# Triage Against the Machine: Can AI Reason Deliberatively?

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#### Define functions

```
Maybe move this to it's own package...
create_file_path <- function(provider, model, survey, file_type) {
  file.path("llm_data", provider, model, paste0(survey, "_", file_type, ".csv"))
}</pre>
```

#### Get available LLMs

<chr> <chr>

<1g1>

```
# Read the CSV file into a data frame and remove duplicates
models <- read_csv("private/llms_v2.csv", show_col_types = FALSE) %>%
  distinct(provider, model)
# Initialize a vector to store the 'has_data' values
has_data_flags <- logical(nrow(models))</pre>
# Iterate over each row in the models data frame
for (i in 1:nrow(models)) {
  provider <- models$provider[i]</pre>
  model <- models$model[i]</pre>
  # Create the path
  path <- paste0("llm data/", provider, "/", model)</pre>
  # Check if the path exists and set the 'has_data' flag accordingly
  has_data_flags[i] <- file.exists(path)</pre>
# Add the 'has_data' column to the models data frame
models <- models %>%
  mutate(has_data = has_data_flags)
# Print rows where has_data is TRUE
if (any(models$has_data)) {
  print(models %>% filter(has_data == TRUE))
} else {
  warn("No data available!")
## # A tibble: 3 x 3
   provider model
                        has_data
##
```

```
## 1 google gemma2 TRUE
## 2 meta llama3.2 TRUE
## 3 microsoft phi4 TRUE
```

# Get available surveys

```
# Read the sheet names of the Excel file
survey_names <- excel_sheets("data/surveys_v2.xlsx")</pre>
print(survey_names)
## [1] "0.Template"
                                                    "2.FNQCJ"
                              "1.Uppsala Speaks"
## [4] "3.ACP"
                              "4.SydCC"
                                                    "5.ForestERA"
## [7] "6.Biobanking"
                              "7.Fremantle_Bridge" "8.CCPS"
## [10] "9.Energy_Futures"
                              "10.Valsamoggia"
                                                    "11.GBR_Futures"
## [13] "12.AusCJ"
# Define the file types
file_types <- c("considerations", "policies", "reasons")</pre>
```

