

# **D1.2 Rwandan Cultural Knowledge**

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|--|--|----|--|--|
|  | Dissemination Level  |    |  |  |
| PU   | Public   | PU |  |  |
| PP   | Restricted to other programme participants (including Afretec Administration)        |    |  |  |
| RE   | Restricted to a group specified by the consortium (including Afretec Administration) |    |  |  |
| СО   | Confidential, only for members of the consortium (including Afretec Administration)  |    |  |  |



### **Executive Summary**

Deliverable D1.2 comprises a catalogue of general, population-based cultural knowledge in the form of behaviors, activities, actions, and movements that are either culturally sensitive or culturally insensitive. This knowledge will be used to specify the culturally sensitive African modes of social interaction in Deliverable D1.3 and the Africa-centric design patterns in Deliverable D1.4. It will be formalized in the culture knowledge ontology and knowledge base in Deliverable D5.4.1. The cultural knowledge will be gathered by developing a detailed questionnaire and using it to interview a cross-section of Rwandan citizens in November and December 2023. **This first draft of the deliverable just addresses the survey questionnaire, in both English and Kinyarwanda, so that it can be validated before conducting the survey.** 

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## **Contents**

| 1 Introduction   | 4  |
|--|----|
| 2 Rwandan Cultural Knowledge for Respectful Interaction              | 4  |
| Appendix I: Cultural Knowledge Survey Questionnaire (English)        | 5  |
| Appendix II: Cultural Knowledge Survey Questionnaire (Kinyarwanda)   | 17 |
| Appendix III: Cultural Knowledge Ontology for Respectful Interaction | 27 |
| Principal Contributors   | 28 |
| Document History   | 29 |



### 1 Introduction

This report will be a compilation of the culture-specific knowledge that is needed to achieve culturally-competent human robot interaction between robots and Rwandan people. The knowledge focusses on human-human interaction, rather than human-robot interaction. Appropriate elements of this knowledge will then be used in Tasks 1.3 and 1.4 to specify culturally sensitive modes of robot behavior for human-robot interaction. This approach was adopted to avoid introducing the concept of social robots, something that may not be familiar to all participants in the survey, when canvassing their views. It is planned to conduct this canvassing exercise using the questionnaire in Appendix I. **This first draft of the deliverable focusses on the survey questionnaire, so that it can be validated prior to conducting the survey.** 

### 2 Rwandan Cultural Knowledge for Respectful Interaction

The knowledge will be structured according to an ontology of cultural knowledge for respectful interaction detailed in Appendix II. This ontology is a preemptive attempt at the ontology design exercise in Task 5.4.1.

Subsequent versions of this deliverable will address the identification of the respondents who will be canvassed, with the goal of compiling responses from an broad cross-section of people and, thereby, creating an unbiased and representative knowledge base.

The final version will present the results of the exercise — Rwandan cultural knowledge for polite and respectful interaction — which will then be used as input to Task 1.2 African Modes of Social Interaction, Task 1.3 Africa-centric Design Patterns, and Task 5.4.1 Cultural Knowledge Ontology & Knowledge Base.

Date: 23/2/2024 Page 4

Version: No 1.7



### Appendix I: Cultural Knowledge Survey Questionnaire (English)

### **Respectful Interaction**

In daily life, people interact with one another in several ways. They interact verbally using speech and they interact non-verbally using body language, e.g, by gesturing with their hands, arms, shoulders, faces, lips, eyes, and eyebrows. During such social interaction, they often position their bodies in certain ways. It is highly desirable that all interaction between people be conducted in a respectful manner by being aware of social and cultural norms and expectations.

### Goal of the Survey

This survey aims to answer the following two questions: "How do you behave respectfully when interacting with people in Rwanda and how should you not behave?"

### **Purpose of the Survey**

The knowledge that is gathered in this survey will be used to equip social robots with cultural knowledge that will allow them to interact respectfully and politely with people using non-verbal, verbal, and spatial modes of behaviour.

### **Structure of the Questionnaire**

The questionnaire has three parts.

In Part 1, we ask you to provide some information about yourself. This information will be kept in strict confidence and it is only used to check that the survey is balanced in terms of age, gender, cultural heritage, and nationality.

In Part 2, we will ask you whether you consider cultural knowledge we have gathered in previous surveys<sup>1</sup> to be correct or not. The focus of these surveys was on human-robot interaction, derived from human-human interaction, and so the social settings reflects situations where one might encounter a social robot, e.g., hospitals, airports, exhibitions, shopping malls, and offices.

In Part 3, we ask you to answer several questions to help us identify different forms of culturally sensitive, respectful behaviours — movements, actions, or activities — and disrespectful behaviours.

<sup>&</sup>lt;sup>1</sup>We canvassed the views of twenty-three people from eight countries in Africa to collect this cultural knowledge.



| Part 1: Demographic Informatio | on | matio | Inforn | I | raphic | Demogr | 1: ] | Part 1 |
|--------------------------------|----|-------|--------|---|--------|--------|------|--------|
|--------------------------------|----|-------|--------|---|--------|--------|------|--------|

1. What age are you?  $\Box$  20–29  $\Box$  30–39  $\Box$  40–49  $\Box$  50–59  $\Box$  60 or more.

2. Which are you? □ Female □ Male

Date: 23/2/2024 Page 6

Version: No 1.7



## Part 2: Existing Cultural Knowledge

Consider the following statements and select the option to indicate whether or agree with it or not.

