SURVEY METHODOLOGY REPORT

METHODOLOGICAL QUESTIONNAIRE
(TO BE COMPLETED AND SENT TO THE DATA ARCHIVE
JOINTLY WITH THE DATA FILE)

Country:	Maldives
Organization:	The Maldives National University
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SECTION 1: THE QUESTIONNAIRE

1. Have any optional questions and/or items been included?

    No ☑

    Yes (PLEASE WRITE IN QUESTION AND/OR ITEMNUMBERS BELOW)

    _____

    _____

2. Were country-specific questions, and/or items i. e. neither compulsory nor optional WVS questions, or questions included in the survey?

    No country-specific questions included   ☑ ⟶ Go to Q 4

    Country-specific questions were included   ☐

ANSWER IF THERE WERE COUNTRY-SPECIFIC QUESTIONS

3. Were country specific questions included at the end of the questionnaire, just before the demographics?

    Yes   ☐ ⟶ **GO TO Q 4**

    No   ☐

3a Please indicate the location of the country-specific questions which were not at the end of the questionnaire

    WRITE IN BELOW :

EVERYONE PLEASE ANSWER

4. Were all questions asked in the prescribed order?

    Yes ☑
    No ☐
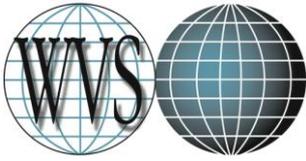
5. Were all <u>core</u> questions included in your questionnaire (by core we mean all items except those that were optional)?

No - some question(s) from WVS questionnaire **<u>not</u>** included ☐ ⟶ **ANSWER**

_____

No - some demographic question(s) **<u>not</u>** included ☐ ⟶ **ANSWER**

_____

Yes - all questions <u>included</u> ☑ ⟶ **SECTION 2**

IF ANY CORE or DEMOGRAPHIC WVS QUESTIONS WERE <u>NOT</u> INCLUDED

6. Please write in details of the items and the reasons why they were not included.

question number or description of question:

Reason(s) not included:

SECTION 2: SAMPLING

7. Was your sample designed to be representative of the <u>entire</u> adult population, i. e. 18 years and older, of your country?

Yes ☑ ⟶ **GO TO Q 9**

NO ☐ ⟶ **ANSWER**
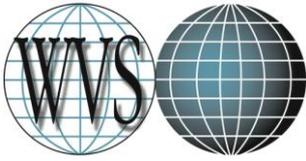
IF NOT DESIGNED TO BE REPRESENTATIVE

8. Which groups were excluded from, under-represented or over-represented in your sample design?

Excluded (PLEASE SPECIFY):

Over-represented: (PLEASE SPECIFY):

Under-represented (PLEASE SPECIFY):

EVERYONE PLEASE ANSWER

9. What was the <u>lower</u> age cut-off for your sample?

Yes - please write in cut-off [1 | 8]

Only people 18 years and over were invited to participate in the survey

No cut-off [ ]

10. Was there any <u>upper</u> age cut-off for your sample?

Yes - please write in cut-off [|]

No cut-off [✓]

11. What were the different stages in your sampling procedure?

PLEASE WRITE IN:

Pilot 30 participants were selected purposefully to represent all age groups above 18, and proportionately by both genders. Furthermore, socio-economic status was also considered as much as possible.

For the survey, all 19 atolls of the Maldives were included except for Vaavu atoll and Faafu atoll. They were excluded because of the small population of each atoll, all islands combined. This is not expected to impact on the survey findings as people live on remote islands (atolls being a natural geographically dispersed grouping of the islands) and have similar lived experiences irrespective of the smallness of the atoll. These two atolls were eliminated given the travel logistics against the small sample required (less than 18 people from an island).
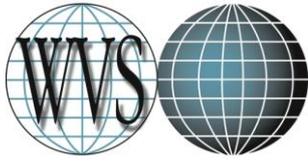
All islands and atolls declared by the government as cities were considered in the **urban** sample. All remaining islands were considered as **rural** community. Sample was targeted at the ratio of 40% (400) urban and 60% (600) rural participants.

In considering the rural sample, sample was selected from one island of each atoll, proportionate to the population of the specific atoll. (Reaching more than one island was logistically not feasible, mostly because of financial & time constraints). The sample island was selected based on available reliable enumerators. A call for enumerators was called on public platform (the government gazette) for 2 enumerators from each atoll.

From the urban community, all wards of the greater Male' area were included proportionately to the population. Sample from the two island-cities (Fuvahmulah & Kulhudhuffushi) were drawn randomly across each island. Sample from Addu city (atoll of a few islands) was limited to the atoll-capital island alone.

