# Factors affecting purchasing behavior of taxi service's customers in

Shanghai, China

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# ใบรับรองสารนิพนธ์

# วิทยาลัยบริหารธุรกิจนวัตกรรมและการบัญชี มหาวิทยาลัยธุรกิจบัณฑิตย์

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Factors affecting purchasing behavior of taxi service's customers in

Shanghai, China

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## ABSTRACT

Shanghai is China's largest economic center city and an internationally famous port city, attracting a large number of tourists and businessmen every year. As a symbol of the city's image, taxis play an important role in Shanghai. Therefore, researchers are interested in exploring the factors that affect the purchasing behavior of taxi customers in Shanghai. This study used a questionnaire to collect data from120 taxi services customers in 3 major areas of Shanghai. Data were analyzed by using descriptive statistics and hypotheses were tested by using t-test, Analysis of Variance (ANOVA) and multiple regression analysis.

This study found that majority of respondents are female, single, aged between 21-35 years old, high school education, working with average monthly income of 4001-6000RMB. Results of hypothesis testing showed that Shanghai taxi services' customers who have different demographic profile (such as gender, age, status, education level, occupation, monthly income) have different purchase behavior (service usage time, usage frequency of the taxi service per month, spending amount of taxi service per month, the reason for choosing the taxi service and payment method). Researchers also found that service marketing mix strategy (7P's) and safety concerns also affect the purchasing behavior of Shanghai taxi customers. The findings are significant at 0.05.

This research provides insight information about passenger behavior for taxi service industry and possible suggestions for improving taxi services in Shanghai. It also helps to extend literature in relevant areas and direction for future research in the same study context.

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# **Chapter 1**

## Introduction

#### 1.1 Background of the Study

Taxi is an important part of the city's transportation network, participating and witnessing the development of the city. But in recent years, Shanghai Taxi has been challenged by the rapid development of the subway and the network ride-hailing business. Business managers hope to reverse this situation.

Shanghai is an international city, and public transportation plays an important role in Shanghai. In 2019, Shanghai's permanent population was 24.28 million, the average daily number of trips was 57.1 million. With the continuous enrichment of public transportation services, citizens have more choices. Under this influence, traditional taxi services have been greatly affected.

"A service is an act of performance that one party can offer to another that is essentially intangible and does not result in the ownership of anything." (Kotler and Keller,2009, p214)

Taxi service not only refers to the driver transporting passengers from the starting point to the end point specified by the customer, but also includes a clean car, a comfortable ride experience, friendly greetings, reasonable routes, and compliant price.

The history of Shanghai taxis can be traced back to September 10, 1908. From 1911 to 1913, the relevant departments of Shanghai Concession approved a total of 9 taxi companies to operate. At the time, there were 43 taxis in Shanghai, mainly for foreign businessmen and officials.

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As of the end of 2016, there were 125 taxi companies in Shanghai, and another 2,966 self-employed households were also involved in taxi operations. Among all enterprises, Dazhong, Qiangsheng, Jinjiang, and Haibo are relatively large in scale and are called "Four Big Companies" or "Big Four". These companies account for 60% of the total number of taxi vehicles in Shanghai. (http://www.shanghai.gov.cn)

There are nearly 100,000 taxi drivers in Shanghai, with more natives in Chongming District. In Shanghai, one in three taxi drivers comes from Chongming. Some taxi drivers can master simple foreign languages in order to communicate with foreigners. Taxi in Shanghai was initially based on time-based charging. In 1911, some companies adopted a mileage-based charging model. After the 1950s, taxis in Shanghai were uniformly charged based on mileage and no longer charged on time.

Shanghai taxis are well-known for their high-quality service and strict discipline and were once regarded as Shanghai's "city card". However, since the closing of the 2010 Shanghai World Expo, the overall service quality of the taxi industry in Shanghai has been on a downward trend. In recent years, violations such as refusal to load, bypass, and overcharging have become prominent, which has become a profound problem. At the end of last year, the Enforcement Corps of the Shanghai Municipal Transportation Commission interviewed the first batch of 21 taxi companies in Shanghai. In view of the refusal of loading, detours and tolls in the vehicle, and fraud of the taximeter, the company was required to implement the law enforcement supervision requirements and strengthen the internal management. In 2019, in response to the problems in the taxi market, the Shanghai Traffic Law Enforcement Department combined with complaints and complaints data to organize special "pulling nails" operations and a series of centralized rectification operations in airports, railway stations, and key hotel areas. A total of 3822 cases in the taxi industry were investigated and dealt with, 98 taxi drivers were revoked their permits, and 88 taxi drivers were suspended for 15 days for rectification. This shows the government's determination to rectify the chaos in the taxi industry and hope that the image of Shanghai's taxi service can be restored

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to its former glory. According to the 2015 announcement of the world's worst taxi drivers in the world's top 10 cities, the first is Kuala Lumpur, Malaysia, which often overcharges and detours. Although there are taxi meters, most of them refuse to charge according to the meter, and the vehicles are worn out. The second place is in Rome, Italy. It is usually not easy to get a car. If it is raining, you may need to pay 2 to 3 times the fare. The third place is in Bangkok, Thailand. Although many people think that Bangkok taxi drivers are mostly friendly, there are also many complaints about tuk-tuk drivers who deliberately bypass long distances and refuse to load for short distances or cooperate with merchants to knock off. Shanghai, China ranks ninth, the main reasons include language barriers, no way to find, paying high car fares or being deceived.

Since the 2010 Shanghai World Expo, the taxi industry has experienced a downturn. In recent years, Shanghai has vigorously developed subway transportation, which has led to a decrease in the number of taxis year after year, and the average daily passenger load has also dropped for many years. So, managers in the taxi industry must do something to reverse the situation.

In 2019, the average daily passenger traffic of Shanghai Rail Transit was 10.63 million, an increase of 4.7% year-on-year, of which single-day passenger flow record 13.29 million. The average daily passenger volume of buses was 5.712 million, a decrease of 0.8% year-on-year.

In 2019, the total operating scale of traditional taxis was 40,000, down 3.2% year-onyear, of which regional taxis were 44,000, down 9.1% year-on-year. The average daily passenger capacity of traditional taxis is 1.54 million passengers, down 11.8% yearon-year, of which regional taxis are 210,000 passengers, down 18.6% year-on-year.



figure 1.1 shanghai public transportation average daily passenger volume

These years, with the development of taxi-hailing software, more and more private cars have become part of taxi services. The lower prices than traditional taxis allow private cars to occupy a large market share. Two of Shanghai 's largest taxi companies, Dazhong and Qiangsheng have developed their own apps. This helps customers to book a trip at home and save time waiting for a taxi on the road. At the same time, taxi platforms such as Didi Taxi also cooperate with taxi companies to encourage drivers to use the platform to take orders through cash subsidies. These measures did increase the driver's motivation, but it did not change the fact that the market share of taxis decreased, so this is not enough.

Shanghai is a city with a very low crime rate, but the issue of taxi safety still deserves our attention. In recent years, some "cloned taxi" drivers have committed hit-and-run behaviors, exchanged passenger transportation cards, and evaded punishment. There have also been vicious incidents in the industry that killed passengers and sexually harassed female passengers. This makes customers doubt the safety of taxis.

At the same time, according to the 2019 Shanghai Annual Report on Comprehensive Operation of Transportation, with the gradual recovery of epidemic control and economic and social activities, transportation demand will show an increasing trend. Affected by the new coronavirus epidemic, follow-up citizen travel behavior characteristics may show some changes. Off-peak travel, remote work, flexible work systems, dating models, and joint distribution will increase the social recognition, and the willingness of individuals to travel in the short term may also increase, but public dense transportation is still the mainstay of development.

Therefore, it is especially important for the taxi industry to master the critical development period after the new coronavirus.

This paper studies the factors that influence the purchase behavior of taxi services' customers in Shanghai.

This is the aim of the study or significant of the study: give insight information about passenger behavior for taxi service industry and provide beneficial suggestions for improving taxi services in Shanghai.



#### **1.2 Research question**

With the rapid development of cities, the urban transportation network is becoming more and more perfect, and the competitive pressure on the taxi industry in Shanghai has increased significantly. This paper studies the factors that influence the purchase behavior of taxi services' customers in Shanghai. The research question is proposed as follow: What are the factors affecting the purchasing behavior of taxi service's customers in Shanghai, China?

#### 1.3 Objectives of the study

The objectives of this study are listed as follows:

- To determine the difference between demographic profile and purchasing behavior of taxi service's customers in Shanghai, China.
- 2. To determine the effect of service marketing mix strategy (7Ps) on the purchasing behavior of taxi service's customers in Shanghai, China.
- 3. To determine the effect of safety concerns on the purchasing behavior of taxi service's customers in Shanghai, China.

#### **1.4 Conceptual framework**

Based on the objectives of the study, the study variables and the proposed relationship are depicted in the figure 2 below:



Figure 1.2: Conceptual Framework of the Study

#### 1.5 Hypothesis of the Study

According to the conceptual framework of this study, the study hypothesis is listed below:

H1: Customers with different demographic profile will have different purchasing behavior towards taxi service in Shanghai.

H 2: There is an effect of service marketing mix (7P"s) on the purchasing behavior of taxi service's customers in Shanghai.

H 3: There is an effect of safety concerns on the purchasing behavior of taxi service's customers in Shanghai.

#### 1.6 Scope and the limitations of the study

The researcher is going to study the effects of demographic factors, frequency of purchasing behavior, service marketing mix 7Ps and safety on purchasing behavior of taxi service's customers in Shanghai by using the following set of research extent:

#### 1.6.1.1 Population and sample

Population: Customers of Shanghai taxi service.

Sample: Customers of Shanghai taxi service in 3 parts of taxi service customers; Shanghai's inner ring, Shanghai's middle ring and Shanghai's outer ring.

#### Sample size

Because the population size is unknown, the researchers used the Taro Yamane table to calculate the appropriate sample size with a 95% confidence level and a sampling error of 0.05%. The table suggested appropriate 385 samples, however with a limited study period and as previous studies e.g. Udomsuk and Tiangsoongnern (2018), this study use data from 120 respondents.

#### **1.6.1.2 Sampling method**

The process of the sampling method is as follows:

**Simple Random Sampling** – Choose samples from the three parts of Shanghai (inner ring, middle ring and outer ring).

**Convenient sampling**-The questionnaire is randomly distributed- in Shanghai's inner, middle and outer rings. The number of people participating in the sample survey in the three parts is as follows:

Parts	Number of people
Inner ring	40
Middle ring	40
Outer ring.	40
Total	120

#### **1.6.2.1 Independent Variable:**

#### **Demographic profiles consist of**

- o Gender
- o Age
- o Status
- Occupation
- o Income/month

#### Service marketing mix (7Ps)

- o Product
- o Price

- o Place
- Promotion mix
- o People
- Process
- Physical evidence

#### **Safety Concerns**

- Physical
- o Psychological

#### 1.6.2.2 Dependent variables:

According to the time for using the taxi service, the frequency of customers using the service each month, and the monthly cost of the customer using the service to test the purchasing behavior and usage reasons of Shanghai taxi service customers.

#### **1.7 Definition of terms**

**1.7.1 Taxi service----**A type of vehicle for hire with a driver, used by a single passenger or small group of passengers, often for a non-shared ride. A taxicab conveys passengers between locations of their choice. The services areas include 3 parts inner ring, middle ring and outer ring in Shanghai.

**1.7.2 Demographic profile----**Characteristics of taxi service customers in particular gender, age, status, educational level, occupation, monthly income.

**1.7.3 Service marketing mix strategy (7Ps)** ---- is the combination of seven elements of marketing that aim to work together to achieve the objectives of a marketing strategy. These 7 elements are: product; price; place; promotion; people; process and physical. (Kotler and Keller, 2009)

**1.7.4 Purchasing behavior----**defined as the purchase behavior of a taxi service based on certain elements of the 6W 1H concept (Kotler and Keller, 2009): service usage time, usage frequency of the taxi service per month, spending amount of taxi service per month, the reason for choosing the taxi service and payment method.

