

Title: Adapting a comprehensive behavioural model to investigate illegal sea turtle trade in Cabo Verde

Authors: Morgan Casal Ribeiro^{a,b}, Juan Patino-Martinez^a, Janete Agues^a, Alexandra Marçal-Correia^{b,c}, Ana Nuno^{d,e}

Author details:

^a Maio Biodiversity Foundation (FMB), Cidade Porto Inglês, Ilha do Maio, Cabo Verde

^b Faculdade de Ciências da Universidade de Lisboa, Lisboa, Portugal

^c MARE - ULisboa, Lisboa, Portugal

^d Centre for Ecology and Conservation, College of Life and Environmental Sciences, University of Exeter Cornwall Campus, Penryn, Cornwall, TR10 9EZ, UK

^e Interdisciplinary Centre of Social Sciences (CICS.NOVA), School of Social Sciences and Humanities (NOVA FCSH), NOVA University Lisbon, Avenida de Berna, 26-C, 1069-061 Lisboa, Portugal

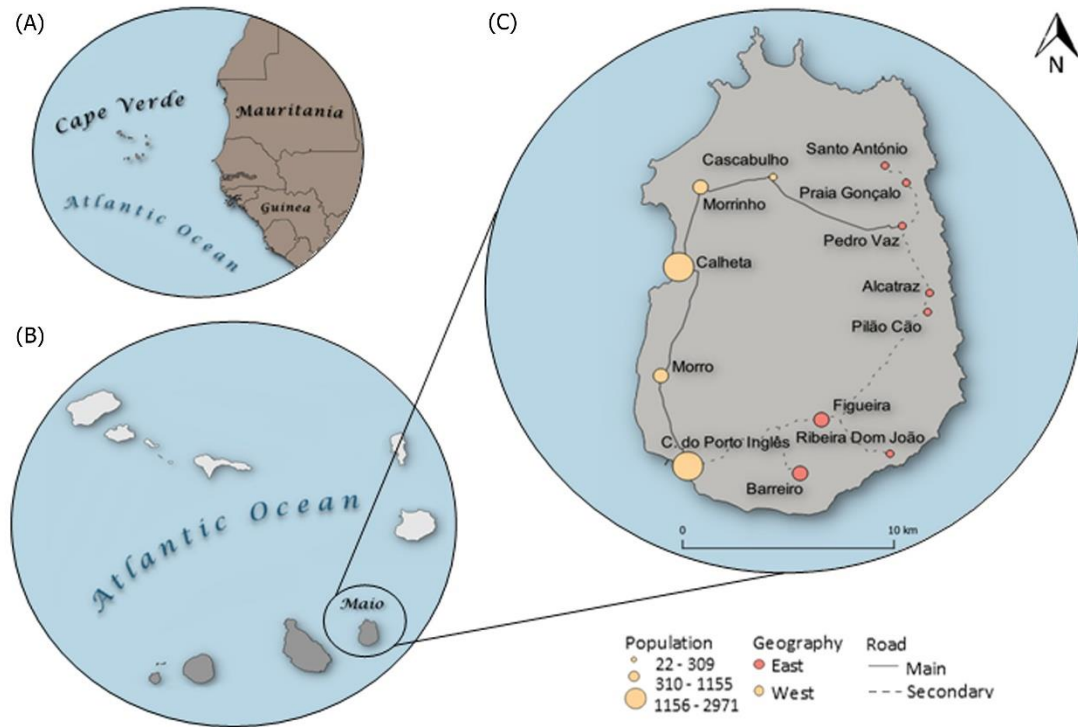


Figure S1. Map of the study area: (A) Cabo Verde relative to the West African coast; (B) Cabo Verde archipelago; (C) Maio island showing the population size of its communities (INECV 2018), east/west division and road system.

Table S1. Reasoning behind the inclusion of sociodemographic variables in the questionnaire, based on data from semi-structured interviews.

Sociodemographic variable	Reason for inclusion in analysis (based on interview data)
Gender	Men were said to be almost exclusively responsible for harvesting, which could in part translate to consumption.
Age	Younger adults were said to create networks in which to trade turtle meat more safely.
Settlement size	Participants attributed consumption to both smaller and larger settlements; the first because smaller and more remote communities are less conspicuous; the second because in larger communities with less familiar populations behaviours may go by unnoticed or unchallenged.
Geography (east/west)	Historically, eastern communities were reportedly more consumptive, but have recently been targeted with strong outreach initiatives.
Household size	People who live alone or with fewer household members were said to be more likely to engage in illegal behaviours, because they feel less exposed and likely to be caught.
Level of education	Less educated and environmentally aware people were mentioned as more prone to consume/harvest in the present.
Monthly salary	Unemployed or low-income earning men were blamed for current harvesting, as a way to make fast and easy money.
Time living on Maio	Foreigners and Cabo Verdeans that have returned from immigration were said to be less likely to consume turtles.