#### Read and format LLM data

```
# initialize an empty list to store the data frames
data_list <- list()</pre>
index <- 0
# iterate over each survey
for (survey_name in survey_names) {
  # iterate over each row in the models data frame where has_data is TRUE
  for (i in 1:nrow(models)) {
    if (models$has_data[i]) {
      provider <- models$provider[i]</pre>
      model <- models$model[i]</pre>
      # check if any file for the survey exists
      survey_path <- paste0("llm_data/", provider, "/", model, "/", survey_name)</pre>
      if (!any(file.exists(paste0(
        survey_path, "_", file_types, ".csv"
      )))) {
        next
      # Iterate over each file type
      for (file_type in file_types) {
        # Create the file path
        file_path <- create_file_path(provider, model, survey_name, file_type)</pre>
        index <- index + 1</pre>
        # Check if the file exists
        if (file.exists(file_path)) {
          # Read the CSV file
          temp_data <- read_csv(file_path, show_col_types = FALSE)</pre>
```

```
# Skip file if file exists but has no data
if (nrow(temp_data) == 0) {
  warn(pasteO(file_path, " exists but has no data!"))
 break
}
meta <- c(</pre>
 "cuid",
  "created at",
  "provider",
  "model",
  "input_tokens",
  "output_tokens"
)
# Select the relevant columns based on file type
if (file_type == "considerations") {
  survey_data <- temp_data %>%
    rename_with( ~ paste0("C", seq_along(.)),
                 starts_with("C", ignore.case = FALSE))
  # add column "survey" to meta data
  survey_data <- survey_data %>%
    mutate(survey = survey_name) %>%
    relocate(survey, .after = model)
 meta <- c(meta, "survey")</pre>
  # Ensure survey_data has columns up to C50
  for (j in (ncol(survey_data) - length(meta) + 1):50) {
    survey_data[[paste0("C", j)]] <- as.numeric(NA)</pre>
  # go to next file type
  next
} else if (file_type == "policies") {
  temp_data <- temp_data %>%
    select(cuid, starts_with("P", ignore.case = FALSE)) %>%
    rename_with( ~ paste0("P", seq_along(.)),
                 starts_with("P", ignore.case = FALSE))
  # Ensure temp_data has columns up to C50
  for (j in (ncol(temp_data)):10) {
    temp_data[[paste0("P", j)]] <- as.numeric(NA)</pre>
} else if (file_type == "reasons") {
  temp_data <- temp_data %>%
    select(cuid, reason) %>%
    rename(R = reason)
}
# merge the data frames by 'cuid' and keep all rows
```

```
survey_data <- full_join(survey_data, temp_data, by = c("cuid"))</pre>
       }
     }
      # Add the survey_data data frame to the list
      if (exists("survey_data")) {
       data list[[length(data list) + 1]] <- survey data</pre>
        # Remove the survey_data data frame to free up memory
       rm(survey_data)
     }
   }
 }
}
## Warning: llm_data/meta/llama3.2/12.AusCJ_considerations.csv exists but has no
# Combine all data frames in the list into a single data frame
llm_data <- bind_rows(data_list)</pre>
# delete data_list from memory
rm(data_list)
rm(temp data)
# Aggregate llm_data by provider, model, and survey and N the number of rows
llm_data_summary <- llm_data %>%
  group_by(provider, model, survey) %>%
  summarise(N = n(), .groups = 'drop')
# Print the summary
print(llm_data_summary)
## # A tibble: 30 x 4
##
     provider model survey
                                             N
##
      <chr> <chr> <chr>
                                         <int>
## 1 google gemma2 1.Uppsala Speaks
                                            10
## 2 google gemma2 10.Valsamoggia
                                            10
## 3 google gemma2 11.GBR_Futures
                                            10
## 4 google gemma2 12.AusCJ
                                            10
## 5 google gemma2 2.FNQCJ
                                            10
## 6 google
              gemma2 3.ACP
                                            10
              gemma2 4.SydCC
                                            10
## 7 google
## 8 google
              gemma2 5.ForestERA
                                             8
## 9 google
              gemma2 6.Biobanking
                                             9
## 10 google
               gemma2 7.Fremantle_Bridge
                                            10
## # i 20 more rows
```

## Calculate Cronbach's Alpha

```
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
```

```
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## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
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## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined for the null model either.
## The Chi square is thus based upon observed correlations.
## Warning in alpha(considerations data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
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## Warning in alpha(considerations data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Number of categories should be increased in order to count frequencies.
```

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## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
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## Warning in alpha(policies_data, check.keys = TRUE): Item = P6 had no variance
## and was deleted but still is counted in the score
```

```
## Warning in alpha(policies_data, check.keys = TRUE): Item = P7 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in log(det(m.inv.r)): NaNs produced
## Warning in log(det(r)): NaNs produced
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
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## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
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## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
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## Warning in alpha(policies_data, check.keys = TRUE): Item = P6 had no variance
## and was deleted but still is counted in the score
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## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
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## Warning in alpha(considerations data, check.keys = TRUE): Item = C7 had no
```

```
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C20 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C26 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C34 had no
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## Warning in alpha(considerations_data, check.keys = TRUE): Item = C35 had no
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## Warning in alpha(considerations_data, check.keys = TRUE): Item = C39 had no
## variance and was deleted but still is counted in the score
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## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C41 had no
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## Warning in alpha(considerations_data, check.keys = TRUE): Item = C42 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
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## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
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## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
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## variance and was deleted but still is counted in the score

