Supplementary data 1. Phase 2 quantitative data analysis.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Question** |  | **Participant Rating** |  |  | **Distributions of Responses** |  | **Face Validity** | **Construct Validity** | **Content Validity** | **Reliability coefficicent** | **Dimension Reduction** | **Principal Components Analysis** |
| **Mean** | **(SE)** | **Median** | **Mode** | **(SD)** | **Skewness** | **(SE)** | **Kurtosis** | **(SE)** | **50th pth** | **75th pth** | **Κappa** | **(SE)** | ***p* -value** | **Pearsons χ2** | **(df)** | ***p* -value** | **CVR** | **Cronbachs****Alpha (α)** | **Corrected item - total correlation** | **α if item****deleted** | **KMO** | **BTS** | **(df)** | ***p* -value** | **PCA****Eigenvalues** | **Variance****% (SS)** | **Cumulative****%** |
| **1** | 3.25 | 0.23 | 3.00 | 4.00 | 1.11 | -0.13 | 0.47 | -0.83 | 0.92 | 3.00 | 4.00 | 0.09 | 0.06 | 0.02 | 96.00 | 92.00 | 0.37 | 1.00 |  | 0.34 | -0.45 |  |  |  |  | 2.87 | 47.76 | 47.76 |
| **2** | 3.83 | 0.22 | 4.00 | 4.00 | 1.09 | -0.52 | 0.47 | -0.96 | 0.92 | 4.00 | 5.00 | 0.00 | 0.04 | 1.00 | 72.00 | 69.00 | 0.38 | 0.83 |  | 0.15 | -0.16 |  |  |  |  | 1.13 | 18.90 | 66.66 |
| **3** | 4.17 | 0.18 | 4.00 | 5.00 | 0.87 | -0.78 | 0.47 | -0.03 | 0.92 | 4.00 | 5.00 | 0.04 | 0.05 | 0.22 | 72.00 | 69.00 | 0.38 | 0.92 | 0.03 | 0.03 | 0.00 | 0.67 | 41.56 | 15.00 | 0.00 | 0.72 | 12.02 | 78.68 |
| **4** | 2.71 | 0.19 | 3.00 | 3.00 | 0.91 | -0.12 | 0.47 | -0.69 | 0.92 | 3.00 | 3.00 | 0.04 | 0.04 | 0.23 | 72.00 | 69.00 | 0.38 | 1.00 |  | 0.23 | -0.21 |  |  |  |  | 0.72 | 11.95 | 90.63 |
| **5** | 4.25 | 0.15 | 4.00 | 4.00 | 0.74 | -1.15 | 0.47 | 2.49 | 0.92 | 4.00 | 5.00 | 0.09 | 0.05 | 0.01 | 72.00 | 69.00 | 0.38 | 1.00 |  | -0.18 | 0.16 |  |  |  |  | 0.34 | 5.63 | 96.26 |
| **6** | 3.83 | 0.25 | 4.00 | 4.00 | 1.24 | -1.15 | 0.47 | 0.57 | 0.92 | 4.00 | 5.00 | 0.00 | 0.02 | 0.23 | 96.00 | 92.00 | 0.37 | 0.75 |  | -0.34 | 0.42 |  |  |  |  | 0.22 | 3.74 | 100.00 |
| **7** | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* |
| **8** | 2.88 | 0.26 | 3.00 | 3.00 | 1.26 | 0.40 | 0.47 | -0.63 | 0.92 | 3.00 | 3.75 | 0.09 | 0.06 | 0.02 | 96.00 | 92.00 | 0.37 | 0.50 |  | 0.49 | 0.19 |  |  |  |  | 2.51 | 25.13 | 25.13 |
