

FINAL RESULTS PRESENTATION

December 12, 2022

Presented by the University of Aruba and the University of South Carolina





INTRODUCTION

THE IMPORTANCE OF THIS STUDY

Quality of life depends on transport. Most people travel every day and need an efficient transport system to support a strong and prosperous economy. Tourists needing to get from point A to point B, but also locals getting to work to uphold the economy. Road transport is vital to the economic development and social integration of the country (Oscar Saenz-de-Miera et. al., 2012).

RESEARCH STUDY





Part 1: Current Policies, Procedures and Regulations

Research was conducted on existing policies and procedures on permit administration and regulations. This information created the basis for the white paper and provided insight to determine how effective the current policies and procedures are in relation to the demand of permit holders in comparison to needs of tourists and locals for transport.

Part 2: Supply, Demand and Satisfaction

Based on previous studies of tourist demand and local needs for transportation, interviews were conducted with public transportation permit owners. These interviews and focus groups were conducted, and themes discerned. In addition, a survey was administered to evaluate tourists' and locals' demand for public transportation to assess the supply and demand as well as satisfaction with public transportation.

Part 3: Recommendations and Conclusions

This report was produced by using primary data collected during the months of June-September 2022, including but not limited to interviews, focus groups, site visits, observations, primary data collected using online and face to face surveys. Interview and focus group content was assessed using content analysis and thematic coding. Statistical analysis for the survey results was done using SPSS v. 28

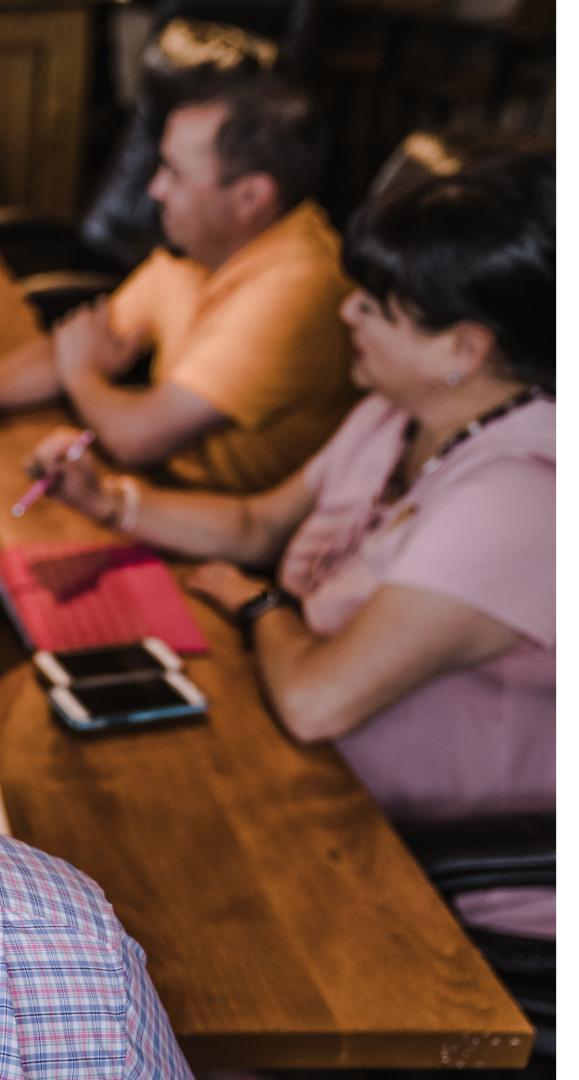
CURRENT SITUATION

Policies, Procedures & Regulations

The scope of this part of the study focused on providing an overview of the status of allowed permits and registered permits. The report is comprised of the following sections: definitions of transportation categories in Aruba, average number of available permits per category, average number of permits in use per category, policies, and procedures for permits per category, and estimated number of employees per category.