**1.7.5 Safety concerns----** Ensure the safety of customers' lives and property while the vehicle is running, including perfect insurance, driving recorder, vehicle positioning, etc.

#### **1.8 Significances of the study:**

- The result will give insight information about passenger behavior for taxi service industry and provide beneficial suggestions for improving taxi services in Shanghai.
- 2. The results will help to extend literature in relevant areas and direction for future research in the same study context.

# **Chapter 2**

# **Literature Review**

This chapter addressed relevant constructs that were examined in the study which consisted of:

- 2.1 Demographic profiles
- 2.2 Service Concepts
- 2.3 Consumer Purchasing Behavior
- 2.4 Service Marketing Mix Strategy (7P"s)
- 2.5 Taxi safety and Customer Concerns
- 2.6 Related Research

#### **2.1 Demographic profiles**

There are several definitions of demographic profiles in the literature.

#### 2.1.1 Definition of demographic profile

Demographics and product attributes were identified as the variables most frequently used to segment the market as far back as 1976, with demographic categories used to match segments with media profiles, mainly because most media described their audiences by demographics (Assael and Roscoe, 1976).

Demographics is a business tool that can identify several characteristics when companies try to define market segments. Common characteristics of personal data include age, gender, income, family size and education level. Other more specific items in demographics may look for information about consumers' buying habits. These questions try to determine how often consumers buy a certain product. The data collected from the configuration file allows companies to adjust future marketing or product activities for specific groups of people.

A large, stratified, random sample was deemed desirable to maximize the accuracy of the research and to allow generalizability of the results to the population (Sudman, 1976; Zikmund, 1991).

Past surveys on the demographics of taxi consumers found that young people and singles between the ages of 16 and 30 have a greater tendency to use taxis because many of them do not have a car. Married people rarely take taxis because most of them own at least one car. At the same time, it is found that users who use taxi services generally have low income. (Shaaban,2016)

R.C.P. Wong (2020) found that females are more sensitive to service quality, drivers' attitudes. The respondents aged 65 or above prefer a better service quality and a higher comfort level. Students and others (e.g., retirees and housewives) were less likely to select the premium taxi option.

#### **2.2 Service Concepts**

There are several definitions of service in the literature.

#### 2.2.1 Definition of Service

Hill (1977) defined service as a change in the condition of a person, or of a good belonging to some economic unit, which is brought about as the result of the activity of some other economic unit, with the prior agreement of the former person or economic unit. An elementary service is the result or the output of the servuction system, in other words, the result of an interaction between physical support, personnel and customer."(Eiglier and Langeard, 1975).

According to Kotler (1987), a service is any act or performance that one party can offer to another that is essentially intangible and does not result in ownership of anything. Its production may or may not be tied to a physical product.

White (2002) defined taxi transport as "all modes of transportation available to the public, irrespective of ownership".

Tran and Kleiner (2005) simply defined it as the means of providing special or general transportation services to the public not taking into consideration-chartered transport services but rather scheduled transport services.

Definitions of Authors seem to match the base of this study; therefore, this study defines service as, "an intangible product or activity that gives benefits and satisfies the needs of customer".

#### 2.2.2 Service Quality

Service quality has been established as one of the many factors that influence customer satisfaction (Hohanson, 1995).

The difference between service quality and satisfaction is perceived service quality is a global judgment, or attitude, relating to the superiority of the service. Whereas satisfaction is related to the specific transaction (Parasuraman, Valarie, Zeithaml and Berry, 1988).

Service quality is recognized as one of the important areas on which public organizations including transportation services are focusing in present times (Ancarani and Capaldo, 2001).

The service quality model was developed by a group of American writers A. Parasuraman, Valarie A. Zeithaml and Len Berry in a system research project conducted from 1983 to 1988. The model determines the main dimensions (or components) of service quality; proposes a scale to measure service quality (SERVQUAL), and proposes possible causes of service quality problems:

- Reliability: the ability to perform the promised service dependably and accurately
- Assurance: the knowledge and courtesy of employees and their ability to convey trust and confidence
- Tangibles: the appearance of physical facilities, equipment, personnel and communication materials
- Empathy: the provision of caring, individualized attention to customers
- Responsiveness: the willingness to help customers and to provide prompt service

These five dimensions are considered to represent a series of dimensions of service quality in industries and environments.

#### 2.3 Consumer Purchasing Behavior

Different consumers are different in age, gender, income, education level and marital status. Their needs and preferences for goods and services are also different. How these diverse consumers connect with each other and how they influence their choices among various products, services and companies. Here, we studied the attractiveness of various factors that influence consumer behavior.

#### 2.3.1 Definition of Consumer Behavior

Schiffman and Kanuk (2002) defined consumer behavior "as the behavior that consumers display in searching for, purchasing, using, evaluating and disposing of products, services and ideas which they expect will satisfy their needs".

Engle, Blackwell and Kollat (1978) have defined consumer behavior as "The act of individuals directly involved in obtaining and using economic goods and services, including the decision process, that precede and determined these acts".

Consumers' behavior is influenced by individuals, social cultural factors (culture, subculture, religion, social class and family life cycle), personal factors (culture, subculture, religion, social class and family life cycle), personal factors (age, Gender, marital status, education, occupation, income and psychological factors include motivation, perception, learning, personality, attitude, and lifestyle. These factors have a great influence on individual decisions about products and services.

#### 2.3.2 An Analysis of Consumer Behavior

Kotler (2006) suggested that marketers should examine consumer purchasing behavior using the 6W<sup>\*\*</sup>s and 1H question.

Question (6W's 1H)	The answer to know (7Os)	Marketing strategy
1. Who is in the target	Occupants of target group	Marketing Mix or Service
market?	including	Marketing Mix (7P's) for
	1. Demographic	satisfying the
	2. Geographic	target group
	3. Psychology	
	4. Behavior	
2. What does the	Objects to consumer buy;	Product strategies
consumer	What product component	including
buy?	& competitive	1. Core product
	differentiation	2. Tangible product

		such as quality, style, packaging and
		brand
		3 Expected product
		4 Augmented product
		5 Competitive
		differentiation
		and ust
2 W/1 1 41		
3. Why does the	Purchasing objective of	1.Product strategies
consumer	consumer, for physical &	2. Price strategies
buy?	psychology need that study	3. Distribution channel
	in physical factor, social,	strategies
	culture and personality	4 Promotion strategies
		*Good marketing
		contents, RTB to
		convince why they should
		buy*
4. Who participates in	Influence organization	1.Advertising and
the	including people to	promotion
buying? (Whom)	1. Initiator	strategies to influence
	2. Influencer	Organization
	3. Decider	2.Influencer marketing
	4. Buyer	-product reviewer
	5. User	-Net Idol
		-Blogger
		-YouTuber
		-Testimonials (actual
		users)
5 When does the	Occasions such as during	Promotion strategies
consumer	seasonal of festival time	related to usage
buy?	seasonal of restival time	occasions content
buy!		occasions content
6. Where does the	Outlets such as dependent	1. Omni Distribution
consumer	store convenience store and	channel
buy?	discount store	(traditional & digital)
ouy.		(traditional & digital)
7. How does to	Operation including	Promotion strategies
consumer	1. Problem recognition	including advertising,
buy?	2. Information search	personal selling, public
-	3. Evaluation of	relating and direct
	alternative	marketing

4. Purchase decision e.g.	
frequency, amount, payment	
method	
5. Post purchase	
evaluation	

#### Table 2.1: An Analysis of Consumer Behavior Table

Source: Kotler and Keller (2009)

#### 2.4 Service Marketing Mix Strategy

The term "marketing mix" is the basic model of a business, historically revolving around product, price, place and promotion (also known as "4ps"). In service marketing, an expanded marketing mix is used, usually including 7 Ps, consisting of the first 4 Ps expanded by process, people, and physical evidence.

# 2.4.1 Definition of Service Marketing Mix Strategy (7ps)

The marketing mix has been defined as the "set of marketing tools that the firm uses to pursue its marketing objectives in the target market" (kolter, 2000).

Marketing mix is collection of controllable tools of marketing which firms are collocated until they response to target market. Marketing mix encompasses whole of works which firms can fulfill to promote demand for their products (Dargi, 2005).

The original marketing mix (4 Ps) originally proposed by McCarthy (1964) provides a framework for marketing decisions. Since then, McCarthy's marketing portfolio has become one of the most durable and widely accepted frameworks in marketing. In 1981, Booms and Bitner (1981) proposed the 7Ps model, which included the original

4 Ps as well as process, personnel and physical evidence, because it is more suitable for service marketing.

# 2.4.2 Tools of Marketing Mix

Category	Definition/Explanation/Concept	Typical Marketing Decisions
Product	A product refers to an item that satisfies the consumer's needs or wants. Products may be tangible (goods) or intangible (services, ideas or experiences).	<ul> <li>Product design – features, quality</li> <li>Product assortment – product range, product mix, product lines</li> <li>Branding</li> <li>Packaging and labeling</li> <li>Services (complementary service, after-sales service, service level)</li> <li>Guarantees and warranties</li> <li>Returns</li> <li>Managing products through the lifecycle</li> </ul>
Price	Price refers to the amount a customer pays for a product. Price may also refer to the sacrifice consumers are prepared to make to acquire a product (e.g. time or effort).	<ul> <li>Price strategy</li> <li>Price tactics</li> <li>Price-setting</li> <li>Allowances – e.g. rebates for distributors</li> </ul>

	Price is the only variable that has	• Discounts – for
	implications for revenue.	customers
	Price also includes considerations	• Payment terms –
	of customer perceived value	credit, payment
	of customer perceived value.	methods
Place	Refers to providing customer access Considers providing convenience for consumer.	<ul> <li>Strategies such as intensive distribution, selective distribution, exclusive distribution</li> <li>Franchising;</li> <li>Market coverage</li> <li>Channel member selection and channel member relationships</li> <li>Assortment</li> <li>Location decisions</li> <li>Inventory</li> <li>Transport, warehousing and logistics</li> </ul>
Promotion	Promotion refers to marketing communications May comprise elements such as: advertising, PR, direct marketing and sales promotion.	<ul> <li>Promotional mix - appropriate balance of advertising, PR, direct marketing and sales promotion</li> <li>Message strategy - what is to be communicated</li> <li>Channel/ media strategy - how to reach the target audience</li> <li>Message Frequency - how often to communicate</li> </ul>

People	Human factors who participate in service delivery. Service personnel who represent the company's values to customers. Interactions between customers. Interactions between employees and customers.	<ul> <li>Staff recruitment and training</li> <li>Uniforms</li> <li>Scripting</li> <li>Queuing systems, managing waits</li> <li>Handling complaints, service failures</li> <li>Managing social interactions</li> </ul>
Process	The procedures, mechanisms and flow of activities by which service is delivered.	<ul> <li>Process design</li> <li>Blueprinting (i.e. flowcharting) service processes</li> <li>Standardization vs customization decisions</li> <li>Diagnosing fail-points, critical incidents and system failures</li> <li>Monitoring and tracking service performance</li> <li>Analysis of resource requirements and allocation</li> <li>Creation and measurement of key performance indicators (KPIs)</li> <li>Alignment with Best Practices</li> <li>Preparation of operations manuals</li> </ul>
Physical evidence	The environment in which service	Facilities (e.g. furniture,
	occurs. The space where customers and	<ul><li>equipment, access)</li><li>Spatial layout (e.g. functionality,</li></ul>

Tangible commodities (e.g.	•	Signage (e.g.
equipment, furniture) that		directional signage,
facilitate service performance.		symbols, other
Artifacts that remind customers		signage)
of a service performance	•	Interior design (e.g.
of a service performance.		furniture, color
		schemes)
	•	Ambient conditions
		(e.g. noise, air,
		temperature)
	•	Design of livery
		(e.g. stationery,
		brochures, menus,
		etc.)
	•	Artifacts: (e.g.
		souvenirs,
		mementos, etc.)

