Scoring Instructions

Before scoring:

1. Each scoring XLSX file corresponds to one future scenario. If you want to score a different scenario, please use a separate scoring file.
2. Before starting the scoring, please rename the Excel file as **"HumanID_FutureScenarioID"**, for example, "A06_FS3". Here, the HumanID starts with the letter H, and the FutureScenarioID follows the format "FS+number".
3. Each response corresponds to a single worksheet. Before scoring, please rename the worksheet as the ResponseID, which is located in the first row of each response.

During Scoring:

1. The three basic pieces of information in the scoring sheet—HumanID, FutureScenarioID, and ResponseID—will be automatically filled based on the Excel file name and worksheet name.
2. The scoring sheet has cell protection enabled, allowing the rater to modify only the scoring area.
3. If a cell input does not meet the requirements, an error prompt will appear; please correct it promptly.
4. In the scoring sheet, each dimension of every step includes the score description (rubrics). Please follow the instructions in the sheet strictly when scoring, and raise your hand if you encounter any issues.
5. In Steps 1 and 3, if a cell displays , **do not make any changes to that cell!**

After Scoring:

1. After scoring a response, the scoring sheet should only contain the five colors 、 、 、 、 . The colors 、 、 、 should

no longer appear. Please check the sheet after completing the scoring.

2. Make sure the Excel file is named as "HumanID_FutureScenarioID", and each worksheet is named according to the ResponseID.

3. The Excel file should contain [number of scored responses + 1] worksheets. The last worksheet should be named "Backup, do not modify", and the remaining worksheets should be named according to their corresponding ResponseIDs.

Scoring Guidelines

Step 1: Identify up to 8 challenges

Challenges should demonstrate **a clear logical causal relationship with the future scenario**.

Step 2: Select a underlying problem

Condition Phrase (CP): Information from common sense or the future scenario, representing **the "cause" or basis** in the causal relationship.

Stem: Phrases like "How can we…" or "In what way can we…" or other suitable expressions, used as the main structure of the sentence describing the underlying problem.

Key Verb Phrase (KVP): Immediately follows the stem, consisting of **a single active verb** (e.g., increase, improve, assist, limit, etc.). Avoid using absolute verbs that are difficult to achieve or multiple verbs in one phrase.

Purpose: Typically expressed as "(in order) to…" or "so that…", describing the intended goal of the KVP; there should be a logical connection with CP.

Future Scenario Parameters: Theme, time, location.

Focus of Underlying Problem: The closeness and logical consistency among KVP, future scenario, and Purpose.

Adequacy or Importance of Underlying Problem: The significance of the

selected underlying problem within the future scenario.

Step 3: Generate up to 8 solutions for the underlying problem

Only solutions that **respond to the KVP and support the purpose of the underlying problem** can be considered as “Yes”!

Step 4: Create 5 criteria

Correctly Written: Single dimension, superlatives as needed, clear indication of evaluation direction, phrasing as questions.

Relevance: Degree of relevance to the underlying problem.

Step 5: Apply the criteria to select the best solution

Correct Usage: In the scoring matrix, each dimension’s score should be a permutation from 1 to [number of solutions]; no two solutions can receive the same score under the same criterion. The total score of each solution must be calculated correctly.

Step 6: Complete the action plan

Please refer to the table for detailed score descriptions (rubrics).