Table S2. Overview of latent variables and their items including means, reliability and standardized factor loadings (β).

[illegible]

Table S3. Recommendations about acceptable thresholds for commonly reported SEM fit indices.

Measure	Name	Good fit	Acceptable fit
CFI	Comparative Fit Index	$.97 \leq \text{CFI} \leq 1$	$.95 \leq \text{CFI} < .97$
TLI	Tucker-Lewis Index	$.97 \leq \text{TLI} \leq 1$	$.95 \leq \text{TLI} < .97$
RMSEA	Root Mean Square Error of Approximation	$0 \leq \text{RMSEA} \leq .05$	$.05 < \text{RMSEA} \leq .08$
SRMR	Standardized Root Mean Square Residual	$0 \leq \text{SRMR} \leq .05$	$.05 < \text{SRMR} \leq .10$
p-value	Chi square significance test	$.05 < p \leq 1$	$.01 \leq p \leq .05$
χ^2/df	Chi-square value / degrees of freedom	$0 \leq \chi^2/\text{df} \leq 2$	$2 < \chi^2/\text{df} \leq 3$

Note: Sample size directly affects the χ^2 value. The sensitivity of this index to the sample size has raised some well-founded reservations that have led to the emergence of other complementary goodness-of-fit indices (Gana and Broc 2019)

Table S4. Monetary values of several products deriving from illegal turtle trade, in the past and present on different Cabo Verde islands or internationally. These were compiled from over a dozen independent accounts found in survey field notes.

Location	Period	Product	Value (CVE)	Value (USD)
Maio	~20 years ago	1kg turtle meat	150\$00 – 250\$00	US\$1.61 – US\$2.69
Maio	Present	1kg turtle meat	300\$00 – 800\$00 average 450\$00	US\$3.23 – US\$8.61; average US\$4.84
Maio	Present	Whole turtle	5000\$00 – 8000\$00	US\$53.78 – US\$86.05
Maio	Present	Turtle penis	2000\$00 – 2500\$00	US\$21.51 – US\$26.89
Maio	Present	Green turtle shell	2000\$00	US\$21.51
Praia	Present	Small plate of turtle meat	300\$00 – 500\$00	US\$3.23 – US\$5.38
Praia	Present	Plastic cup with turtle meat	300\$00	US\$3.23
Praia	Present	Whole turtle	17.000\$00 – 20.000\$00	US\$182.86 – US\$215.13
Praia	Present	Turtle penis	4000\$00	US\$43.03
S. Vicente	~20 years ago	1kg turtle meat	600\$00	US\$6.45
S. Vicente	Present	1kg turtle meat	1000\$00	US\$10.76
Europe	Present	Turtle penis	10.000\$00 – 15.000\$00	US\$107.56 – US\$161.35

Table S5. Summary of categorical and continuous sociodemographic variables included in consumption intention analysis.

Categorical variables	Level	Count (%)	Missing data (%)		
Sex	Female	203 (62.5)	0		
	Male	122 (37.2)			
Age group	18 – 24	30 (9.2)	1 (0.003)		
	25 – 34	58 (17.8)			
	35 – 44	68 (20.9)			
	45 – 54	72 (22.1)			
	> 55	96 (29.5)			
Level of education	Cannot read or write	53 (16.3)	0		
	1 st – 4 th year	89 (27.4)			
	5 th – 9 th year	130 (40)			
	10 th – 12 th year	36 (11.1)			
	University or higher	17 (5.2)			
Settlement size	Small	87 (26.7)	0		
	Medium	177 (54.5)			
	Large	62 (18.8)			
Settlement geography	East	173 (53.2)	0		
	West	152 (46.8)			
Monthly salary (CVE)	No salary	176 (54.2)	18 (5.5)		
	< 11\$000	48 (14.7)			
	11\$000 – 20\$000	57 (17.6)			
	> 20\$000	26 (8)			
Years living in Maio	Born in Maio	266 (81.8)	0		
	More than 20 years	30 (8.9)			
	Less than 20 years	29 (9.3)			
Continuous variables	Median	S.D	Min	Max	Missing data (%)
Household size	4	1.78	1	10	1 (0.003)

Table S6. Model fit estimates for present/past measurement models, latent growth models of attitudes and intention, and measurement models for invariance across geography, household groups and time. LGM = Latent Growth Model; ATT = Attitudes; INT = Intention; CFI = Comparative Fit Index; TLI = Tucker Lewis Index; RMSEA = Root Mean Square Error of Approximation; SRMR = Standardized Root Mean Residual; χ^2 = Chi-square value; df = degrees of freedom.