| 1. | . To show respect, one should lower gaze when greeting someone older.   |
|----|---|
|    | ☐ Yes, this is correct.   |
|    | □ No, this is not correct.  |
|    | ☐ I am not sure.  |
| 2. | . One should suspend work or movements and pay attention when addressed.  |
|    | ☐ Yes, this is correct.   |
|    | □ No, this is not correct.  |
|    | ☐ I am not sure.  |
| 3. | . One should keep intermittent eye contact; lack of eye contact depicts disrespect as it shows divide attention during the interaction. |
|    | ☐ Yes, this is correct.   |
|    | $\square$ No, this is not correct.  |
|    | $\Box$ I am not sure.   |
| 4. | One should not make persistent eye contact with an older person.  |
|    | ☐ Yes, this is correct.   |
|    | □ No, this is not correct.  |
|    | ☐ I am not sure.  |
| 5. | . One should not make eye contact when being corrected by someone.  |
|    | ☐ Yes, this is correct.   |
|    | □ No, this is not correct.  |
|    | ☐ I am not sure.  |
| 5. | One should use an open palm of the hand to point to people and objects.   |
|    | ☐ Yes, this is correct.   |
|    | □ No, this is not correct.  |
|    | ☐ I am not sure.  |
| 7. | . One should not point an upward facing palm of the hand at someone.  |
|    | ☐ Yes, this is correct.   |
|    | □ No, this is not correct.  |
|    | ☐ I am not sure.  |
| 8. | One should not use the left hand to point to anything.  |
|    | ☐ Yes, this is correct.   |
|    | □ No, this is not correct.  |
|    | ☐ I am not sure.  |



| 9.  | To show respect, one should bow slightly when greeting someone older.  |
|-----|--|
|     | ☐ Yes, this is correct.  |
|     | □ No, this is not correct.   |
|     | ☐ I am not sure.   |
| 10. | To show respect, one should raise both hands when greeting.  |
|     | ☐ Yes, this is correct.  |
|     | □ No, this is not correct.   |
|     | ☐ I am not sure.   |
| 11. | One should not wave at someone from a distance; one should move towards them to greet them.                                  |
|     | ☐ Yes, this is correct.  |
|     | □ No, this is not correct.   |
|     | ☐ I am not sure.   |
| 12. | One should not use the left hand to hand something to someone.   |
|     | ☐ Yes, this is correct.  |
|     | □ No, this is not correct.   |
|     | ☐ I am not sure.   |
| 13. | To show respect, one should hand over and accept gifts with two hands and do so from the front, facing the recipient.        |
|     | ☐ Yes, this is correct.  |
|     | □ No, this is not correct.   |
|     | ☐ I am not sure.   |
| 14. | To show respect, one should shake hands with the right hand and use the left arm to support the right forearm when doing so. |
|     | ☐ Yes, this is correct.  |
|     | □ No, this is not correct.   |
|     | ☐ I am not sure.   |
| 15. | An appreciation of rhythmic sound and movement is valued.  |
|     | ☐ Yes, this is correct.  |
|     | □ No, this is not correct.   |
|     | ☐ I am not sure.   |
| 16. | To show respect, one should bow slightly and lower gaze when greeting someone older.   |
|     | ☐ Yes, this is correct.  |
|     | □ No, this is not correct.   |
|     | ☐ I am not sure.   |



| 17. | The younger interaction partner should bow when greeting an older person or when rendering a service.               |
|-----|---|
|     | ☐ Yes, this is correct.   |
|     | □ No, this is not correct.  |
|     | ☐ I am not sure.  |
| 18. | All interactions should begin with a courteous greeting.  |
|     | ☐ Yes, this is correct.   |
|     | □ No, this is not correct.  |
|     | ☐ I am not sure.  |
| 19. | The younger interaction partner should enable a greeting to be initiated by an older person.                        |
|     | ☐ Yes, this is correct.   |
|     | □ No, this is not correct.  |
|     | ☐ I am not sure.  |
| 20. | It is respectful to use local languages and they should be used for verbal interaction when possible.               |
|     | ☐ Yes, this is correct.   |
|     | □ No, this is not correct.  |
|     | ☐ I am not sure.  |
| 21. | One should use formal titles when addressing someone.   |
|     | ☐ Yes, this is correct.   |
|     | □ No, this is not correct.  |
|     | ☐ I am not sure.  |
| 22. | One should engage in a preamble before getting to the point, as being too forward may be regarded as disrespectful. |
|     | ☐ Yes, this is correct.   |
|     | □ No, this is not correct.  |
|     | ☐ I am not sure.  |
| 23. | One should not interrupt or talk over someone when they are speaking.   |
|     | ☐ Yes, this is correct.   |
|     | □ No, this is not correct.  |
|     | ☐ I am not sure.  |
| 24. | One should not talk loudly to an older person.  |
|     | ☐ Yes, this is correct.   |
|     | □ No, this is not correct.  |
|     | ☐ I am not sure.  |



| 25. | Behaviours should focus on fostering social connections and relationships; they should not be purely functional.                   |
|-----|--|
|     | ☐ Yes, this is correct.  |
|     | □ No, this is not correct.   |
|     | ☐ I am not sure.   |
| 26. | One should not walk between two or more people who are conversing because it is considered rude to do so.                          |
|     | ☐ Yes, this is correct.  |
|     | □ No, this is not correct.   |
|     | ☐ I am not sure.   |
| 27. | One should not walk far ahead of an older person, unless leading the person (in which case, one should walk slightly to the side). |
|     | ☐ Yes, this is correct.  |
|     | □ No, this is not correct.   |
|     | ☐ I am not sure.   |