Table 2.2: An Analysis of Marketing Mix 7Ps Table



Figure 2.1 depicted the components of the Service Marketing Mix 7P"s



# Figure 2.1: Model of Extended Marketing Mix or Marketing Mix for service (7P's)

Source: Depicted from Booms and Bitner (2007); Brown (1991)

According to Rafiq & Ahmed (1995), the most influential alternative framework is 7Ps. They believe that it is not only necessary to modify the traditional 4Ps services, but also to expand them to include participants, physical evidence and processes. When talking about online marketing, Constantinides (2002) pointed out that in the case of virtual marketing, adopting traditional methods based on the 4Ps paradigm is also a poor choice. It pointed out the two frameworks in the online environment. Main limitations: There are no strategic elements in Ps and models.

Muala & Qurneh (2012) stated that because they were dissatisfied with the 4Ps framework, Rafiq and Ahmad (1995) claimed to be advocates of the 7Ps framework. The survey results show that consumer marketing pays more attention to the traditional 4Ps, while other combination variables are less. In addition, there are similar views in service marketing, but there are also strong claims that 7Ps should be used as a general framework due to the simplicity of the 4Ps combination.

#### 2.5 Taxi safety and customer concerns

#### 2.5.1 Definition of taxi safety

Travel safety have become one of the considerable factors that influence on public transportation users. The fears of physical offence, crime risk, harassment and other unhuman behavior have become factors influence the confident of users on taxi service (Sham,2019).

Drivers proposed that safe driving behaviors included paying attention and being aware of the road surrounds, for example, "be psychic, see four cars ahead"; using turn indicators; and not taking personal problems onto the road. Drivers said that factors that increased the likelihood of crashes were fatigue because of long shifts, pressure from passengers, pedestrians wandering across the road, driving too fast, tailgating, or generally being in a rush, and poor training or screening of drivers at intake. (Stewart ,2006) By comparing the number of accidents, the mean speed, speed dispersion and the max vehicle speed, the corresponding relation between these indicators and driver safety consciousness level was studied, and it was found that the max vehicle speed was an effective and objective measurable indicator of driver safety consciousness. (Weihua Zhao, 2014)

Furthermore, in the Staysafe 36 (1997), taxis were approximately 16 times more likely to be involved in a tow away crash and were approximately 4.5 times more likely to be involved in a fatality than other vehicles on register. Taxi drivers were somewhere between 1 and 2 times more likely to be involved in a fatality than other drivers. Based on such data it would appear that taxis are overrepresented in road crashes.

#### 2.5.2 Taxi safety concerns in physical

In Shanghai, over 45,000 taxis equipped with Global Positioning System (GPS) are using the city network during the day. This taxi GPS data (hereinafter referred to as "floating car data" (FCD)) updates the taxi's traveling position and location every 10 seconds. FCD has been used to extract the average speed or travel time in the road network. (WANG Xuesong,2012) The installation of GPS greatly increases the safety of taxi users.

Rowland (2007) pointed out the culture of the organization, especially the initial directions provided by the management team related to driving behavior. For example (the collected data usually shows that the current organization provides relatively clear fleet safety rules, the adequacy of fleet safety procedures and strong management commitments), which may directly affect the driving results displayed by employees.
#### 2.5.3 Taxi safety concerns in psychological

Commuters usually felt safe in using the mini cab taxi services because the cars were mostly fitted with functioning seat belt and the drivers drove cautiously, had excellent knowledge of route, communicated and handled payment transactions well. Further on drivers" behavior, commuters felt the drivers showed appropriate driving behavior, were generally well behaved and normally had their vehicles in clean and good condition. (Emmanuel Nondzor Horsu ,2015)

A study from psychological scientists (Özlem Şimşekoğlua,2008) of Izmir University of Economics and (Timo Lajunen,2008) of Middle East Technical University in Turkey closely analyzed some of the many factors that people use when deciding when and where they're willing to buckle up. Şimşekoğlua and Lajunen surveyed 277 Turkish students on when, why, and how often they wore a seat belt. In line with previous research, they found that people's beliefs about the effectiveness of seat belts had no relationship with how often they reported actually wearing one.

#### **2.6 Related Research**

#### 2.6.1 Problems in Shanghai taxis

After the closing of the 2010 Shanghai World Expo, the overall service quality of the taxi industry in Shanghai has a downward trend. In recent years, violations such as refusals, detours, and excessive charges have been prominent. At the same time, there are problems such as impolite attitudes of drivers and uncivilized driving, which has attracted a large number of problems. Passenger complaints and service disputes. For this reason, relevant departments in Shanghai have issued relevant management

measures to rectify these problems. If a taxi driver violates discipline, and the passenger's complaint confirms the violation, the Shanghai Municipal Transportation Commission will record the facts of the complaint and the situation in the company's integrity file and deduct the "reputation assessment" points in accordance with relevant regulations. At the same time, it urges the company to count the facts of the driver's violation of discipline. Enter the driver's integrity file. Some companies also stipulate that drivers who have been complained a certain number of times within a certain period of time will be severely warned, suspended until expelled. At the same time, incentives will be deducted, and they will also need to receive industry-standard induction retraining after processing. According to the new version of the "Shanghai Municipal Transportation Commission's Adjudication Benchmarks Regarding Administrative Penalties for Illegal Passenger Traffic of Taxi and Vehicles" implemented on November 1, 2018, taxi drivers who refuse to carry or detour overcharges will be enforced twice in their careers If the department verifies that it is true, the operation qualification certificate will be revoked.

In addition, Shanghai's "cloned taxis" have also been the focus of the crackdown in recent years. Some "cloned taxis" drivers have committed hit-and-run behaviors, exchanged passenger transportation cards, and evaded punishment. In response to the attacks on "cloned taxis" and their drivers, relevant departments in Shanghai have taken measures to destroy vehicles and counterfeit and sell fake dens, and even use all taxis on the roads to turn on red "ESC" lights to confirm whether the car is a "cloned taxi" And detain the driver who caused the accident.

In January 2016, there was also a vicious incident of a Shanghai native who was killed by a taxi driver, which aroused people's attention.

Based on the aforementioned, this study aims to test whether there are influences of demographic profiles of customers, service marketing mix strategy used by service provider and taxi safety on the purchasing behavior of taxi service's customers in Shanghai. Therefore, this study proposed three hypotheses as follows:

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H1: Customers with different demographic profile will have different purchasing behavior towards taxi service in Shanghai.

H 2: There is an effect of service marketing mix (7P"s) on the purchasing behavior of taxi service's customers in Shanghai.

H 3: There is an effect of service safety on the purchasing behavior of taxi service's customers in Shanghai.



# **CHAPTER 3**

# Research Methodology

This study addresses the purchasing behavior of taxi service's customers using the following constructs:

1.Demographic: gender, age, status, educational level, occupation, monthly income.

2.Service marketing mix strategy (7P's) that influence the consumer behavior:

product; price; place; promotion; people; process and physical evidence.

**3.Purchasing behavior:** the frequency of customers using the service each month, and the average time the customer uses the service.

4.Safety: including perfect insurance, driving recorder, vehicle positioning, etc.

The survey research design using a self-administrative questionnaire (Malhotra 2007). Several steps of research methodology were presented as follows:

3.1 Population and Sample

3.2 Measurement items

3.3 Data collection method

3.4 Data analysis

#### **3.1 Identifying population and sample**

Population: Customers of taxi service in Shanghai

Sample: Customers of taxi service in 3 major areas; Shanghai's inner, middle and outer rings

#### Sample size

Due to the number of populations is unknown, the researcher uses Taro Yamane table to calculate by the approximately sample size for this study (cited in Poldongnok 2009). The sample size is calculated based on 95% confidence level and 5% sampling error based on the following formula:

n = Z 2 [P (1-P)] / e 2

n = Sample size

Z = Reliability of 95% is 1.96

e = Not reliability is 0.05

P = Percentage (0.05)

Calculation:

n=Z 2 [P (1-P)] / e 2

= (1.96) 2 [(0.50) (1-0.05)] / (0.05) 2

= 384

The recommended sample size is 384 respondents.

A total of about 400 questionnaires were distributed for this data collection, of which 120 valid responses were received. Because the population size is unknown, the researchers used the Taro Yamane table to calculate the appropriate sample size with a 95% confidence level and a sampling error of 0.05%. The table suggested appropriate 385 samples, however with a limited study period and as previous studies e.g. Udomsuk and Tiangsoongnern (2018), this study use data from 120 respondents.

#### **Sampling Method**

The research adopted convenience sampling method by giving out questionnaire to customers who were using taxi services in 3 areas of Shanghai (inner, middle and outer rings). Convenience sampling was used for this study because the respondents are selected to be in the right place at the right time and least time consuming compared to other sampling techniques (Malhotra 2007).

#### **3.2 Measurement Items**

This study developed and adapted items from previous studies to measure the constructs following study:

- 6 items to measure demographic profile of taxi service's customers. (e.g. gender, age, status, education level, occupation, income)

- 5 items to measure the purchasing behavior of taxi service's customer. (e.g. service usage time, usage frequency of the taxi service per month, spending amount of taxi service per month, the reason for choosing the taxi service and payment method.)

- 25 items to measure the service marketing mix (7P's) (e.g. product, price, place, promotion mix, people, process, physical evidence) and 7 items to measure the taxi safety.

Likert Scale was used to quantify level of agreement on items related 7P"s and WOM. The scale descriptions are as follows: "5" = Strongly agree with the statement

- "4" = Agree with the statement
- "3" = Feel neutral with the statement
- "2" = Disagree with the statement
- "1" = Strongly disagree with the statement

According to Sirirat (2005), each item is assigned a numerical score, ranging from 1 to 5 as follows:

- Calculate the cutting/interval score = (5-1)/5 = 0.80

- Thus, descriptions of the revised score are as follows:

Range of Score	Level of agreement
1.00 - 1.80 =	strongly disagree with the statement
1.81 - 2.60 =	disagree with the statement
2.61 - 3.40 =	feel neutral with the statement
3.41 - 4.20 =	agree with the statement
4.21 - 5.00 =	strongly agree with the statement

## **3.2.1 Measurement Validation**

There are 2 steps of validity tests for survey research questionnaires which are;

1.1 Content Validity

Content validity was assured by developing the study constructs based on relevant literature and suggestions of academician.

1.2 Reliability Validity

Researcher conducted a pilot test with 41 respondents. The data had coefficient alpha, or Cronbach's Alpha around 0.6 which indicated a moderate - fair internal consistency of the study constructs (Malhotra 2007).

## **3.3 Data Collection**

This study collected 2 types of data which are:

1. Primary Data – using the questionnaire to collect the data from taxi service's customers in Shanghai. (Three shopping malls in Shanghai)

2. Secondary Data – Use literature research to collect data on taxi services, service quality, marketing mix, and taxi safety from textbooks, articles and related research to develop a conceptual framework for research.

#### 3.4 Data analysis

Data was analyzed using the following statistics:

- 1. Descriptive Statistic Frequency, percentage, mean and standard deviation.
- 2. Inferential Statistics:

2.1 ANOVA test and t-test were used to test the difference between demographic profile and purchasing behavior of taxi service's customers (Malhotra 2007).2.2 Multiple regression analysis used to test the effect of service marketing mix strategy (7p"s) and taxi safety on the purchasing behavior of taxi service's customers (Malhotra 2007).

The confidence level of 95% or < 0.05 was adopted to test the hypotheses of the study.