Model	CFI	TLI	RMSEA	SRMR	p-value	χ^2 /df	χ^2 (df)
Present	.984	.969	.056	.040	.004	1.845	53.500 (29)
Past	.970	.944	.094	.065	< .000	4.195	121.655 (29)
LGM ATT	.999	.999	.011	.020	.418	1.030	15.468 (15)
LGM INT	1.00	.998	.016	.022	.310	1.197	4.789 (4)
Geographic invariance							
Configural	.982	.965	.089	.025	< .000	2.165	125.584 (58)
Metric	.982	.969	.085	.031	< .000	2.070	130.435 (63)
Scalar	.983	.972	.080	.030	< .000	1.963	133.516 (68)
Residual	.985	.979	.069	.030	< .000	1.638	126.160 (77)
Household invariance							
Configural	.971	.945	.112	.040	< .000	2.422	210.707 (87)
Metric	.972	.953	.104	.043	< .000	2.190	212.426 (97)
Scalar	.969	.953	.104	.044	< .000	2.190	238.131 (107)
Residual	.967	.956	.100	.048	< .000	1.976	246.960 (125)
Time invariance							
Configural	0.974	0.951	0.081	0.051	< .000	1.863	108.08 (58)
Metric	0.972	0.951	0.081	0.059	< .000	1.861	117.21 (63)
Scalar	0.964	0.942	0.088	0.056	< .000	2.023	137.59 (68)
Residual	0.793	0.692	0.202	1.501	< .000	6.511	481.84 (74)

Table S7. Estimates for attitudes and intention latent growth models (LGM) showing intercept and slope estimates, their variance, and unstandardized regression coefficients (B) of relevant variables (* $p \leq 0.05$; ** $p \leq 0.01$; *** $p \leq 0.001$; n.s – not significant).

LGM	Latent construct	Estimate	Variance	Household size (B)	Geography (B)
Attitudes	Intercept	1.840***	0.259***	-0.216*	(n.s)
	Slope	2.563***	0.558***	0.311*	-0.456*
Intention	Intercept	2.102***	0.284***	-0.284**	(n.s)
	Slope	2.763***	0.502***	0.289*	-0.410*

Interview and survey scripts in English

Consumption interview – Groups of women (English)

SECTIONS

- Section I – Structured questions about turtle consumption ~15 years ago
- Section II – Open discussion about turtle consumption ~5 years ago
- Section III – Questions about current turtle consumption

PARTICIPANT TRAITS

- Be female
- Be over 18 years old
- Have lived at least 15 years in their current community
- Speak Portuguese at a base level
- Be on friendly terms with participants within the same focus group
- Consent to participate and be recorded

SETTING OF INTERVIEW

- Participants' houses
- Local meeting area (provided it is private and uninterrupted)

Section I – Turtle consumption ~15 years ago

(1) – Now I would like you to think about life on Maio around 15 years ago. How was this community 15 years ago?

(2) – Did turtle protection exist back then?

(3) – Tell me how turtle consumption was 15 years ago.

(4) – At that time, what products did people use that came from turtles? (*Clarification: After catching a turtle what parts did you use?*)

- Did you eat turtle meat? Their eggs? Did you use their shell?
- Which product was most used?

(5) – In this community, how many people harvested turtles?

- Everyone? Most people? Only a few?
- What kinds of people ate turtle? Men and women? Children? Mostly fishermen?

(6) – Why did people consume turtles?

- Was it normal to consume turtle penis? Why?
- Did tourists or foreigners eat turtle?

(7) – How many times a year did people eat turtle?

- How many turtles were consumed each month in this community?

(8) – Where did people get the turtle meat from? (*Would they buy it, harvest it themselves...*)

- Did they buy it from people here in the community? Or from other communities? Would they go to the beach themselves to catch turtles?

(9) – Were there communities where people consumed more turtles? Or less?

- Which ones?
- Why was that?

Section II – Turtle consumption ~5 years ago

(1) – So far we have spoken about consumption around 15 years ago. Now I want you to remember how things were 5 years ago. Are there differences between 15 and 5 years ago?

- What are those differences?
- Why do those differences exist?
- Were turtles protected 5 years ago?
- 5 years ago, were more people consuming turtles, or less?

Section III – Turtle consumption in the present

(1) – We are almost finished. I want to talk about how turtle consumption is now. Is it still the same as 15 years ago?

(2) – What has changed between now and 15 years ago?