POLICIES

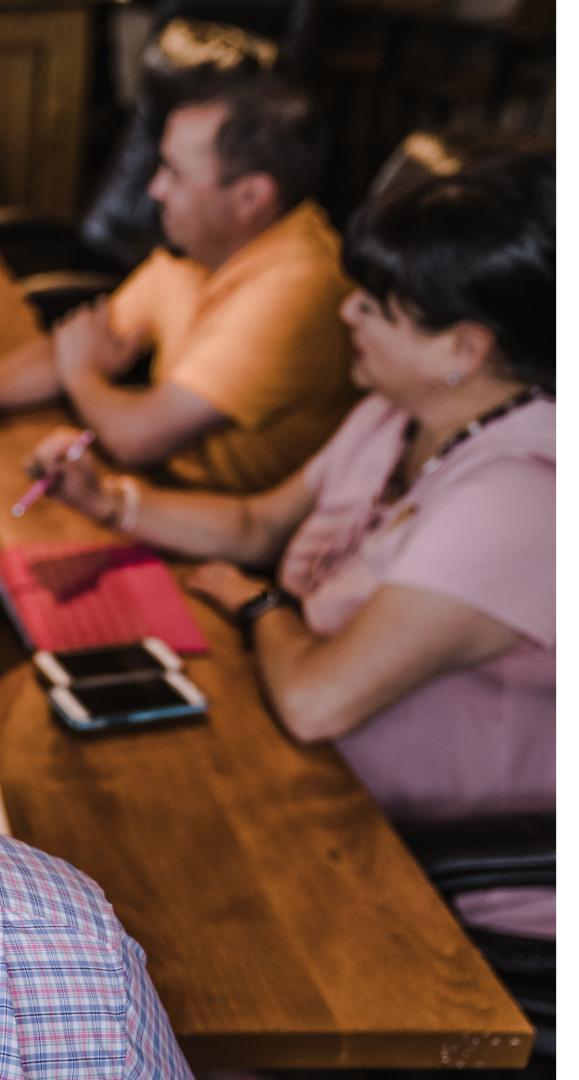
PROCEDURES



RESULTS: PROBLEMS

Part 1: Current Policies, Procedures and Regulations

- Permit process needs to be restructured;
- Previous permits were given based on political favors;
- No clear and objective policies and procedures on how to process renewals, complaints, new permits, helper drivers;
- Loose / unrigurous requirements / criteria for new permits, renewals, etc.;
- The LV (Law) incorporates a "commission" to give advice to the minister, however this is non-existent in the actual structure;
- Many pending applications, dating back to many years, no formal database or procedure to handle these requests are in place;
- Irregular Transport (O) permit requirements are vague/loose, causing many issues;
- Staffing at DTP: legal advisors for policies, BOA officers for control, need training and personal development.



RECOMMENDATIONS

Part 1: Current Policies, Procedures and Regulations

- Re-evaluate permitting process and structure accordingly to;
- De-politicize how permits are being given based on rules, regulations, set criteria and requirements;
- Digitize processes to create objective and transparent procedures for renewals, complaints, new permits, helper drivers, etc.;
- Introduce more stringent requirements / criteria for new permits, renewals, etc. for example ACP, training, language tests, and so on;
- Formally establish the "commissie personenvervoer" to give advice to the minister as stated in the LV, this is being implemented in St.Maarten and the law is in place;
- Use blockchain technology to make the permitting process more efficient and transparent.
- Introduce more stringent requirements / criteria for Irregular Transport
 (O) permit requirements to tackle the many issues;
- DTP employee training and development, hire legal advisors to structure policies and procedures, certify existing employees as BOA officers to implement (control), train staff for digital tools needed to be efficient and effective.

240 155 465 + **123**

T/O Drivers Bus Drivers

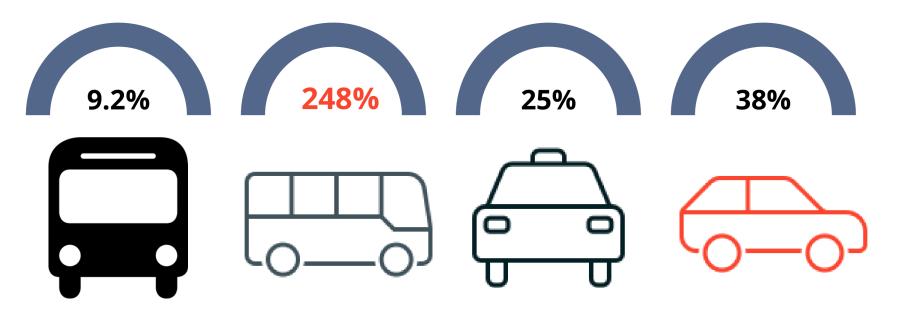
Taxi + Helper Drivers

According to DTP an estimated total of almost 1,000 drivers contribute to the public transportation industry. (Excl. Car Rentals / Tour Companies)

"Quality of life depends on transport."



GROWTH 2015-2022



33.9% 90,000

Total

Vehicles

There is a total of 6,349 vehicles with permits registered as T, O, TX and V at the Tax Department as per October 2022

CURACAO (444 KM2) HAS A TOTAL OF 151,066 INHABITANTS, AND A TOTAL NUMBER OF 538 PASSENGER CARS PER 1000 INHABITANTS (2019)
ARUBA (180KM2) HAS A TOTAL NUMBER OF 685 PASSENGER CARS PER 1000 INHABITANTS (2019).

FOCUS GROUPS

Section Two

This section discusses the results and main findings of the qualitative part of the study. These results were obtained from the interview process and subsequent data analysis. Altogether, the data collection and analysis process had an approximate duration of three to four months. The data collected was obtained from permit holders that went through the process of requesting a permit and are currently actively working as taxi or bus drivers. It must be noted that the presented results were completely provided by the participants and the researchers had no influence on the data provided.

TAXIS

BUSES

Part 2: Supply, Demand and Satisfaction

"To have the permit as a secondary pension income."

"Disfruta di mi pensioen si nos por logra instala uno."

