



North Central Texas Council of Governments

Artificial Intelligence (AI) Solutions for Public Sector Entities

RFP # 2025-018

January 24th, 2025



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1. Certificate of Offeror and Statement of Understanding

1.1 Cover Sheet

TXShare

Your Public Sector Solutions Center

REQUEST FOR PROPOSALS
For
Artificial Intelligence (AI) Consultancy Services
RFP # 2025-023

Sealed proposals will be accepted until 2:00 PM CT, **December 18, 2024**, and then publicly opened and read aloud thereafter.

Esolvit, Inc.

Legal Name of Proposing Firm

Usha Boddapu

CEO/Founder

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Title

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Usha Boddapu

CEO/Founder

Point of Contact for Contract Negotiations

Title

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Point of Contact Telephone Number

Point of Contact Person E-Mail Address

Acknowledgment of Addenda (initial): #1 UB #2 _____ #3 _____ #4 _____ #5 _____

NOTE: Any confidential/proprietary information must be clearly labeled as "confidential/proprietary". All proposals are subject to the Texas Public Information Act.

COVER SHEET

1.2 Comprehension of Requirements and Expected Outcomes

Respected North Central Texas Council of Governments Team,

Thank you for the opportunity to respond to RFP #2025-018 for AI Solutions for Public Sector Entities. Esolvit Inc. is committed to supporting NCTCOG's vision to leverage AI technologies to enhance efficiency, service delivery, and innovation across its member entities. With expertise in delivering tailored solutions, we address key public sector challenges, such as improving services, optimizing data, and fostering citizen engagement while ensuring seamless integration, data security compliance, and scalable, user-friendly technologies. We are honored to contribute to NCTCOG's pursuit of operational excellence and deliver transformative AI solutions that drive measurable results.

2. References

We are pleased to provide the following references, highlighting our expertise in delivering AI solutions tailored to public sector entities' operational challenges and innovation goals.

2.1 Reference 1

Agency Name	Texas Commission on Law Enforcement (TCOLE)
Point of Contact	Jessica Teseny Capraro
Designation	Chief Information Officer
Phone	(512) 936-7702
Email	jessica.capraro@tcole.texas.gov
Description of Contracted Services	Integrated and modernized authentication and role management across three applications, unifying them under a single login page with multifactor authentication, streamlined password recovery, and improved account activation.

2.2 Reference 2

Agency Name	Arytic Inc.
Point of Contact	Alan Hulme - Lowe
Designation	Chief AI Strategist
Phone	+1 (651) 226-0077
Email	alan.hulmelowe@gmail.com
Description of Contracted Services	Esolvit developed AI solutions like the AI Resume Parser and Intelligent Match machine, using machine learning, NLP, and psychometrics to optimize job matching. Created customized personality and culture matching technology to improve hiring accuracy, retention, and organizational fit.

2.3 Reference 3

Agency Name	Denver Water
Point of Contact	Jonathan Spitze
Designation	Director of IT Business Technology & PMO
Phone	1 (303) 628-6050
Email	Jonathan.Spitze@denverwater.org
Description of Contracted Services	Addressed data challenges through AI, Generative AI, and modern Search & Infrastructure. It resulted in an AI Strategy and Readiness assessment, use case identification, business case development, and the creation of an AI Center of Excellence (COE) with an implementation plan and stakeholder engagement.

2.4 Reference 4

Agency Name	Texas Parks and Wildlife Department (TPWD)
Point of Contact	Maresh Menon
Designation	Chief of Strategic Business Development
Phone	512-389-4549
Email	maresh.menon@tpwd.texas.gov
Description of Contracted Services	The BTR migration project is transitioning from Oracle Forms to a modern web application using ReactJS, TypeScript, Redux, Material UI, and Node.js. Our team is developing responsive, accessible components, optimizing performance, implementing server-side rendering, and integrating REST and Reporting Services to deliver a scalable, user-friendly system that meets evolving business needs.