## **Part 3: New Cultural Knowledge**

| 1. | What distance should you keep when passing someone?                                       |
|----|---|
|    | ☐ Less than 1 m.  |
|    | $\Box$ 1 – 2 m.   |
|    | ☐ More than 2 m.  |
| 2. | How should you acknowledge someone when passing them?                                     |
|    | □ No acknowledgement.   |
|    | ☐ Raise eyebrows slightly.  |
|    | □ Nod head.   |
|    | □ Say hello.  |
|    | ☐ Other. Please specify:  |
| 3. | How should you pass a group of two or more people?  |
|    | □ Pass behind them.   |
|    | □ Pass between them.  |
|    | □ Pass in front of them.  |
|    | □ Pass beside them.   |
| 4. | When showing someone <i>older</i> than you the way, where should you position yourself?   |
|    | ☐ Far in front of them.   |
|    | ☐ A little in front of them.  |
|    | □ Beside them.  |
|    | ☐ A little behind them.   |
| 5. | When showing someone the same age as you the way, where should you position yourself?     |
|    | ☐ Far in front of them.   |
|    | ☐ A little in front of them.  |
|    | ☐ Beside them.  |
|    | ☐ A little behind them.   |
| 6. | When showing someone <i>younger</i> than you the way, where should you position yourself? |
|    | ☐ Far in front of them.   |
|    | ☐ A little in front of them.  |
|    |   |
|    | ☐ Beside them.  |



| 7.  | How should you address someone who is <i>older</i> than you and who you haven't met before?  |
|-----|--|
|     | ☐ First name.  |
|     | ☐ Last name.   |
|     | ☐ Title first name.  |
|     | ☐ Title last name.   |
|     | □ Muraho.  |
|     | ☐ Mwaramutse or Mwiriwe  |
|     | ☐ Other. Please specify:   |
| 8.  | How should you address someone who is the same age as you and who you haven't met before?  |
|     | ☐ First name.  |
|     | ☐ Last name.   |
|     | ☐ Title first name.  |
|     | ☐ Title last name.   |
|     | □ Muraho.  |
|     | ☐ Mwaramutse or Mwiriwe  |
|     | ☐ Other. Please specify:   |
| 9.  | How should you address someone who is <i>younger</i> than you and who you haven't met before?  |
|     | ☐ First name.  |
|     | ☐ Last name.   |
|     | ☐ Title first name.  |
|     | ☐ Title last name.   |
|     | □ Muraho.  |
|     | ☐ Mwaramutse or Mwiriwe  |
|     | ☐ Other. Please specify:   |
| 10. | Should you pause before responding when someone asks you a question? If yes, for how long?   |
|     | □ Yes:   |
|     | □ No.  |
| 11. | In an interaction where you and someone else take turns to speak, would you signal that you want to speak? If yes, how do you do that? |
|     | □ Yes:   |
|     | □ No.  |



| 12. | If <i>you</i> are explaining something to someone, what is your primary focus of attention, i.e., where do you direct your gaze? |
|-----|--|
|     | ☐ The object being explained.  |
|     | ☐ The face, eyes, or mouth of the person to whom you are explaining.   |
|     | ☐ Mostly the object and sometimes the person.  |
|     | ☐ Mostly the person and sometimes the object.  |
|     | ☐ Equally the person and the object.   |
| 13. | If you are explaining something to someone, how often should you make eye contact?   |
|     | □ Never.   |
|     | □ Occasionally.  |
|     | □ Often.   |
|     | □ Constantly.  |
| 14. | If <i>you</i> are explaining something to someone, how often would you make eye contact if the person was older than you?        |
|     | □ Less often.  |
|     | ☐ More often.  |
|     | □ No difference.   |
| 15. | If <i>you</i> are explaining something to someone, how often would you make eye contact if the person was younger than you?      |
|     | □ Less often.  |
|     | ☐ More often.  |
|     | □ No difference.   |
| 16. | If someone is explaining something to <i>you</i> , what is your primary focus of attention, i.e., where do you direct your gaze? |
|     | ☐ The object being explained.  |
|     | ☐ The face, eyes, or mouth of the person to whom you are explaining.   |
|     | ☐ Mostly the object and sometimes the person.  |
|     | ☐ Mostly the person and sometimes the object.  |
|     | ☐ Equally the person and the object.   |
| 17. | If someone is explaining something to you, how often should you make eye contact?  |
|     | □ Never.   |
|     | □ Occasionally.  |
|     | □ Often.   |
|     | □ Constantly.  |
|     |  |



| 18. | If someone is explaining something to <i>you</i> , how often would you make eye contact if the person was older than you?   |
|-----|---|
|     | □ Less often.   |
|     | ☐ More often.   |
|     | □ No difference.  |
| 19. | If someone is explaining something to <i>you</i> , how often would you make eye contact if the person was younger than you? |
|     | ☐ Less often.   |
|     | ☐ More often.   |
|     | □ No difference.  |
| 20. | Would you use a face or head gesture to draw someone's attention to something? If yes, what would that gesture be?          |
|     | □ Yes:  |
|     | □ No.   |
| 21. | Would you use a face, head, hand, or body gesture to express gratitude?   |
|     | □ Yes:  |
|     | - What would the face or head gesture be?   |
|     | - What would the hand gesture be, and which hand would you use: left, right, either, or both?,                              |
|     | - What would the body gesture be?   |
|     | □ No.   |
| 22. | Would you use a face, head, hand, or body gesture to express agreement?   |
|     | □ Yes:  |
|     | - What would the face or head gesture be?   |
|     | - What would the hand gesture be, and which hand would you use: left, right, either, or both?,                              |
|     | - What would the body gesture be?   |
|     | □ No.   |
| 23. | Would you use a face, head, hand, or body gesture to express respect?   |
|     | □ Yes:  |
|     | - What would the face or head gesture be?   |
|     | - What would the hand gesture be, and which hand would you use: left, right, either, or both?,                              |
|     | - What would the body gesture be?   |
|     | □ No.   |