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## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
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## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
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## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
```

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## Number of categories should be increased in order to count frequencies.

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## In smc, smcs < 0 were set to .0
## Warning in alpha(policies data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## In factor.stats, I could not find the RMSEA upper bound . Sorry about that
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C14 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C39 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C40 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C41 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C42 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
```

```
## Number of categories should be increased in order to count frequencies.
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
```

```
## In factor.stats, I could not find the RMSEA upper bound . Sorry about that
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C37 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C38 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C39 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C40 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C41 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C42 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Number of categories should be increased in order to count frequencies.
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies_data, check.keys = TRUE): Item = P7 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## In factor.stats, I could not find the RMSEA upper bound . Sorry about that
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C34 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C35 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C36 had no
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## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C37 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C38 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C39 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C40 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C41 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C42 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## In factor.stats, I could not find the RMSEA upper bound . Sorry about that
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Number of categories should be increased in order to count frequencies.
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined.
## Chi square is based upon observed residuals.
```

```
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined for the null model either.
## The Chi square is thus based upon observed correlations.
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
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## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C37 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C38 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C39 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C40 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C41 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C42 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Number of categories should be increased in order to count frequencies.
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies_data, check.keys = TRUE): Item = P5 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P6 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P7 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## In factor.stats, I could not find the RMSEA upper bound . Sorry about that
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(considerations data, check.keys = TRUE): Item = C31 had no
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## Warning in alpha(considerations_data, check.keys = TRUE): Item = C35 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C36 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C37 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C38 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C39 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C40 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C41 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C42 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## variance and was deleted but still is counted in the score

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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined.
## Chi square is based upon observed residuals.
## The determinant of the smoothed correlation was zero.
```

```
## This means the objective function is not defined for the null model either.
## The Chi square is thus based upon observed correlations.
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
```

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## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Matrix was not positive
## definite, smoothing was done
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined for the null model either.
## The Chi square is thus based upon observed correlations.
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in log(det(m.inv.r)): NaNs produced
## Warning in log(det(r)): NaNs produced
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations data, check.keys = TRUE): Item = C47 had no
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## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Number of categories should be increased in order to count frequencies.
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined.
## Chi square is based upon observed residuals.
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined for the null model either.
## The Chi square is thus based upon observed correlations.
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
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## Warning in alpha(policies_data, check.keys = TRUE): Item = P6 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P7 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## In factor.stats, I could not find the RMSEA upper bound . Sorry about that
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Number of categories should be increased in order to count frequencies.
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined.
## Chi square is based upon observed residuals.
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined for the null model either.
## The Chi square is thus based upon observed correlations.
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies_data, check.keys = TRUE): Item = P6 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P7 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
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## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## In factor.stats, I could not find the RMSEA upper bound . Sorry about that
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C5 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C39 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C40 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C41 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C42 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## In factor.stats, I could not find the RMSEA upper bound . Sorry about that
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
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## Warning in alpha(considerations\_data, check.keys = TRUE): Item = C48 had no

