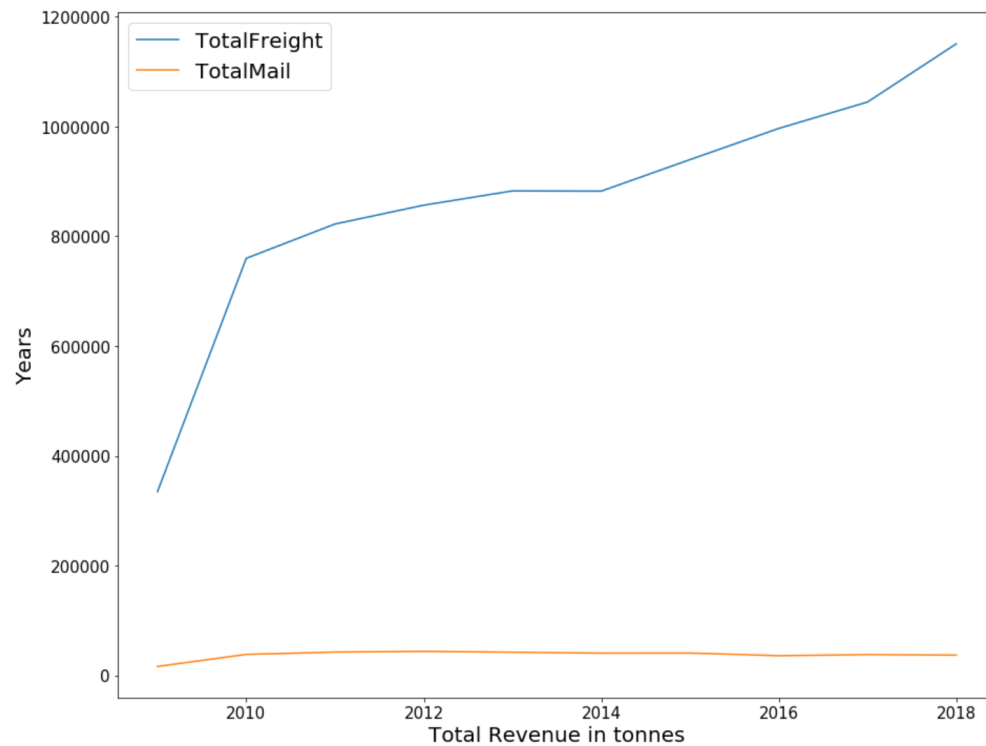


Total Mail Revenue



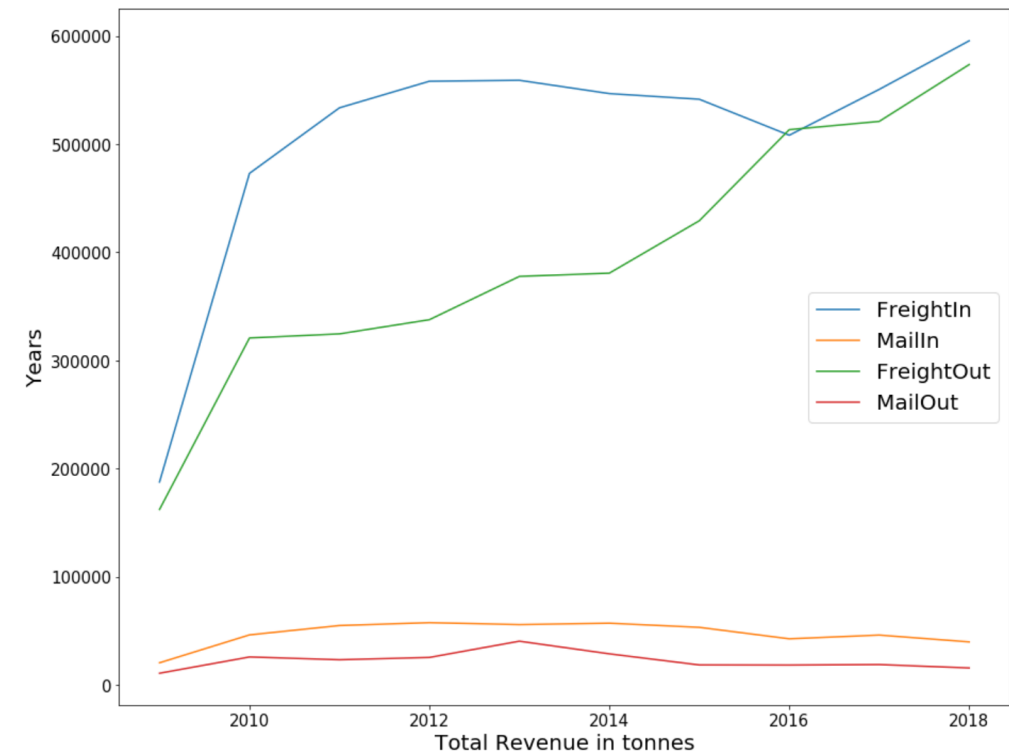
Freight and Mail Revenue dynamic

The **Total Freight Revenue** is expected to grow in the next year following eight-year trend. This might require **additional Cargo capabilities** and have a potential for development in the future.