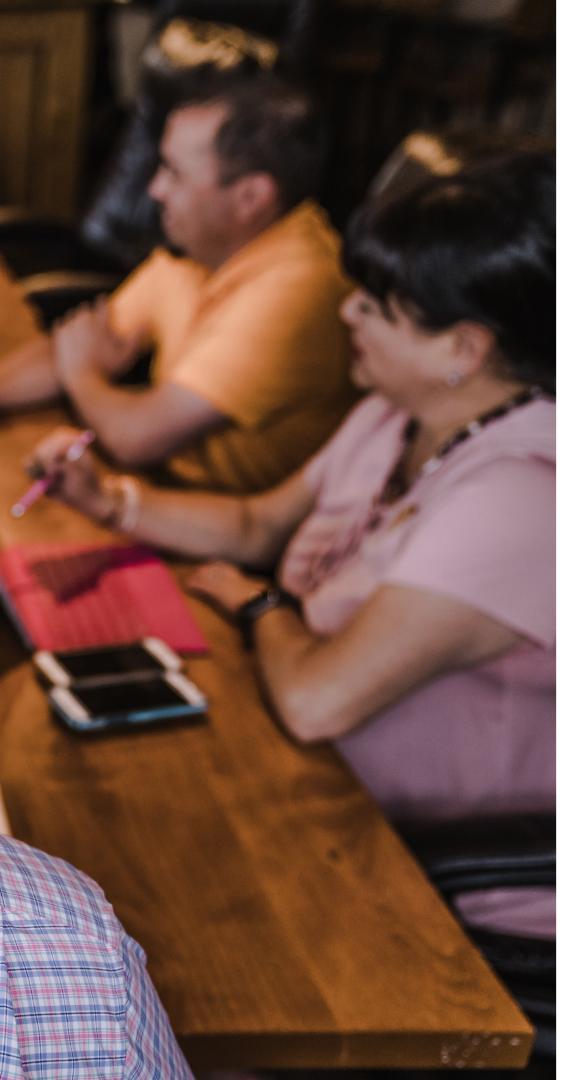
"This permit has been in my family for 3 generations already, granddad, my father now it is in my name, so when it comes the time I will transfer it to my son."

"Pa añas nan largo tur gobierno a hasi negoshi cu vergunning nan di taxi ."

"Atende ku e pirata nn, nos tin ku cumpli ku gobierno y e pirata nn no ta cumpli ku net net nada."

"No mishi cu mi vergunning."





FOCUS GROUP SETUP & SIZE

- Please describe the permitting process as you know it.
- Please describe the permitting process as you experienced it. How long ago was that permit granted to you?
- Please tell us about your business in detail and how often you must deal with renewal or dealing with the Minister of Transportation regarding permitting your vehicles.
- Do you think that the process is fair and equitable to everyone?
- Why or why not?
- What would you change with the process to ensure it is fair and equitable?
- Are you satisfied with the procedures that you had to go through to get your permit?
- Why or why not?
- Is there a better way to determine who gets the permits from the government? Describe.

Focus group size: taxi drivers, gender distribution 3 females, 12 males the participant ranged from 10 – 34 years of work experience, and differed in how the permit was obtained, from receiving from parent, through being a helper-driver, or a political favor.

"I would like the government to involve us personally when taking any decision and not only involve taxis dispatcher service. (we buy dispatch service, they are not our spokesmen)"

"Control riba T/O. Esey so mi ta desea."

"Con ta posible cu después di década nan ainda no tin un pension funds pa taxi."

"Not to mention cuando chauffeur di taxi di edad nan avanza ainda ta core taxi."

RESULTS: PROBLEMS

- The most discussed item by the participants in transportation issues were **pirate transportation**, specifically in the North area, passengers to be transported from North to Oranjestad.
- The main issues mentioned for the permit holders is in the hotel area- between the TX (Taxis), T (Tour Operators), and O (Unregulated Operators).
- The tourists do not know the difference between the three types of transportation options.
- The permit holders do not adhere to the rules stipulated by the permit. In particular, some T & O permit holders are doing the jobs of both taxis and tour operators.



RESULTS: PROBLEMS

- Another issue that was mentioned is overcharging.
- Even though the permit stipulates that the transfers need to be pre-paid as part of a packaged deal to pick up and drop off at the hotel/accommodation, there are instances where the O drivers offer incoming passengers the option to board on a bus vs. going outside to hail a taxi. Again, creating an unfair playing field because taxi drivers do not enter the airport arrival hall.
- Another participant mentioned that it is hard to get around the island as there are more drivers than is needed on the island. Taxi drivers and Bus drivers are earning less because of the Ts and Os.

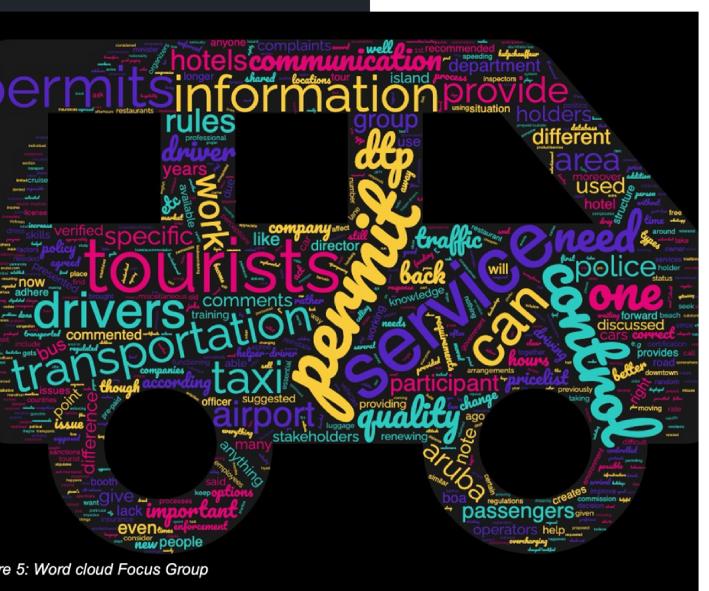


RESULTS: PROBLEMS

- The focus group participants think that specific skills are needed to be a good taxi driver, skills such as knowledge of Aruba (history of Aruba), being hospitable/friendly, knows the routes, and restaurant/ hotel locations. Also important is that they can speak the English language.
- Lack of control: Pirate Transportation affects Auto buses and Irregular Transportation affects Taxis;
- Lack of information/awareness (locals/visitors);
- Complaints / Tips are not handled: Overcharging,
 Drivers dressing inappropriately;