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## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Number of categories should be increased in order to count frequencies.
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined.
## Chi square is based upon observed residuals.
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined for the null model either.
## The Chi square is thus based upon observed correlations.
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## In factor.stats, I could not find the RMSEA upper bound . Sorry about that
## Warning in alpha(policies data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C39 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C40 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C41 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C42 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
```

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## variance and was deleted but still is counted in the score
## Number of categories should be increased in order to count frequencies.
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
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## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## In factor.stats, I could not find the RMSEA upper bound . Sorry about that
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C37 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C38 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C39 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C40 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C41 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C42 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Number of categories should be increased in order to count frequencies.
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies_data, check.keys = TRUE): Item = P7 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## In factor.stats, I could not find the RMSEA upper bound . Sorry about that
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C34 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations data, check.keys = TRUE): Item = C35 had no
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## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C36 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C37 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C38 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C39 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C40 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C41 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C42 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Number of categories should be increased in order to count frequencies.
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
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## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Number of categories should be increased in order to count frequencies.
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined.
## Chi square is based upon observed residuals.
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined for the null model either.
## The Chi square is thus based upon observed correlations.
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
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## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C37 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C38 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C39 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations data, check.keys = TRUE): Item = C40 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C41 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C42 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
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## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Number of categories should be increased in order to count frequencies.
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
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## In smc, smcs < 0 were set to .0

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## Warning in alpha(policies_data, check.keys = TRUE): Item = P5 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P6 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P7 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in log(det(m.inv.r)): NaNs produced
## Warning in log(det(r)): NaNs produced
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C36 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C37 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C38 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C39 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C40 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C41 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C42 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
```

```
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
```

```
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined for the null model either.
## The Chi square is thus based upon observed correlations.
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in log(det(m.inv.r)): NaNs produced
## Warning in log(det(r)): NaNs produced
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
```

```
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Number of categories should be increased in order to count frequencies.
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined for the null model either.
## The Chi square is thus based upon observed correlations.
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0</pre>

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## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies_data, check.keys = TRUE): Item = P6 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P7 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## In factor.stats, I could not find the RMSEA upper bound . Sorry about that
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Number of categories should be increased in order to count frequencies.
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined.
## Chi square is based upon observed residuals.
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined for the null model either.
## The Chi square is thus based upon observed correlations.
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies data, check.keys = TRUE): Item = P2 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P6 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P7 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
```

```
## In factor.stats, I could not find the RMSEA upper bound . Sorry about that
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C13 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C21 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C34 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C39 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C40 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C41 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C42 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## In factor.stats, I could not find the RMSEA upper bound . Sorry about that
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
```

```
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined.
## Chi square is based upon observed residuals.
## The determinant of the smoothed correlation was zero.
## This means the objective function is not defined for the null model either.
## The Chi square is thus based upon observed correlations.
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0</pre>

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## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## In factor.stats, I could not find the RMSEA upper bound . Sorry about that
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C39 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C40 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C41 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C42 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Number of categories should be increased in order to count frequencies.
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
```

```
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## In factor.stats, I could not find the RMSEA upper bound . Sorry about that
```

```
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C8 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C37 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C38 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C39 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C40 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C41 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C42 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C43 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations data, check.keys = TRUE): Item = C44 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C45 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C46 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C47 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C48 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C49 had no
## variance and was deleted but still is counted in the score
## Warning in alpha(considerations_data, check.keys = TRUE): Item = C50 had no
## variance and was deleted but still is counted in the score
## Number of categories should be increased in order to count frequencies.
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## Warning in alpha(considerations_data, check.keys = TRUE): Some items were negatively correlated with
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
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```

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## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## Warning in alpha(policies_data, check.keys = TRUE): Item = P7 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P8 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P9 had no variance
## and was deleted but still is counted in the score
## Warning in alpha(policies_data, check.keys = TRUE): Item = P10 had no variance
## and was deleted but still is counted in the score
## Warning in cor.smooth(r): Matrix was not positive definite, smoothing was done
## Warning in alpha(policies_data, check.keys = TRUE): Some items were negatively correlated with the f
## This is indicated by a negative sign for the variable name.
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
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## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## In smc, smcs < 0 were set to .0
## # A tibble: 30 x 5
     provider_model survey
                                            N alpha considerations alpha policies
```

```
##
      <chr>
                     <chr>
                                        <int>
                                                             <dbl>
                                                                            <dbl>
## 1 google/gemma2 1.Uppsala Speaks
                                                             0.882
                                                                            0.671
                                           10
## 2 google/gemma2 2.FNQCJ
                                                                            0.407
                                           10
                                                             0.913
## 3 google/gemma2 3.ACP
                                           10
                                                             0.859
                                                                            0.668
## 4 google/gemma2 4.SydCC
                                           10
                                                             0.880
                                                                            0.672
## 5 google/gemma2 5.ForestERA
                                            8
                                                                            0.782
                                                             0.883
## 6 google/gemma2 6.Biobanking
                                                                            0.724
                                            9
                                                             0.873
## 7 google/gemma2 7.Fremantle_Bridge
                                                                            0.742
                                           10
                                                             0.831
## 8 google/gemma2 8.CCPS
                                            9
                                                             0.818
                                                                            0.727
                    9.Energy_Futures
                                           10
## 9 google/gemma2
                                                             0.850
                                                                            0.686
## 10 google/gemma2
                    10.Valsamoggia
                                           10
                                                             0.830
                                                                            0.750
## # i 20 more rows
```