2.5 Reference 5

Agency Name	Texas Health and Human Services (HHSC)
Point of Contact	Maricella Perez – CTCM HHSC ITBO
Designation	Contract Specialist IV IT Staff Aug Coordinator
Phone	737-867-8717
Email	maricella.perez@hhs.texas.gov
Description of Contracted Services	Esolvit is actively engaged in multiple HHSC projects, with skilled teams of solution architects, software developers, cybersecurity experts, process improvement managers, and project managers driving technology transformation initiatives.

3. Project-Related Experience and Qualifications

A. Organization's Capabilities and Experience

Provide a detailed description of your organization's capabilities in delivering AI solutions. This should include:

1. Technical Expertise

Outline the specific AI technologies and methodologies your organization specializes in.

Esolvit Inc. is a proven leader in delivering innovative AI solutions, with over 60 years of collective technical project management experience and a 100% successful project delivery track record. Our expertise spans cutting-edge AI/ML technologies, real-time analytics, and scalable software solutions designed for public sector and commercial enterprise applications.

Key Areas of Specialization

- **Advanced AI/ML and Generative AI Solutions:** Development of sophisticated AI models for predictive analytics, generative AI, and automation, customized to address diverse industry needs.
- **Robust AI Infrastructure:** Advanced AI computing and infrastructure, leveraging Hyperscalers, cloud services, and Large Language Models to build scalable AI solutions capable of handling massive datasets and user volumes.
- **Natural Language Processing (NLP) and Computer Vision:** Expertise in building sentiment analysis, text summarization, image recognition, and video analytics solutions using frameworks like TensorFlow, PyTorch, and Scikit-learn.
- **AI-Driven Custom Product Solutions:** Design and implementation of bespoke AI systems tailored to address unique organizational challenges. By leveraging Generative AI (Gen AI) for advanced content generation and Agentic AI for autonomous decision-making, we deliver innovative solutions such as domain-specific predictive models, intelligent recommendation

engines, and adaptive conversational AI systems. These custom solutions focus on aligning AI capabilities with business objectives, ensuring scalability, efficiency, and real-world impact.

- **Real-Time Analytics:** Implementation of real-time data processing solutions that empower faster decision-making and actionable insights.
- **Custom Software Development:** Design and deployment of scalable, high-performance software solutions that seamlessly integrate with existing systems.
- **Proactive System Oversight:** Utilizing observability frameworks like Grafana, Splunk, and Azure Log Analytics, we ensure end-to-end system monitoring. This includes tracking model performance, data flows, and infrastructure scalability to optimize AI solutions throughout the deployment lifecycle.

Cutting-Edge Technologies

- **Compute and Storage:** Leveraging platforms such as NVIDIA GPUs, AWS, Azure, and Google Cloud Platform (GCP) to deliver robust big data analytics, AI model training, and scientific simulations.
- **Deep Learning:** Incorporation of advanced deep learning capabilities for applications including sentiment analysis, text summarization, image recognition, and video analysis.
- **ML Engineering:** Comprehensive expertise in model development, training, deployment, and monitoring to ensure optimal performance and efficiency.

Streamlined DevOps/MLOps Solutions

- **Source Code Management (SCM):** Proficiency in Git, GitHub, and GitLab for enterprise-level strategy and training.
- **Continuous Integration/Continuous Delivery (CI/CD):** Expertise in Jenkins, CircleCI, and Bamboo for seamless integration and deployment.
- **Containerization and Configuration Management:** Advanced capabilities with Docker, Kubernetes, Ansible, and Terraform to manage scalable infrastructures.
- **Infrastructure as Code (IaC):** Expertise in Terraform, CloudFormation, and Pulumi to enable scalable, automated deployments.
- **Monitoring and Logging:** Robust frameworks leveraging Grafana, Nagios, and Splunk for proactive system and performance management.