KEY RECOMMENDATIONS FROM FOCUS GROUPS

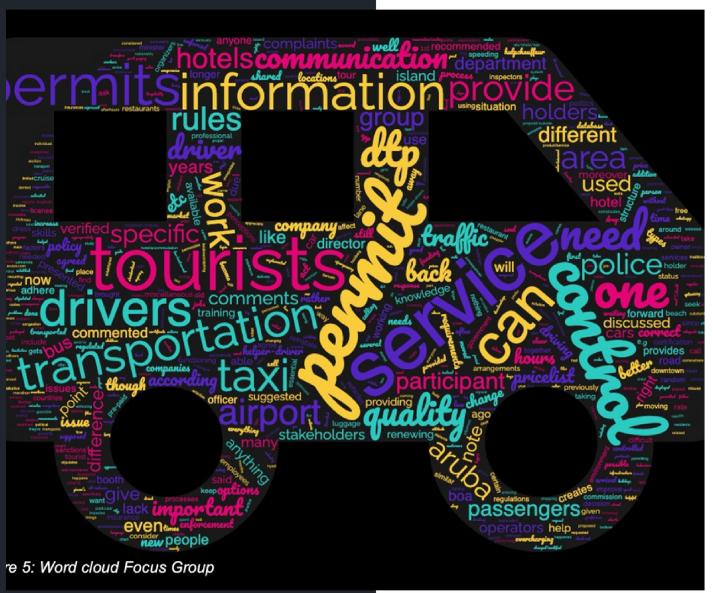




- Enforce the restrictions and protocols that are in place and introduce sanctions;
- Online complaint process;
- Revert to having a dispatcher booth at the airport.
- Control, control.
- Transportation App for information, booking, and payment of services, etc. E.g. TT rideshare
- A rigorous process for permit (dress code, cleanliness of car, speeding, file)
- Taxi rate sheet in taxis, QR Code on windows, Clear stickers on T / O
- Collaboration with ATA / AAA / TPEF for awareness, app development, etc.

KEY RECOMMENDATIONS





- Increase the communication at the airport and other locations to tourists to ensure that they are aware of the taxis, buses, and other transportation so that the playing field is level and that the tourists are aware of people that are not following the guidelines and rules that were established for them.
- Pirate Transportation: Tip line when identified, use Mystery shoppers to expose drivers, Substantial fines or sanctions for pirate transportation drivers;
- KPA collaboration for employees without formal degrees, but with years of experience to participate in BOA training;
- Collaborate with the Pension Fund Tourism Sector Aruba or others to secure their future;
- Recognize the contribution of the public transportation sector to the Tourism Industry.

Gender

Male / Homber	70.87%
Female / Muher	29.13%

Education

Primary education / Basis School	1.94%
Vocational Education (EPB)	13.59%
High school degree or equivalent (MAVO/GED, HAVO, VWO)	54.37%
Associate degree (EPI)	13.59%
Bachelor's degree (Universidad)	5.83%
Other (please specify)	10.68%

Willingness to follow training?

Increase 5 to 7

Yes	87.64%	Agree / Di acuerdo	65.00%
No	12.36%	Disagree / No di acuerdo	35.00%

Member Taxi Service

Yes	68.18%
No	31.82%

Permit Belongs to you

Yes	61.46%
No	38.54%

RESULTS SURVEY



TOURIST SURVEY RESULTS

- July-August 2022
- In person surveys and online link
- 195 total tourists
- 54.9% females and 36.4% males
- Over 54 age group had 53.3% of respondents
- 29.2% had Bachelor's degree and
 15.9% had graduate degrees
- 35% of respondents had more than \$100,000 in income
- 72.8% were revisitors (majority more than 10 times)

LOCALS SURVEY RESULTS

- July-September 2022
- In-person surveys and online link
- 574 total locals
- 49.3% females and 40.9% males
- 18-24 age group had 41.6% of respondents; 25-34 had 24.1%
- 46.5% had high school diplomas and 19.5% had Bachelor's degrees
- 41.5% of respondents had an income of less than AWG 20,000, 26.8% had an income of Awg 20,000-49,999

T: USE OF PUBLIC TRANSPORTATION

Table 13: How often do you use the following modes of transportation when in Aruba									
Modes of Transportation	1-never	2	3	4- daily	5	6	7-multiple times per day		
Rental Cars	115	15	4	23	2	3	32		
Taxicabs	42	62	32	35	2	7	8		
Mini-Buses	150	14	6	5	2	0	11		
AutoBuses	159	9	5	3	0	0	11		
Tour vehicles	141	31	2	3	1	0	9		
Other public transportation	166	5	5	2	0	0	10		

- THE MAJORITY OF TOURISTS WHO USED TRANSPORT WERE SATISFIED AND VERY SATISFIED WITH TRANSPORTATION ON THE ISLAND
- THE VAST MAJORITY OF TOURISTS DO NOT USE TRANSPORT OTHER THAN TAXI CABS.

