Claims:

1. A multi-agent system for processing information, comprising:

a data processing agent configured to ingest and normalize raw data inputs to produce standardized data;

a standards integration agent configured to apply reporting standards into the standardized data thereby generating integrated reporting standards;

a performance alignment agent configured to align performance indicators based on the standardized data and the integrated reporting standards;

an information synthesis agent configured to process narrative information from the standardized data and the integrated reporting standards; and

an orchestration framework configured to manage operations of the data processing agent, the standards integration agent, the performance alignment agent, and the information synthesis agent to produce a regulatory report compliant with regulatory requirements, wherein the orchestration framework is executable by a large language model.

2. The system of claim 1, wherein the data processing agent further comprises a data cleansing module capable of removing errors and inconsistencies from the raw data inputs to improve the accuracy of the standardized data.

3. The system of claim 1 or 2, further comprising a materiality alignment agent configured to evaluate and align materiality and boundaries based on the standardized data and the integrated reporting standards.

4. The system of any one of the preceding claims, further comprising a compliance alignment agent configured to align assurance processes based on the standardized data and the integrated reporting standards.

5. The system of any one of the preceding claims, wherein the performance alignment agent uses machine learning to dynamically adapt the performance indicators based on updates to the reporting standards and corresponding real-time data.

6. The system of any one of the preceding claims, further comprising a report consolidation agent configured to employ a data integration platform for merging and alignment of output data from the data processing agent, the standards integration agent, the performance alignment agent and the information synthesis agent.

7. The system of any one of the preceding claims, wherein the orchestration framework further comprises a scheduling module that adjusts a sequence and priority of tasks based on real-time assessments of data processing needs and agent capacity.

8. The system of any one of the preceding claims, wherein the information synthesis agent further comprises a contextual analysis module configured to integrate contextual cues from the standardized data and the integrated reporting standards.

9. A method for processing information in a multi-agent system, comprising:

ingesting raw data inputs via a data processing agent;

normalizing the ingested raw data to produce standardized data using said data processing agent;

applying reporting standards to the standardized data using a standards integration agent to generate integrated reporting standards;

aligning performance indicators based on the standardized data and the integrated reporting standards using a performance alignment agent;

processing narrative information from the standardized data and the integrated reporting standards using an information synthesis agent; and

orchestrating operations of the data processing agent, the standards integration agent, the performance alignment agent, and the information synthesis agent through an orchestration framework to produce a regulatory report compliant with encoded regulatory requirements, wherein the orchestration framework is executable by a large language model.