With the above quota sampling, a further stratification was utilised to cater to **gender** (Male, 51%; Female 49%) and the **age groups** (see the first table below that shows the 2014 census age groupings and population data). The following tables were provided for the survey enumerators to guide them in the sampling process.

Population reported in each age group (2014 census)

Age	Male (M)	Female (F)
18-24	19,349	18,537
25-31	34,945	35,606
35-44	21,197	21,582
45-54	16,429	16,200
55-64	9,358	8,594
65+	8,668	7,751
Total	**109,946**	**108,270**
	218,216	

World Values Survey, wave 7 (2021) - Systematic Random Sample
(Regional / Cities, stratified according to gender and age group)

The gender percentage is taken from the total population of 2014 census data (Male 51% and Female 49%. The target sample size 400 (40%) from Cities and 600 (%) from other islands. The total from each Atoll is calculated using the Atoll population as proportion of the target sample size for the cities/other islands. The numbers are rounded within the age groups and thus resulting in a few additional counts in teh sample)

World Values Survey - Need a systematic random sample. (where possible keep an eye on achieving gender and age proportion)
(Regional 60% / Cities 40%, stratified according to gender (M 51%, F49%) and age group) [v.3 May 16th]

Cluster	1		2		3		4		5		6		7		8		9		10		11	
Atolls	H.A.		H.Dh.		Sh.		N.		R.		B.		Lh.		K.		A.A		A.Dh.		V.	
Age	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
18-24	4	4	4	3	4	4	4	3	5	5	3	3	3	3	4	4	2	2	3	3	1	1
25-31	8	8	7	7	7	7	6	6	9	9	5	5	5	5	7	7	3	4	5	5	1	1
35-44	5	5	4	4	5	4	4	4	5	5	3	3	3	3	4	4	2	2	3	3	1	1
45-54	4	4	3	3	3	3	3	3	4	4	3	2	2	2	3	3	2	2	2	2	0	0
55-64	2	2	2	2	2	2	2	2	2	2	1	1	1	1	2	2	1	1	1	1	0	0
65+	2	2	2	1	2	2	2	2	2	2	1	1	1	1	2	1	1	1	1	1	0	0
Total	25	25	22	20	23	22	21	19	27	27	16	15	15	15	22	22	11	12	15	15	3	3
	50		42		45		40		54		31		30		44		23		30		6	
Adjusted	50		40		45		40		50		30		30		40		30		30		0	

Cluster	12		13		14		15		16		17		18		Total (1 to 18)		
Atolls	M.		F.		Dh.		Th.		L.		G.A.		G.Dh				
Age	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total
18-24	2	2	1	1	2	2	3	3	4	4	3	3	4	4	56	54	110
25-31	3	3	3	3	3	3	5	5	7	7	5	5	7	7	96	97	193
35-44	2	2	2	2	2	2	3	3	5	4	3	3	4	4	60	58	118
45-54	1	1	1	1	2	2	3	2	3	3	3	2	3	3	45	42	87
55-64	1	1	1	1	1	1	1	1	2	2	1	1	2	2	25	25	50
65+	1	1	1	1	1	1	1	1	2	2	1	1	2	2	25	23	48
Total	10	10	9	9	11	11	16	15	23	22	16	15	22	22	307	299	606
	20		18		22		31		45		31		44				
Adjusted	30		0		30		35		45		30		45				600

Notes.
1. Clusters 1 to 18 are from the outer islands/Atolls
2. Clusters 19 to 24 are islands/Atolls declared as cities
3. From the Atolls, recruit participants as much as possible from islands other than capital of the atoll
4. A systematic random sample
5. Complete the recordsheet for all exchanges in recruitment

Cluster	19*		20*		21		22		23*		24*		25*		26*		27*		Total (19 to 27)		
Cities	Kulhudh.		Fuahmulah		Addu		Villimale		Hulhumale		Henveyru		Maafannu		Machangolhi		Galolhu				
Age	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total
18-24	2	2	2	2	4	4	2	2	5	4	5	5	6	5	5	6	6	5	37	35	72
25-31	3	3	3	3	8	8	3	3	9	11	9	9	10	9	10	9	10	10	65	65	130
35-44	2	2	2	2	5	5	2	2	6	5	5	6	6	6	6	6	6	6	40	40	80
45-54	1	1	1	1	4	3	1	1	4	4	5	5	5	4	5	5	4	4	30	28	58
55-64	1	1	1	1	2	2	1	1	3	3	4	3	2	2	2	2	2	2	18	17	35
65+	1	1	1	1	2	2	1	1	2	2	2	2	3	2	2	2	3	2	17	15	32
Total	10	10	10	10	25	24	10	10	29	29	30	30	32	28	30	30	31	29	207	200	407
	20		20		49		20		58		60		60		60		60				
Adjusted	30		30		45		20		55		55		55		55		55				400

*Adjusted numbers within age groups
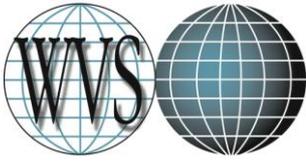
12. What was the final number of clusters or sampling points?