T: SATISFACTION AND SERVICE QUALITY

Table 17: How would you rate the service quality of the following modes of transport	ation
on Aruba	

Modes of Transportation	1- terrible	2	3	4- average	5	6	7-extremely great service quality	NA- do not use
Rental Cars	0	0	1	13	11	12	35	116
Taxicabs	0	0	1	11	11	28	93	40
Minibuses	0	0	0	10	4	5	8	156
Autobuses	0	0	2	7	2	1	6	164
Tour vehicles	0	0	1	5	2	4	21	147
Other public	0	0	0	2	0	1	1	173
transportation								
Other	0	0	0	1	0	2	5	145

- 49% THOUGHT RENTAL CARS WERE EXTREMELY GREAT SERVICE, BUT OVERALL, ONLY 40% OF RESPONDENTS USED RENTAL CARS
- TAXIS WERE THE MOST HIGHLY RATED FOR SERVICE QUALITY

L: USE OF PUBLIC TRANSPORTATION

Table 30: How often do you use the following modes of transportation when in Aruba									
Modes of Transportation	1-never	2	3	4- daily	5	6	7-multiple times per day		
Rental Cars	401	97	27	20	8	5	14		
Taxicabs	448	69	24	10	9	4	4		
Buses	343	75	49	65	11	8	17		
Mini(Auto) Buses	383	67	46	47	9	8	11		
Tour vehicles	416	91	27	14	11	3	6		
Other public transportation	455	34	24	22	12	5	15		

• THE VAST MAJORITY OF LOCALS DO NOT USE TRANSPORT OTHER THAN BUSES AND MINI BUSES.

L: SATISFACTION AND SERVICE QUALITY

Table 33: How satisfied are you with the following modes of transportation on Aruba								
Modes of	1-not at	2	3	4-	5	6	7-very	NA- do
Transportation	all			neutral			satisfied	not use
	satisfied							
Rental Cars	54	13	17	69	42	49	87	224
Taxicabs	53	21	22	66	38	45	49	253
Buses	39	18	51	100	61	51	52	186
Mini(Auto)Buses	49	18	37	107	51	45	34	214
Tour vehicles	55	10	20	56	51	36	53	265
Other public	60	13	14	65	21	20	24	330
transportation								

• ABOUT A THIRD OF LOCALS (29%) WHO USED TRANSPORT WERE SATISFIED AND VERY SATISFIED WITH TRANSPORTATION ON THE ISLAND

L: SATISFACTION AND SERVICE QUALITY

Table 34: How would you rate the service quality of the following modes of transpo	ortation on
Aruba	

Modes of Transportation	1- terrible	2	3	4- average	5	6	7-extremely great service quality	NA- do not use
Rental Cars	39	12	20	108	39	57	65	214
Taxicabs	37	8	22	90	45	49	51	247
Buses	28	9	40	154	53	47	43	183
Mini(Auto)Buses	33	14	48	148	43	33	27	209
Tour vehicles	44	4	14	83	48	36	56	267
Other public	45	12	17	80	22	18	17	333
transportation								

• BUSES AND AUTOBUSES ARE THE MOST USED TRANSPORTATION TYPES, BUT ONLY 18% OF RESPONDENTS RATED THE SERVICE QUALITY AS EXTREMELY GREAT.

6 - 10 MINUTES 0 - 5 MINUTES **70%** 23% **ALWAYS NEVER 52%** 17%

T: TIMELINESS OF TRANSPORTATION

- Taxis- extremely timely!
 Mean 1.47 or (0-5 minutes-70% and 6-10 minutes 23%)
- Buses- not as timely. Mean 3.22, 17% stated they were always on time and 52% stated never on time
- Other transportation- not timely. 58.9% stated never on time.

11 - 20 MINUTES 0 - 5 MINUTES 13% 47% **ALWAYS NEVER** 12% 60%

L: TIMELINESS OF TRANSPORTATION

- Taxis- not as timely with locals as tourists. Mean 3.24 (compared to 1.47 tourists) out of 7; taxis take between 6-20 minutes the majority of the time. Only 12.7% of locals are picked up in 0-5 minutes
- Buses- less timely than taxis. Mean 2.84, 60% stated they were not on time or where they were supposed to be more than half of the time
- Other transportation- not timely.
 Similar responses to buses