| 24. | Would you use a face, head, hand, or body gesture to express <i>friendliness</i> ?              |         |       |            |
|-----|---|---------|-------|------------|
|     | □ Yes:  |         |       |            |
|     | - What would the face or head gesture be?   |         |       |            |
|     | <ul> <li>What would the hand gesture be, and which hand would you use:</li> <li>both?</li></ul> | left, r | ight, | either, or |
|     | - What would the body gesture be?   |         |       |            |
|     | □ No.   |         |       |            |
| 25. | Would you use a face, head, hand, or body gesture to express confusion?                         |         |       |            |
|     | □ Yes:  |         |       |            |
|     | - What would the face or head gesture be?   |         | _     |            |
|     | - What would the hand gesture be, and which hand would you use: both?,                          | left, r | ight, | either, or |
|     | - What would the body gesture be?   |         |       |            |
|     | □ No.   |         |       |            |
| 26. | Would you use a face, head, hand, or body gesture to express comprehension                      | ı?      |       |            |
|     | □ Yes:  |         |       |            |
|     | - What would the face or head gesture be?   |         | _     |            |
|     | <ul> <li>What would the hand gesture be, and which hand would you use:</li> <li>both?</li></ul> | left, r | ight, | either, or |
|     | - What would the body gesture be?   |         |       |            |
|     | □ No.   |         |       |            |
| 27. | Would you use a face, head, hand, or body gesture to express interest?                          |         |       |            |
|     | □ Yes:  |         |       |            |
|     | - What would the face or head gesture be?   |         |       |            |
|     | - What would the hand gesture be, and which hand would you use: both?,                          | left, r | ight, | either, or |
|     | - What would the body gesture be?   |         |       |            |
|     | □ No.   |         |       |            |
| 28. | Is there a face head, hand, or body gesture you should <i>not</i> use?                          |         |       |            |
|     | □ Yes:  |         |       |            |
|     | - What would the face or head gesture be?   |         | _     |            |
|     | - What would the hand gesture be, and which hand would you use: both?,                          | left, r | ight, | either, or |
|     | - What would the body gesture be?   |         |       |            |
|     | □ No.   |         |       |            |
| 29. | Would you use a hand or body gesture while speaking to someone?                                 |         |       |            |
|     | □ Yes:  |         |       |            |
|     | - What would the hand gesture be, and which hand would you use: both?,                          | left, r | ight, | either, or |
|     | - What would the body gesture be?   |         |       |            |
|     | □ No.   |         |       |            |



| 30. | Would you use a hand or body gesture while listening to someone?                               |
|-----|--|
|     | □ Yes:   |
|     | - What would the hand gesture be, and which hand would you use: left, right, either, or both?, |
|     | - What would the body gesture be?  |
|     | $\sqcap$ No.   |



# Appendix II: Cultural Knowledge Survey Questionnaire (Kinyarwanda)

## Igice 1: Umwirondoro

1. Imyaka ingahe?  $\qed$  20–29  $\qed$  30–39  $\qed$  40–49  $\qed$  50–59  $\qed$  60 cyangwa hejuru yayo.

2. Uri nde? □ Gore □ Gabo



## Igice 2: Ubumenyi bw'umuco buriho

Soma neza interuro zikurikira, uhitemo YEGO cyangwa OYA mu gihe wemeranya niyo nteruro.

| 1. | Mu buryo bwo kwerekana icyubahiro, umuntu agomba guca bugufi mu gihe asuhuza umuntu mukuru.   |
|----|---|
|    | □ Yego, nibyo.  |
|    | ☐ Oya, ntago aribyo.  |
|    | □ Ntago mbizi neza.   |
| 2. | Umuntu agomba guhagarika akazi yararimo nibyo yakoraga akumva umuntu umushaka icycamushakira.   |
|    | □ Yego, nibyo.  |
|    | □ Oya, ntago aribyo.  |
|    | □ Ntago mbizi neza.   |
| 3. | Umuntu agomba guhuza amaso n'umuntu mu gihe bavugana; kudahuza amaso n'umuntu mu gihe muvugana byerekana ko wamusuzuguye kandi utamwitwayeho. |
|    | ☐ Yego, nibyo.  |
|    | □ Oya, ntago aribyo.  |
|    | □ Ntago mbizi neza.   |
| 4. | Umuntu ntagomba guhuza amaso n'umuntu mukuru.   |
|    | ☐ Yego, nibyo.  |
|    | □ Oya, ntago aribyo.  |
|    | □ Ntago mbizi neza.   |
| 5. | Umuntu ntago agomba guhuza amaso n'umuntu Uri Kumukosora.   |
|    | □ Yego, nibyo.  |
|    | □ Oya, ntago aribyo.  |
|    | □ Ntago mbizi neza.   |
| 6. | Umuntu agomba gukoresha ikiganza gifunguye kugirango yerekane abantu nibintu.   |
|    | ☐ Yego, nibyo.  |
|    | □ Oya, ntago aribyo.  |
|    | □ Ntago mbizi neza.   |
| 7. | Umuntu ntagomba gutunga urutoki umuntu arwerekeza hejuru.   |
|    | □ Yego, nibyo.  |
|    | □ Oya, ntago aribyo.  |
|    | □ Ntago mbizi neza.   |
|    |   |



