GLOSSARY TERMS - Core Concepts

1. **Agentic Process Automation (APA)**
   AI systems that autonomously perform complex workflows by combining decision-making, learning, and tool-use capabilities beyond scripted RPA.

2. **Autonomous AI Agents**
   Self-directed software entities that perceive environments, make decisions, and take actions to achieve goals without human intervention.

3. **Large Language Models (LLMs)**
   Foundation AI models (e.g., GPT-4) that process and generate human-like text, enabling natural language interactions in APA systems.

4. **Computer Vision Integration**
   Technology allowing AI agents to interpret and interact with graphical user interfaces (GUIs) like humans do.

Technical Components

5. **Exponential Memory Architecture**
   (Ema's proprietary system) - AI memory that grows contextually while maintaining data privacy across organizational use cases.

6. **Regulation Embeddings**
   (Braintrust AI's innovation) - Mathematical representations of legal texts that enable AI to dynamically interpret compliance rules.

7. **Chain of Verification**
   (Magic.dev's method) - Systematic validation process where AI agents cross-check each computational step for accuracy.

8. **Neural Symbolic Approach**
   (Used by Induced AI) - Hybrid AI combining neural networks' pattern recognition with symbolic AI's logical reasoning.

Functional Capabilities

9. **Conversation Containment Rate**
   (Sierra's metric) - Percentage of customer queries fully resolved by AI without human escalation.

10. **Sim-to-Real Training**
    (Ambi Robotics' technique) - Teaching physical robots in simulated environments before real-world deployment.

11. **Federated Learning**
    (Ema's implementation) - Distributed AI training method where models improve across organizations without sharing raw data.

12. **Hybrid Human-AI Workflows**
    (Robocorp's specialty) - Systems where humans and AI agents collaboratively complete processes.

Evaluation Metrics

13. **False Positive Reduction**
    (Braintrust AI's 90% claim) - Decrease in erroneous compliance alerts compared to rules-based systems.

14. **Context Window**
    Duration an AI agent maintains memory of previous interactions (critical for Sierra's agents).

15. **Containment Rate**
    Percentage of service inquiries fully handled by AI without human transfer (Sierra achieves 80%).

Organizational Models

16. **Open-Source Agent Frameworks**
    (SuperAGI/Robocorp) - Publicly accessible platforms for building customizable APA solutions.

17. **No-Code Agent Builders**
    (Relevance AI/Dust) - Tools allowing non-technical users to create AI agents via natural language.

18. **Universal AI Employee**
    (Ema's concept) - Single agent capable of performing multiple organizational roles.

Emerging Paradigms

19. **Recursive Self-Improvement**
    (AutoGPT's capability) - AI systems that enhance their own performance through iterative loops.

20. **Emotional Intelligence Models**
    (Inflection AI's Pi) - AI systems incorporating affective computing for natural interactions.