The **Freight Revenue Out** from Australian cities has a **long-term growth** dynamic since 2010.

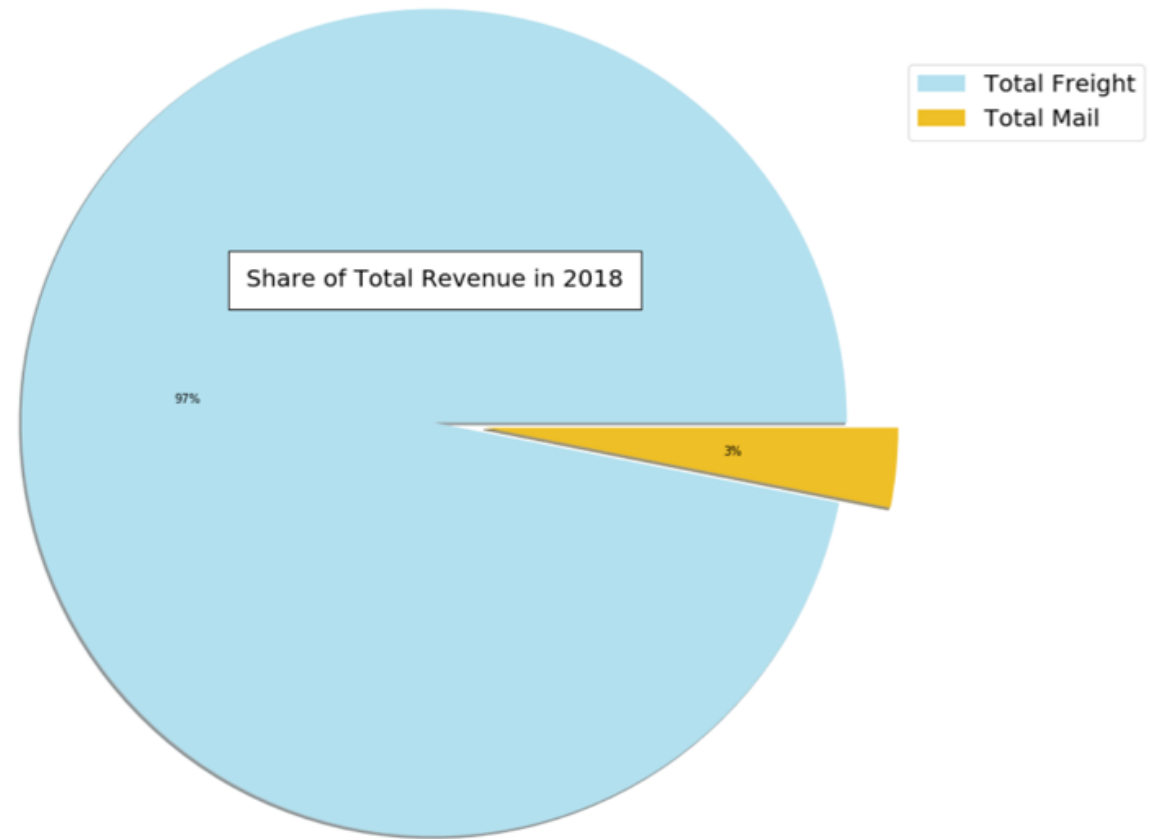
The **Mail cargo** is not expected to have an increase in the revenue in the future.