| **9** | 2.92 | 0.22 | 3.00 | 3.00 | 1.06 | 0.18 | 0.47 | -0.10 | 0.92 | 3.00 | 3.75 | 0.04 | 0.05 | 0.24 | 96.00 | 92.00 | 0.37 | 0.50 |  | -0.28 | 0.49 |  |  |  |  | 2.13 | 21.33 | 46.46 |
| **10** | 2.00 | 0.17 | 2.00 | 1.00 | 0.83 | 0.00 | 0.47 | -1.57 | 0.92 | 2.00 | 3.00 | 0.00 | 0.03 | 0.22 | 48.00 | 46.00 | 0.39 | 0.58 |  | 0.38 | 0.29 |  |  |  |  | 1.44 | 14.35 | 60.80 |
| **11** | 3.25 | 0.25 | 3.00 | 3.00 | 1.22 | -0.37 | 0.47 | -0.39 | 0.92 | 3.00 | 4.00 | 0.00 | 0.02 | 0.25 | 96.00 | 92.00 | 0.37 | 0.33 |  | 0.01 | 0.41 |  |  |  |  | 1.09 | 10.87 | 71.68 |
| **12** | 2.96 | 0.25 | 3.00 | 3.00 | 1.23 | -0.22 | 0.47 | -0.86 | 0.92 | 3.00 | 4.00 | 0.00 | 0.05 | 1.00 | 96.00 | 92.00 | 0.37 | 0.42 | 0.38 | 0.26 | 0.30 | 0.51 | 62.28 | 45.00 | 0.05 | 0.95 | 9.50 | 81.18 |
| **13** | 3.92 | 0.28 | 4.50 | 5.00 | 1.35 | -1.00 | 0.47 | -0.17 | 0.92 | 4.50 | 5.00 | 0.00 | 0.03 | 1.00 | 96.00 | 92.00 | 0.37 | 0.50 |  | 0.02 | 0.40 |  |  |  |  | 0.64 | 6.44 | 87.62 |
| **14** | 3.58 | 0.27 | 4.00 | 5.00 | 1.32 | -0.51 | 0.47 | -0.78 | 0.92 | 4.00 | 5.00 | 0.00 | 0.03 | 1.00 | 96.00 | 92.00 | 0.37 | 0.33 |  | 0.63 | 0.10 |  |  |  |  | 0.48 | 4.83 | 92.45 |
| **15** | 4.00 | 0.19 | 4.00 | 4.00 | 0.93 | -0.70 | 0.47 | -0.15 | 0.92 | 4.00 | 5.00 | 0.00 | 0.04 | 1.00 | 72.00 | 69.00 | 0.38 | 0.50 |  | 0.30 | 0.30 |  |  |  |  | 0.33 | 3.28 | 95.72 |
| **16** | 3.42 | 0.26 | 3.00 | 3.00 | 1.28 | -0.20 | 0.47 | -0.83 | 0.92 | 3.00 | 5.00 | 0.00 | 0.02 | 0.24 | 96.00 | 92.00 | 0.37 | 0.58 |  | 0.27 | 0.30 |  |  |  |  | 0.24 | 2.36 | 98.08 |
| **17** | 2.25 | 0.26 | 2.00 | 1.00 | 1.29 | 0.80 | 0.47 | -0.28 | 0.92 | 2.00 | 3.00 | 0.00 | 0.02 | 0.25 | 96.00 | 92.00 | 0.37 | 0.42 |  | -0.34 | 0.54 |  |  |  |  | 0.19 | 1.92 | 100.00 |
| **18** | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* |
| **19** | 3.63 | 0.23 | 4.00 | 4.00 | 1.13 | -0.53 | 0.47 | -0.34 | 0.92 | 4.00 | 4.75 | 0.04 | 0.04 | 0.25 | 96.00 | 92.00 | 0.37 | 1.00 |  | -0.40 | 0.38 |  |  |  |  | 2.11 | 42.14 | 42.14 |
| **20** | 2.88 | 0.23 | 3.00 | 2.00 | 1.12 | 0.27 | 0.47 | -0.58 | 0.92 | 3.00 | 4.00 | 0.09 | 0.06 | 0.02 | 96.00 | 92.00 | 0.37 | 0.83 |  | -0.01 | 0.08 |  |  |  |  | 1.24 | 24.76 | 66.90 |
