Assessment Criteria

1) **Sensors**

Criteria:

-Sensors that can provide unique discriminating data.
-Platforms that can be used to standardize sensor control and data formatting.
-Sensor collaboration that would be beneficial (radar, electro-optical, infrared, hyperspectral, etc.).
-Parametric requirements for use cases.
-Fixed vs mobile sensors.

2) Data networking (transport/backhaul)

Criteria:

-Short-range data links that can be used to form a network.
-Data requirements that match the networking capabilities.
-Mechanisms available to ensure availability, integrity, enhanced survivability, and other required protections.

3) Data processing

Criteria:

-Effectively clean and normalize the data.
-Missing elements of data handled.
-Distributed processing.
-Data accuracy evaluation.
-Data architecture concept.

4) Data Analytics and Artificial Intelligence

Criteria:

-Algorithms that can be used to group, correlate, and synchronize data to build a complete, accurate and actionable picture.
-Timeliness vs completeness vs resource trade-offs.

5) Data Visualization

Criteria:

-Data and processing result rendering.
-Concepts for relating data with other display data.
-Demonstrate effective visualization in a complex environment.

6) System Integration, Testing, and Training Concepts

Criteria:

-System aspects and specific components of solutions.
-Issues with integration when looking at the above focus areas collectively.
-Integration trade-offs currently available. Concepts to test the components separately and together.
-Training concepts for situations in which you may not be able to combine all aspects of the system in an actual environment.