Total Freight and Mail Revenue ratio in 2018

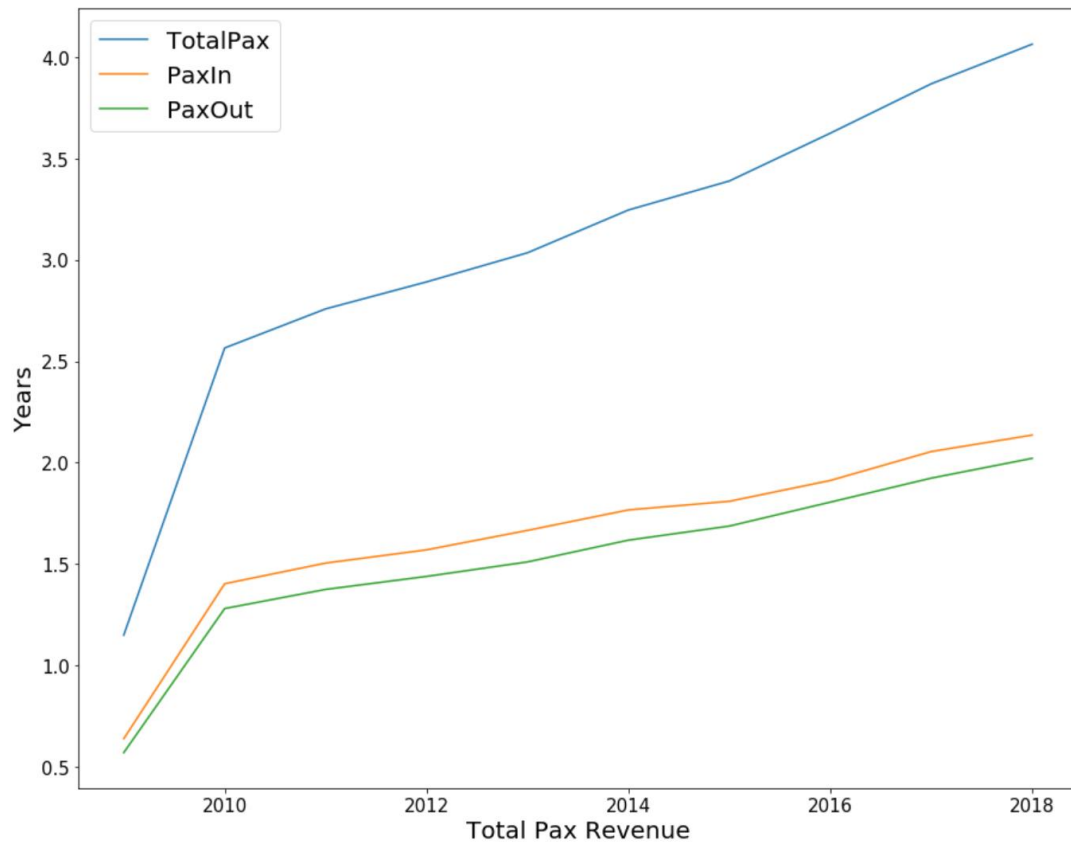
The Freight is the **more significant** part of the total revenue than **Mail**.

Since the Mail Revenue is not going to grow in the future, the **Freight Revenue** is expected **to increase its share**.



Pax Revenue

Dynamic over the decade

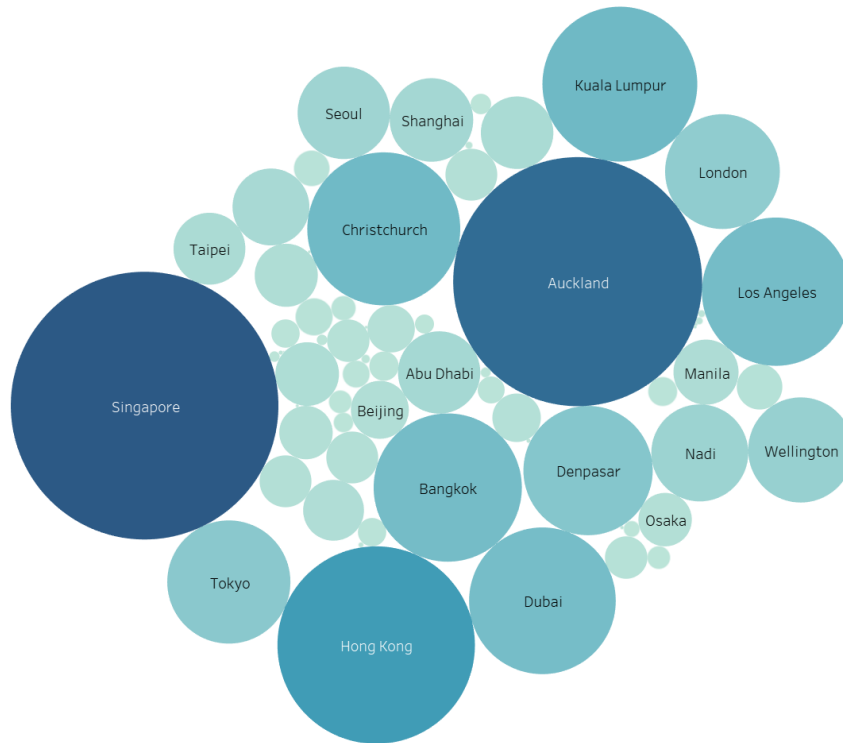


The **Total Pax** Revenue has been **doubled** since 2010.

The ratio between passenger in and out of Australian cities is close to 1. This means a uniform revenue for in and out flight. This dynamic is very strong and expected to keep stay the same in the next year.