2. Esolvit AI Project Management Framework

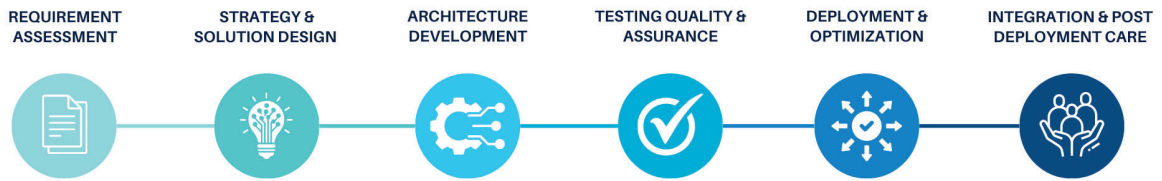
Describe your approach to managing AI projects, including planning, execution, and quality assurance processes

Esolvit is ISO-certified in **Information Security Management Systems, IT Service Management, and Quality Management Systems**, demonstrating our commitment to operational excellence and continuous improvement. These certifications—**ISO/IEC 27001:2022, ISO/IEC 20000-1:2018, and ISO 9001:2015**—provide a solid foundation for streamlining processes, improving quality, and reducing costs, all of which directly benefit our clients.

Our specialized project management framework ensures the successful delivery of complex AI solutions by addressing unique challenges with precision and innovation. We leverage Agile methodologies, PMP-certified practices, and advanced ITSM tools such as Jira/Confluence, Azure DevOps (ADO), and ServiceNow to ensure alignment with client objectives throughout the project lifecycle, maintaining transparency and driving success at every stage.

Our structured approach is organized into three key phases: **Planning, Execution, and Quality & Assurance**, ensuring comprehensive project delivery and measurable outcomes.

2.1 Planning



The planning phase lays the foundation for the success of AI projects by clearly defining objectives, identifying challenges, and preparing data and processes. Key activities include:

- **Identify the Business Problem:** Collaborate with stakeholders to understand specific challenges or opportunities where AI can provide impactful solutions. Assess feasibility and the potential impact of applying AI.
- **Risk Assessment and Stakeholder Alignment:** Anticipate AI-specific challenges such as algorithmic constraints and compliance requirements, and ensure all stakeholders are aligned on goals and deliverables.
- **Define Project Scope and Objectives:** Clearly outline the AI solution's goals, metrics for success, and project scope, including which processes will be affected and the expected outcomes.
- **Data Collection and Preparation:** Identify relevant data sources, including text, images, videos, or other formats. Perform data cleaning, normalization, and feature extraction to ensure suitability for model training.
- **Retrospective Planning:** Incorporate retrospective analysis to evaluate past successes and challenges, refining the planning phase for continuous improvement.

This meticulous planning ensures the project roadmap is strategic, executable, and positioned to deliver maximum value.

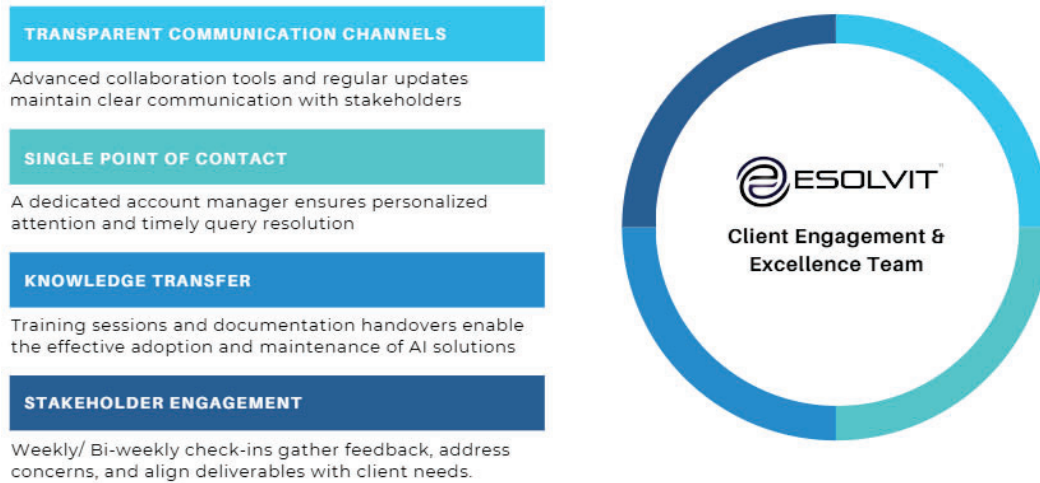
2.2 Execution

Esolvit's execution phase focuses on iterative development cycles tailored to AI projects, ensuring adaptability, collaboration, and alignment with client needs. Core aspects include:

- **Sprint Methodology for Iterative Development:** We employ Agile-based sprint cycles to incrementally develop, test, and refine AI solutions. This ensures rapid delivery of value while maintaining flexibility to adapt to evolving requirements and client feedback.
- **Select and Design the AI Solution:** Identify the appropriate AI methodologies and techniques based on the project's goals and data requirements. Customize solution architectures and algorithms to deliver outcomes that align with client objectives.
- **Proof-of-Concept (POC) Development:** Provide comprehensive POCs to demonstrate the feasibility and benefits of AI solutions. This approach validates concepts, mitigates risks, and offers clients tangible insights before full-scale implementation.
- **Training and Testing:** Train AI models using prepared datasets, optimizing performance through iterative adjustments and validating effectiveness against predefined metrics using separate validation datasets.
- **Integration and Deployment:** Seamlessly integrate AI functionalities into existing systems and workflows, ensuring compatibility and efficient operation. Deploy solutions in controlled environments for initial performance monitoring and refinement.

Client Engagement and Excellence Team

Esolvit's client relationship team ensures seamless collaboration and efficient communication throughout the project lifecycle:



This comprehensive execution framework ensures that Esolvit delivers high-impact, client-focused solutions that integrate seamlessly into existing operations.

2.3 Quality & Assurance

The quality and assurance phase ensures the reliability, fairness, and compliance of AI solutions through rigorous evaluation, continuous monitoring, and iterative improvement. Our approach guarantees the deployment of AI technologies that are scalable, ethical, and aligned with regulatory standards.

a) Evaluation and Refinement: We start by conducting a comprehensive evaluation of AI models using both quantitative metrics and qualitative user feedback, ensuring the solution aligns with the project's goals. This phase involves:

- **Model Assessment:** We use Scikit-learn, TensorFlow, and PyTorch to evaluate and fine-tune models with key metrics like accuracy, precision, recall, and F1 score. MLflow tracks experiments and logs performance metrics for reproducibility.
- **Bias & Fairness:** IBM AI Fairness 360 and Google Fairness Indicators help us detect and mitigate bias, ensuring fairness across diverse user groups.
- **User Feedback:** We collect insights via Hotjar and SurveyMonkey to assess user satisfaction and guide iterative model improvements.
- **Iterative Refinement:** Jupyter Notebooks and Kubeflow facilitate interactive adjustments and scalable model iterations, ensuring continuous improvement based on real-time data and feedback.

b) Ethics and Compliance: Adhering to ethical guidelines and regulatory standards is integral to our AI development process. We ensure responsible AI deployment through:

- **Data Privacy & Security:** We implement advanced techniques like differential privacy to ensure sensitive data is secure and anonymized, preserving both privacy and model utility throughout the AI lifecycle.
- **Fairness & Transparency:** We regularly assess AI models for fairness and transparency to prevent unintentional discrimination and ensure equitable outcomes. Tools like IBM AI Fairness 360 help us identify and mitigate biases.

c) Feedback Loop and Continuous Improvement

- **User and Stakeholder Feedback:** We actively collect feedback from users and stakeholders to resolve concerns quickly and refine models.
- **Iterative Deployment & Model Improvement:** Through continuous integration and deployment tools like GitLab and Kubeflow, we can efficiently update and improve models based on real-time user input and data.

Esolvit seamlessly integrates AI technologies with existing systems while adhering to data privacy and compliance standards. Through transparent communication and a client-focused approach, we deliver ethical, scalable, and future-ready AI solutions. Our robust project management framework ensures the successful execution of complex AI initiatives, empowering public sector organizations to achieve measurable and sustainable results.

3. Team Qualifications & Structure

Our team comprises highly skilled professionals with extensive expertise in Artificial Intelligence (AI), data management, and public sector consultancy. Each member brings unique technical and strategic experience, ensuring the successful execution of the services outlined in RFP #2025-018.