T: IMPORTANT TRANSPORTATION FACTORS/HOURS OF USE

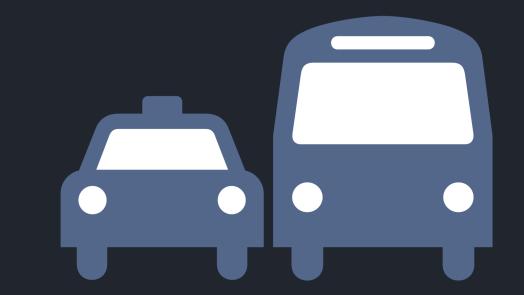


Table 27: Rank Order of Most		
Important to Least Important		
regarding Transportation on Aruba		
Value for money	5.63	
Safety	4.39	
Timeliness	4.17	
Cleanliness	3.93	
Price	3.85	
Reliability	3.57	
Service Quality	3.17	

Table 39: Rank Order of Most Important to Least Important regarding Transportation on Aruba		
Value for money	5.29	
Safety	4.49	
Cleanliness	4.02	
Timeliness	4.01	
Reliability	3.61	
Service Quality	3.46	
Price	3.09	

IMPORTANT TRANSPORTATION FACTORS/HOURS OF USE



Table 28: Top Hours for Transportation Usage on Aruba		
6-9am	16	
9-12pm	47	
12pm-3pm	32	
3-6pm	44	
6-9pm	122	
9pm-12am	9	
12am-3am	3	
3am-6am	1	

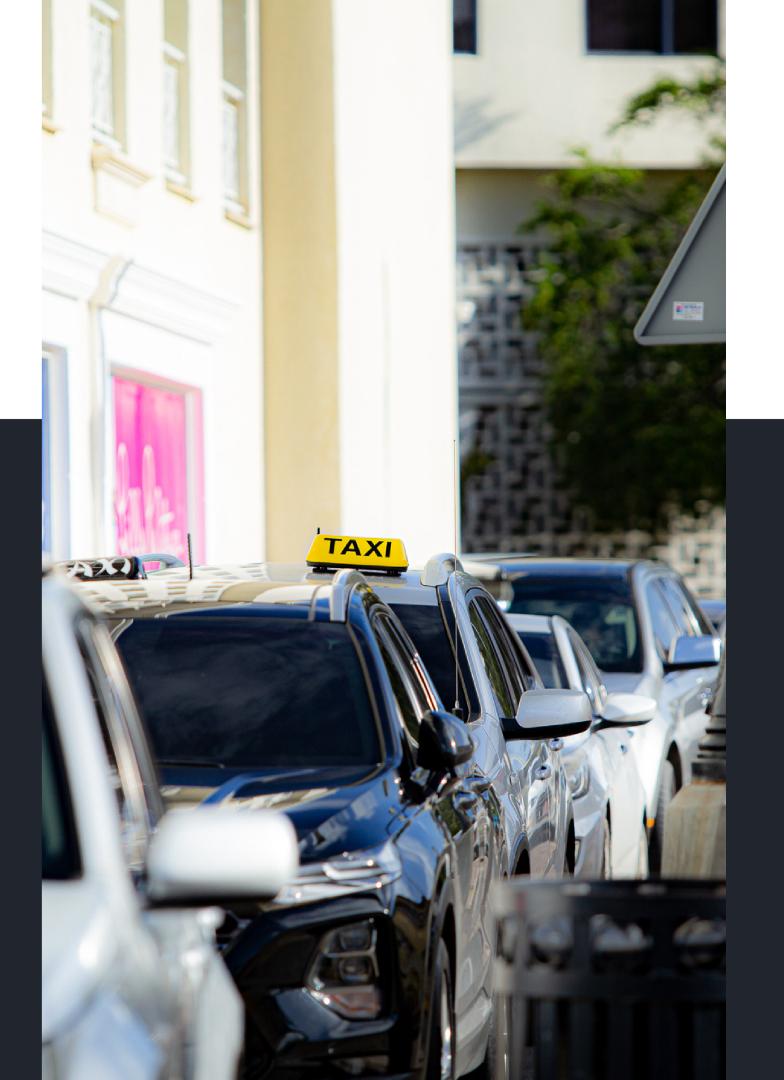
Table 40: Top Hours for Transportation		
Usage on Aruba		
6-9am	207	
9-12pm	120	
12pm-3pm	155	
3-6pm	125	
6-9pm	109	
9pm-12am	67	
12am-3am	29	
3am-6am	20	

IMPORTANT TRANSPORTATION FACTORS/HOURS OF USE

Table 41: Have you ever used pirate transportation?