Pax Revenue in 2009 and 2018 comparison

2009



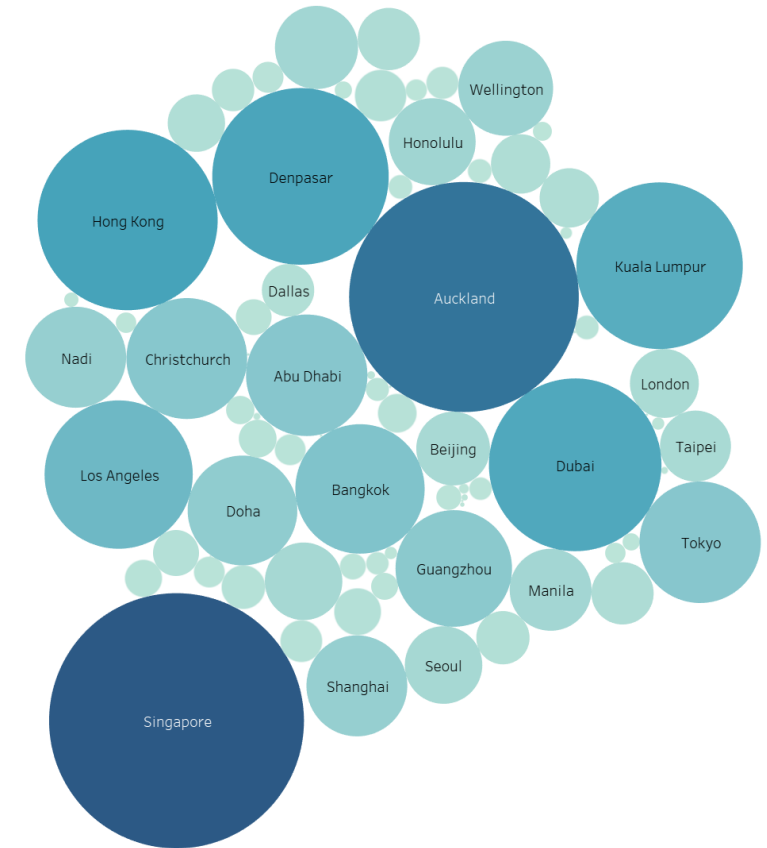
The **Singapore** and **Auckland** continue to be the top countries by the Pax Revenue.

The 3rd leading city in 2009 is **Hong Kong**.

But in 2018 the **Hong Kong** shares this position with three other cities: **Denpasar, Kuala Lumpur and Dubai**.

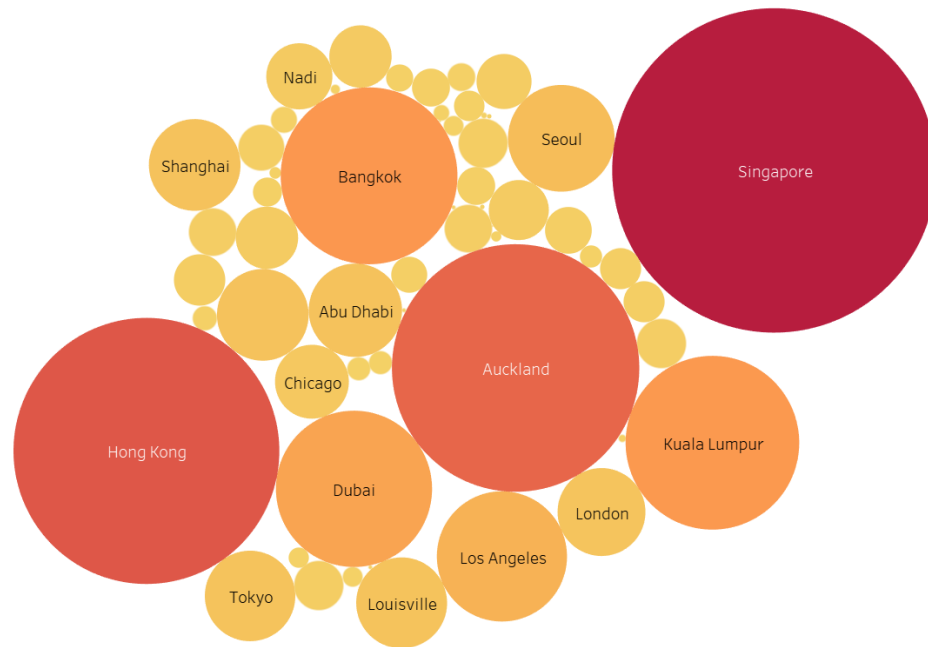
All three of them should be considered as a highly important for the Pax revenue in the future.