Usha Boddapu, Federal & SLED Government Account Executive

Usha Boddapu brings 27 years of experience in AI and government contracting, managing multi-million-dollar federal and state contracts. Usha has served on the Forbes AI Executive Advisory Board and has extensive experience with federal frameworks such as 8A Stars III GWAC and DBITS, delivering transformative AI strategies for public sector clients.

Amar Lingam, Chief Data Scientist & AI Strategist

Amar Lingam has over 20 years of experience as a data scientist and strategist, serving Fortune 500 companies in crafting AI roadmaps and digital transformation strategies. His expertise includes developing CRM, analytics, and infrastructure modernization AI solutions. Amar is a published author and a board member for analytics at UT Austin's McCombs School of Business.

Sri Boddapu, Head of AI Vision & Product Innovation

With 30 years of experience, Sri Boddapu is a technology leader specializing in AI and Big Data. As COO of Esolvit Inc., he has led the development of multi-million-dollar AI-driven products, including groundbreaking AI hiring and cybersecurity solutions. His leadership has been recognized globally by industry leaders like Intel and NASSCOM.

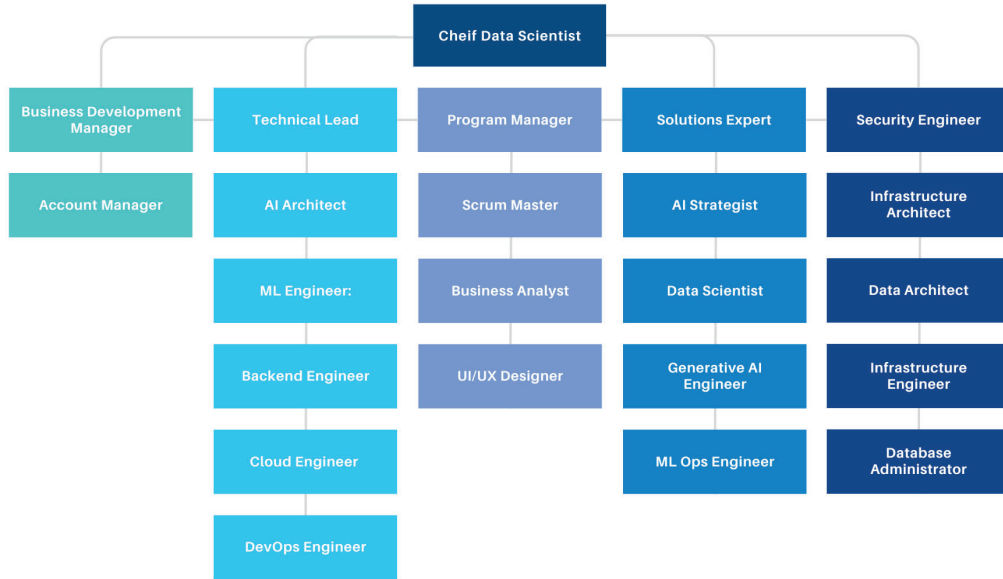
Deelip Pogiri, Senior Engineering Manager

Deelip Pogiri has 19 years of experience in cloud architecture, DevOps, and scalable application development. His expertise includes leading large-scale cloud migrations using Azure and AWS and implementing microservices architectures that enhance cost efficiency and system reliability.

Ravi Chintala, Principal AI Architect

Ravi Chintala specializes in AI architecture and has over 20 years of experience in cloud virtualization and AI/ML frameworks. He has delivered advanced AI solutions using NVIDIA technologies and Microsoft platforms, demonstrating strong leadership in global team management and solution customization for public sector clients.

Our team comprises experts across various disciplines essential for successfully executing this initiative. **Below are the critical roles in our organizational chart format supporting this engagement:**



Esolvit’s unique combination of technical expertise, project management excellence, and a highly qualified team positions us to deliver transformative AI solutions that align with NCTCOG’s mission and objectives.