## Check alpha results per model

```
# Aggregate alpha_results by model and calculate summary statistics
alpha_summary <- alpha_results %>%
  group_by(provider_model) %>%
  summarise(
   min_alpha_considerations = min(alpha_considerations, na.rm = TRUE),
   max_alpha_considerations = max(alpha_considerations, na.rm = TRUE),
   mean_alpha_considerations = mean(alpha_considerations, na.rm = TRUE),
    std alpha considerations = sd(alpha considerations, na.rm = TRUE),
   min_alpha_policies = min(alpha_policies, na.rm = TRUE),
   max_alpha_policies = max(alpha_policies, na.rm = TRUE),
   mean_alpha_policies = mean(alpha_policies, na.rm = TRUE),
    std_alpha_policies = sd(alpha_policies, na.rm = TRUE)
  )
# Print the summary
print(alpha_summary)
## # A tibble: 3 x 9
     provider_model min_alpha_considerations max_alpha_considerations
```

```
##
     <chr>>
                                        <dbl>
                                                                  <db1>
## 1 google/gemma2
                                        0.818
                                                                  0.913
## 2 meta/llama3.2
                                        0.836
                                                                  0.930
## 3 microsoft/phi4
                                        0.844
                                                                  0.935
## # i 6 more variables: mean_alpha_considerations <dbl>,
       std_alpha_considerations <dbl>, min_alpha_policies <dbl>,
       max alpha policies <dbl>, mean alpha policies <dbl>,
## #
       std_alpha_policies <dbl>
```