2018



Freight Revenue in 2009 and 2018 comparison

2009



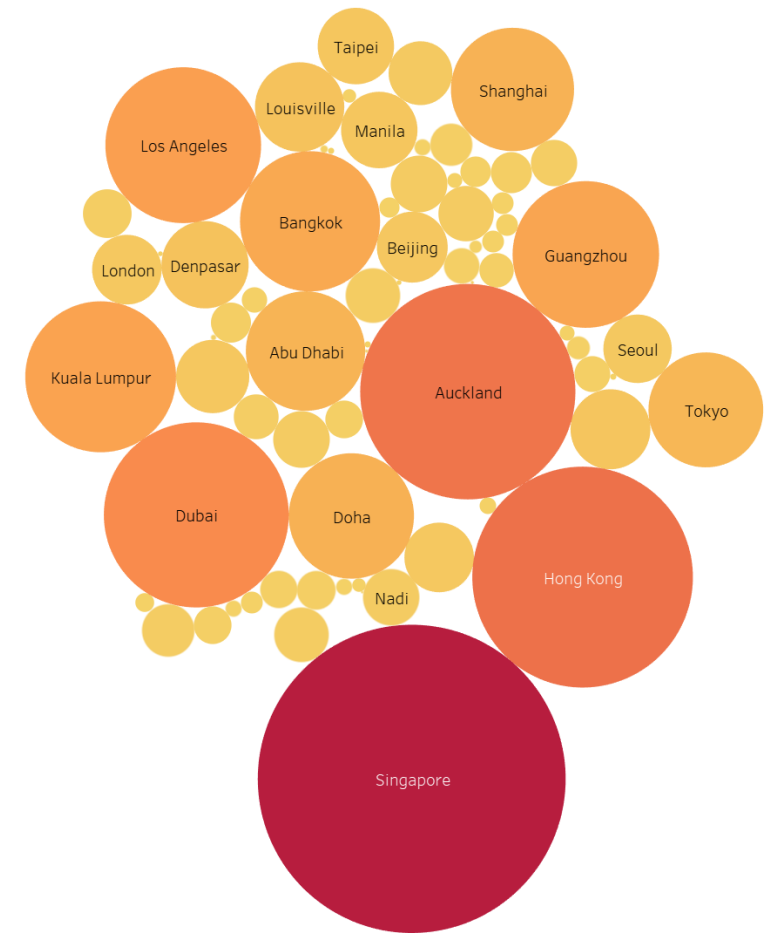
The **Singapore** continues to be the top country for the Cargo Revenue.

The Second Leading cities **Hong Kong** and **Auckland** made a small step back.

In 2009 **Bangkok** and **Kuala Lumpur** had a strong 4th and 5th position, but year 2018 shows that **Dubai** could be a very important destination for Cargo.

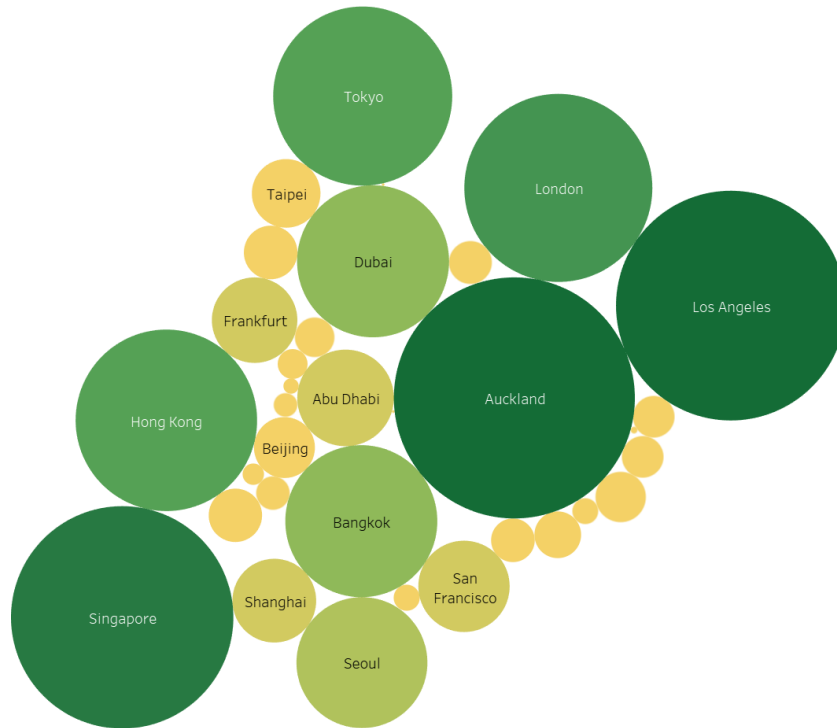
The **Dubai** should be considered a top Revenue potential city in the next year and onwards.