Yes	134	23%
No	392	68%
Other	11	2%
N/A	37	6%

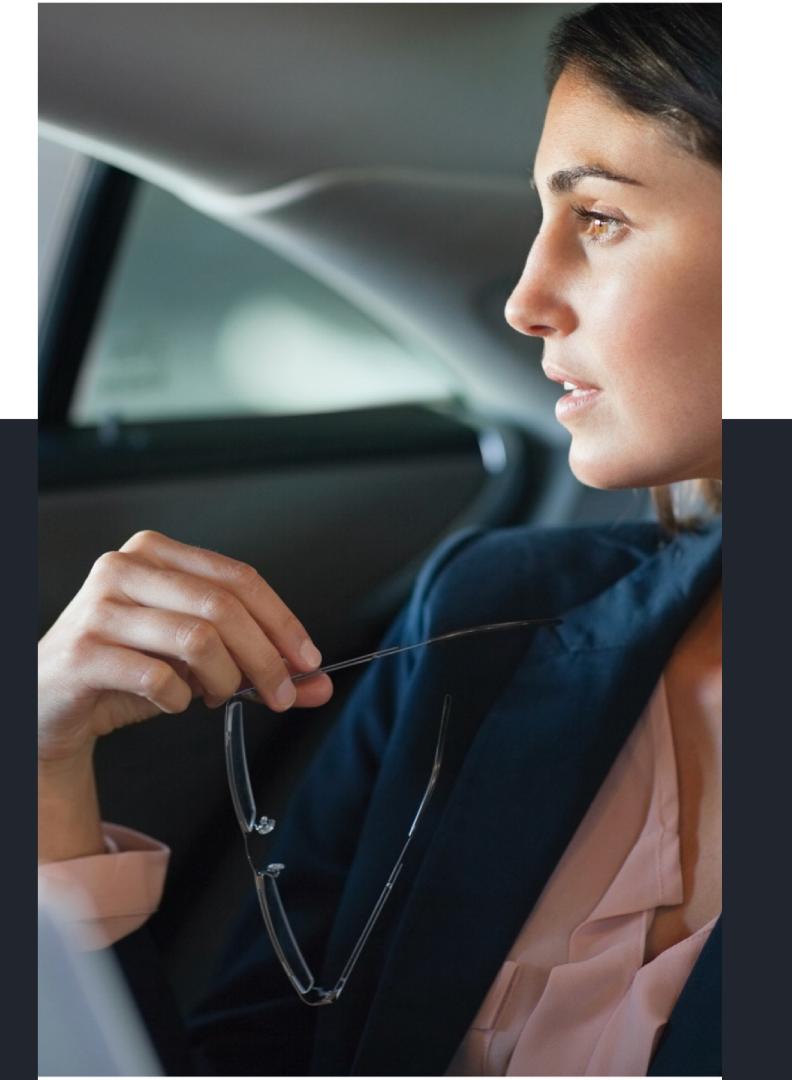




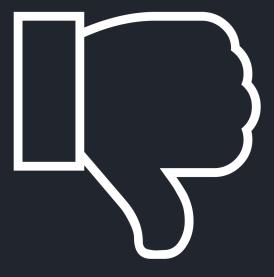
T: OVERALL TRANSPORTATION



Tourists evaluated transportation as very close to excellent or 6.11 out of 7, 57.4% stated it was excellent!

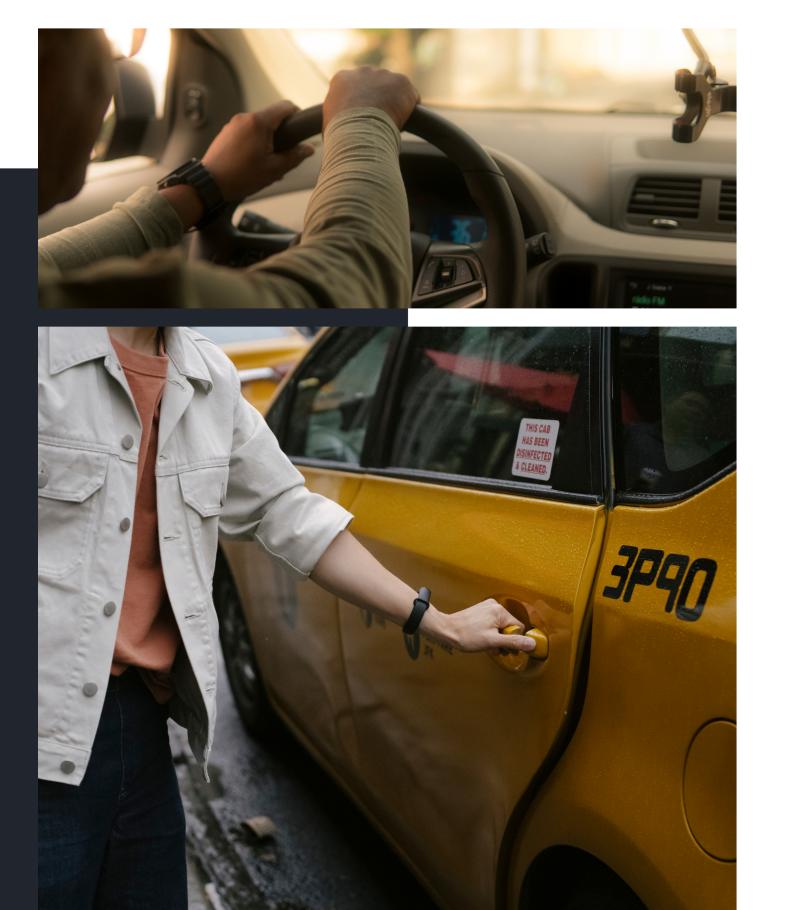


L: OVERALL TRANSPORTATION



Locals evaluated transportation as less than moderate, leaning more towards poor or 3.54 out of 7