| **21** | 3.58 | 0.23 | 4.00 | 3.00 | 1.14 | -0.42 | 0.47 | -0.46 | 0.92 | 4.00 | 4.75 | 0.00 | 0.04 | 1.00 | 96.00 | 92.00 | 0.37 | 0.92 | 0.40 | 1.00 | 0.22 | 0.55 | 25.82 | 10.00 | 0.00 | 0.99 | 19.70 | 86.60 |
| **22** | 4.08 | 0.19 | 4.00 | 4.00 | 0.93 | -0.89 | 0.47 | 0.22 | 0.92 | 4.00 | 5.00 | 0.04 | 0.04 | 0.22 | 72.00 | 69.00 | 0.38 | 1.00 |  | -0.30 | 0.51 |  |  |  |  | 0.38 | 7.55 | 94.15 |
| **23** | 3.08 | 0.24 | 3.00 | 2.00 | 1.18 | 0.35 | 0.47 | -0.88 | 0.92 | 3.00 | 4.00 | 0.00 | 0.03 | 1.00 | 96.00 | 92.00 | 0.37 | 0.75 |  | 0.22 | 1.00 |  |  |  |  | 0.29 | 5.85 | 100.00 |
| **24** | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* |
| **25** | 3.54 | 0.23 | 4.00 | 4.00 | 1.14 | -0.11 | 0.47 | -1.38 | 0.92 | 4.00 | 4.75 | 0.00 | 0.04 | 1.00 | 72.00 | 69.00 | 0.38 | 1.00 |  | -0.13 | 0.81 |  |  |  |  | 2.56 | 51.25 | 51.25 |
| **26** | 2.58 | 0.23 | 2.00 | 2.00 | 0.97 | 0.67 | 0.47 | 0.34 | 0.92 | 2.00 | 3.00 | 0.00 | 0.03 | 1.00 | 96.00 | 92.00 | 0.37 | 0.83 |  | 0.57 | 0.50 |  |  |  |  | 1.14 | 22.84 | 74.08 |
| **27** | 3.42 | 0.24 | 3.50 | 4.00 | 1.18 | -0.22 | 0.47 | -0.88 | 0.92 | 3.50 | 4.00 | 0.00 | 0.04 | 1.00 | 96.00 | 92.00 | 0.37 | 0.92 | 0.64 | 0.59 | 0.47 | 0.58 | 41.14 | 10.00 | 0.00 | 0.80 | 15.91 | 90.00 |
| **28** | 3.67 | 0.25 | 4.00 | 5.00 | 1.24 | -0.49 | 0.47 | -0.86 | 0.92 | 4.00 | 5.00 | 0.00 | 0.02 | 0.25 | 96.00 | 92.00 | 0.37 | 1.00 |  | 0.70 | 0.39 |  |  |  |  | 0.32 | 6.39 | 96.39 |
| **29** | 3.08 | 0.20 | 3.00 | 3.00 | 0.97 | -0.18 | 0.47 | -0.54 | 0.92 | 3.00 | 4.00 | 0.00 | 0.03 | 1.00 | 96.00 | 92.00 | 0.37 | 0.75 |  | 0.39 | 0.59 |  |  |  |  | 0.18 | 3.62 | 100.00 |
| **30** | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* |
| **31** | 3.83 | 0.20 | 4.00 | 4.00 | 1.01 | -0.47 | 0.47 | -0.73 | 0.92 | 4.00 | 5.00 | 0.00 | 0.02 | 0.24 | 72.00 | 69.00 | 0.38 | 1.00 |  | 0.29 | 0.00 |  |  |  |  | 1.85 | 37.07 | 37.07 |
| **32** | 4.13 | 0.21 | 4.00 | 5.00 | 1.03 | -1.30 | 0.47 | 1.97 | 0.92 | 4.00 | 5.00 | 0.00 | 0.03 | 0.22 | 72.00 | 69.00 | 0.38 | 0.92 |  | 0.19 | -0.21 |  |  |  |  | 1.27 | 25.44 | 62.51 |