No clusters | 137 |

WRITE IN: | 1 | 3 | 7 |

There were 27 pre-determined main Primary sampling units as shown in the tables above. With each of the PSU (or **island/ward**), enumerators were asked to not recruit more than 10 participants from each location (street walk), taking every 5 household of random locations. As such, participants were recruited from 137 clusters.

13. What was the sampled unit you got from office sampling?

Address	☐	⟶ **ANSWER**
Household	☑	⟶ **ANSWER**
Named individual	☐	⟶ **GO TO 17**
Other (PLEASE WRITE IN DETAILS BELOW	☐	⟶ **ANSWER**

_____

_____

IF NAMED INDIVIDUAL WAS <u>NOT</u> THE SAMPLED UNIT

14. What selection method was used to identify a respondent?

    PLEASE SPECIFY:

The household selection was made randomly in the targeted municipalities (mentioned on the daily work sheet of the interviewer). In the neighbourhood mentioned in the work sheet the interviewer to select randomly the households to cover.

The daily work sheet mentioned also the profile required of the interviewee (in terms of age and gender).

15. Were there <u>any</u> quota-controls on the type of individual selected to take part in the survey (for example, age or sex controls)?

Yes	☑	⟶ **ANSWER**
No	☐	⟶ **GO TO 17**

6
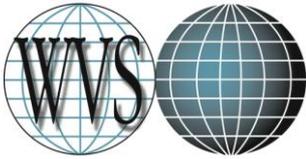
IF QUOTA CONTROLS

16. In what way were quota controls used?

PLEASE WRITE IN: The ideal proportion of age and gender of the sample was tabulated for each atoll/city (PSU), depending on the population of the atoll. Enumerators were asked to try their best to ensure the total sample from their sampling unit contained the suggested number of people of both genders and age groups. However, as the primary goal was to recruit one participant from each household of every 5 houses the quota was not required to be compulsory (but was strongly recommended)

EVERYONE PLEASE ANSWER

17. Was substitution permitted at any stage of your selection process or during fieldwork?

Yes ✓ ⟶ **ANSWER**

No ☐ ⟶ **GO TO 19**

IF 'YES'

18. In what way was substitution permitted?

PLEASE WRITE IN: Availability and willingness of the respondents to spare an hour or more of their time to participate in the survey.

EVERYONE PLEASE ANSWER

19. Did you use any stratification factors when drawing your sample?

Yes ✓ ⟶ **ANSWER**

No ☐ ⟶ **GO TO 21**

IF STRATIFICATION FACTORS USED

20. What stratification factors were used, and at what stage(s) of selection?

PLEASE WRITE IN:
As detailed in the answer to Question 11 above. Stratification on gender & age group.

EVERYONE PLEASE ANSWER

21. All in all, what are the known limitations of your <u>realized</u> sample?

For example: non-response rate; is there differential coverage of particular groups, either because of sample design or response differences?
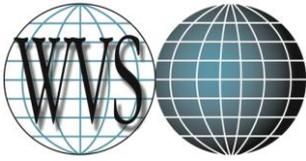
The sample design has limitations in missing out on recruiting expat workers as expatriates tend to live within worker-quarters and this was not covered (or were missed) in data collection, as they were not specifically targeted.

Further response bias might have happened depending on the time of house visits. However, enumerators reported many instances where they arranged call backs to recruit a particular person from the household depending on the stratification. Not all such instances have been documented.

A total of 1261 people were approached during the street walk, and 1039 people agreed to participate. 222 people did not consent to participate for a variety of reasons, mostly cited as time difficulty. Details of all refusals have not been documented.

82.4% response or % non-response: PLEASE WRITE IN:

22. Please fill in the following details about your sample. If some categories do not apply, please complete to the highest level of detail possible and use the 'other' box to give more information.