## Aggregate considerations and preferences

```
# Initialize an empty list to store the alpha results
aggregation_results <- list()

calculate_mode <- function(x) {
   if (length(x) == 0) {
      return(NA)
   }
   ux <- unique(x)
   ux[which.max(tabulate(match(x, ux)))]</pre>
```

```
aggregate_llm_considerations <- function(considerations) {</pre>
  # Ensure there are columns to aggregate
  if (ncol(considerations) == 0) {
   return(tibble())
  # Calculate the mode for each column
  mean_considerations <- considerations %>%
    summarise(across(everything(), calculate_mode))
 return(mean_considerations)
aggregate_llm_policies <- function(policies) {</pre>
  # Ensure there are columns to aggregate
  if (ncol(policies) == 0) {
   return(tibble())
  }
  # Calculate the mode for each column
  mean_policies <- policies %>%
    summarise(across(everything(), calculate_mode))
 return(mean_policies)
# Iterate over each unique provider/model combination
for (provider_model in unique(paste(llm_data$provider, llm_data$model, sep = "/"))) {
  # Filter the data for the current provider/model
  provider_model_data <- llm_data %>% filter(paste(provider, model, sep = "/") == provider_model)
  # Iterate over each survey
  for (survey_name in unique(provider_model_data$survey)) {
    # Filter the data for the current survey
    survey_data <- provider_model_data %>% filter(survey == !!survey_name)
    # Calculate Cronbach's Alpha for considerations (C1..C50)
    considerations_data <- survey_data %>% select(starts_with("C", ignore.case = FALSE))
    aggregated_considerations <- aggregate_llm_considerations(considerations_data)
    # Calculate Cronbach's Alpha for policies (P1..P10)
   policies_data <- survey_data %>% select(starts_with("P", ignore.case = FALSE))
    aggregated_policies <- aggregate_llm_policies(policies_data)</pre>
    # store the results in the list
    aggregation_result <- tibble(</pre>
     provider_model = provider_model,
      survey = survey_name,
```

```
N = nrow(considerations_data)
    )
    aggregation_result <- aggregation_result %>%
      bind_cols(aggregated_considerations) %>%
      bind_cols(aggregated_policies)
    aggregation_results[[length(aggregation_results) + 1]] <- aggregation_result
 }
}
# Combine all results into a single data frame
aggregation_results <- bind_rows(aggregation_results)</pre>
rm(aggregation_result)
rm(considerations_data)
rm(policies_data)
rm(provider_model)
rm(aggregated_considerations)
rm(aggregated_policies)
print(aggregation_results)
## # A tibble: 30 x 63
##
      provider model survey
                                   N
                                        C1
                                              C2
                                                     СЗ
                                                           C4
                                                                 C5
                                                                        C6
                                                                              C7
                                                                                    C8
##
      <chr>
                     <chr>
                               <int> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <
                                  10
                                         6
                                                      4
                                                            5
                                                                  5
                                                                         3
                                                                               4
                                                                                     7
##
  1 google/gemma2 1.Uppsa~
                                               6
##
    2 google/gemma2
                     2.FNQCJ
                                  10
                                         1
                                               5
                                                      6
                                                            7
                                                                  4
                                                                         8
                                                                               9
                                                                                     9
## 3 google/gemma2 3.ACP
                                                                  6
                                                                         7
                                                                                     9
                                  10
                                         3
                                               8
                                                      9
                                                            6
                                                                              10
                                                                               7
                                                                                     6
## 4 google/gemma2
                     4.SydCC
                                  10
                                         6
                                                6
## 5 google/gemma2 5.Fores~
                                   8
                                         3
                                                            7
                                                                  7
                                                                                     3
                                               6
                                                      6
                                                                         4
                                                                               9
## 6 google/gemma2
                     6.Bioba~
                                   9
                                         7
                                               6
                                                      3
                                                            9
                                                                 11
                                                                         7
                                                                               2
                                                                                     9
## 7 google/gemma2
                                                            9
                                                                               2
                                                                                     3
                     7.Frema~
                                  10
                                        11
                                               2
                                                      3
                                                                  7
                                                                         6
## 8 google/gemma2 8.CCPS
                                   9
                                                      2
                                                            8
                                                                  3
                                                                         2
                                                                                     8
                                         1
                                                4
                                                                                     2
## 9 google/gemma2
                                                                  9
                                                                         7
                                                                               7
                     9.Energ~
                                  10
                                         8
                                                9
                                                     10
                                                            8
## 10 google/gemma2 10.Vals~
                                  10
                                                7
                                                      6
                                                                  3
                                                                                     6
## # i 20 more rows
## # i 52 more variables: C9 <dbl>, C10 <dbl>, C11 <dbl>, C12 <dbl>, C13 <dbl>,
       C14 <dbl>, C15 <dbl>, C16 <dbl>, C17 <dbl>, C18 <dbl>, C19 <dbl>,
## #
       C20 <dbl>, C21 <dbl>, C22 <dbl>, C23 <dbl>, C24 <dbl>, C25 <dbl>,
## #
## #
       C26 <dbl>, C27 <dbl>, C28 <dbl>, C29 <dbl>, C30 <dbl>, C31 <dbl>,
## #
       C32 <dbl>, C33 <dbl>, C34 <dbl>, C35 <dbl>, C36 <dbl>, C37 <dbl>,
       C38 <dbl>, C39 <dbl>, C40 <dbl>, C41 <dbl>, C42 <dbl>, C43 <dbl>, ...
## #
```

## Calculate DRI