| **33** | 4.17 | 0.20 | 4.00 | 5.00 | 1.01 | -1.48 | 0.47 | 2.78 | 0.92 | 4.00 | 5.00 | 0.09 | 0.05 | 0.01 | 72.00 | 69.00 | 0.38 | 0.92 | 0.53 | 1.00 | 0.29 | 0.49 | 16.00 | 10.00 | 0.10 | 0.96 | 19.13 | 81.64 |
| **34** | 3.67 | 0.25 | 4.00 | 5.00 | 1.20 | -0.27 | 0.47 | -1.49 | 0.92 | 4.00 | 5.00 | 0.00 | 0.04 | 1.00 | 72.00 | 69.00 | 0.38 | 1.00 |  | 0.37 | 0.18 |  |  |  |  | 0.55 | 10.91 | 92.55 |
| **35** | 3.00 | 0.24 | 3.00 | 3.00 | 1.18 | -0.17 | 0.47 | -0.75 | 0.92 | 3.00 | 4.00 | 0.00 | 0.04 | 1.00 | 96.00 | 92.00 | 0.37 | 0.75 |  | 0.29 | 1.00 |  |  |  |  | 0.37 | 7.45 | 100.00 |
| **36** | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* |
| **37** | 3.58 | 0.17 | 4.00 | 4.00 | 0.83 | -0.04 | 0.47 | -0.34 | 0.92 | 4.00 | 4.00 | 0.00 | 0.03 | 1.00 | 72.00 | 69.00 | 0.38 | 1.00 |  | 0.57 | 0.30 |  |  |  |  | 2.06 | 51.54 | 51.54 |
| **38** | 4.13 | 0.17 | 4.00 | 4.00 | 0.85 | -0.72 | 0.47 | 0.03 | 0.92 | 4.00 | 5.00 | 0.00 | 0.03 | 1.00 | 72.00 | 69.00 | 0.38 | 0.92 | 0.66 | 1.00 | 0.10 | 0.62 | 17.45 | 6.00 | 0.01 | 1.01 | 25.22 | 76.76 |
| **39** | 3.75 | 0.20 | 4.00 | 4.00 | 0.99 | -0.33 | 0.47 | -0.80 | 0.92 | 4.00 | 4.75 | 0.04 | 0.04 | 0.24 | 72.00 | 69.00 | 0.38 | 1.00 |  | 0.25 | 0.41 |  |  |  |  | 0.55 | 13.84 | 90.60 |
| **40** | 3.58 | 0.25 | 4.00 | 4.00 | 1.21 | -0.69 | 0.47 | -0.13 | 0.92 | 4.00 | 4.75 | 0.00 | 0.03 | 1.00 | 96.00 | 92.00 | 0.37 | 1.00 |  | 0.10 | 1.00 |  |  |  |  | 0.38 | 9.40 | 100.00 |
| **41** | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* |
| **42** | 3.75 | 0.25 | 4.00 | 4.00 | 1.22 | -0.72 | 0.47 | -0.54 | 0.92 | 4.00 | 5.00 | 0.00 | 0.03 | 1.00 | 96.00 | 92.00 | 0.37 | 1.00 |  | 0.44 | 0.46 |  |  |  |  | 2.55 | 36.42 | 36.42 |
| **43** | 3.83 | 0.23 | 4.00 | 5.00 | 1.13 | -0.44 | 0.47 | -1.20 | 0.92 | 4.00 | 5.00 | 0.04 | 0.04 | 0.24 | 72.00 | 69.00 | 0.38 | 0.75 |  | 0.56 | 0.41 |  |  |  |  | 1.51 | 21.62 | 58.04 |
| **44** | 3.25 | 0.22 | 3.00 | 4.00 | 1.07 | -0.55 | 0.47 | -0.02 | 0.92 | 3.00 | 4.00 | 0.04 | 0.05 | 0.24 | 96.00 | 92.00 | 0.37 | 0.75 |  | 0.17 | 0.56 |  |  |  |  | 1.11 | 15.79 | 73.83 |
| **45** | 2.67 | 0.29 | 2.00 | 2.00 | 1.40 | 0.35 | 0.47 | -1.22 | 0.92 | 2.00 | 4.00 | 0.04 | 0.05 | 0.26 | 96.00 | 92.00 | 0.37 | 0.58 | 0.56 | 0.50 | 0.42 | 0.55 | 44.10 | 21.00 | 0.00 | 0.75 | 10.73 | 84.55 |