- Are turtles currently protected?
- Are there more, or less, people consuming turtle nowadays in comparison with 15 years ago?
- Which communities consume the most turtles now? What about the least?
- Where do people get turtle meat from now? Do they buy it, harvest it themselves...?
- What turtle products are used now?

(3) – Before we finish, is there anything else you would like to say?

- Are there any interesting stories regarding turtles that you can remember?

END OF INTERVIEW

Harvesting interview – individual men (English)

SECTIONS

- Section I – Structured questions about turtle harvesting ~15 years ago
- Section II – Open discussion about turtle harvesting ~5 years ago
- Section III – Questions about current turtle harvesting

PARTICIPANT TRAITS

- Be male
- Be over 18 years old
- Previous turtle harvester (at least 15 years ago)
- Speak Portuguese at a base level
- Consent to participate and be recorded

SETTING OF INTERVIEW

- Participants' houses
- Local meeting area (provided it is private and uninterrupted)

Section I – Turtle harvesting ~15 years ago

(1) – Now I would like you to think about life on Maio around 15 years ago. How was this community 15 years ago?

(2) – Did turtle protection exist back then?

(3) – Tell me how turtle harvesting was 15 years ago.

(4) – At that time, what products did people use that came from turtles? (*Clarification: After catching a turtle what parts did you use?*)

- Did you harvest turtles for their meat? Did you eat their eggs? Was turtle penis consumed? Did you use their shell?
- Which product was most used?

(5) – In this community, how many people harvested turtles?

- Everyone? Most people? Only a few?
- What kinds of people did that? Fishermen? People with less money? Young men?

(6) – Why did people harvest turtles?

- To sell for money?
- To eat at home?
- Because it was easy and costless?
- Because it was tasty?
- Because it was common?

(7) – How many turtles would someone normally harvest in total?

- How many turtles were caught each month during nesting season?

(8) – Did harvesters sell turtle meat? Where

- In the community?
- In Vila (Cidade do Porto Inglês)?
- Did they sell eggs?

(9) – Were there communities where people harvested more turtles? Or less?

- Which ones?
- Why was that?

Section II – Turtle harvesting ~5 years ago

(1) – So far we have spoken about harvesting around 15 years ago. Now I want you to remember how things were 5 years ago. Are there differences between 15 and 5 years ago?

- What are those differences?
- Why do those differences exist?
- Were turtles protected 5 years ago?
- 5 years ago, were more people harvesting turtles, or less?

Section III – Turtle harvesting in the present

(1) – We are almost finished. I want to talk about how turtle harvesting is now. Is it still the same as 15 years ago?

(2) – What has changed between now and 15 years ago?

- Are turtles currently protected?
- Are there more, or less, people harvesting nowadays in comparison with 15 years ago?
- Which communities harvest the most turtles now? What about the least?
- What do harvesters do with turtles now? Sell them, eat them...?
- What turtle products are used now?

(3) – Before we finish, is there anything else you would like to say?

- Are there any interesting stories regarding turtles that you can remember?

END OF INTERVIEW

Survey Questionnaire – Consumption (English)

Note: This survey was conducted using ODK Collect. Even if not specified here, every question, from all three different sections, may be answered with “I do not know” or “I do not want to answer”.

Section A: Sociodemographic information

1) Gender: Male / Female

2) Age (in years): 18 – 24 ☐ 25 – 34 ☐ 35 – 44 ☐ 45 – 54 ☐ >55 ☐

3) Where do you live? Morro / Calheta / Morrinho / Cascabulho / Praia Gonçalo / Santo António / Pedro Vaz / Alcatraz / Pilão Cão / Ribeira Dom João / Figueira / Barreiro / Não quer responder

4) How many people live in your house? 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15

5) Until when were you in school? Or, if you are still in school, what year do you attend?

I can't read or write ☐ 1st – 4th year ☐ 5th to 9th year ☐ 10th to 12th year ☐ University ☐
Don't know / Don't want to answer ☐

6) What is your main activity?

Fishing ☐ Selling fish ☐ Stonemason ☐ Making coal ☐ Working at a shop ☐ Domestic ☐ ☐
Other ☐ Which?

7) How long have you lived in Maio?

Born in Maio ☐ < 5 years ☐ 5 to 10 years ☐ 10 to 20 years ☐ >20 years ☐

8) Of the following categories, which one represents your monthly salary?