2018

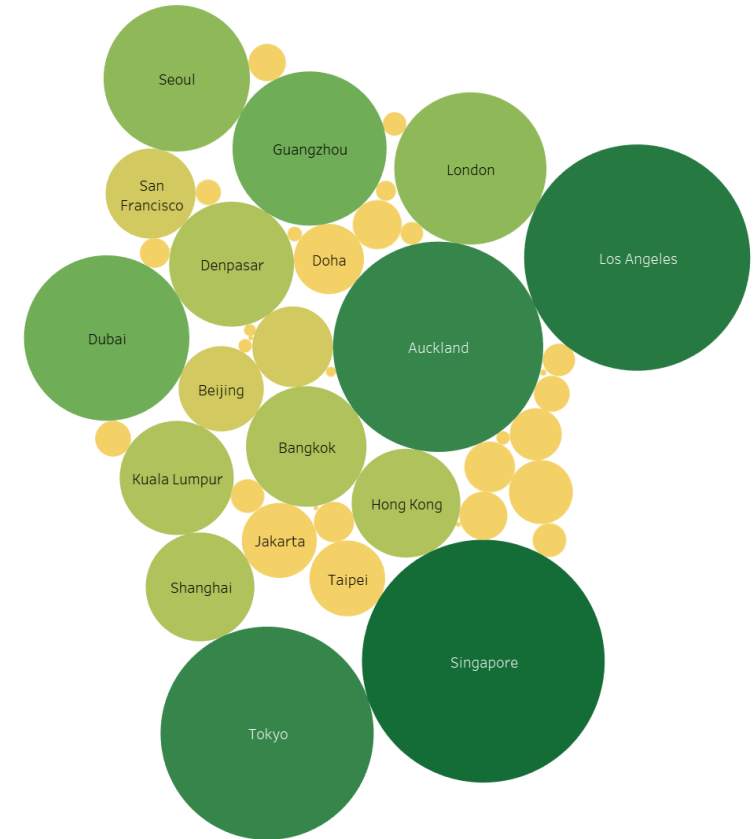


Mail Revenue in 2009 and 2018 comparison

2009



2018

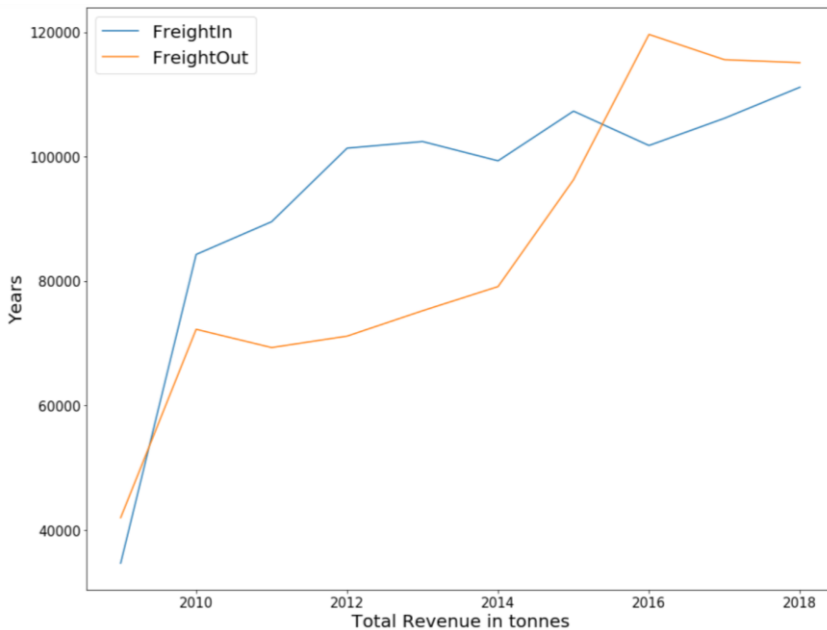


The **Singapore** has become the leading city for the mail revenue in 2018.

The next leading cities are **Los Angeles** and **Auckland** stepped down a little bit, but were joined by the **Tokyo** in 2018.

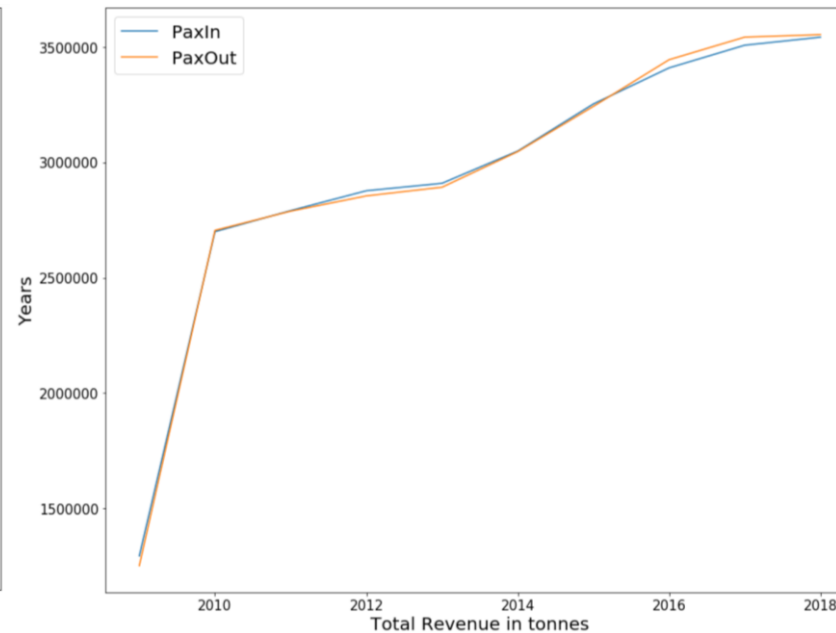
Guangzhou and **Seoul** both grew the annual revenue in comparison to 2009.