KEY FINDINGS

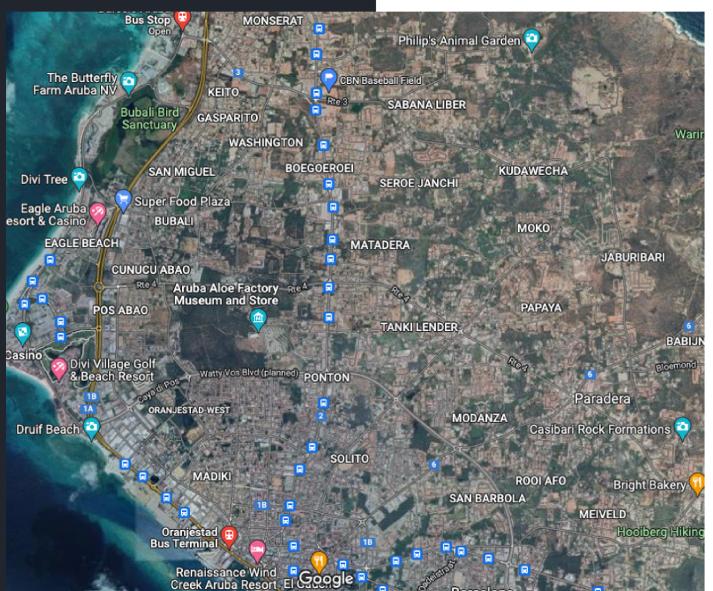


Tourist Surveys

- In general, tourists find the transportation on the island excellent and timely
- Buses were the transportation that was the most questionable for reliability
- Only between 25-40% of tourists rent cars on the island depending on which responses you review
- Value for money, and safety were top responses for tourists (same as locals)

KEY FINDINGS





Locals Surveys

- There may be a relationship between bus usage and the timeliness and reliability of buses
- Locals have mixed feelings about public transportation. The buses and mini(auto) buses appear to be the most used but are also the most troublesome
- The perception of locals is moderate to poor regarding overall transportation
- The most important issues are, value for money and safety
- The times most used for transportation are 6am-9am (29.4%) and 12pm-3pm (19.7%) most likely for shift change/work

IDEAS FOR IMPLEMENTATION

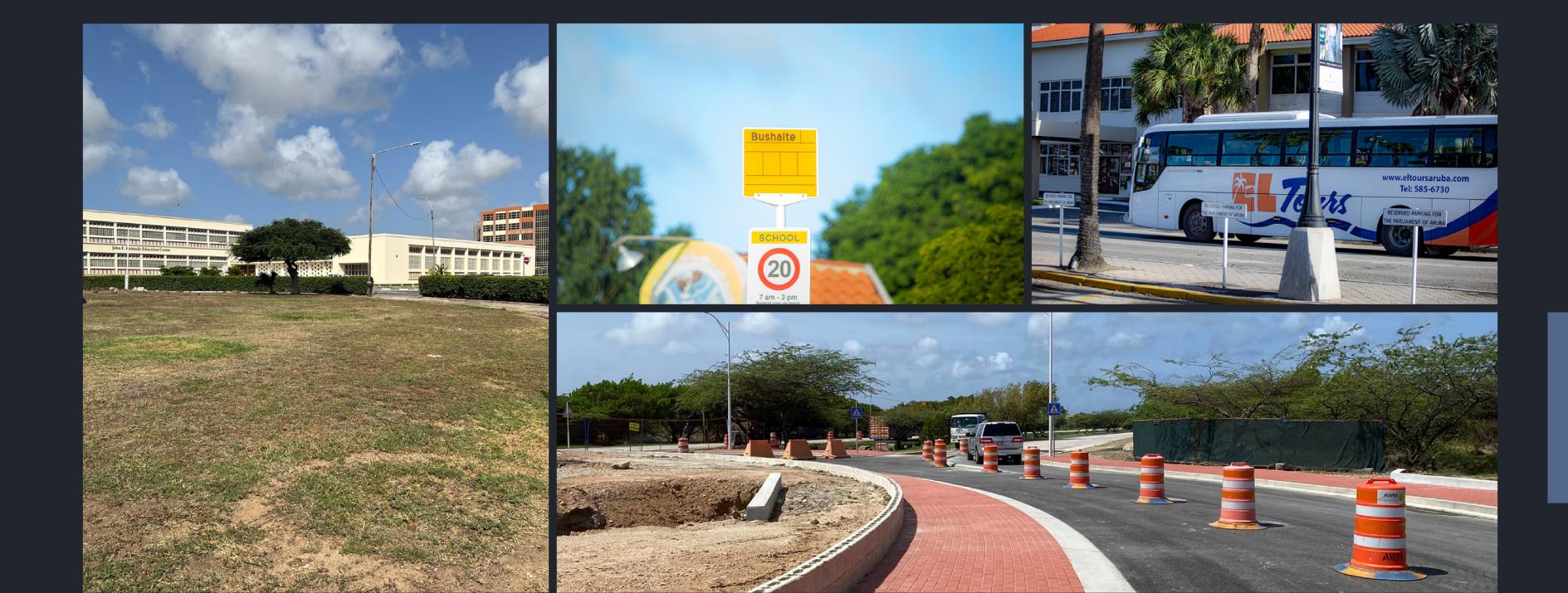
Short Term

- Review bus routes for timeliness
- Communication about rates
- Digitization of processes
- Aruba Transportation App

Medium/Long Term

- Create value initiatives e.g. drop off at home vs. main road (bus stops)
- Awareness campaign and incentive for public transportation

QUESTIONS OR COMMENTS?



THANKYOU