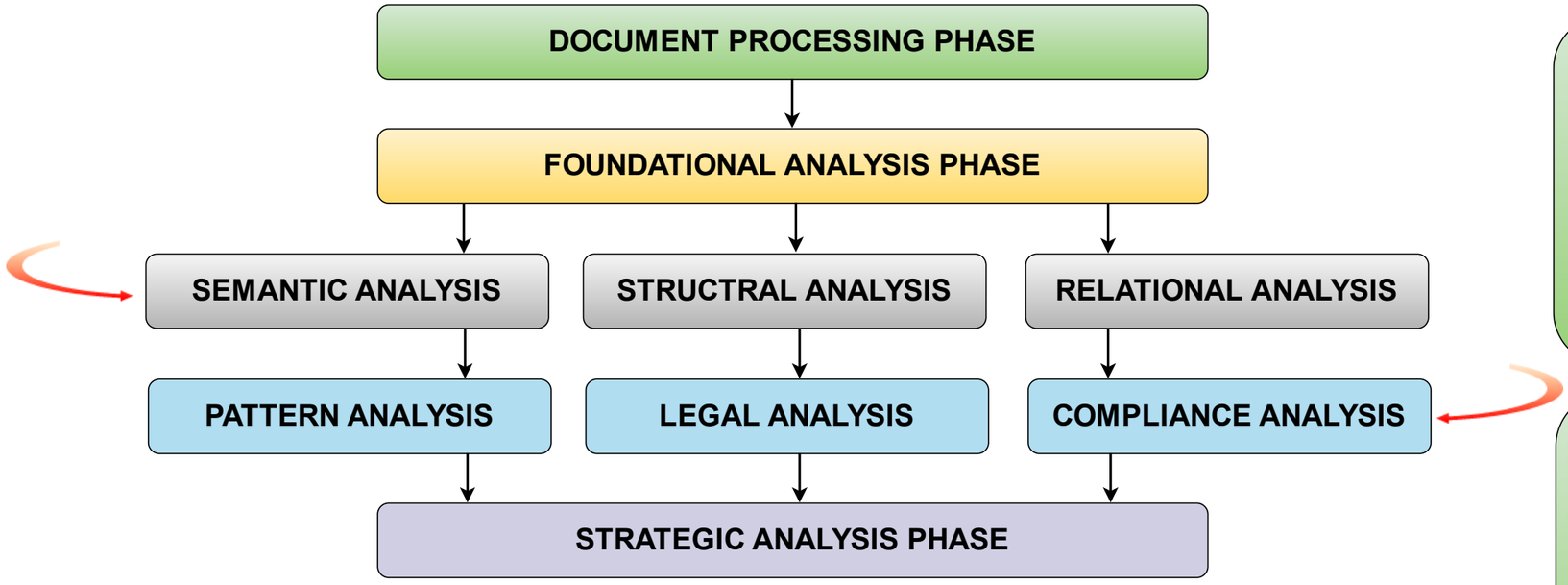

SEMANTIC ANALYSIS

Purpose: Analyze the semantic content of documents to identify topics, terms, and their relationships.
Steps:
1. **Term Frequency Analysis -** Calculate frequency of terms and phrases
2. **Co-occurrence Detection -** Identify terms that frequently appear together
3. **Topic Modeling -** Discover topics and themes across documents
4. **Topic Tracking -** Track how topics evolve across documents
Outputs:
- Term frequency statistics
- Co-occurrence matrices
- Topic clusters
- Topic evolution data
Dependencies:
- Foundation Analysis Phase

STRUCTRAL ANALYSIS

Purpose: Analyze the structural elements of legal arguments and reasoning.
Steps:
1. **IRAC Component Identification -** Identify Issues, Rules, Applications, Conclusions
2. **Toulmin Model Analysis -** Identify Claims, Data, Warrants, Backing
3. **Legal Precedent Matching -** Connect arguments to relevant case law
4. **Citation Analysis -** Analyze the network of legal citations
Outputs:
- Structured IRAC components
- Structured Toulmin model components
- Relevant precedents
- Citation network
Dependencies:
- Foundation Analysis Phase

RELATIONAL ANALYSIS

Purpose: Map relationships between entities and identify patterns in these relationships.
Steps:
1. **Relationship Mapping -** Create graph of relationships between entities
2. **Knowledge Graph Construction -** Build comprehensive knowledge graph
3. **Cross-document Relationship Analysis -** Analyze relationships across documents
Outputs:
- Entity relationship graph
- Knowledge graph
- Cross-document relationship data
Dependencies:
- Foundation Analysis Phase

PATTERN ANALYSIS

Purpose: Identify patterns, trends, and anomalies across documents and entities.
Steps:
1. **Pattern Detection -** Identify recurring patterns in documents and entities
2. **Similarity Analysis -** Find similar documents, entities, and arguments
3. **Anomaly Detection -** Identify outliers and unusual patterns
4. **Trend Analysis -** Track how patterns evolve over time
Outputs:
- Identified patterns
- Similarity matrices
- Anomaly reports
- Trend data
Dependencies:
- Semantic Analysis Phase
- Relational Analysis Phase

LEGAL ANALYSIS

Purpose: Analyze legal issues, violations, and contradictions.
Steps:
1. **Violation Detection -** Identify Brady violations, fabricated evidence, misconduct
2. **Contradiction Detection -** Identify contradictions between statements/documents
3. **Causal Chain Reasoning -** Establish causal relationships between events/actions
Outputs:
- Detected violations
- Identified contradictions
- Causal chains
Dependencies:
- Structural Analysis Phase
- Pattern Analysis Phase

COMPLIANCE ANALYSIS

Purpose: Generate strategic recommendations and motion suggestions.
Steps:
1. **Strategy Generation -** Develop legal strategies based on all analyses
2. **Motion Recommendation -** Suggest specific motions
3. **Outcome Prediction -** Predict potential outcomes of different strategies
Outputs:
- Strategic recommendations
- Suggested motions
- Outcome predictions
Dependencies:
- Pattern Analysis Phase
- Legal Analysis Phase
- Compliance Analysis Phase