# **CHAPTER 4**

# **Findings**

This study collected data from taxi service's customers in Shanghai. Questionnaires were distributed to 120 respondents who using the taxi services which located in 3 areas: Shanghai's inner, middle and outer rings. A 100% of response rate was achieved. Data has performed normal distribution

The results were presented as follows:

4.1 Descriptive results of demographic data, service marketing mix, safety concerns and purchasing behavior of taxi service's customer.

4.2 Hypothesis test

Data were screened to assume that normal distribution could be assumed. 20 sets of questionnaires were found to be outliners and then were deleted from the analysis. The remaining 100 sets of questionnaires tended to perform normal distribution within the  $-1 \le$  skewness  $\le +1$  and  $-2 \le$  kurtosis  $\le +2$  (Tabachnick and Fidell 2001).

# **4.1 Descriptive Results**

# **4.1.1 Demographic Data**

# **Table 4.1: Descriptive Results of Gender**

Items		ems	Percent
1	Gender	Male	43.3
		Female	56.7
		Total	100

∕.

Gender -- the proportion of respondents were female (56.7%), male (43.3%)

# Table 4.2: Descriptive Results of Age

		Items	percent
2	Age	Under 20 years old	20.8
		21-35 years old	32.5
		36-50 years old	26.7
		Above 50 years old	20
		Total	100

Age -- the majorities of respondents were 21-35 years old (32.5%) followed by 36-50 years old (26.7%) under 20 years old (20.8%) above 50 years old (20%).

#### Table 4.3: Descriptive Results of Status

Items		percent	
3	Marital status	Single	54.2
		Married	45.8
		Total	100

Status -- the majorities of respondents were single (54.2%) followed by married (45.8%).

Items		percent	
4	Education level	Secondary school	6.7
		High school	29.2
		College school	20
		Bachelor's degree	27.5
		Master's degree	13.3
		Doctoral degree	3.3
		Total	100

# Table 4.4: Descriptive Results of Education level

Education level-- the majorities of respondents were high school (29.2%) followed by bachelor's degree (27.5%) college school (20%) master's degree (13.3%) secondary school (6.7%) doctoral degree (3.3%)

# **Table 4.5: Descriptive Results of Occupation**

percent
40
13.3
10
36.7
100

Occupation -- the majorities of respondents were working (40%) followed by student (36.7%) retired (13.3%) homemaker (10%).

**Table 4.6: Descriptive Results of Income** 

		Items	percent
6	Income	Lower than 4,000	33.3
		4,001-6,000	36.7
		6,001-10,000	19.2
		More than 10,000	10.8
		Total	100

Income -- the majorities of respondents had income 4,001-6,000 yuan per month (36.7%) followed less than 4,000 yuan per month (33.3%) 6,001-10,000 yuan per month (19.2%) and more than 10,000 yuan per month (10.8%).

# 4.1.2 Service Marketing Mix Strategy (7P's)

The following tables showed the results of Shanghai taxi service customers that are agreement on service marketing mix (7Ps).

#### 1) Product

Table 4.7 reports that the majority of the respondents agreed that I tend to choose wellknown taxi company (Mean = 3.70), I consider about the taxi service quality (Mean = 3.60), I tend to book taxi online (Mean = 3.30), I tend to choose taxi company that use new car models (Mean = 3.10). Overall product has an effect on purchasing behavior of Shanghai taxi service customers (Mean = 3.425).

#### **Table 4.7: Descriptive Results of Product**

		Std.	Level of
Items	Mean	Deviation	Agreement
I tend to choose well-known taxi	3.70	.826	Agree
company			

I consider about the taxi service	3.60	.803	Agree
quality			
I tend to book taxi online	3.30	1.192	Feel neutral
I tend to choose taxi company that	3.10	.749	Feel neutral
use new car models			
Total	3.425	.8925	Agree

# 2) Price

Table 4.8 reports that the majority of the respondents agreed that I often select the taxi that offers the cheapest price (Mean = 3.83), I am fine to pay higher price for the better ride experience (Mean = 3.30) and I am fine to pay higher price for the higher quality taxi service (Mean = 3.30). Overall price has an effect on purchasing behavior of Shanghai taxi service customers (Mean = 3.48).

<b>Table 4.8:</b>	Descriptive	Results	of Price	

		Std.	Level of
Items	Mean	Deviation	Agreement
I often select the taxi that offers the cheapest price	3.83	.585	Agree
I am fine to pay higher price for the better ride	3.30	.866	Feel neutral
experience			
I am fine to pay higher price for the higher quality	3.30	.784	Feel neutral
taxi service			
Total	3.48	.745	Agree

#### 3) Place

Table 4.9 reports that the majority of the respondents agreed that I often take the taxi in the areas that lack of public transportation (Mean = 3.80), I often take the taxi that is available around the place I stay (Mean = 3.47) and I often take the taxi that is available around my workplace (Mean = 2.97). Overall place has an effect on purchasing behavior of Shanghai taxi service customers (Mean = 3.41).

	Std.	Level of
Mean	Deviation	Agreement
3.47	.721	Agree
3.80	.836	Agree
2.97	.952	Feel neutral
3.41	.84	Agree
	Mean 3.47 3.80 2.97 3.41	Std.         Mean       Deviation         3.47       .721         3.80       .836         2.97       .952         3.41       .84

#### **Table 4.9: Descriptive Results of Place**

#### 4) Promotion

Table 4.10 reports that the majority of the respondents agreed that I tend to take the taxi that offer promotions (Mean = 3.93), I tend to book the taxi that charges no booking fee (Mean = 3.50), I tend to see the taxi information from online advertising via social media (Mean = 3.47), I tend to see taxi information from out-of-home advertisement (Mean = 3.20) and I tend to see the taxi information from online advertising at official websites (Mean = 3.17). Overall promotion has an effect on purchasing behavior of Shanghai taxi service customers (Mean = 3.89).

# **Table 4.10: Descriptive Results of Promotion**

		Std.	Level of
Items	Mean	Deviation	Agreement
I tend to take the taxi that offer promotions.	3.93	.730	Agree
I tend to book the taxi that charges no	3.50	.767	Agree
booking fee.			
I tend to see taxi information from out-of-	3.20	.656	Feel neutral
home advertisement			
I tend to see the taxi information from	3.17	.781	Feel neutral
online advertising at official websites.			
I tend to see the taxi information from	3.47	.898	Agree
online advertising via social media			
Total	3.454	.766	Agree

#### 5) People

Table 4.11 reports that the majority of the respondents agreed that I tend to choose the taxi company has professional drivers (Mean = 3.93), I tend to choose the taxi company has strict service rules (Mean = 3.87) and I tend to choose the taxi company has well-known owner (Mean = 3.50). Overall people have an effect on purchasing behavior of Shanghai taxi service customers (Mean = 3.77).

#### Table 4.11: Descriptive Results of People

		Std.	Level of
Items	Mean	Deviation	Agreement
I tend to choose the taxi company has	3.93	.683	Agree
professional drivers.			

I tend to choose the taxi company has	3.87	.766	Agree
strict service rules.			
I tend to choose the taxi company has	3.50	.622	Agree
well-known owner			
Total	3.77	.69	Agree

## 6) Process

Table 4.12 reports that the majority of the respondents agreed that I tend to choose the taxi company has online booking service (Mean = 3.67), I tend to choose the taxi company has a convenience of payment (Mean = 3.60) and I tend to choose the taxi company has enough taxis on the road (Mean = 3.30). Overall process has an effect on purchasing behavior of Shanghai taxi service customers (Mean = 3.52).

		Std.	Level of
Items	Mean	Deviation	Agreement
I tend to choose the taxi company	3.67	.748	Agree
has online booking service			
I tend to choose the taxi company	3.60	.666	Agree
has a convenience of payment			
I tend to choose the taxi company	3.30	.826	Feel neutral
has enough taxis on the road			
Total	3.52	.747	Agree

# **Table 4.12: Descriptive Results of Process**

#### 7) Physical evidence

Table 4.13 reports that the majority of the respondents agreed that I tend to choose the tidy taxi (Mean = 4.07), I tend to choose the taxi is offered by well-known franchise brand (Mean = 3.67), I tend to choose the taxi equipped with GPS (Mean = 3.50) and I tend to choose the taxi that offers free WI-FI (Mean = 3.13). Overall physical evidence has an effect on purchasing behavior of Shanghai taxi service customers (Mean = 3.59).

		Std.	Level of
Items	Mean	Deviation	Agreement
I tend to choose the tidy taxi	4.07	.514	Agree
I tend to choose the taxi that offers	3.13	.995	Feel neutral
free WI-FI			
I tend to choose the taxi equipped	3.50	.622	Agree
with GPS			
I tend to choose the taxi is offered	3.67	.702	Agree
by well-known franchise brand			
Total	3.59	.708	Agree

# Table 4.13: Descriptive Results of Physical evidence

#### 4.1.3 Customer safety concerns

#### **4.1.3.1 Safety concerns (physical)**

Table 4.14 reports that the majority of the respondents agreed that I will pay special attention to taxi driver's licenses (Mean = 4.03), I will care whether the taxi has a location tracking system (Mean = 3.47) and I will let the driver take the route recommended by the navigation (Mean = 3.23). Overall safety concerns in physical has an effect on purchasing behavior of Shanghai taxi service customers (Mean = 3.59).

		Std.	Level of
Items	Mean	Deviation	Agreement
I will pay special attention to	4.03	.798	Agree
taxi driver's licenses			
I will care whether the taxi has	3.47	.961	Agree
a location tracking system			
I will let the driver take the	3.23	.923	Feel neutral
route recommended by the			
navigation			
Total	3.58	.894	Agree

#### Table 4.14: Descriptive Results of Safety concerns in physical

## 4.1.3.2 Safety concerns (psychological)

Table 4.15 reports that the majority of the respondents agreed that I will pay attention to license plate number when I take a taxi (Mean = 3.43), I will deliberately choose to sit behind the taxi driver (Mean = 3.30), I will avoid talking to the driver when taking a taxi (Mean = 3.10) and I will call my friends or relatives when I take a taxi (Mean = 2.93). Overall safety concerns in psychological has an effect on purchasing behavior of Shanghai taxi service customers (Mean = 3.19).

		Std.	Level of
Items	Mean	Deviation	Agreement
I will pay attention to license plate	3.43	.923	Agree
number when I take a taxi			
I will avoid talking to the driver	3.10	.793	Feel neutral
when taking a taxi			
I will call my friends or relatives	2.93	.775	Feel neutral
when I take a taxi			
I will deliberately choose to sit	3.30	.740	Feel neutral
behind the taxi driver			
Total	3.19	.808	Feel neutral

 Table 4.15: Descriptive Results of Safety concerns in psychological

# **4.1.4 Purchase Behavior**

The purchasing behavior of respondents can be described as follows:

Items	Percent
6:00am-12:00am	23.3
12:00am-18:00pm	33.3
18:00pm-24:00pm	30.8
0:00am-6:00am	12.5
Total	100

#### Table 4.16: Service usage time

From the table 4.16, the majority of respondents tended to use the service at 12:00am-18:00pm (33.3%) and 0:00am-6:00am seemed to be the least popular time to use the taxi service (12.5%).

# Table 4.17: Usage frequency of the taxi service per month

Items	Percent
0-5 times	27.5
6-10 times	25.8
11-15 times	29.2
More than 15 times	17.5
Total	100

From the table 4.17, the majority of respondents tended to use the service at 11-15 times per month (29.2%) follow by 0-5 times (27.5%) 6-10 times (25.8%) more than 15 times (17.5%).

Spending amount (CNY)	Percent
0-200	27.5
201-500	37.5
501-800	18.3
More than 800	16.7
Total	100

Table 4.18: Spending amount of taxi service per month

From the table 4.18, the majority of respondents tended to spend 201-500 yuan on taxi service per month (37.5%) follow by 0-200 yuan (27.5%) 501-800 yuan (18.3%) more than 800 yuan (16.7%).