Total Freight Revenue Singapore



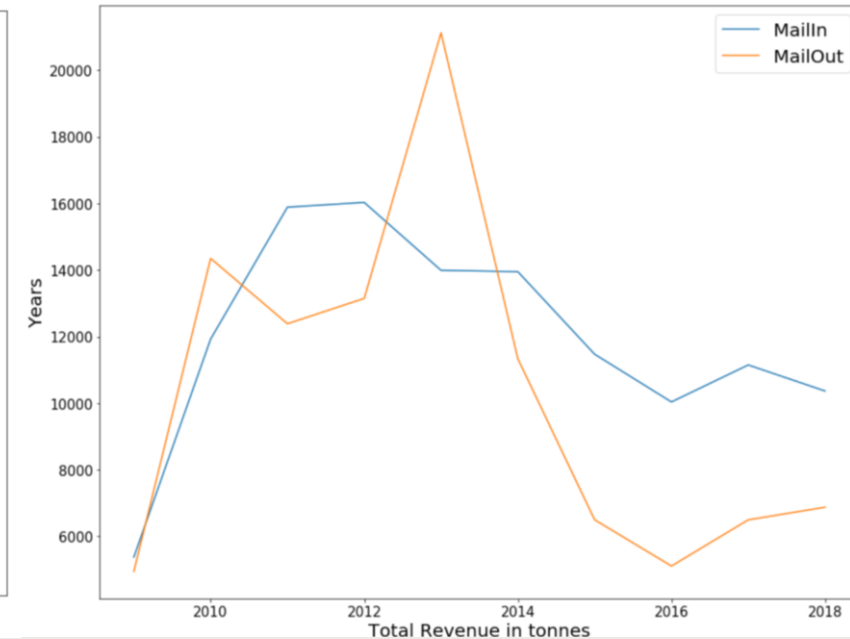
The **Total Freight** Revenue for **Singapore** shows a stable level over the last few years and **did not** experience a significant **growth** in the future.

Total Pax Revenue New Zealand



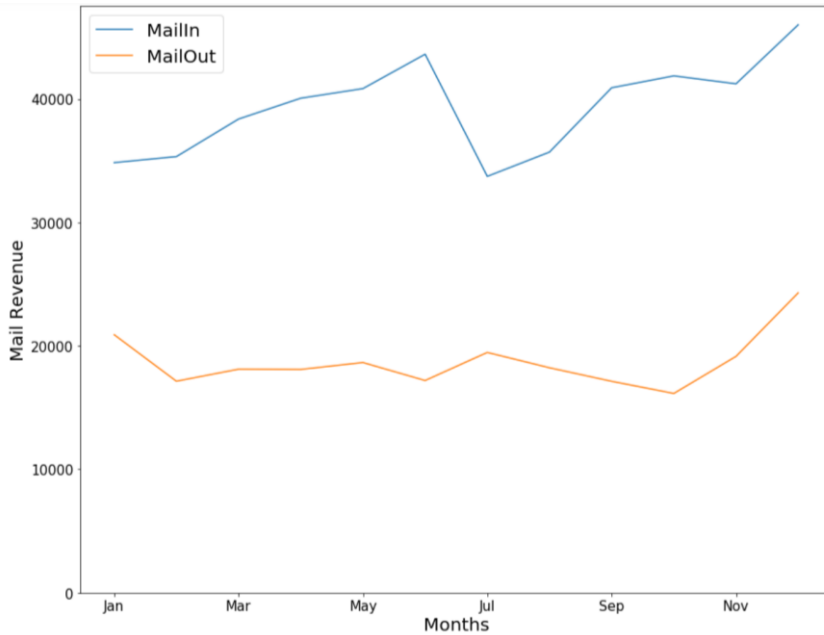
The **Total Pax** Revenue for **New Zealand** is expected to **continue its growth** in the future.