Total number of <u>starting</u> names/addresses	1	0	0	0
- addresses which could not be traced at all				
- addresses established as empty, demolished or containing no private dwelli				
- selected respondent too sick/incapacitated to participate				
- selected respondent away during survey period				
- selected respondent had inadequate understanding of language of survey				
- no contact at selected address				
- no contact with selected person				
- refusal at selected address				
- proxy refusal (on behalf of selected respondent)				
- personal refusal by selected respondent		2	2	2
- other type of unproductive (please write in full details in the box below)				
- full productive interview	1	0	3	9
- partial productive interview				

IF 'OTHER' CATEGORY USED

23. Please specify

Enumerators were instructed to approach every 5 households from each cluster location, to recruit only 1 person aged 18 years and above from each selected household. If there were no one in a particular household (address), the enumerators were asked to approach the next household and to re-start the every 5th household count.
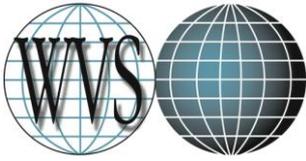
SECTION 3: FIELDWORK

24. If interviews were not face-to-face, please specify the way of interviewing:

25. The next group of questions are about interviewers.

    If no interviewers were used at any point in the WVS survey, please go to Q26.

IF INTERVIEWERS USED

a. Were interviewers paid according to performance (for example, according to the number of interviews they obtained)?

Yes ✓

No ☐

b. Which, if any, of these rules governed how an interviewer approached an address/household?

PLEASE TICK THOSE THAT APPLY

Calls must be made at different times of day ✓

Calls must be made on different days of week ☐

Neither of the above ☐

c. Were interviewers <u>required</u> to make a certain number of re-calls before they stopped approaching an address or household?

Minimum number of re-calls required - please write in number **0 2**

No minimum re-call requirement ☐

d. Were any interviews supervised?

Yes - please write in approximate proportion **1 2** %

No ☐

e. Were any interviews back-checked?

Yes - please write in approximate proportion ☐☐ %

No ✓

EVERYONE PLEASE ANSWER

26. Please write in the approximate start and end dates of fieldwork: **DD MM YY**

Start date **0 5 0 9 2 2**

End date **1 5 1 0 2 2**

27. Please write in the name of the institute which has done the fieldwork.

Department of Social Sciences, The Maldives National University
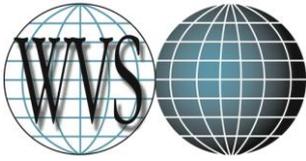
SECTION 4: DATA

28. Were any measures of coding reliability employed?

Yes ⟶ ☑   **ANSWER**

No   ☐   **GO TO 29**

28a. Which one? Please specify

1. Enumeration was carried out in teams of 2 people. The data entry was done by the enumerators assigned for the cluster.
2. At least 20 randomly selected questionnaires were double checked for the accuracy of coding. This was done by the research assistant for the whole project.
3. Selected questions from all questionnaires were double checked for data accuracy. This too, was carried out the project's research staff.

29. Were the data from the questionnaire keyed subsequent to the interview (that is, non-CAPI surveys)?

Yes ⟶ ☑   **ANSWER**

No ⟶ ☐   **GO TO 31**

IF DATA KEYED

30. Was keying verified?

Yes - please write in approximate level of verification | 8 | 0 | %

No   ☐

EVERYONE PLEASE ANSWER

31. Were any reliability checks made on derived variables?

Yes ☑
No ☐

32. Were data checked/edited to ensure that filter instructions were followed correctly?

Yes ☑
No ☐

33. Were data checked/edited for logic or consistency?

Yes ☑
No ☐

34. Were data checked/edited to ensure they fell within permitted coding ranges?

Yes ☑
No ☐
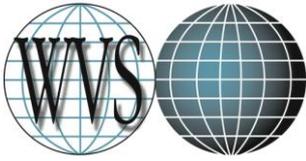
35. Have you answered 'yes' on any or all of questions 32 to 34 above?

Yes [✓] ⟶ **ANSWER**

No [ ] ⟶ **GO TO 37**

IF DATA CHECKED/EDITED

36. Were errors corrected individually or automatically (through, for example, a 'forced' edit)?

Yes - individual correction [✓]

Yes - automatic correction [ ]

No - not corrected [ ]

EVERYONE PLEASE ANSWER

37. Did you add a weight variable?

Yes [✓] ⟶ **ANSWER**

No [ ] ⟶ **GO TO 39**

IF WEIGHT VARIABLE ADDED

38. Please describe the weighting or post-stratification strategy used.

As detailed in the answer to Question 11 above. Stratification on gender & age group was applied at the time of sample recruitment.