< 11.000 cve / 11.000 – 20.000 cve / 20.000-30.000 cve / > 30.000 cve

Section B: Sociopsychological factors for present consumption behaviour

1) I am going to read a few phrases as if they were from your point of view, and I want you to choose the option that suits you the best. For example, if I dance *funana*, I feel happy

Completely agree : Agree : Don't agree or disagree : Disagree : Completely disagree

ATTITUDES

a) If I eat turtle next turtle season that would be

Very pleasant : Pleasant : Neither pleasant nor unpleasant : Unpleasant : Very Unpleasant

b) If I eat turtle next turtle season that would be

Very good: Good : Neither good nor bad : Bad : Very bad

c) If I eat turtle next turtle season that would be

Very valuable : Valuable : Neither valuable nor worthless : Worthless: Very worthless

NORMATIVE BELIEFS

a) My family thinks that I should eat turtle next turtle neason

Completely agree : Agree : Don't agree or disagree : Disagree : Completely disagree

b) People similar to myself are going to eat turtle next turtle season

Completely agree : Agree : Don't agree or disagree : Disagree : Completely disagree

PERCEIVED BEHAVIOURAL CONTROL

a) If I really wanted to, next turtle season I could eat turtle

Completely agree : Agree : Don't agree or disagree : Disagree : Completely disagree

PERSONAL NORMS

a) If next turtle season I eat turtle, I will feel sad

Completely agree : Agree : Don't agree or disagree : Disagree : Completely disagree

b) Next turtle season it is my duty to not eat turtle

Completely agree : Agree : Don't agree or disagree : Disagree : Completely disagree

HABITS

a) Eating turtle is a tradition on Maio

Completely agree : Agree : Don't agree or disagree : Disagree : Completely disagree

INTENTIONS

a) Next turtle season I am going to try and eat turtle

Completely agree : Agree : Don't agree or disagree : Disagree : Completely disagree

b) If I feel the need, next turtle season I will eat turtle

Completely agree : Agree : Don't agree or disagree : Disagree : Completely disagree

Section C: Sociopsychological factors for past consumption behaviour

1) Now I am going to read the same questions, but about 20 years ago, when there was no protection nor law.

ATTITUDES

a) 20 years ago, eating turtle was

Very pleasant : Pleasant : Neither pleasant nor unpleasant : Unpleasant : Very Unpleasant

b) 20 years ago, eating turtle was

Very good: Good : Neither good nor bad : Bad : Very bad

c) 20 years ago, eating turtle was

Very valuable : Valuable : Neither valuable nor worthless : Worthless: Very worthless

NORMATIVE BELIEFS

a) 20 years ago, my family thought I should eat turtle

Completely agree : Agree : Don't agree or disagree : Disagree : Completely disagree

b) 20 years ago, people similar to myself ate turtle

Completely agree : Agree : Don't agree or disagree : Disagree : Completely disagree

PERCEIVED BEHAVIOURAL CONTROL

a) 20 years ago, if I really wanted to I could eat turtle

Completely agree : Agree : Don't agree or disagree : Disagree : Completely disagree

PERSONAL NORMS

a) 20 years ago if I ate turtle I felt sad

Completely agree : Agree : Don't agree or disagree : Disagree : Completely disagree

b) 20 years ago it was my duty to not eat turtle

Completely agree : Agree : Don't agree or disagree : Disagree : Completely disagree

HABITS

a) 20 years ago, eating turtle was a tradition on Maio

Completely agree : Agree : Don't agree or disagree : Disagree : Completely disagree

INTENTIONS

a) 20 years ago, I use to try and eat turtle

Completely agree : Agree : Don't agree or disagree : Disagree : Completely disagree

b) 20 years ago, if I felt the need, I would eat turtle

Completely agree : Agree : Don't agree or disagree : Disagree : Completely disagree

Only for the researcher:

Date / time: _____ / _____

Location where questionnaire was conducted: Morro / Calheta / Morrinho / Cascabulho / Praia
Gonçalo / Santo António / Pedro Vaz / Alcatraz / Pilão Cão / Ribeira Dom João / Figueira / Barreiro

Interview and questionnaire scripts in Portuguese/Maiense Creole

Consumption interview – Groups of women (Portuguese)

Secção I – Consumo de tartarugas há ~15 anos

(1) – Agora quero que se lembrem de como era a vida no Maio há 15 anos atrás. Como era esta comunidade há 15 anos?

(2) – Nessa altura existia alguma proteção das tartarugas?

(3) – Contem-me* como era o consumo de tartarugas há 15 anos. (**Expliquem, falem*)

(4) – Nessa altura que produtos* existiam que vinham da tartaruga que as pessoas usavam?
(**Coisas, partes diferentes*)

- Comiam carne? Comiam ovos? Comiam o pénis dos machos? Usavam a carapaça?
- Qual desses produtos era o mais usado?

(5) – Quantas pessoas comiam carne de tartaruga nesta comunidade?

- Toda a gente? A maioria? Poucas?
- Que tipo de pessoas comiam? Homens e mulheres? Crianças? Pescadores?

(6) – Porque é que as pessoas comiam tartarugas?