Total Mail Revenue USA



The **Total Mail** Revenue for **USA** over the last two years is on the **stable level**, but experienced a dynamic of decrease over the last 6 years.

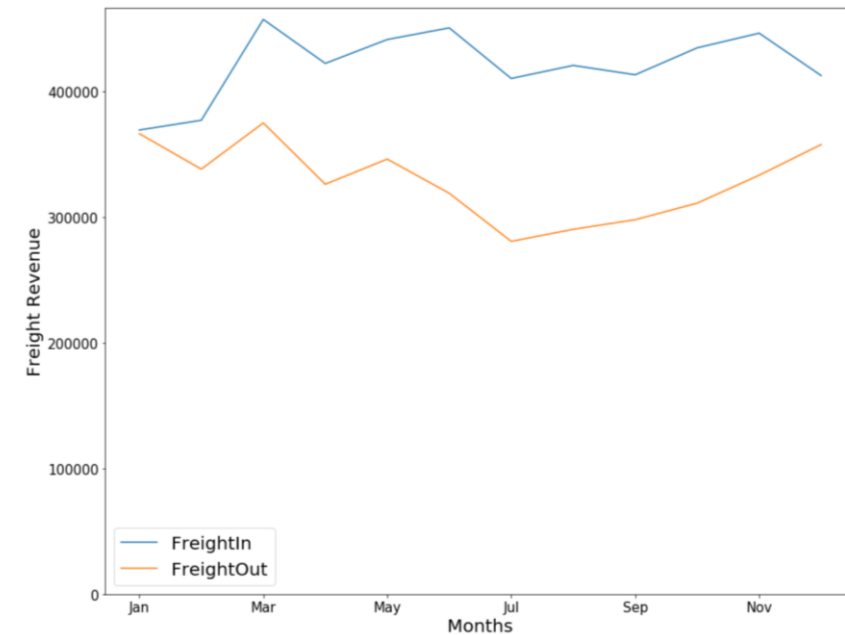
Dynamic by Months



The **Mail Revenue** has a growth around June and December months.

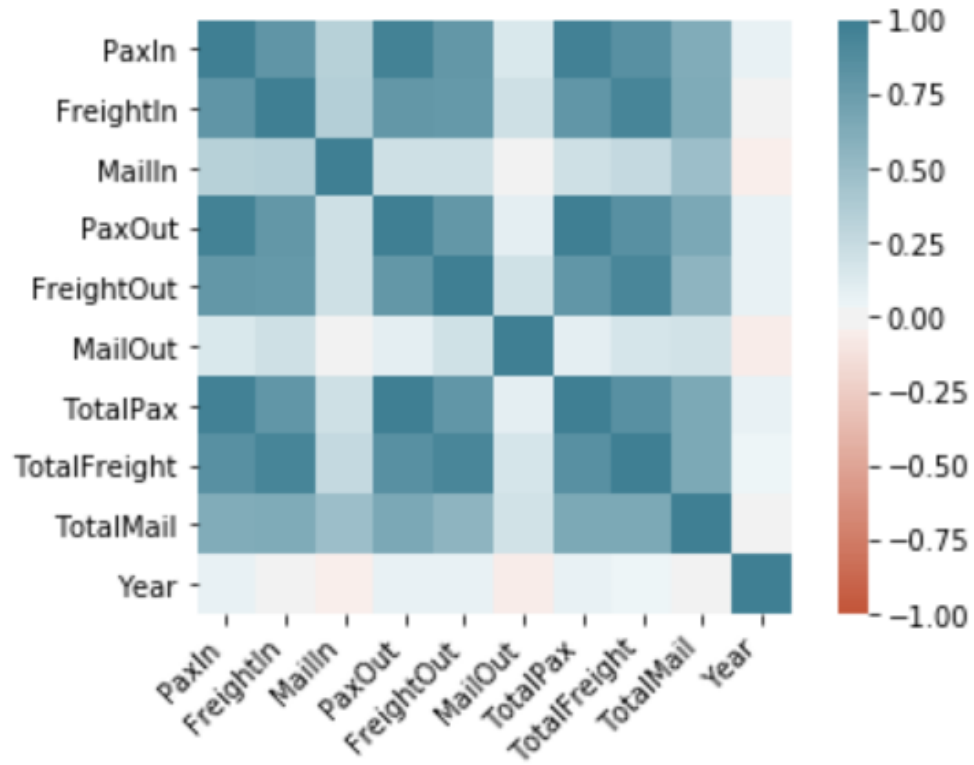


The **Pax Revenue** experience a noticeable increase around the Christmas holidays.



There is an increase of the **Freight Revenue Out** is its lowest in the winter months.

Additional Notes



The correlation between the variables is very low. Therefore, **the ML is not applicable**. Moreover, in the small experiment the Decision Tree classifier showed the test accuracy of 0.05.