| 8.  | Un   | nuntu ntagomba gukoresha ikiganza cy'ibumoso yerekana ikintu.   |
|-----|------|---|
|     |      | Yego, nibyo.  |
|     |      | Oya, ntago aribyo.  |
|     |      | Ntago mbizi neza.   |
| 9.  | Un   | nuntu agomba guca bugufi mu gihe asuhuza umuntu mukuru.   |
|     |      | Yego, nibyo.  |
|     |      | Oya, ntago aribyo.  |
|     |      | Ntago mbizi neza.   |
| 10. | Mu   | iburyo bwo kwerekana icyubahiro, umuntu agomba gukoresha ibiganza byombi asuhuza umuntu   |
|     |      | Yego, nibyo.  |
|     |      | Oya, ntago aribyo.  |
|     |      | Ntago mbizi neza.   |
| 11. | Un   | nuntu ntagomba gupepera umuntu uri kure; agomba kumwegera akamusuhuza.  |
|     |      | Yego, nibyo.  |
|     |      | Oya, ntago aribyo.  |
|     |      | Ntago mbizi neza.   |
| 12. | Un   | nuntu ntagomba guhereza ikintu umuntu akoresheje ikiganza cy'ibumoso.   |
|     |      | Yego, nibyo.  |
|     |      | Oya, ntago aribyo.  |
|     |      | Ntago mbizi neza.   |
| 13. |      | abyo bwo kwerekana icyubahiro, umuntu agomba kwakira impano akoresheje amaboko abiri adi akanayakira ari imbere y'umuntu uyimuhaye.                             |
|     |      | Yego, nibyo.  |
|     |      | Oya, ntago aribyo.  |
|     |      | Ntago mbizi neza.   |
| 14. |      | ibyo bwo kwerekana icyubahiro, Umuntu agomba gusuhuzanya akoresheje ikiganza cy'iburyo makoresha ikiganza cy'ibumoso akagishyira ku cy'iburo mugihe asuhuzanya. |
|     |      | Yego, nibyo.  |
|     |      | Oya, ntago aribyo.  |
|     |      | Ntago mbizi neza.   |
| 15. | Igil | he umuntu yishimiye amajwi afite injyana no kuba habaho kugenda, bihabwa agaciro.   |
|     |      | Yego, nibyo.  |
|     |      | Oya, ntago aribyo.  |
|     |      | Ntago mbizi neza.   |



| 16. | Mubyo bwo kwerekana icyubahiro, umuntu agomba guca bugufi mugihe asuhuza umuntu mukuru cyangwa ukuze.                                     |
|-----|---|
|     | □ Yego, nibyo.  |
|     | □ Oya, ntago aribyo.  |
|     | □ Ntago mbizi neza.   |
| 17. | Umuntu muto agomba guca bufi mugihe asuhuza umuntu mukuru cyangwa amwaka ubufasha.  |
|     | ☐ Yego, nibyo.  |
|     | □ Oya, ntago aribyo.  |
|     | □ Ntago mbizi neza.   |
| 18. | Imikoranire yose igomba gutangirana indamutso.  |
|     | ☐ Yego, nibyo.  |
|     | □ Oya, ntago aribyo.  |
|     | □ Ntago mbizi neza.   |
| 19. | Umuntu muto agomba gutegereza umantu mukuru akamurumutsa.   |
|     | ☐ Yego, nibyo.  |
|     | □ Oya, ntago aribyo.  |
|     | □ Ntago mbizi neza.   |
| 20. | Nibyiza gukoresha ururimi mwese muhuriyeho. Kandi rukanakoreshwa mu mikoranire mu magambo.  |
|     | □ Yego, nibyo.  |
|     | ☐ Oya, ntago aribyo.  |
|     | □ Ntago mbizi neza.   |
| 21. | Umuntu agomba gukoresha amazina y'icyubahiro mu gihe abwira umuntu.   |
|     | ☐ Yego, nibyo.  |
|     | □ Oya, ntago aribyo.  |
|     | □ Ntago mbizi neza.   |
| 22. | Umuntu agomba kubanza agasuhuza ndetse akanibwira abantu ashaka kubwira ikintu, kuko kuvuga uhita urasa ku ntego bigaragara nko kutubaha. |
|     | ☐ Yego, nibyo.  |
|     | □ Oya, ntago aribyo.  |
|     | □ Ntago mbizi neza.   |
| 23. | Umuntu ntagomba kuvugira mu muntu uri kuvuga.   |
|     | ☐ Yego, nibyo.  |
|     | □ Oya, ntago aribyo.  |
|     | □ Ntago mbizi neza.   |



| 24. | Umuntu ntagomba kuvugira hejuru mu gihe ambwira umuntu mukuru.  |
|-----|---|
|     | ☐ Yego, nibyo.  |
|     | ☐ Oya, ntago aribyo.  |
|     | □ Ntago mbizi neza.   |
| 25. | Imyitwarire igomba kwibanda ku kunoza imibanire n'ubusabane; ntigomba kuba ijyanye n'akazi cg inshingano gusa.            |
|     | ☐ Yego, nibyo.  |
|     | ☐ Oya, ntago aribyo.  |
|     | □ Ntago mbizi neza.   |
| 26. | Umuntu ntagomba kunyura hagati y'abantu babiri bari kuganira kuko bigaraga nko kutubaha.                                  |
|     | ☐ Yego, nibyo.  |
|     | ☐ Oya, ntago aribyo.  |
|     | □ Ntago mbizi neza.   |
| 27. | Umuntu ntagomba kugendera kure y'umuntu mukuru,ahubwo muricyo gihe umuntu agomba kugendera gacye kugirango abe kuruhande. |
|     | ☐ Yego, nibyo.  |
|     | □ Oya, ntago aribyo.  |
|     | □ Ntago mbizi neza.   |



