

PROJECT NAME	Short Term Rental Facts		
EST. START DATE	2021-05-03	EST. FINISH DATE	2021-10-03

SUMMARY	Traditionally travellers book rooms with hotels through travel agencies or by calling hotel reservations directly. Now there are many on-line booking sites such as vrbo.com, booking.com and airbnb.com, ordinary individuals (called hosts) can list their unused room or investment properties on those platforms and travellers can book them directly through those booking websites. What is the impact of this to the neighborhoods and local economies? How are special transient taxes collected and enforced? How do hosts price their listings to get the best return of investments? How can travellers know what cool rentals they can book in what area, especially now a lot of people can work remotely? Local residents, authorities, travellers, hosts all need information to answer those questions.
SOLUTION	The solution is to gather historical, current and future information of Short Term Rentals listed on sites such as airbnb.com, vrbo.com, booking.com etc. The details of each listing such as location, number of rooms, kitchen, bathroom, availability, rate, neighborhood, reviews, etc will give us insights into the impact of the STRs to the neighborhoods and local residents, and will give travellers and hosts the information they need..
DATA SOURCES	The dataset provided by http://insideairbnb.com/about.html can be used to answer the above questions and a lot more. The site continuously adds on new datasets each month and archives monthly data for the past year. The dataset for each city for the past year is about 1GB compressed and about 4GB uncompressed, totaling about 100 major big cities around the world. It has the details of all listings of that city in that month, together with the calendar information and reviews of each listing.
OUTCOME	<ul style="list-style-type: none"> ● Python script will be written to obtain the data sets from sources ● The data sets will be cleaned and organized into a data warehouse using ETL tools that will be learned later on in the curriculum. ● The project will be expanded to the cloud for interested parties to access using Cloud tools and technologies to be learned later in this curriculum.

