**Core Question:** Does the principal value of research stem from its applicability for solving problems?

1. The principal value of research stems from the potential application of the knowledge gained.
   - *Disagree*  
   - *Agree*  
   - 1 2 3 4 5  I don’t know  N/A

2. Cross-disciplinary research is better suited to addressing applied questions than basic questions.
   - *Disagree*  
   - *Agree*  
   - 1 2 3 4 5  I don’t know  N/A

3. My disciplinary research primarily addresses basic questions.
   - *Disagree*  
   - *Agree*  
   - 1 2 3 4 5  I don’t know  N/A

4. The importance of our project stems from its applied aspects.
   - *Disagree*  
   - *Agree*  
   - 1 2 3 4 5  I don’t know  N/A

5. The members of this team have similar views concerning the motivation core question.
   - *Disagree*  
   - *Agree*  
   - 1 2 3 4 5  I don’t know  N/A
Core Question: What methods do you employ in your disciplinary research (e.g. experimental, case study, observational, modeling)?

1. Scientific research (applied or basic) must be hypothesis driven.
   
   Agreement Scale:
   
   Disagree: 1 2 3 4 5
   Agree: 1 2 3 4 5
   I don’t know: N/A

2. In my disciplinary research, I employ primarily quantitative methods.
   
   Agreement Scale:
   
   Disagree: 1 2 3 4 5
   Agree: 1 2 3 4 5
   I don’t know: N/A

3. In my disciplinary research, I employ primarily qualitative methods.
   
   Agreement Scale:
   
   Disagree: 1 2 3 4 5
   Agree: 1 2 3 4 5
   I don’t know: N/A

4. In my disciplinary research, I employ primarily experimental methods.
   
   Agreement Scale:
   
   Disagree: 1 2 3 4 5
   Agree: 1 2 3 4 5
   I don’t know: N/A

5. In my disciplinary research, I employ primarily observational methods.
   
   Agreement Scale:
   
   Disagree: 1 2 3 4 5
   Agree: 1 2 3 4 5
   I don’t know: N/A

6. The members of this team have similar views concerning the methodology core question.
   
   Agreement Scale:
   
   Disagree: 1 2 3 4 5
   Agree: 1 2 3 4 5
   I don’t know: N/A
Confirmation

**Core Question**: What types of evidentiary support are required for knowledge?

1. There are strict requirements for the validity of measurements.
   - Disagree
   - Agree
   - I don’t know
   - N/A

2. There are strict requirements for determining when empirical data confirm a tested hypothesis.
   - Disagree
   - Agree
   - I don’t know
   - N/A

3. Validation of evidence requires replication.
   - Disagree
   - Agree
   - I don’t know
   - N/A

4. Unreplicated results can be validated if confirmed by a combination of several different methods.
   - Disagree
   - Agree
   - I don’t know
   - N/A

5. Research interpretations must address uncertainty.
   - Disagree
   - Agree
   - I don’t know
   - N/A

6. The members of this team have similar views concerning the confirmation core question.
   - Disagree
   - Agree
   - I don’t know
   - N/A
Reality

**Core Question:** Do the products of scientific research more closely reflect the nature of the world or the researchers’ perspective?

1. Scientific research aims to identify facts about a world independent of the investigators.
   *Disagree* 1 2 3 4 5  *Agree* I don’t know N/A

2. Scientific claims need not represent objective reality to be useful.
   *Disagree* 1 2 3 4 5  *Agree* I don’t know N/A

3. Models invariably produce a distorted view of objective reality.
   *Disagree* 1 2 3 4 5  *Agree* I don’t know N/A

4. The subject of my research is a human construction.
   *Disagree* 1 2 3 4 5  *Agree* I don’t know N/A

5. The members of this team have similar views concerning the reality core question.
   *Disagree* 1 2 3 4 5  *Agree* I don’t know N/A
Core Question: Do values negatively influence scientific research?

1. Objectivity implies an absence of values by the researcher.
   Disagree Agree I don’t know N/A
   1  2  3  4  5

2. Incorporating one’s personal perspective in framing a research question is never valid.
   Disagree Agree I don’t know N/A
   1  2  3  4  5

3. Value-neutral scientific research is possible.
   Disagree Agree I don’t know N/A
   1  2  3  4  5

4. Determining what constitutes acceptable validation of research data is a value issue.
   Disagree Agree I don’t know N/A
   1  2  3  4  5

5. Allowing values to influence scientific research is advocacy.
   Disagree Agree I don’t know N/A
   1  2  3  4  5

6. The members of this team have similar views concerning the values core question.
   Disagree Agree I don’t know N/A
   1  2  3  4  5
Reductionism

**Core Question:** Can the world under investigation be reduced to independent elements for study?

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<tbody>
<tr>
<td>1</td>
<td>Differences in spatiotemporal scales impede useful synthesis in cross-disciplinary research.</td>
<td><strong>Disagree</strong></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
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<tr>
<td>2</td>
<td>The world under investigation is fully explicable as the assembly of its constituent parts.</td>
<td><strong>Disagree</strong></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
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<tr>
<td>3</td>
<td>The world under investigation must be explained in terms of the emergent properties arising from the interactions of its individual components.</td>
<td><strong>Disagree</strong></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
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<td>4</td>
<td>My research typically isolates the behavior of individual components of a system.</td>
<td><strong>Disagree</strong></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
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<tr>
<td>5</td>
<td>Scientific research must include explicit consideration of the environment in which it is conducted</td>
<td><strong>Disagree</strong></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>The members of this team have similar views concerning the reductionism core question.</td>
<td><strong>Disagree</strong></td>
<td>1</td>
<td>2</td>
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### Demographic Profile (ID# __________ )

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<table>
<thead>
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<tbody>
<tr>
<td>1</td>
<td>Male _____  Female _____</td>
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<tr>
<td>2</td>
<td>Career phase: Early _____ (1-7 yrs)  Mid _____ (8-20 yrs)  Late _____ (20+ yrs)</td>
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<td>3</td>
<td># of years you have been participating in inter- or cross-disciplinary activities _____ yrs</td>
</tr>
<tr>
<td>4</td>
<td>What discipline(s) or profession(s) would you describe as your primary identity?</td>
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<td></td>
<td>1. _______________________________  3. _______________________________</td>
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<tr>
<td></td>
<td>2. _______________________________  4. _______________________________</td>
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<tr>
<td>5</td>
<td>Ethnicity: ___________________________________________________________</td>
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Is there anything else that you would like to share with us?