

- ❖ **Capabilities**
 - **Technology**
 - Unique agent technology, graph-analytics, and library of 160 agent algorithms
 - Components and architecture frameworks that are language and domain independent
 - Custom Prolog based Agent Compiler that is the fastest and smallest in the world
 - **Company**
 - Partnership of deep subject matter scientists with proven application capabilities
 - Collaboration with a larger network of associates and cleared personnel
 - Reach of a larger network and expert level application competency, no junior staff
- ❖ **Vision**
 - Using VivoMind™ technologies, work transforms into play and creativity becomes unleashed in any situation and for any application scenario.
- ❖ **Mission**
 - We are dedicated to advancing our leadership in scalable multi-agent systems development for intelligence of a quality approaching human, in multiple domains
- ❖ **Unique Resources**
 - **Partnerships**
 - Cleared human intelligence personnel with or through partners and individuals
 - IHMC (not for profit) research laboratories with cleared scientists
 - Cleared software integrators and developers specialized in cyber and agents
 - **Facilities**
 - VivoMind computer research laboratory and offices in VA and MD;
 - IHMC Cyber-Laboratory and other resources offices in FL;
 - Others within the Baltimore/Washington corridor;
 - **Patents And Licenses**
 - VivoMind Research Technology Licenses, others from IHMC, Wolfram
 - Several Provisional patents pending – large IP base under trade-secrecy
 - **Financial Stability**
 - VivoMind™ has been in existence ten years with the same core personnel
 - Diversity of commercial and government work ongoing
 - Long running contracts with highly sensitive repeat-business clients
- ❖ **Uniquely Qualified**
 - **Synergies**
 - Combination of theory and application with human-intelligence analysts
 - Easy to integrate technology with any third-party components or systems
 - Team and technology is much stronger than mere sum of its parts
 - **People Skills**
 - Good relationship understanding
 - High integrity, confidential, dedicated work ethics
 - Strong business advisory network / Trusted experts
 - **Experiences, Capabilities, And Achievements**
 - US Chief Information Office (CIO) award best practices paper in Semantic SOA
 - Large literature of peer-reviewed cutting edge scientific papers
 - Successfully completed field tests for a large end customer
 - **Current Work In Progress**
 - US DOE “Beyond Rare Earths Magnets Program” (BREM)
 - Special projects in security and intelligence
 - Global Bank Cyber & Information Security
- ❖ **Interests:** *VivoMind is seeking out cooperative, collaborative and empowering partnerships that produce powerful results for customers, leaving them with peace of mind after project fulfillment and committed to repeat business with us.*

Unique Advantages

All our technologies are founded on a domain and language independent architecture.

VivoMind™ technologies apply to three types of: (i) Leap-ahead database technology for human-like storage and recall (Cognitive Memory™) that can be used for financial data, social network data, medical informatics and pharmaceuticals; (ii) Agent technologies that provide Lego™-like building blocks to deliver self-configuring reasoning pattern circuitry for advanced data analytics (currently serving clients) as well as intelligent gaming, modeling and simulation; and (iii) Smart, self-intelligent documents that can autonomously search themselves, respond to user queries and synthesize new information in real-time. More details are available on request.

Current early adopter clients include product development for national security, a document processing company and global banking. All customers are repeat clients with additional referrals. During 2010-2011, VivoMind had three contract renewals with clients that continue to benefit from our proprietary, business intelligence solutions and superior customer service.

VivoMind™ provides the unique advantage of being able to compute with graph structures at very high speed, especially as pertains to analogical reasoning and the VAE™. Analogies can be used to draw out predictions when information is missing or sparse, to hypothesize or conjecture possibilities for predictive analyses. Analogical reasoning agents provide a unique technology and fill a requirements gap.

Achievements

Our capabilities have been applied to (and continuing work in several cases):

- Successful completion of a program for a large customer to test out concepts of multi-agent systems for chat analysis,
- Knowledge extraction from science and technology journals supporting the development of new materials science (the Beyond-Rare Earths Magnets program) for new sources of energy, building on Oil & Gas proof-of-concept,
- Oil and Gas analytics for exploration (using analogical reasoning for new sources of energy) proof of concept,
- Successful completion of a program for a large customer proving out performance and scalability as well as providing language and domain independent support to human-analysts:
- Legacy Re-engineering (agents reading code and revealing the implicit architecture) for Cutter Consortium,
- Conversational Analysis (agents identifying conversation threads and creating outputs identifying certain kinds of conversations in multiparty chatter),
- Technology supply to certain US government programs for
- Relations with highly confidential global banking security and similar organizations
- Question answering for analysis of textual data
- Synthesis of Ontologies from raw data (human analytic force-multiplication)
- Malware and packet analytics using agent based intelligence
- Stream processing of heterogeneous and highly dynamical data sets, especially in big data.

Conclusions

VivoMind has presented a high level view of its capabilities, which is the product of its personnel, network of partners and sole-source proprietary technologies. The success of our work on several programs and its subsequent application in advanced systems (approved requestors may gain access upon completion of our security and non-disclosure requirements) provides indicative results of the value of our approach. The company is strategically, tactically and financially dedicated to winning in defining the highest state-of-the art in technologies for intelligence analysis in any domain. We focus on long-term strategic development of the core software engines, components, frameworks and infrastructures from the ground up because we understand that no one can achieve uniqueness by merely shuffling around or gluing together off-the-shelf or open-source components: we create the components that are small, powerful, flexible, language and domain independent for building intelligent agent systems.

We care deeply about our customer's success and will work to provide excellence in service under any conditions or challenges that may arise. Often, our customers become longer term partners because we cultivate high-trust, open, willingness to work through any challenge, easy to get along with, high integrity, and highly dedicated work ethic. No single company has the specific asset pool of unique technology capabilities, human intelligence analysts, and deep-reach networks of people with skills to complete any project. However, VivoMind can and has achieved such ends because its premise is to work in collaboration, cooperation and partnership with key collaborators and with its customers and intermediaries. VivoMind is committed that your problem is also our problem, and that complementing each other, we can solve it.

We are the only company that brings together the skills, methods, processes, technologies, architecture, frameworks and most importantly, human subject matter expertise, to build the world's largest and most sophisticated multi-agent collection and analysis platform.

Delivered software systems can be demonstrated under appropriate authorities and disclosure policies.

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