- Era normal comer o pénis de tartarugas? Porquê?
- Turistas na ilha comiam tartarugas?

(7) – Quantas vezes é que as pessoas comiam tartaruga por ano?

- Quantas vezes comiam tartaruga por mês?

(8) – Onde é que as pessoas arranjavam* a carne de tartaruga para comer? (*Iam buscar, compravam*)

- Compravam a pessoas desta comunidade? Compravam a pessoas de outras comunidades? Iam à praia-mar buscar?

(9) – Existiam comunidades da ilha onde as pessoas comiam mais? E menos?

- Quais?
- Porquê?

Secção II – Consumo de tartarugas há ~5 anos

(1) – Até agora temos falado sobre como o consumo de tartarugas era há 15 anos atrás. Agora quero que se lembrem de como era há 5 anos atrás. Há diferenças entre 15 anos atrás e 5 anos atrás?

- Quais são essas diferenças?
- Porque é que essas diferenças aconteceram?
- Há 5 anos existia proteção das tartarugas?
- Há 5 anos havia mais ou menos pessoas a comer tartaruga do que há 15 anos?

Secção III – Consumo de tartarugas actualmente

(1) – Estamos quase a acabar. Quero falar um pouco sobre o consumo de tartarugas nos dias agora. O que é que continua igual entre há 15 anos atrás e agora? *(Do que falámos há 5 anos, cuzé ki sta igual hoje?)*

(2) – E o que é que mudou entre agora e há 15 anos atrás? *(Do ki falámos há 15 anos, cuzé ki sta diferentes hoje?)*

- Agora existe proteção para tartarugas?
- Há mais ou menos pessoas a comer tartaruga do que há 15 anos?
- Existem comunidades com mais ou menos pessoas a comer tartaruga?
- Aonde é que as pessoas compram tartaruga para comer?
- Que produtos da tartaruga existem agora? *(Que partes da tartaruga as pessoas usam agora?)*

(3) – Antes de acabarmos, gostavam de dizer alguma coisa?

- Tem alguma história interessante de tartarugas para contar?

Harvesting interview – individual men (Portuguese)

Secção I – Apanha de tartarugas há ~15 anos

(1) – Agora quero que se lembre de como era a vida no Maio há 15 anos atrás. Como era esta comunidade há 15 anos?

(2) – Nessa altura existia alguma proteção das tartarugas?

(3) – Conte-me como era a apanha de tartarugas há 15 anos. *(Fale, explique)*

(4) – Nessa altura que produtos diferentes da tartaruga usavam? *(Que partes da tartaruga usavam depois de apanhar)*

- Apanhavam tartarugas pela carne? Apanhavam ovos? Comia-se o pénis dos machos? Usavam a carapaça?
- Qual desses produtos era o mais usado?

(5) – Nesta comunidade, quantas pessoas apanhavam tartarugas?

- Toda a gente? A maioria? Poucas?
- Que tipo de pessoas apanhavam? Pescadores? Pessoas com menos dinheiro? Jovens?

(6) – Por que razão é que as pessoas apanhavam tartarugas?

- Para vender e fazer dinheiro?
- Para apanharem e comerem em casa?
- Porque era fácil e barato?
- Porque era saboroso?
- Porque era habitual?

(7) – Quantas vezes uma pessoa apanhava tartaruga por ano?

- Quantas tartarugas é que pessoas apanhavam por mês?

(8) – Os apanhadores vendiam a carne de tartaruga? Onde?

- Na comunidade?
- Na vila?
- Vendiam ovos também?

(9) – Existiam comunidades da ilha onde as pessoas apanhavam mais tartarugas? E menos?

- Quais?
- Porquê?

Secção II – Apanha de tartarugas há ~5 anos

(1) – Até agora temos falado sobre a apanha de tartarugas há 15 anos atrás. Agora quero que se lembre de como era há 5 anos atrás. Há diferenças entre 15 anos atrás e 5 anos atrás?

- Quais são essas diferenças?
- Porque é que essas diferenças aconteceram?
- Há 5 anos existia proteção das tartarugas?
- Há 5 anos havia mais ou menos pessoas a apanhar tartaruga do que há 15 anos?

Secção III – Apanha de tartarugas actualmente

(1) – Estamos quase a acabar. Quero falar um pouco sobre a apanha de tartarugas nos dias agora. O que é que continua igual entre agora e há 15 anos atrás?

(2) – E o que é que mudou entre agora e há 15 anos atrás?