## Igice 3: Ubumenyi bushya bwumuco

| 1. | Ni iyihe ntera ugomba gushyiramo mu gihe uri kunyura ku muntu?                               |
|----|--|
|    | □ Munsi ya 1m  |
|    | $\Box$ 1 – 2 m.  |
|    | □ Hejuru 2 m.  |
| 2. | Ni gute ugomba kwitwara mu gihe unyuze k'umuntu?   |
|    | □ Nta kuntu ugomba kwitara.  |
|    | ☐ Kubura amaso gato.   |
|    | □ kumusuhuza.  |
|    | ☐ Kuzunguza Umutwe.  |
|    | ☐ Ibindi. Sobanura:  |
| 3. | Ni gute ugomba kunyura ku bantu babiri cyangwa benshi?                                       |
|    | □ Kubanyura inyuma.  |
|    | □ Kubanyura hagati.  |
|    | ☐ Kubanyura imbere.  |
|    | ☐ Kubanyura Kumhande.  |
| 4. | Mu gihe uri kwereka inzira umuntu ukuruta,ni hehe ugomba kuba uri hehe cyangwa uhagaze hehe? |
|    | □ kure ho imbere yabo.   |
|    | ☐ Imbere yabo gato.  |
|    | ☐ Iruhande rwabo.  |
|    | ☐ Inyuma yabo gato.  |
| 5. | Mu gihe uri kwereka inzira umuntu mungana,ugomba kuba uri hehe cyangwa uhagaze hehe?         |
|    | □ kure ho imbere yabo.   |
|    | ☐ Imbere yabo gato.  |
|    | ☐ Iruhande rwabo.  |
|    | ☐ Inyuma yabo gato.  |
| 6. | Mu gihe uri kwereka inzira umuntu muto kuri wowe,ugomba kuba uri hehe cyangwa uhagaze hehe?  |
|    | □ kure ho imbere yabo.   |
|    | ☐ Imbere yabo gato.  |
|    | ☐ Iruhande rwabo.  |
|    | □ Inyuma yabo gato.  |



| 7.  | Ni gute ushobora kwita umuntu ukuruta kandi mutanahuye na mbere?  |
|-----|---|
|     | ☐ Izina rya mbere.  |
|     | □ Izina rya kabiri.   |
|     | ☐ (Bwana, Madamu) Izina rya mbere.  |
|     | □ (Bwana, Madamu) Izina rya kabiri.   |
|     | □ Muraho.   |
|     | ☐ Mwaramutse or Mwiriwe   |
|     | ☐ Ibindi. sobanura:   |
| 8.  | Ni gute ushobora kwita umuntu muri mu kigero kimwe kandi mutanahuye na mbere?   |
|     | ☐ Izina rya mbere.  |
|     | □ Izina rya kabiri.   |
|     | ☐ (Bwana, Madamu, Dr, Prof,) Izina rya mbere.   |
|     | □ (Bwana, Madamu, Dr, Prof,) Izina rya kabiri.  |
|     | □ Muraho.   |
|     | ☐ Mwaramutse or Mwiriwe   |
|     | □ Ibindi. sobanura:   |
| 9.  | Ni gute ushobora kwita umuntu muto kuri wowe kandi mutanahuye na mbere?   |
|     | ☐ Izina rya mbere.  |
|     | □ Izina rya kabiri.   |
|     | ☐ (Bwana, Madamu) Izina rya mbere.  |
|     | □ (Bwana, Madamu) Izina rya kabiri.   |
|     | □ Muraho.   |
|     | ☐ Mwaramutse or Mwiriwe   |
|     | □ Ibindi. sobanura:   |
| 10. | Ugomba kwitonda ho gato,mbere yo gusubiza ikibazo umuntu akubajije? Niba ari yego, bigomba kumpara igihe kingana gute?                          |
|     | □ Yego:   |
|     | □ Oya.  |
| 11. | Mu biganiro aho wowe nundi muntu bisaba ko mwaka ijambo kugirango muvuge, ni ngombwa ko werekana ko ushaka kuvuga? Niba ari yego, wabikora ute? |
|     | □ Yego:   |
|     | □ Oya.  |
| 12. | Mu gihe uri gusobanurira umuntu ikintu, ni kihe kintu ugomba kubanza kwitaha, urugero, ni hehe ugomba kwibanda ?                                |
|     | □ Ku kintu urigusobanura.   |
|     | ☐ Mwisura, mu maso cyangwa ku munwa w'umuntu uri gusobanurira   |
|     | ☐ Cyane cyane umuntu, rimwe na rimwe nikintu.   |
|     |   |



|     | ☐ Byose icyarimwe umuntu nikintu.   |
|-----|---|
| 13. | Niba uri gusobanrira umuntikintu, Ni ryari mugomba guhuza amaso?  |
|     | □ Nta na rimwe.   |
|     | ☐ Rimwe na rimwe.   |
|     | □ Akenshi.  |
|     | ☐ Bihoraho.   |
| 14. | Mu gihe uri gsobanurira ikintu umuntu, ni ryari mugomba guhuza amaso niba uwo muntu akuruta?                        |
|     | ☐ Bitari kenshi.  |
|     | □ kenshi Cyane.   |
|     | □ Nta tandukaniro.  |
| 15. | Mu gihe uri gsobanurira ikintu umuntu, ni ryari mugomba guhuza amaso niba uwo muntu ari muto kuri wowe?             |
|     | ☐ Bitari kenshi.  |
|     | □ kenshi Cyane.   |
|     | □ Nta tandukaniro.  |
| 16. | Mu gihe uri gusobanurira umuntu ikintu, ni kihe kintu ugomba kubanza kwitaha, urugero, ni hehe ugomba kwibanda?     |
|     | ☐ Ku kintu urigusobanura.   |
|     | ☐ Mwisura, mu maso cyangwa ku munwa w'umuntu uri gusobanurira.  |
|     | ☐ Cyane cyane umuntu, rimwe na rimwe nikintu  |
|     | ☐ Byose icyarimwe umuntu nikintu.   |
| 17. | Mu gihe umuntu ari ku gusobanurira ikintu , ni ryari ugomba guhuza amaso nawe?                                      |
|     | □ Nta na rimwe.   |
|     | ☐ Rimwe na rimwe.   |
|     | □ Kenshi.   |
|     | □ Bihoraho.   |
| 18. | Mu gihe umuntu ari ku gusobanurira ikintu , ni ryari ugomba guhuza amaso nawe mu gihe uwo muntu akuruta?            |
|     | ☐ Bitari kenshi.  |
|     | □ kenshi Cyane.   |
|     | □ Nta tandukaniro.  |
| 19. | Mu gihe umuntu ari ku gusobanurira ikintu , ni ryari ugomba guhuza amaso nawe mu gihe uwo muntu ari muto kuri wowe? |
|     | ☐ Bitari kenshi.  |
|     | □ kenshi Cyane.   |
|     | □ Nta tandukaniro.  |