The total number of participants to recruit from each cluster was weighted for statistical representation as well as to facilitate for enumeration. The table included with answer for Question 11 shows the calculated total number of samples to recruit based on population, and below that the weighed total is also included as the "adjusted" sample size.

No modifications done to the dataset.

SECTION 5: CHARACTERISTICS OF NATIONAL POPULATION

39. Each member is asked to provide information on known characteristics of its national population, from census or the best available estimates from government surveys or other high-quality data-sources:

- sex distribution of the population
- age distribution of the population
- education (years of schooling) of the population
- other characteristics (PLEASE SPECIFY)

Please specify also the sources which have been used. Please note that the number of characteristics is what is minimal required. You can add as many characteristics as you like, but do not forget to specify them.
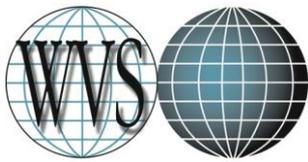
In the table below please present the information from census or from other government surveys or other high-quality data (column SOURCE 1) and the proportions obtained in your data, before and after weighting

	Source:	Unweighted data	Weighted data
Gender			
Female	NBS (2015)	108,270	51%
Male	NBS (2015)	109,946	49%
Age Groups	NBS (2015)		
18 - 29 years	18-24 years (NBS, 2015)	37,886	17%
30 - 39 years	25-34 years (NBS, 2015)	70,551	32%
40 - 49 years	35-44 years (NBS, 2015)	42,779	20%
50 - 59 years	45-54 years (NBS, 2015)	32,629	15%
60 years & +	55-64 years (NBS, 2015)	17,952	8%
	65+ years (NBS, 2015)	16,419	8%
Highest Certificate achieved (residents 15 years and above)			
No Certificate	NBS (2016)	105,042 (45.92%)	
Completed Secondary Education (O'level)	NBS (2016)	80,168 (34.36%)	
Completed Higher Secondary education (A'level)	NBS (2016)	7,946 (3.41%)	
Academic (vocational, less than 6 months)	NBS (2016)	10,999 (4.71%)	
Academic (vocational, more than 6 months)	NBS (2016)	23,363 (10.01%)	
University level education	NBS (2016)	483 (0.21%)	
Other characteristics Please specify			
Urban	NBS (2015) **	169 562 (51.31%)	40% (Target sample); 41% (Recruited Sample)
Rural	NBS (2015) **	150,876 (48.69%)	60% (Target); 59%(Recruited Sample)

Note.

*See also table with answer for Question 11. The age groups are selected to be consistent with Maldives Census data. In the dataset, participants can be identified based on their birth year, and thus, categories can be created.

** The NBS does not categorise the communities as rural or urban. For this research all islands decreed with city status has been counted as urban islands and all the remaining grouped into rural communities. The statistics includes the entire population.

NBS. (2015). Statistical Yearbook of Maldives 2014. Male', Maldives: National Bureau of Statistics.

NBS. (2016). Maldives population & housing census 2014: Statistical release III, Education. Male', Maldives: National Bureau of Statistics. Retrieved from http://statisticsmaldives.gov.mv/nbs/wp-content/uploads/2016/02/StatisticalReleaseII-Education.pdf
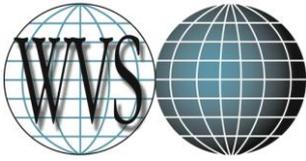
Appendices

Settlement Names & PSU codes

		PSU Code	Number of participants
Urban Cities	GMA: Galolhu	27	55
	GMA: Henveiru	24	55
	GMA: Maafannu	25	51
	GMA: Mahchangoalhi	26	57
	GMA: Male' (other)	28	25
	GMA: Villimale	22	21
	GMA: Hulhumale	23	58
	Addu city	21	44
	Fuvahmulah City	20	30
	Kulhudhuffushi City	19	31
	Total		**427**

		PSU Code	Number of participants
Rural islands	HA Utheemu	01	50
	HDh Hanimaadhoo	02	41
	Sh Funadhoo	03	44
	N Kendhikulhudhoo	04	42
	R Hulhudhuffaaru	05	50
	B Thulhaadhoo	06	31
	Lh Naifaru	07	30
	K Thulusdhoo	08	44
	AA Ukulhas	09	30
	ADh Dhangethi	10	30
	M Dhiggaru	11	30
	Dh Maaenboodhoo	12	30
	Th Guraidhoo	13	36
	L Kalaidhoo	14	49
	GA Kolamaafushi	15	30
	GDh Thinadhoo	16	45
	Total		**612**