**1. AI and Predictive Analytics**

WTI designs and deploys advanced AI and ML solutions—including the development of Large Language Models (LLMs)—to extract insights, automate workflows, and solve complex operational challenges. Our AI capabilities accelerate performance and support mission-critical innovation.

We develop custom Retrieval Augmented Generation (RAG) systems that combine large language models with organization-specific datasets. Our RAG solutions deliver high-accuracy generative AI with the context and relevance needed for informed decision-making and positive mission outcomes.

**2. Knowledge Management Systems**

WTI builds knowledge management systems that capture, structure, and distribute institutional knowledge to improve organizational learning, optimize business processes, and enhance mission readiness. These systems serve as strategic tools to enable organizations to effectively manage and leverage their most valuable asset: knowledge.

**3. Business Process Modeling and Notation**

WTI develops tailored business process models that empower our clients to analyze, optimize, and automate their operations. These models form the backbone of digital transformation and enable data-informed decision-making across the enterprise.

**4. Systems Architecture and Engineering**

We transform legacy systems into modern, model-centric architectures using Model-Based Systems Engineering (MBSE). WTI designs scalable, efficient systems that convert complex, document-intensive environments into accessible, intelligent infrastructures.

**5. Knowledge Modeling and Ontology**

WTI integrates structured and unstructured data from diverse sources into unified pipelines, building scalable systems and data repositories that support operational insight. We complement this with dynamic dashboards and custom visualizations that turn complex data into clear, actionable information for real-time decision-making and strategic analysis.

**6. IT and Data Modernization, Integration, and Transformation**

WTI has developed an innovative framework utilizing Business Process Modeling, Model-Based Systems Engineering (MBSE), and ontology development to modernize, integrate, and transform processes, systems, and data through a holistic approach. Combining these disciplines unlocks new insights into the complex relationships between domains and paves the way for advanced AI and automation, allowing organizations to remain competitive in an increasingly data-driven and automated world.

**7. Policy and Data Governance**

WTI establishes federated data governance structures that align policies, standards, and controls across departments and domains. We define the necessary oversight, accountability, and processes to govern AI and data security, sharing, capabilities, and operations that bring semantic consistency and interoperability to complex data ecosystems. Our solutions ensure data is visible, accessible, understandable, linked, trusted, interoperable and secure through disciplined data stewardship.

**8. Zero Trust**

We implement Zero Trust security models that strengthen enterprise protection by continuously verifying every connection—across users, devices, applications, and data. Our solutions enforce least-privilege access and reduce cyber risk at every layer.