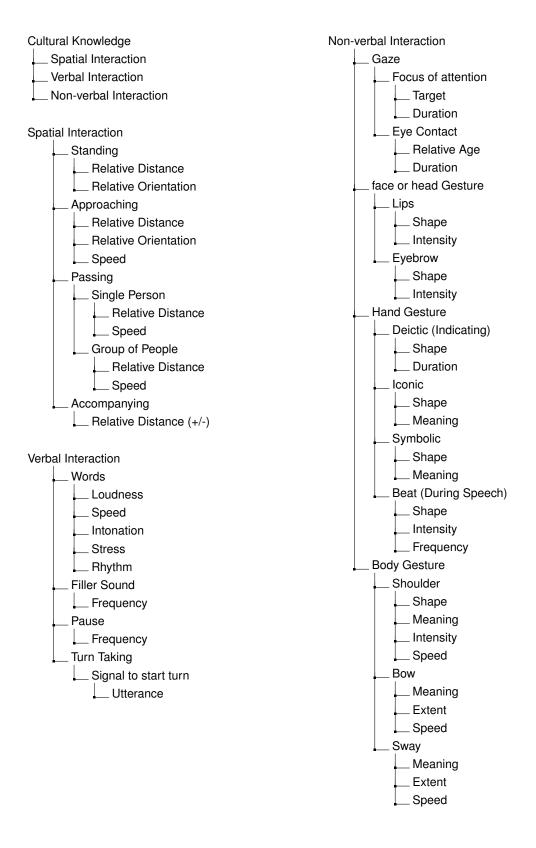
| 20. | Ushobora gukoresha amarenga mu maso werekana ko witondeye ikintu?<br>Niba ari yego, ayo marenga yaba ari ayahe?                               |
|-----|---|
|     | □ Yego:   |
|     | □ Oya.  |
| 21. | Ushobora gukoresha amarenga yo mu maso, umutwe, y'ikiganza cyangwa umubiri ugaragaza gushimira?   |
|     | □ Yego:   |
|     | - Ni ibihe bimenyetso byo mu maso cyangwa umutwe?   |
|     | <ul> <li>Ni ikihe bimenyetso by' ikiganza, ni ikihe kiganza ushobora gukoresha :ubumoso, uburyo,<br/>kimwe muri byo cyangwa byose?</li> </ul> |
|     | - Ni ibihe bimenyetso by'umubiri wakoresha?   |
|     | □ Oya.  |
|     | 22. Ushobora gukoresha amarenga yo mu maso, umutwe, y'ikiganza cyangwa umubiri ugaragaza <i>kwemeranya</i> ?                                  |
|     | <ul><li>☐ Yego:</li><li>Ni ibihe bimenyetso byo mu maso cyangwa umutwe?</li></ul>   |
|     | Ni ikihe bimenyetso by' ikiganza, ni ikihe kiganza ushobora gukoresha :ubumoso, uburyo, kimwe muri byo cyangwa byose?                         |
|     | – Ni ibihe bimenyetso by'umubiri wakoresha?   |
|     | □ Oya.  |
|     | 23. Ushobora gukoresha amarenga yo mu maso, umutwe, y'ikiganza cyangwa umubiri ugaragaza ko utanze <i>icyubahiro</i> ?  □ Yego:               |
|     | <ul><li>Ni ibihe bimenyetso byo mu maso cyangwa umutwe?</li></ul>   |
|     | <ul> <li>Ni ikihe bimenyetso by' ikiganza, ni ikihe kiganza ushobora gukoresha :ubumoso,<br/>uburyo, kimwe muri byo cyangwa byose?</li> </ul> |
|     | Ni ibihe bimenyetso by'umubiri wakoresha?   |
|     | □ Oya.  |
|     | <ul><li>24. Ushobora gukoresha amarenga yo mu maso, umutwe, y'ikiganza cyangwa umubiri ugaragaza <i>ubushuti</i>?</li><li>☐ Yego:</li></ul>   |
|     | <ul><li>Ni ibihe bimenyetso byo mu maso cyangwa umutwe?</li></ul>   |
|     | <ul> <li>Ni ikihe bimenyetso by' ikiganza, ni ikihe kiganza ushobora gukoresha :ubumoso,<br/>uburyo, kimwe muri byo cyangwa byose?</li> </ul> |
|     | Ni ibihe bimenyetso by'umubiri wakoresha?   |
|     | □ Oya.  |
|     | <ul><li>25. Ushobora gukoresha amarenga yo mu maso, umutwe, y'ikiganza cyangwa umubiri ugaragaza urujijo?</li><li>☐ Yego:</li></ul>           |
|     | Ni ibihe bimenyetso byo mu maso cyangwa umutwe?   |