- Agora existe proteção para tartarugas?
- Há mais ou menos pessoas a apanhar tartaruga do que há 15 anos?
- Quais as comunidades onde as pessoas apanham mais tartaruga? E menos?
- O que é que apanhadores fazem com a tartaruga agora? Vendem, comem?
- Que produtos existem agora que vêm da tartaruga? *(Que partes da tartarugas as pessoas usam agora?)*

(3) – Antes de acabarmos, gostavam de dizer alguma coisa?

- Tem alguma história interessante de tartarugas para contar?

Survey Questionnaire – Consumption (Maiense Creole)

Secção A: Informasan sociodemográfica

1) **Sexo:** Masculin / Feminin

2) **Idade (em anos):** 18 – 24 ☐ 25 – 34 ☐ 35 – 44 ☐ 45 – 54 ☐ >55 ☐

3) **Nande k bu ta mora?** Morro / Calheta / Morrinho / Cascabulho / Praia Gonçalo / Santo António / Pedro Vaz / Alcatraz / Pilão Cão / Ribeira Dom João / Figueira / Barreiro / Ka kre responde

4) **Kante alguém ta vive na bu kasa?** 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15

5) **Te k ane k bu studa (ou k klase k bu sta studa)?**

Ka sabe le/skreve ☐ 1º a 4º ano ☐ 5º a 9º ano ☐ 10º a 12º ano ☐ Universidade ☐
Ka sabe /Ka kre responde ☐

6) **Kal bu atividade principal?**

Piskador/a ☐ Pexera/a ☐ Pedrer/a ☐ Faze karvon ☐ Loja ☐ Outro ☐ Doméstica ☐ Kal? _____
Ka sabe /Ka kre responde ☐

7) **Kante temp bu ta vive na Maio?**

Nasce em Maio ☐ < 5 anos ☐ 5 a 10 anos ☐ 10 a 20 anos ☐ <20 anos ☐ Ka sabe /Ka kre responde

8) **Di kes kategoria li ka k ta mostra dinher k bu ta faze pa mês?**

< 11.000 ecv / 11.000 – 20.000 ecv / 20.000-30.000 ecv / > 30.000

Secção B: Factores sociopsicológicos para comportamento de consumo no presente

1) Nta bem le alguns frase e nkre sabe bu opinan sobre es, e skudji kal des k ta identifika ku bo. Por exemplo: Si Nta badja funana Nta xinti alegria.

Nta konkorda txeu / Nta konkorda / Mais oh menus /Nka ta konkorda /Nka ta konkorda num bokadin

ATTITUDES

a) Si Nkume tartaruga na ane k ta bem bu ta atxa k é:

Muito Agradável : Agradável : Nem agradável nem desagradável : Desagradável : Muito desagradável

b) Si Nkume tartaruga na ane k ta bem bu ta atxa k é:

Muito bom : Bom : Nem bom nem mau : Mau : Muito mau

c) Si Nkume tartaruga na ane k ta bem bu ta atxa k é:

Muito valioso : Valioso : mais oh menus : Pouco valioso: Muito pouco valioso

NORMATIVE BELIEFS

a) Nha família ta atxa mod próximo ane N debe kume tartaruga

Nta konkorda txeu / Nta konkorda / Mais oh menus /Nka ta konkorda /Nka ta konkorda num bokadin

b) Kes alguem ke moda mi sta bai kume tartaruga ote ane

Nta konkorda txeu / Nta konkorda / Mais oh menus /Nka ta konkorda /Nka ta konkorda num bokadin

PERCEIVED BEHAVIOURAL CONTROL

a) Si Nkre *me*, ote ane Nta konsigi kume tartaruga

Nta konkorda txeu / Nta konkorda / Mais oh menus /Nka ta konkorda /Nka ta konkorda num bokadin

PERSONAL NORMS

a) Proximo ane si Nkume tartaruga, Nta xinti triste

Nta konkorda txeu / Nta konkorda / Mais oh menus /Nka ta konkorda /Nka ta konkorda num bokadin

b) Proximo ane é nha diver ka ta kume tartaruga

Nta konkorda txeu / Nta konkorda / Mais oh menus /Nka ta konkorda /Nka ta konkorda num bokadin

HABITS

a) Kume tartaruga é tradisan na djarmay

Nta konkorda txeu / Nta konkorda / Mais oh menus /Nka ta konkorda /Nka ta konkorda num bokadin

INTENTIONS

a) Proximo ane Nta bai tenta kume tartaruga

Nta konkorda txeu / Nta konkorda / Mais oh menus /Nka ta konkorda /Nka ta konkorda num bokadin

b) Proximo ane si Nxinti nicissidade/gana Nta bai kume tartaruga

Nta konkorda txeu / Nta konkorda / Mais oh menus /Nka ta konkorda /Nka ta konkorda num bokadin

Secção C: Factores sociopsicológicos para comportamento de consumo no passado

1) Gossi Nta bai ler perguntas iguais, mas di 20 ane atraz, kand ka tinha lei, ka tinha proibição.