| **46** | 3.50 | 0.23 | 4.00 | 4.00 | 1.10 | -0.74 | 0.47 | 0.55 | 0.92 | 4.00 | 4.00 | 0.00 | 0.03 | 1.00 | 96.00 | 92.00 | 0.37 | 1.00 |  | -0.25 | 0.69 |  |  |  |  | 0.58 | 8.33 | 92.88 |
| **47** | 2.71 | 0.27 | 3.00 | 3.00 | 1.30 | 0.34 | 0.47 | -0.77 | 0.92 | 3.00 | 3.75 | 0.04 | 0.05 | 0.26 | 96.00 | 92.00 | 0.37 | 0.92 |  | 0.50 | 0.42 |  |  |  |  | 0.31 | 4.47 | 97.35 |
| **48** | 1.75 | 0.17 | 2.00 | 1.00 | 0.85 | 1.00 | 0.47 | 0.57 | 0.92 | 2.00 | 2.00 | 0.00 | 0.03 | 0.21 | 72.00 | 69.00 | 0.38 | 0.75 |  | 0.14 | 0.57 |  |  |  |  | 0.19 | 2.65 | 100.00 |
| **49** | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* |
| **50** | 4.58 | 0.12 | 5.00 | 5.00 | 0.58 | -1.07 | 0.47 | 0.30 | 0.92 | 5.00 | 5.00 | 0.04 | 0.03 | 0.16 | 48.00 | 46.00 | 0.40 | 1.00 |  | 0.40 | 0.52 |  |  |  |  | 2.66 | 37.93 | 37.93 |
| **51** | 4.21 | 0.18 | 4.00 | 5.00 | 0.88 | -0.86 | 0.47 | -0.04 | 0.92 | 4.00 | 5.00 | 0.00 | 0.04 | 1.00 | 72.00 | 69.00 | 0.38 | 0.75 |  | 0.20 | 0.56 |  |  |  |  | 1.56 | 22.31 | 60.24 |
| **52** | 2.67 | 0.23 | 2.50 | 2.00 | 1.13 | 0.53 | 0.47 | -0.18 | 0.92 | 2.50 | 3.00 | 0.04 | 0.05 | 0.24 | 96.00 | 92.00 | 0.37 | 0.75 |  | -0.01 | 0.66 |  |  |  |  | 0.85 | 12.14 | 72.38 |
| **53** | 1.92 | 0.18 | 2.00 | 1.00 | 0.88 | 0.59 | 0.47 | -0.42 | 0.92 | 2.00 | 2.75 | 0.00 | 0.03 | 1.00 | 72.00 | 69.00 | 0.38 | 0.50 | 0.57 | 0.02 | 0.62 | 0.51 | 45.84 | 21.00 | 0.00 | 0.79 | 11.22 | 83.60 |
| **54** | 3.46 | 0.23 | 3.00 | 3.00 | 1.10 | -0.20 | 0.47 | -0.41 | 0.92 | 3.00 | 4.00 | 0.00 | 0.04 | 1.00 | 96.00 | 92.00 | 0.37 | 0.50 |  | 0.54 | 0.42 |  |  |  |  | 0.67 | 9.57 | 93.18 |
| **55** | 3.92 | 0.22 | 4.00 | 5.00 | 1.06 | -0.30 | 0.47 | -1.36 | 0.92 | 4.00 | 5.00 | 0.00 | 0.04 | 1.00 | 72.00 | 69.00 | 0.38 | 0.92 |  | 0.57 | 0.40 |  |  |  |  | 0.30 | 4.27 | 97.45 |
| **56** | 3.83 | 0.17 | 4.00 | 4.00 | 0.82 | -0.19 | 0.47 | -0.39 | 0.92 | 4.00 | 4.00 | 0.00 | 0.03 | 0.22 | 72.00 | 69.00 | 0.38 | 0.75 |  | 0.52 | 0.46 |  |  |  |  | 0.18 | 2.55 | 100.00 |
| **57** | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* | *n/a* |