Table 4.19: The reason	for	choo	osing	the	taxi	service
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Items	Percent
Comfortable environment	15
Good service	25.8
Save time	27.5
Without location restrictions	27.5
Other	4.2
Total	100

From the table 4.19, the majority of respondents tended to choose the taxi service because save time and without location restrictions (27.5%) follow by good service (25.8%) comfortable environment (15%) other (4.2%)

# Table 4.20: Payment method

Items	Percent
Cash	23.3
Credit card	21.7
Alipay	33.3
WeChat	21.7
Total	100

From the table 4.20, the majority of respondents tended to choose Alipay to pay the taxi bill (33.3%) follow by using cash (23.3%) WeChat and Credit card (21.7%).



# 4.2 Result of Hypothesis Test

ANOVA test and t-test were used to test hypothesis 1

# H1: Customers with different demographic profile will have different purchasing behavior towards taxi service in Shanghai.

Demographic profile was described by the gender, age, status, education level, occupation and income.

Purchasing behavior was measured by the frequency of usage per month and price of spending per month.

This study found a partly support of H1 as follows:



Demographic Profile (gender) and Purchasing Behavior (t-test)

Result from Table 4.21 revealed that equal variances are assumed for means differences between female and male group (Sig.=0.278, p>0.05). Therefore, female and male have different level of the frequency of usage per month. (Sig. 0.039, p < 0.05). Table 4.22 showed that male (Mean=2.6) tends to use taxi more frequent than female (Mean=2.19).

Table 4.21 also revealed that equal variances are not assumed for means differences between female and male group (Sig.=0.005, p<0.05). Therefore, female and male have different level of spending amount per month. (Sig.0.031, p<0.05). Table 4.22 also showed that male (Mean=2.48) tends to spend money in taxi service per month higher than female (Mean=2.06).

Items		Levene's Test for		t test for Equality of Maana		
		Equality of	Variances	t-test for Equality of Means		
		F	Sig		đf	Sig. (2-
		1	Sig.		ui	tailed)
The	Equal variances	1 1 9 0	0.278	2 086	110	0.020*
frequency	assumed	1.109	0.278	2.080	110	0.039
of usage per	Equal variances not			2.061	104 463	0.042
month	assumed			2.001	104.403	0.042
The price of	Equal variances	<u> 9 105</u>	0.005	2 246	110	0.027
anonding	assumed	8.105	0.005	2.240	110	0.027
spending	Equal variances not			0 100	07 552	0.021*
per month	assumed			<mark>2.188</mark>	<mark>37.555</mark>	0.031*

<b>Table 4.21:</b>	Difference	between	gender and	purchasing	behavior
			0		

\*Level of significant  $\alpha = 0.05$ 

	Gender	Ν	Mean	Std. Deviation	Std. Error Mean
The frequency	Male	52	2.6	1.107	0.154
of usage per month	Female	68	2.19	1.011	0.123
The price of	Male	52	2.48	1.129	0.157
spending per month	Female	68	2.06	0.929	0.113

Table 4.22: Difference between gender and purchasing behavior

Demographic Profile (age) and Purchasing Behavior (ANOVA test)

Result from testing 4.23 revealed that different age has different level of the frequency of usage per month. (Sig.= 0.015, p < 0.05), it also revealed that different age not found has different level of the price of spending per month. (Sig. =0.225, p> 0.05)

Table 4.23: Difference between age and purchasing behavior

		df	Mean Square	F	Sig.
The frequency of usage per month	Between	2	2.002		0.015*
	Groups	3	3.883	3.626	0.015*
	Within Groups	116	1.071		
The price of	Between	2	1.567	1 474	0.225
spending per	Groups	3 1.567		1.4/4	0.225
month	Within Groups	116	1.063		

\*Level of significant  $\alpha = 0.05$ 

Table 4.24 showed that equal variances are not assumed across different age (sig.=0.029, p<0.05), so the value of Tamhane test shall be used. Table 4.25 showed

that the frequency of usage per month of under 20 years old is less than 21-35 years old. (Mean = 2-2.33) the frequency of usage per month of under 20 years old is less than 36-50 years old. (Mean = 2-2.84) and the frequency of usage per month of under 20 years old is less than above 50 years old. (Mean = 2-2.17).

# Table 4.24: Difference between age and purchasing behavior

The frequency of			Levene Statistic	df1	df2	Sig.
The frequency of	Based	on				
usage per month	Mean		3.124	3	116	0.029

Tamhane	4.50	Mean	Std.	Sig	
	Age	Difference	Error	51g.	
	Under 20	21-35 years old	-0.33	0.29	0.82
	Under 20	36-50 years old	844*	0.31	0.05
	years old	Above 50 years old	-0.17	0.34	1.00
	21-35 years old	Under 20 years old	0.33	0.29	0.82
The		36-50 years old	-0.51	0.22	0.13
frequency		Above 50 years old	0.17	0.27	0.99
of usage	26.50	Under 20 years old	.844*	0.31	0.05
per month	30-50 years	21-35 years old	0.51	0.22	0.13
	old	Above 50 years old	0.68	0.29	0.13
		Under 20 years old	0.17	0.34	1.00
	Above 50	21-35 years old	-0.17	0.27	0.99
	years old	36-50 years old	-0.68	0.29	0.13

# Table 4.25: Difference between age and purchasing behavior

Demographic Profile (status) and Purchasing Behavior(t-test)

Result from Table 4.26 revealed that equal variances are assumed for means differences between single and married group (Sig.= 0.668, p > 0.05). Therefore, single and married have different level of the frequency of usage per month. (Sig. =0.01, p < 0.05), Table 4.27 showed that married (Mean=2.64) tends to use taxi times per month higher than single (Mean=2.14).

Table 4.26 also revealed that single and married not found have different level of the price of spending per month. (Sig= 0.058, p > 0.05)

		Levene	Levene's Test for				
Items		Equ	ality of	t-test for	t-test for Equality of Means		
		Va	riances				
		T	с.		16	Sig. (2-	
		F	51g.	t	df	tailed)	
The	Equal variances	0.195	0.669	2 604	110	0.01*	
frequency of	assumed	0.185	0.008	-2.004	118	0.01*	
usage per	Equal variances not			2 612	115 953	0.01	
month	assumed			-2.012	115.852	0.01	
The price of	Equal variances	0.117	0.722	1 012	110	0.059	
The price of assumed	assumed	0.117	0.755	-1.915	118	0.038	
spending per	Equal variances not			1.021	116 457	0.057	
month	assumed			-1.921	116.45/	0.057	

 Table 4.26: Difference between status and purchasing behavior

\*Level of significant  $\alpha = 0.05$ 

	Gender	N	Moon	Std Doviation	Std. Error
		1	Ivican		Mean
The frequency of	Single	65	2.14	1.059	0.131
usage per month	Married	55	2.64	1.025	0.138

Table 4.27: Difference between status and purchasing behavior

Demographic Profile (education level) and Purchasing Behavior (ANOVA test)

Result from testing 4.28 revealed that different education level has different level of the frequency of usage per month. (Sig.= 0.002, p < 0.05), it also revealed that different education level has different level of the price of spending per month. (Sig. = 0.009, p<0.05)

		df	Mean Square	F	Sig.
The frequency	Between Groups	5	4.122	4.077	0.002*
of usage per month	Within Groups	114	1.011	8	
The price of	Between Groups	5	3.184	3.239	0.009*
spending per month	Within Groups	114	0.983		

 Table 4.28: Difference between education level and purchasing behavior

\*Level of significant  $\alpha = 0.05$ 

Table 4.29 showed that equal variances are assumed across educational levels (sig.0.984, p>0.05), so the value of LSD test shall be used. Table 4.30 showed that the frequency of usage per month of Secondary school is less than college school. (Mean = 1.75-2.67) the frequency of usage per month of Secondary school is less than bachelor's degree. (Mean = 1.75-2.61) the frequency of usage per month of

Secondary school is less than master's degree. (Mean = 1.75-2.5) the frequency of usage per month of Secondary school is less than doctoral degree. (Mean = 1.75-3.5)

Table 4.29 also showed that equal variances are not assumed across educational levels (sig.0.033, p<0.05), so the value of Tamhane test shall be used. Table 4.31 showed that the price of spending per month of High school is less than college school. (Mean = 1.8-2.54).

		Levene Statistic	df1	df2	Sig.
The frequency of usage per month	Based on Mean	0.136	5	114	0.984
The price of spending per month	Based on Mean	2.532	5	114	0.033

Table 4.29: Difference between education level and purchasing behavior

Table 4.30: Difference be	etween educa	ation level and	purchasing behavio	or

LSD		Education level	Mean Difference	Std. Error	Sig.
		High school	-0.14	0.39	0.73
	Casardamy	College school	917*	0.41	0.03
	Secondary	Bachelor's degree	856*	0.40	0.03
The	school	Master's degree	-0.75	0.44	0.09
frequency		Doctoral degree	-1.750*	0.62	0.01
of usage per		Secondary school	0.14	0.39	0.73
month		College school	781 <sup>*</sup>	0.27	0.00
	High school	Bachelor's degree	720*	0.24	0.00
		Master's degree	614*	0.30	0.05
		Doctoral degree	-1.614*	0.53	0.00

	Secondary school	.917*	0.41	0.03
Callera	High school	$.781^{*}$	0.27	0.00
College	Bachelor's degree	0.06	0.27	0.82
school	Master's degree	0.17	0.33	0.61
	Doctoral degree	-0.83	0.54	0.13
	Secondary school	.856*	0.40	0.03
Deckeley's	High school	$.720^{*}$	0.24	0.00
Bachelor's	College school	-0.06	0.27	0.82
degree	Master's degree	0.11	0.31	0.73
	Doctoral degree	-0.89	0.53	0.10
	Secondary school	0.75	0.44	0.09
Mastavia	High school	.614*	0.30	0.05
Master s	College school	-0.17	0.33	0.61
degree	Bachelor's degree	-0.11	0.31	0.73
	Doctoral degree	-1.00	0.56	0.08
	Secondary school	1.750*	0.62	0.01
Destaral	High school	1.614*	0.53	0.00
Doctoral	College school	0.83	0.54	0.13
uegree	Bachelor's degree	0.89	0.53	0.10
	Master's degree	1.00	0.56	0.08

# Table 4.31: Difference between education level and purchasing behavior

Tauthaua		Education land	Mean	Std.	<b>C</b> :-
Tamnane		Education level	Difference	Error	51g.
The		High school	0.33	0.57	1.00
The price	Secondary	College school	-0.42	0.57	1.00
OI 1	school	Bachelor's degree	-0.24	0.57	1.00
spending		Master's degree	-0.13	0.60	1.00

per		Doctoral degree	-1.38	0.74	0.78
month		Secondary school	-0.33	0.57	1.00
		College school	742*	0.23	0.03
	High school	Bachelor's degree	-0.56	0.24	0.27
		Master's degree	-0.45	0.30	0.91
		Doctoral degree	-1.70	0.53	0.42
		Secondary school	0.42	0.57	1.00
	Callaga	High school	$.742^{*}$	0.23	0.03
	College	Bachelor's degree	0.18	0.23	1.00
	school	Master's degree	0.29	0.30	1.00
		Doctoral degree	-0.96	0.53	0.91
		Secondary school	0.24	0.57	1.00
	De cheler?e	High school	0.56	0.24	0.27
	Bachelor s	College school	-0.18	0.23	1.00
	degree	Master's degree	0.11	0.30	1.00
		Doctoral degree	-1.14	0.53	0.80
		Secondary school	0.13	0.60	1.00
	Master's	High school	0.45	0.30	0.91
	degree	College school	-0.29	0.30	1.00
	degree	Bachelor's degree	-0.11	0.30	1.00
		Doctoral degree	-1.25	0.56	0.71
		Secondary school	1.38	0.74	0.78
	Doctoral	High school	1.70	0.53	0.42
	degree	College school	0.96	0.53	0.91
	ucgiec	Bachelor's degree	1.14	0.53	0.80
		Master's degree	1.25	0.56	0.71