ATTITUDES

a) 20 ane atraz kume tartaruga era:

Muito Agradável : Agradável : Nem agradável nem desagradável : Desagradável : Muito desagradável

b) 20 ane atraz kume tartaruga era:

Muito bom : Bom : Nem bom nem mau : Mau : Muito mau

c) 20 ane atraz kume tartaruga era:

Muito valioso : Valioso : mais oh menus : Pouco valioso: Muito pouco valioso

NORMATIVE BELIEFS

a) 20 ane atraz, Nha família ta atxaba k Ndevia kume tartaruga

Nta konkorda txeu / Nta konkorda / Mais oh menus /Nka ta konkorda /Nka ta konkorda num bokadin

b) 20 ane atraz kes alguem ke moda mi ta kumeba tartaruga

Nta konkorda txeu / Nta konkorda / Mais oh menus /Nka ta konkorda /Nka ta konkorda num bokadin

PERCEIVED BEHAVIOURAL CONTROL

a) 20 ane atraz, Si Nkreba *me*, Nta konsigiba kume tartaruga

Nta konkorda txeu / Nta konkorda / Mais oh menus /Nka ta konkorda /Nka ta konkorda num bokadin

PERSONAL NORMS

a) 20 ane atraz si Nkumeba tartaruga Nta fikaba triste

Nta konkorda txeu / Nta konkorda / Mais oh menus /Nka ta konkorda /Nka ta konkorda num bokadin

b) 20 ane atraz Nka divia kume tartaruga

Nta konkorda txeu / Nta konkorda / Mais oh menus /Nka ta konkorda /Nka ta konkorda num bokadin

HABITS

a) 20 ane atraz, era tradisan kume tartaruga na djarmai

Nta konkorda txeu / Nta konkorda / Mais oh menus /Nka ta konkorda /Nka ta konkorda num bokadin

INTENTIONS

a) 20 ane atraz Nta tentaba kume tartaruga

Nta konkorda txeu / Nta konkorda / Mais oh menus /Nka ta konkorda /Nka ta konkorda num bokadin

b) 20 ane atraz si Nxintiba nicissidade/gana Nta kumeba tartaruga

Nta konkorda txeu / Nta konkorda / Mais oh menus /Nka ta konkorda /Nka ta konkorda num bokadin

Apenas para o inquiridor:

Dia / hora: _____ / _____

Localização do inquérito: Morro / Calheta / Morrinho / Cascabulho / Praia Gonçalo / Santo António / Pedro Vaz / Alcatraz / Pilão Cão / Ribeira Dom João / Figueira / Barreiro / Ka kre responde

Code system used for qualitative data analysis

1. Motivations
 - 1.1. Harvesting
 - 1.1.1. Past
 - 1.1.1.1. “*Casa farte*” (To fill the house with food)
 - 1.1.1.2. Consumption
 - 1.1.1.3. Artisanal
 - 1.1.1.4. Selling
 - 1.1.2. Present
 - 1.1.2.1. To sell
 - 1.2. Consumption
 - 1.2.1. Past
 - 1.2.1.1. Medicinal
 - 1.2.1.2. Delicious taste
 - 1.2.1.3. Lack of food / resources
 - 1.2.2. Present
 - 1.2.2.1. Lack of food / resources
 - 1.2.2.2. Delicious taste
 - 1.2.2.3. Lack of food is NOT a reason
2. Description of consumption
 - 2.1. Past
 - 2.1.1. When did turtle protection start?
 - 2.2. Present
 - 2.2.1. Importance of raising awareness
 - 2.2.2. Strategies to cook turtle differently
3. Description of harvesting
 - 3.1. Past
 - 3.1.1. By boat
 - 3.1.2. Quantity of harvest
 - 3.2. Present
4. *Burgatxo* (turtle penis)
 - 4.1. Reason for usage
5. Why is it important to protect turtles?
 - 5.1. Raising turtles at home
6. Description of community
 - 6.1. Past
 - 6.2. Present
7. Geography
 - 7.1. West
 - 7.2. East
 - 7.3. Communities with more harvest / consumption
8. Survey notes
 - 8.1. Comments about past harvesting / consumption
 - 8.2. Immigrant’s thoughts
 - 8.3. Prices
 - 8.4. Awareness being raised

8.5. Comments about present harvesting / consumption

8.5.1. Turtles are overprotected

8.5.2. It cannot be a necessity

8.5.3. Turtles now and in the past (taste, size, smell)

8.5.4. Motivations

8.5.5. Cooking turtles and their smell