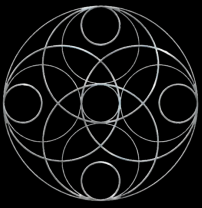




Metanoia Systems

Complex Systems | Defense Methods | Human Good



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CAPABILITY STATEMENT

Metanoia Systems is a private equity-backed, SDVOSB headquartered in Huntsville, Alabama, that solves wicked problems through three disciplines: complex adaptive systems science, cognitive science, and digital engineering. Whether the challenge involves organizational culture, AI integration, human behavior, or influence operations, we engineer interventions that optimize the dynamic interplay between people, processes, technology, and information environments.

CORE COMPETENCIES

Analyzing Complex Adaptive Systems

- **Systems of Systems Analysis:** Our *JulAI* complex systems modeler maps the topology of any system using a set of primitives that resolve to measurable signal. It helps analysts figure out **what** they need to measure, **how** often to measure it, and **where** to intervene in the system to achieve change or an effect.
- **Organizational Performance:** Our *H-Synth* platform is a process intelligence and knowledge management platform that helps businesses create a single source of truth for both human workers and AI agents, enabling versioned, intentional organizational transformation.

Modeling Context Specific Interventions

- **Risk Quantification & Scenario Modeling:** We use Monte Carlo simulations and agent-based modeling to quantify risks that others only discuss qualitatively. Our methods calculate Value at Risk for human error, compliance violations, and operational failures—then test intervention effectiveness across thousands of simulated scenarios.

Implementing System Interventions and Improvements

- **AI Integration & Workflow Optimization:** We architect and refine secure, scalable AI solutions and human-in-the-loop workflows to enhance operational efficiency, automate critical processes, and optimize collaboration between human and artificial intelligence capabilities.
- **Human-AI Cognition:** We pioneer methodologies to optimize the synergistic relationship between human and artificial intelligence, enhancing collective intelligence, improving situational awareness, and accelerating complex decision-making.

FEDERAL WING

- **Cogent Gray LLC**
- **CAGE | 10JA6**
- **UEI | W3XFLDKEM1J3**
- **Work Area | National**
- **Economic Status | Service Disabled Veteran Owned Small Business (SDVOSB)**

PRIMARY NAICS CODES

- 541690 | Other Scientific and Technical Consulting Services**
- 541512 | Computer Systems Design Services**
- 541715 | Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology)**
- 611710 | Educational Support Services**

HOW TO WORK WITH US

- 1. Direct Contracting.** We deliver four services directly:
 - **Research as a Service (RaaS) |** We run defined research tasks and deliver the results to you.
 - **Innovation & Skunkworks |** We build and test new concepts in short, focused sprints.
 - **Education & Training |** We teach your people theory, methods, and tools.
 - **Consulting |** We advise your leaders on complex problems and decisions.
- 2. Subcontracting.** We supply the skills your effort needs under dedicated SDVOSB allocations.
- 3. Acquire our solutions.** Purchase our products and platforms for your own use.