Demographic Profile (occupation) and Purchasing Behavior (ANOVA test)

Result from testing 4.32 revealed that different occupation has different level of the frequency of usage per month. (Sig.=0.000, p < 0.05), it also revealed that different occupation has different level of the price of spending per month. (Sig. =0.000, p<0.05)

		df	Mean Square	F	Sig.
The frequency of	Between Groups	3	7.908	8.179	0.000*
usage per month	Within Groups	116	0.967		
The price of spending per	Between Groups	3	7.048	7.651	0.000*
month	Within Groups	116	0.921		

 Table 4.32: Difference between occupation and purchasing behavior

\*Level of significant  $\alpha = 0.05$ 

Table 4.33 showed that equal variances are assumed across different occupation (sig.=0.893, p>0.05), so the value of LSD test shall be used. Table 4.34 showed that the frequency of usage per month of working is more than retired. (Mean = 2.88-1.75) the frequency of usage per month of working is more than student. (Mean = 2.88-2.02)

Table 4.33 also showed that equal variances are assumed across different occupation (sig.=0.765, p>0.05), so the value of LSD test shall be used. Table 4.35 showed that the price of spending per month of working is more than retired. (Mean = 2.75-1.88) the price of spending per month of working is more than homemaker. (Mean = 2.75-2.08) the price of spending per month of working is more than student. (Mean = 2.75-1.86)

		Levene Statistic	df1	df2	Sig.
The frequency ofBaselineusage per monthMageline	ased on lean	0.204	3	116	0.893
The price of Ba	ased on	0.384	3	116	0.765
spending per monul M	Call				

 Table 4.33: Difference between occupation and purchasing behavior

 Table 4.34: Difference between occupation and purchasing behavior

LSD		Occupation	Mean Difference	Std. Error	Sig.
		Retired	$1.125^{*}$	0.28	0.00
	Working	Homemaker	0.46	0.32	0.15
		Student	.852*	0.21	0.00
		Working	-1.125*	0.28	0.00
The	Retired	Homemaker	-0.67	0.38	0.08
frequency		Student	-0.27	0.29	0.34
or usage		Working	-0.46	0.32	0.15
per	Homemaker	Retired	0.67	0.38	0.08
monun		Student	0.39	0.32	0.22
		Working	852*	0.21	0.00
	Student	Retired	0.27	0.29	0.34
		Homemaker	-0.39	0.32	0.22

# Table 4.35: Difference between occupation and purchasing behavior

LSD		Occupation	Mean Difference	Std. Error	Sig.
The price	Working	Retired	.875*	0.28	0.00
of	working	Homemaker	.667*	0.31	0.03

spending		Student	$.886^{*}$	0.20	0.00
per		Working	875*	0.28	0.00
month	Retired	Homemaker	-0.21	0.37	0.57
		Student	0.01	0.28	0.97
		Working	667*	0.31	0.03
	Homemaker	Retired	0.21	0.37	0.57
		Student	0.22	0.31	0.48
		Working	886*	0.20	0.00
	Student	Retired	-0.01	0.28	0.97
		Homemaker	-0.22	0.31	0.48

Demographic Profile (income) and Purchasing Behavior (ANOVA test)

Result from testing 4.36 revealed that different income has different level of the frequency of usage per month. (Sig. =0.00, p< 0.05), it also revealed that different income has different level of the price of spending per month. (Sig.= 0.02, p<0.05)

Table 4.36: Difference between income and purchasing behavior

		df	Mean Square	F	Sig.
The frequency	Between Groups	3	6.424	6.392	0.000*
of usage per	Within Groups	116	1.005		
month					
The price of	Between Groups	3	3.45	3.401	0.020*
spending per	Within Groups	116	1.014		
month	within Oroups	110	1.014		

\*Level of significant  $\alpha = 0.05$ 

Table 4.37 showed that equal variances are assumed across different income (sig.=0.43, p>0.05), so the value of LSD test shall be used. Table 4.38 showed that the

frequency of usage per month of lower than 4,000 is less than 4,001-6,000. (Mean = 1.9-2.39) the frequency of usage per month of lower than 4,000 is less than 6,001-10,000. (Mean = 1.9-2.7) the frequency of usage per month of lower than 4,000 is less than more than 10,000. (Mean = 1.9-3.15)

Table 4.37 also showed that equal variances are assumed across different income (sig.=0.338, p>0.05), so the value of LSD test shall be used. Table 4.39showed that the price of spending per month of lower than 4,000 is less than more than 10,000. (Mean = 1.93-2.92) the price of spending per month of between 4,001-6,000 is less than more than 10,000. (Mean = 2.27-2.92).

		Levene Statistic	df1	df2	Sig.
The frequency of	Based				
uses per month	on	0.928	3	116	0.43
usage per monur	Mean				
The price of	Based				
spanding par month	on	1.135	3	116	0.338
spending per montin	Mean				

Table 4.37. Difference between income and purchasing benavior
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Table 4.38: Difference be	etween income and	purchasing	behavior
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LSD		Income	Mean Difference	Std. Error	Sig.
The	Lower than 4,000	4,001-6,000	486*	0.22	0.03
frequency		6,001-10,000	796*	0.26	0.00
of usage		More than 10,000	-1.254*	0.32	0.00
per month	4,001-6,000	Lower than 4,000	.486*	0.22	0.03
	6,001-10,000	-0.31	0.26	0.23	
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	More than 10,000	767*	0.32	0.02	
	Lower than 4,000	.796*	0.26	0.00	
6,001-10,000	4,001-6,000	0.31	0.26	0.23	
	More than 10,000	-0.46	0.35	0.19	
Mana than	Lower than 4,000	1.254*	0.32	0.00	
More than	4,001-6,000	.767*	0.32	0.02	
10,000	6,001-10,000	0.46	0.35	0.19	

 Table 4.39: Difference between income and purchasing behavior

LSD		Income	Mean Difference	Std. Error	Sig.
	L anna than	4,001-6,000	-0.35	0.22	0.12
		6,001-10,000	-0.42	0.26	0.11
	4,000	More than 10,000	998*	0.32	0.00
		Lower than 4,000	0.35	0.22	0.12
The price	4,001-6,000	6,001-10,000	-0.08	0.26	0.77
of	More than 10,000	650*	0.32	0.04	
spending -		Lower than 4,000	0.42	0.26	0.11
per	6,001-10,000	4,001-6,000	0.08	0.26	0.77
monui		More than 10,000	-0.58	0.35	0.10
-		Lower than 4,000	.998*	0.32	0.00
	More than	4,001-6,000	.650*	0.32	0.04
	10,000	6,001-10,000	0.58	0.35	0.10

Hypothesis 2

Multiple regression analysis was used to test Hypothesis 2

H2: There is an effect of service marketing mix 7P's on purchasing behavior of taxi service's customers in Shanghai.

Service marketing mix (7P"s) was described by product, price, place, promotion, people, process and physical evidence.

Purchasing behavior was measured by the frequency of usage per month, price of spending per month.

Partly support of H2 was found in this study as follows:

## Service marketing mix 7P's and the frequency of usage per month

- 1. Result from testing 4.40 revealed that the frequency of usage per month will be affected by product strategy. (Sig. = $.002 < \alpha 0.05$ ) It was also found that the set of the product strategy can explain 10.6% of variance in the frequency of usage per month. (Adjusted R square= .106, p <.05).
- 2. Result from testing 4.40 revealed that the frequency of usage per month will be affected by price strategy. (Sig. = $.000 < \alpha 0.05$ ) It was also found that the set of the price strategy can explain 18.3% of variance in the frequency of usage per month. (Adjusted R square= .183, p <.05).
- 3. Result from testing 4.40 revealed that the frequency of usage per month will be affected by place strategy. (Sig. =.001 <  $\alpha$  0.05) It was also found that the set of the place strategy can explain 10.9% of variance in the frequency of usage per month. (Adjusted R square= .109, p <.05).
- 4. Result from testing 4.40 revealed that the frequency of usage per month will be affected by promotion strategy. (Sig. =.000 <  $\alpha$  0.05) It was also found that the set

of the promotion strategy can explain 21.5% of variance in the frequency of usage per month. (Adjusted R square= .215, p < .05).

5. Result from testing 4.40 revealed that the frequency of usage per month will be affected by physical strategy. (Sig. = $.000 < \alpha 0.05$ ) It was also found that the set of the physical strategy can explain 15.8% of variance in the frequency of usage per month. (Adjusted R square= .158, p <.05).

	Adjusted R	Sig
	Square	Sig
Product	0.106	0.002*
Price	0.183	0.000*
Place	0.109	0.001*
Promotion	0.215	0.000*
People	0.078	0.060
Process	0.003	0.341
Physical	0.158	0.000*
	L	

#### Table 4.40: Effect of 7P'S on the frequency of usage per month

\*Level of significant  $\alpha = 0.05$ 

The coefficients values 4.41 showed that taxi service quality has positive effect on the frequency of usage per month (Beta = .333, p<.05). The coefficients values 4.41 also showed that book taxi online has positive effect on the frequency of usage per month (Beta = .215, p<.05).

In summary, the set of choose well-known taxi company (p>0.05), the taxi service quality (p<0.05) book taxi online (p<0.05) and choose taxi company that use new car models (p>0.05) can explain 10.6% of variance in the frequency of usage per month (Adjusted R square= .106, p <.05).

Product	Beta	t	Sig.
(Constant)		-0.927	0.356
I tend to choose well-known taxi company	0.135	1.346	0.181
I consider about the taxi service quality	0.333	3.479	0.001*
I tend to book taxi online	0.215	2.196	0.03*
I tend to choose taxi company that use new car models	0.078	0.869	0.386

Table 4.41: Effect of product strategy on the frequency of usage per month

The coefficients values 4.42 showed that select the taxi that offers the cheapest price has positive effect on the frequency of usage per month (Beta = .303, p<.05). In summary, the set of select the taxi that offers the cheapest price (p<0.05), pay higher price for the better ride experience (p>0.05) pay higher price for the higher quality taxi service (p>0.05) can explain 18.3% of variance in the frequency of usage per month .(Adjusted R square= .183, p<.05).

Price	Beta	t	Sig.
(Constant)		3.019	0.003
I often select the taxi that offers the cheapest price	0.303	-2.795	0.006*
I am fine to pay higher price for the better ride experience	0.032	0.334	0.739

#### Table 4.42: Effect of price strategy on the frequency of usage per month

I am fine to pay higher price for	0.176	1 596	0 113
the higher quality taxi service	0.170	1.570	0.115

1

The coefficients values 4.43 showed that take the taxi that is available around my workplace has positive effect on the frequency of usage per month (Beta = .376, p<.05). In summary, the set of take the taxi that is available around my workplace (p<0.05), take the taxi that is available around the place I stay (p>0.05) take the taxi in the areas that lack of public transportation (p>0.05) can explain 10.9% of variance in the frequency of usage per month .(Adjusted R square= .109, p <.05).

Place	Beta	t	Sig.
(Constant)		0.401	0.689
I often take the taxi that is available around the place I stay	0.115	1.258	0.211
I often take the taxi in the areas that lack of public transportation.	0.046	0.531	0.596
I often take the taxi that is available around my workplace.	0.376	4.103	0.000*

#### Table 4.43: Effect of place strategy on the frequency of usage per month

The coefficients values 4.44 showed that take the taxi that offer promotions has positive effect on the frequency of usage per month (Beta = .41, p<.05).