|     | <ul> <li>Ni ikihe bimenyetso by' ikiganza, ni ikihe kiganza ushobora gukoresha :ubumoso,<br/>uburyo, kimwe muri byo cyangwa byose?</li> </ul>  |
|-----|--|
|     | - Ni ibihe bimenyetso by'umubiri wakoresha?  |
|     | □ Oya.   |
| 26. | Ushobora gukoresha amarenga yo mu maso, umutwe, y'ikiganza cyangwa umubiri ugaragaza ko wumvise cyangwa <i>wasobanukiwe</i> ?  ☐ Yego:  — Ni ibihe bimenyetso byo mu maso cyangwa umutwe?  — Ni ikihe bimenyetso by' ikiganza, ni ikihe kiganza ushobora gukoresha :ubumoso,   |
|     | uburyo, kimwe muri byo cyangwa byose?  |
|     | ☐ Oya.   |
| 27. | Ushobora gukoresha amarenga yo mu maso, umutwe, y'ikiganza cyangwa umubiri ugaragaza ushishikajwe?  □ Yego:  - Ni ibihe bimenyetso byo mu maso cyangwa umutwe?   |
|     | - Ni ikihe bimenyetso by' ikiganza, ni ikihe kiganza ushobora gukoresha :ubumoso, uburyo, kimwe muri byo cyangwa byose?  |
|     | – Ni ibihe bimenyetso by'umubiri wakoresha?  |
|     | □ Oya.   |
| 28. | Hari amarenga ya maso, y'ikiganza cyangwa y' umubiri udashobora <i>gukoresha</i> ?  ☐ Yego:  — Ni ibihe bimenyetso byo mu maso cyangwa umutwe?  — Ni ikihe bimenyetso by' ikiganza, ni ikihe kiganza ushobora gukoresha :ubumoso, uburyo, kimwe muri byo cyangwa byose?  — Ni ibihe bimenyetso by'umubiri wakoresha?   |
|     | □ Oya.   |
| 29. | Ushobora gukoresha amarenga y'ikiganza cyangwa ayandi y'umubiri mu gihe uri <i>kuvugana</i>  |
|     | <ul> <li>numuntu?</li> <li>□ Yego:</li> <li>- Ni ikihe bimenyetso by' ikiganza, ni ikihe kiganza ushobora gukoresha :ubumoso, uburyo, kimwe muri byo cyangwa byose?</li> <li>- Ni ibihe bimenyetso by'umubiri wakoresha?</li> </ul>  |
| 20  | numuntu?  □ Yego:  - Ni ikihe bimenyetso by' ikiganza, ni ikihe kiganza ushobora gukoresha :ubumoso, uburyo, kimwe muri byo cyangwa byose?  - Ni ibihe bimenyetso by'umubiri wakoresha?  □ Oya.  |
| 30. | numuntu?  □ Yego:  - Ni ikihe bimenyetso by' ikiganza, ni ikihe kiganza ushobora gukoresha :ubumoso, uburyo, kimwe muri byo cyangwa byose?  - Ni ibihe bimenyetso by'umubiri wakoresha?  □ Oya.  Ushobora gukoresha amarenga y'ikiganza cyangwa y'umubiri mu gihe urikumva umuntu?  □ Yego:  - Ni ikihe bimenyetso by' ikiganza, ni ikihe kiganza ushobora gukoresha :ubumoso, uburyo, kimwe muri byo cyangwa byose? |
| 30. | numuntu?  □ Yego:  - Ni ikihe bimenyetso by' ikiganza, ni ikihe kiganza ushobora gukoresha :ubumoso, uburyo, kimwe muri byo cyangwa byose?  - Ni ibihe bimenyetso by'umubiri wakoresha?  □ Oya.  Ushobora gukoresha amarenga y'ikiganza cyangwa y'umubiri mu gihe urikumva umuntu?  □ Yego:  - Ni ikihe bimenyetso by' ikiganza, ni ikihe kiganza ushobora gukoresha :ubumoso,                                       |



## Appendix III: Cultural Knowledge Ontology for Respectful Interaction





# **Principal Contributors**

The main authors of this deliverable are as follows (in alphabetical order).

Eyerusalem Birhan, Carnegie Mellon University Africa. David Vernon, Carnegie Mellon University Africa.

Date: 23/2/2024 Page 28

Version: No 1.7



### **Document History**

#### Version 1.0

First draft with survey questionnaire, for validation before conducting the survey.

David Vernon.

25 October 2023.

#### Version 1.1

Fixed minor typos.

David Vernon.

2 November 2023.

#### Version 1.2

Changed male/female to man/woman to determine the gender of the respondent.

Explained the context of the existing cultural knowledge.

Removed the question about name, to keep the survey anonymous.

Replaced question about being Rwandan by two questions on cultural heritage and nationality.

Removed the < 20 age group.

David Vernon.

20 November 2023.

#### Version 1.3

Changed the answers in Part 2 from I agree / do not agree to this is / is not correct.

David Vernon.

20 November 2023.

### **Version 1.4**

Removed several questions from Part 3 to align them with the CSSR4All questionnaire.

David Vernon.

1 December 2023.

### Version 1.5

Remove two questions from Part One. Group face, hand, and body gesture-related behaviors and minimize the number of questions from 48 to 30 for Part Three.

Eyerusalem Birhan.

19 January 2024.

### **Version 1.6** Added revision date to cover page.

Part 1, Q2: changed "Woman" and "Man" to "Female" and "Male".

Part 3, Q2: added "Nod head" option.

Part 3, Q3: added "Pass beside" option.

Part 3, Q7 - Q9: added "Muraho" and "Mwaramutse or Mwiriwe" options.

Part 3, Q21 - Q27: added "head" to question.

Part 3, Q28: added "hand" and "body" to question.

Part 3, Q29 & Q30: changed "would you not use" to "would you use" (to be consistent with other questions).

Removed References.

Added an appendix for a Kinyarwanda version of the questionnaire.

David Vernon.

2 February 2024.



**Version 1.7** Added content to appendix for the Kinyarwanda version of the questionnaire. Eyerusalem Birhan.

23 February 2024.