In summary, the set of take the taxi that offer promotions (p<0.05), book the taxi that charges no booking fee (p>0.05) see taxi information from out-of-home advertisement (p>0.05) see the taxi information from online advertising at official websites (p>0.05)

see the taxi information from online advertising via social media (p>0.05) can explain 21.5% of variance in the frequency of usage per month .(Adjusted R square= .215, p <.05).

Promotion	Beta	t	Sig.
(Constant)		5.451	0.000
I tend to take the taxi that offer promotions.	0.41	3.779	0.000*
I tend to book the taxi that charges no booking fee.	-0.08	-0.733	0.465
I tend to see taxi information from out- of-home advertisement	0.034	0.367	0.714
I tend to see the taxi information from online advertising at official websites.	0.111	1.203	0.231
I tend to see the taxi information from online advertising via social media e.g. Weibo	0.036	0.445	0.657

Table 4.44: Effect of promotion strategy on t	n the frequency of usage per mont	h
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The coefficients values 4.45 showed that choose the tidy taxi has positive effect on the frequency of usage per month (Beta = .302, p<.05). The coefficients values 4.45 also showed that choose the taxi that offers free WI-FI has negative effect on the frequency of usage per month (Beta = -.212, p<.05).

In summary, the set of choose the taxi equipped with GPS (p>0.05), choose the tidy taxi (p<0.05) choose the taxi that offers free WI-FI (p<0.05) and choose the taxi is

offered by well-known franchise brand (p>0.05) can explain 15.8% of variance in the frequency of usage per month .(Adjusted R square= .158, p <.05).

Physical	Beta	t	Sig.
(Constant)		-0.216	0.829
I tend to choose the tidy taxi	0.302	3.497	0.001*
I tend to choose the taxi that offers free WI-FI	-0.212	-2.449	0.016*
I tend to choose the taxi equipped with GPS	0.03	0.35	0.727
I tend to choose the taxi is offered by well-known franchise brand	0.104	1.203	0.231

Table 4.45: Effect of physical strategy on the frequency of usage per month

#### Service marketing mix 7P's and the price of spending per month

- 1. Result from testing 4.46 revealed that the price of spending per month will be affected by product strategy. (Sig. = $.033 < \alpha 0.05$ ) It was also found that the set of the product strategy can explain 8.6% of variance in the price of spending per month. (Adjusted R square= .055, p <.05).
- 2. Result from testing 4.46 revealed that the price of spending per month will be affected by price strategy. (Sig. = $.001 < \alpha 0.05$ ) It was also found that the set of the price strategy can explain 11.1% of variance in the price of spending per month. (Adjusted R square= .111, p <.05).
- 3. Result from testing 4.46 revealed that the price of spending per month will be affected by place strategy. (Sig. =.002 <  $\alpha$  0.05) It was also found that the set of

the place strategy can explain 10.0% of variance in the price of spending per month. (Adjusted R square= .100, p < .05).

- 4. Result from testing 4.46 revealed that the price of spending per month will be affected by promotion strategy. (Sig. = $.001 < \alpha 0.05$ ) It was also found that the set of the promotion strategy can explain 12.0% of variance in the price of spending per month. (Adjusted R square= .120, p <.05).
- 5. Result from testing 4.46 revealed that the price of spending per month will be affected by people strategy. (Sig. = $.002 < \alpha 0.05$ ) It was also found that the set of the people strategy can explain 10.1% of variance in the price of spending per month. (Adjusted R square= .101, p <.05).
- 6. Result from testing 4.46 revealed that the price of spending per month will be affected by physical strategy. (Sig. = $.001 < \alpha 0.05$ ) It was also found that the set of the physical strategy can explain 12.1% of variance in the price of spending per month. (Adjusted R square= .121, p <.05).

	Adjusted R	C'-
	Square	Sig
Product	0.055	0.033*
Price	0.111	0.001*
Place	0.100	0.002*
Promotion	0.120	0.001*
People	0.101	0.002*
Process	0.016	0.179
Physical	0.121	0.001*

 Table 4.46: Effect of 7P'S on the price of spending per month

\*Level of significant  $\alpha = 0.05$ 

The coefficients values 4.47 showed that taxi service quality has positive effect on the price of spending per month (Beta = .237, p<.05).

In summary, the set of choose well-known taxi company (p>0.05), the taxi service quality (p<0.05) book taxi online (p>0.05) choose taxi company that use new car models (p>0.05) can explain 5.5% of variance in the price of spending per month. (Adjusted R square= .055, p <.05).

Product	Beta	t	Sig.
(Constant)		-0.344	0.731
I tend to choose well-known taxi company	0.136	1.318	0.19
I consider about the taxi service quality	0.237	2.409	0.018*
I tend to book taxi online	0.105	1.044	0.299
I tend to choose taxi company that use new car models	0.122	1.321	0.189

Table 4.47: Effect of product strategy on the price of spending per month

The coefficients values 4.48 showed that select the taxi that offers the cheapest price has positive effect on the price of spending per month (Beta = .326, p<.05).

In summary, the set of select the taxi that offers the cheapest price (p<0.05), pay higher price for the better ride experience (p>0.05) pay higher price for the higher quality taxi service (p>0.05) can explain 11.1% of variance in the price of spending per month.(Adjusted R square= .111, p <.05).

Price	Beta	t	Sig.
(Constant)		3.503	0.001
I often select the taxi that offers the cheapest price	0.326	2.881	0.005*
I am fine to pay higher price for the better ride experience	0.005	0.048	0.961
I am fine to pay higher price for the higher quality taxi service	0.056	0.49	0.625

 Table 4.48: Effect of price strategy on the price of spending per month

The coefficients values 4.49 showed that take the taxi that is available around my workplace has positive effect on the price of spending per month (Beta = .369, p<.05). In summary, the set of take the taxi that is available around my workplace (p<0.05), take the taxi that is available around the place I stay (p>0.05) take the taxi in the areas that lack of public transportation (p>0.05) can explain 10.0% of variance in the price of spending per month .(Adjusted R square= .100, p <.05).

Fable 4.49: Effect of	place strategy on	the price of	f spending per month
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Place	Beta	t	Sig.
(Constant)		0.822	0.413
I often take the taxi that is available around the place I stay	0.09	0.975	0.332

I often take the taxi in the areas that lack of public transportation.	0.000	0.001	0.999
I often take the taxi that is available around my workplace.	0.369	4.006	0.000*

The coefficients values 4.50 showed that take the taxi that offer promotions has positive effect on the price of spending per month (Beta = .255, p<.05).

In summary, the set of take the taxi that offer promotions (p<0.05), book the taxi that charges no booking fee (p>0.05) see taxi information from out-of-home advertisement (p>0.05) see the taxi information from online advertising at official websites (p>0.05) see the taxi information from online advertising via social media (p>0.05) can explain 12.0% of variance in the price of spending per month.(Adjusted R square= .120, p <.05).

## Table 4.50: Effect of promotion strategy on the price of spending per month

Promotion	Beta	t	Sig.
(Constant)		5.35	0.000
I tend to take the taxi that offer promotions.	0.255	2.225	0.028*
I tend to book the taxi that charges no booking fee.	-0.17	-1.465	0.146
I tend to see taxi information from out-of-home advertisement	0.072	0.738	0.462

I tend to see the taxi information from online advertising at official websites.	-0.039	-0.397	0.692
I tend to see the taxi information from online advertising via social media e.g. Weibo	-0.019	-0.225	0.822

The coefficients values 4.51 showed that choose the taxi company has well-known owner has positive effect on the price of spending per month (Beta = .209, p<.05). In summary, the set of choose the taxi company has well-known owner (p<0.05), choose the taxi company has professional drivers (p>0.05) choose the taxi company has strict service rules (p>0.05) can explain 10.1% of variance in the price of spending per month .(Adjusted R square= .101, p <.05).

People	Beta	t	Sig.
(Constant)		-0.714	0.477
I tend to choose the taxi company has professional drivers.	0.131	1.352	0.179
I tend to choose the taxi company has strict service rules.	0.139	1.474	0.143
I tend to choose the taxi company has well-known owner	0.209	2.271	0.025*

Table 4.51: Effect of people strategy on the price of spending per month

The coefficients values 4.52 showed that choose the tidy taxi has positive effect on the price of spending per month (Beta = .313, p<.05).

In summary, the set of choose the taxi equipped with GPS (p>0.05), choose the tidy taxi (p<0.05) choose the taxi that offers free WI-FI (p>0.05) and choose the taxi is offered by well-known franchise brand (p>0.05) can explain 12.1% of variance in the price of spending per month .(Adjusted R square= .121, p <.05).

Physical	Beta	t	Sig.
(Constant)		-1.614	0.109
I tend to choose the tidy taxi	0.313	3.545	0.001*
I tend to choose the taxi that offers free WI-FI	-0.013	-0.149	0.882
I tend to choose the taxi equipped with GPS	0.125	1.418	0.159
I tend to choose the taxi is offered by well-known franchise brand	0.129	1.461	0.147

Table 4.52: Effect of	physical strategy (	on the price of s	pending per month

Hypothesis 3

Multiple regression hypothesis was used to test hypothesis 3

H3: There is an effect of safety on purchasing behavior of taxi service's customers in Shanghai.

Purchasing behavior was measured by the frequency of usage per month, price of spending per month.

Partly support of H3 was found in this study as follows:

Safety and Purchasing Behavior

Result from testing 4.53 revealed that the frequency of usage per month will be affected by psychological. (Sig. =.024 <  $\alpha$  0.05) It was also found that the set of the psychological strategy can explain 6.0% of variance in the frequency of usage per month. (Adjusted R square= .060, p <.05).

 Table 4.53: Effect of safety on the frequency of usage per month

	Adjusted R	Q:
	Square	51g
Physical	0.003	0.955
Psychological	0.060	0.024*

\*Level of significant  $\alpha = 0.05$ 

The coefficients values 4.54 showed that choose to sit behind the taxi driver has positive effect on the frequency of usage per month (Beta = .197, p<.05).

In summary, the set of pay attention to license plate number when I take a taxi (p>0.05) deliberately choose to sit behind the taxi driver (p<0.05) avoid talking to the driver when taking a taxi (p>0.05) call my friends or relatives when I take a taxi (p>0.05) can explain 6.0% of variance in the frequency of usage per month. (Adjusted R square= .060, p <.05).

Psychological	Beta	t	Sig.
(Constant)		7.525	0.000
I will pay attention to license plate number when I take a taxi	-0.013	-0.134	0.893
I will avoid talking to the driver when taking a taxi	-0.033	-0.264	0.792
I will call my friends or relatives when I take a taxi	-0.145	-1.209	0.229
I will deliberately choose to sit behind the taxi driver	0.193	1.957	0.043*

 Table 4.54: Effect of psychological on the frequency of usage per month

Result from testing 4.55 revealed that the price of spending per month are not found affected by physical and psychological. (Sig. >0.05)

#### Table 4.55: Effect of safety on the price of spending per month

	Adjusted R	Sig
	Square	Sig
Physical	0.002	0.968
Psychological	0.04	0.316

Note: Level of significance  $\alpha = 0.05$ 

In conclusion, this study found a partly support of following hypotheses:

H1\*: Customers with different demographic profile will have different purchasing behavior towards taxi service in Shanghai.

H 2\*: There is an effect of service marketing mix (7P"s) on the purchasing behavior of taxi service's customers in Shanghai.

H 3\*: There is an effect of safety concerns on the purchasing behavior of taxi service's customers in Shanghai.

Remark: partly significant at 0.05

## **Chapter 5**

## **Conclusion and Recommendations**

This study aims to determine the difference between demographic profile and purchasing behavior of taxi service's customers in Shanghai, China. Secondary, to determine the effect of service marketing mix (7Ps) on purchasing behavior of taxi service's customers in Shanghai, China. Finally, to determine the effect of safety concerns on purchasing behavior of taxi service's customers in Shanghai, China.

In conclusion, the respondents are the customers of taxi service in Shanghai. Most of them are female, single, aged between 21-35 years old, high school education. They are mostly working with average monthly income of 4001-6000RMB.

Most of respondents agreed that tending to choose well-known taxi company, considering about the taxi service quality, selecting the taxi that offers the cheapest price, taking the taxi that is available around the place I stay, taking the taxi in the areas that lack of public transportation, tending to take the taxi that offer promotions, tending to book the taxi that charges no booking fee, tending to see the taxi information from online advertising, tending to choose the taxi company has professional drivers, tending to choose the taxi company has strict service rules, tending to choose the taxi company has well-known owner, tending to choose the taxi company has online booking service, tending to choose the taxi company has a convenience of payment, tending to choose the taxi is offered by well-known franchise brand.

Then most of respondents agreed that they will pay special attention to taxi driver's licenses, they will care whether the taxi has a location tracking system and they will pay attention to license plate number.

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Most of the taxi service's customers in Shanghai will use taxi service during 12:00am-18:00pm. The usage frequency of the respondents were 11-15 times per month with the spending budget of 201-500RMB. The majority of respondents tended to choose the taxi service because save time and without location restrictions. Most of them tend to spend the money by using Alipay.

This leads to development of conceptual framework of the study (see Figure 1.1) and the following hypothesis:

H1: Customers with different demographic profile will have different purchasing behavior towards taxi service in Shanghai.

H 2: There is an effect of service marketing mix (7P''s) on the purchasing behavior of taxi service's customers in Shanghai.

H 3: There is an effect of safety concerns on the purchasing behavior of taxi service's customers in Shanghai.

Note: \*Partial support at significant level of 0.05

#### 5.1 Discussion

This research study aimed to determine the difference between demographic profile and purchasing behavior of taxi service's customers in Shanghai and to determine the effect of service marketing mix (7Ps) and the safety concerns on purchasing behavior of taxi service's customers in Shanghai. Some of research findings can be discussed as follows:

With regard to hypothesis 1, the study found that young people age between 21-35 are more inclined to use taxis, and the income of taxi customers are generally not high. This is the same as the results of Khaled Shaaban (2016), but the study found that married people in Shanghai are more likely to use taxi services than single, which is different from the results of the test and may be related to the different consumption habits of consumers in different places.

At the same time, consumers with different gender, age, status, education level, occupation, and monthly income are found have different purchasing behaviors in service usage time, usage frequency of the taxi service per month, spending amount of taxi service per month, the reason for choosing the taxi service and payment methods. These findings are basically consistent with the conclusions drawn by Natapong Techarattanased (2015) on the buying behavior of Bangkok taxi consumers. He found that consumers with different gender, education level and monthly income have different service usage behaviors in the usage frequency of the taxi service per month.

With regard to hypothesis 2, the study found that product, price, place, promotion and physical affect the frequency of usage per month for taxi consumers. Secondly, product, price, place, promotion, people and physical affect the price of spending per month. Among them, consumers pay special attention to the level of service quality, the convenience of taking taxis, the level of prices, special preferential activities, the hygiene of taxis and the popularity of taxi companies. These factors together affect the purchasing behavior of taxi consumers.

With regard to hypothesis 3, the study found that safety concerns affect the frequency of usage per month, it is basically the same as the results of Emmanuel Nondzor Horsu (2015). Consumers basically do not worry about the safety of taxis, which exposes the weak safety awareness of Shanghai taxi consumers. Consumers should remain vigilant to protect the safety of their lives and property. At the same time, taxi managers should cherish the trust from consumers, and strictly manage and restrict the behavior of drivers, so that consumers can be more assured of taxi safety.

#### 5.2 Implication of the study

- From the study, the respondents are the customers of taxi service in Shanghai. Most of them are female, single, aged between 21-35 years old, high school education. They are mostly working with average monthly income of 4001-6000RMB. Therefore, how to attract higher-income and higher-educated consumers has become the direction for decision makers in the future. Whether it can provide models suitable for high-end users or provide new forms of services.
- 2. Users are more interested in taxis and companies that do not have booking fees and provide more discounts. Therefore, how corporate decision makers can use discounts to get more customers in the future has become the direction of corporate consideration.
- Service quality has always been the focus of consumers, and corporate decisionmakers should improve corporate management and restrain taxi drivers' behavior. Communicating with consumers more actively, exchanging user experience, and understanding the true thoughts of users will help to improve the quality of service.
- 4. Although most consumers are not worried about the safety of taxis, business managers cannot ignore this problem. Only companies that put service safety first can reap the hearts of more consumers. With the advancement and development

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of technology, more advanced equipment will be used in taxis, and it is believed that taxi services will become more and more secure in the future.

In short, this result may benefit Shanghai's taxi companies, taxi drivers and taxi consumers. They can be used as guidelines to improve its marketing strategy to better capture the rapid changes in the Shanghai taxi market

#### 5.3 Future study

The limitations of this study still leave the room for future studies in this area as follow;

- The future study may replicate this study and extend sampling frame to other cities in different county. The larger sample size may help to increase the explanation power of the finding.
- Another avenue for future study is to conduct a comparative study, comparing the factor affecting purchasing behavior of customers in different public transportation service, such as bus, subway.
- 3. Other recommendation for future study is branding affecting purchasing behavior of customer select the taxi services in Shanghai.

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## **APPENDIX** A

#### Questionnaire

# Factors affecting the purchasing behavior of taxi service customers in Shanghai, PRC

This questionnaire is a partial fulfillment of the degree of Master of Business Administration concentration in Integrated Marketing Communications, College of Innovative Business and Accountancy – International Program, Dhurakij Pundit University. The data collect through these questions will be used to identify the Factors affecting the purchasing behavior of taxi service customers in Shanghai the information obtained will be kept confidential and used for academic study only.

Remark: This questionnaire has 4 parts: Part 1 Demographic profile Part 2 Service marketing mix (7ps) Part 3 Taxi safety concerns Part 4 Purchasing behavior of taxi customers

> Thank you very much for your kind assistance GUJIAHUI Email: 625151030009@dpu.ac.th

Instruction: Please mark [X] in the answer that most applicable to you.

#### **Part 1: Demographic Profile**

- 1. Gender [ ] 1. Male [ ] 2. Female
- 2. Age

[ ] 1.under20years old	[ ]2. 20-35 years old
[ ] 3. 36-50 years old	[ ] 4.above50years old
3. What is your marital status?	
[ ] 1. Single	[ ] 2. Married
4. Your Education Level	
[ ] 1. Secondary School	[ ] 2. High School
[ ]3.College degree.	[ ] 4. Bachelor degree
[ ] 5. Master degree	[ ] 6. Doctoral degree
5. What is your occupation?	
[ ] 1. Working	[ ] 2. Retired
[ ] 3. Homemaker	[ ] 4.Student
[ ] 4.others	
6. Your average income per month	
[ ] 1. Lower than 4,000 CNY	[ ] 2. 4,001-6,000 CNY
[ ] 3. 6,001-10,000 CNY	[ ] 4. More than 10,000 CNY

# Part 2 Service marketing mix (7ps)

Instruction: Please mark  $\boxtimes$  on the number that mostly describes your level of agreement to

the below statements using the scale:

- 5 = Strongly agree with the statement
- 4 = Agree with the statement
- 3 = Feel neutral with the statement
- 2 =Disagree with the statement
- 1 = Strongly disagree with the statement

Possible Factors in term of Service Marketing Mix (7Ps)		Level of Agreement						
		4	3	2	1			
Product								
1. I tend to choose a well-known taxi company.	5	4	3	2	1			

2. I consider about the taxi service quality.	5	4	3	2	1	
3. I tend to book taxi online	5	4	3	2	1	
4.I tend to choose taxi company that use new car models.	5	4	3	2	1	
Price						
1. I often select the taxi that offers the cheapest price.	5	4	3	2	1	
2. I am fine to pay higher price for the better ride experience.	5	4	3	2	1	
3I am fine to pay higher price for the higher quality taxi service.	5	4	3	2	1	
Place						
1. I often take the taxi that is available around the place I stay.	5	4	3	2	1	
2. I often take the taxi in the areas that lack of public transportation.	5	4	3	2	1	
3. I often take the taxi that is available around my workplace.	5	4	3	2	1	
Promotion	•					
1. I tend to take the taxi that offer promotions.	5	4	3	2	1	
2.I tend to book the taxi that charges no booking fee.	5	4	3	2	1	
3.I tend to see taxi information from out-of-home advertisement e.g. billboard	5	4	3	2	1	
4.I tend to see the taxi information from online advertising at official websites.	5	4	3	2	1	
5.I tend to see the taxi information from online advertising via social media e.g. Weibo	5	4	3	2	1	
People						
1.I tend to choose the taxi company has professional drivers.	5	4	3	2	1	
2.I tend to choose the taxi company has strict service rules.	5	4	3	2	1	
3.I tend to choose the taxi company has well-known owner5432			1			
Process						

	1	1	1	1	
1. I tend to choose the taxi company that has online booking service	5	4	3	2	1
2. I tend to choose the taxi company that has a convenience of payment e.g. WeChat pay	5	4	3	2	1
3. I tend to choose the taxi company that has enough taxis on the road.	5	4	3	2	1
Physical evidence					
1. I tend to choose the tidy taxi e.g. cleanliness, hygiene	5	4	3	2	1
2. I tend to choose the taxi that offers free Wi-Fi.	5	4	3	2	1
3. I tend to choose the taxi equipped with GPS.	5	4	3	2	1
4. I tend to choose the taxi is offered by well-known franchise brand e.g. DAZHONG QIANGSHENG	5	4	3	2	1

## Part 3 Taxi safety concerns

Instruction: Please mark  $\boxtimes$  on the number that mostly describes your level of agreement to

the below statements using the scale:

- 5 = Strongly agree with the statement
- 4 = Agree with the statement
- 3 = Feel neutral with the statement
- 2 =Disagree with the statement
- 1 = Strongly disagree with the statement

Safety concerns						
Physical						
1. I will pay special attention to taxi driver's licenses.	5	4	3	2	1	
2. I will care whether the taxi has a location tracking system.	5	4	3	2	1	
3. I will let the driver take the route recommended by the navigation	5	4	3	2	1	
Psychological						

1. I will pay attention to the license plate number when I take a taxi.	5	4	3	2	1
2. I will avoid talking to the driver when taking a taxi.	5	4	3	2	1
3. I will call my friends or relatives when I take a taxi.	5	4	3	2	1
4. I will deliberately choose to sit behind the taxi driver.	5	4	3	2	1

## Part 4 Purchasing behavior of taxi service customer's in Shanghai

1.	What time do you mostly use taxi	service?				
	[ ] 1. 6:00Am~12:00Am	[ ] 2. After12:00Am~18:00Pm				
	[ ] 3. After18:00Pm~24:00Pm	[ ] 4. After0:00Am~6:00Am				
2.1	How many times do you use the tax	i service per month?				
	[ ] 1.0-5 times	[ ]2. 6-10 times				
	[ ] 3. 11-15 times	[ ] 4.more than 15 times				
3. How much do you spend on taxi service per month?						
	[ ] 1. 0-200 yuan	[ ] 2. 201-500 yuan				
	[ ] 3. 501-800yuan	[ ] 4. More than 800 yuan				
4.	Why do choose taxi service?					
	[ ] 1. Comfortable environment	[ ] 2. Good service				
	[ ] 3. Save time.	[ ] 4. Without location restrictions				
	[ ] 5. Other					
5.	How do you mostly pay in taxi ser	rvice?				
	[ ] 1. Cash [ ] 2. Credit	t card				

[ ] 3. Alipay [ ] 4. WeChat

# Thank you very much for your time!