B. Relevant Past Projects

Collate AI	Sentinel	Nvision AI
<ul style="list-style-type: none"> Tender and bid management software for large govt and private bodies. Completely local setup for security Agentic model with latest LLMs <p>Impact: Documentation & Information Security</p> <ul style="list-style-type: none"> Saved time with AI-driven document search and retrieval. Secured sensitive information using advanced encryption. Reduced legal costs and delays with automated workflows. 	<ul style="list-style-type: none"> QR like anti-counterfeiting tech based on state of the art encryption Highly scalable, easy to integrate Unclonable print mark <p>Impact: Anti-Counterfeiting</p> <ul style="list-style-type: none"> Prevented tax revenue loss with robust anti counterfeiting measures. Restored trust in brands through unclonable security technology. Protected legitimate businesses by targeting counterfeit operations. 	<ul style="list-style-type: none"> Visual inspection AI tech for identifying manufacturing defects 90%+ accuracy Seamless integration <p>Impact: Traditional Visual Inspection Process</p> <ul style="list-style-type: none"> Streamlined processes with AI-powered tools for speed and consistency. Achieved over 90% accuracy, reducing errors. Cut costs by automating inspection and minimizing human error
<p>Technology Stack: Python, Django, ReactJS, ChromaDB, LangChain, LlamaIndex, Langflow, TensorFlow, Keras, OpenCV, Xxing, PostgreSQL, SQLite, ElectronJS, SciPy</p>		

Global client base:





Panorama

- Comprehensive, Real-time view of customer information, Including Firmographics, Intent signals, Sales trends, Propensity, Funding, Events, and more all in one place.
- It saves time, Increases sales, and reduces third-party subscription costs, Making it an essential tool for sales professionals across industries.



ARYTIC

- Next Gen - AI Predictive Hiring Platform designed to transform talent acquisition.
- Improves job matching, enhances employee retention, and ensures job, skill, personality, culture and team fit alignments.
- Powered with Advanced applicant tracking systems (ATS), AI Hiring Assistants, Intelligent match machine and Next Gen AI powered Smart Job cards.



Asset IQ

- AI-powered media asset insights and management platform designed for effortless extraction of valuable metadata from videos and images.
- It enables users to dive deep into media content, Identify elements of interest, and simplify the archival search process using natural language.

Technology Stack: Python, JavaScript, Django, Flask, Node.js, ReactJS, TensorFlow, PyTorch, Hugging Face Transformers, OpenCV, PostgreSQL, MongoDB, Pandas, Tableau, Apache Kafka, AWS (S3, Lambda), Google Cloud (Vision API), Docker, Kubernetes, Terraform.



C. Background and Years in Business

Provide a brief statement of your organization’s background, including: History: A summary of your organization’s history and evolution, Years in Business: The number of years your organization has been operating, and Core Values: Your organization’s mission, vision, and core values.

Esolvit Inc. is a global leader in delivering innovative information technology services and solutions to enterprises and government industries worldwide. As a Texas State HUB-certified, woman-owned, and minority-owned company, we proudly hold active certifications at the state, local, and federal levels. With over 18 years of experience, Esolvit has successfully provided high-quality solutions to government entities, earning recognition through multiple Grade A Vendor Reports for our reliability and excellence.

ESOLVIT’S CORE VALUES



D. Significant Requirements Not Met

Clearly state any significant requirements from the Scope of Work that your organization is unable to meet. Provide a rationale for why these requirements cannot be met and suggest any potential alternatives or solutions. If applicable, identify any subcontractors or third-party services that are utilized to fulfill this RFP. Provide a general explanation chart that specifies project leadership and reporting responsibilities and how the team will interface with NCTCOG and Participating Entities project management and team personnel.

Esolvit acknowledges that the project scope of work is not fully defined. As the use cases are identified and prioritized we will address any potential challenges or aspects of the project where full compliance may not be possible. Esolvit has established a **Client Engagement & Excellence Team** dedicated to NCTCOG. This team will work closely with NCTCOG to discuss possible approaches and solutions, ensuring that we continue to make progress and meet the overall goals of the project.

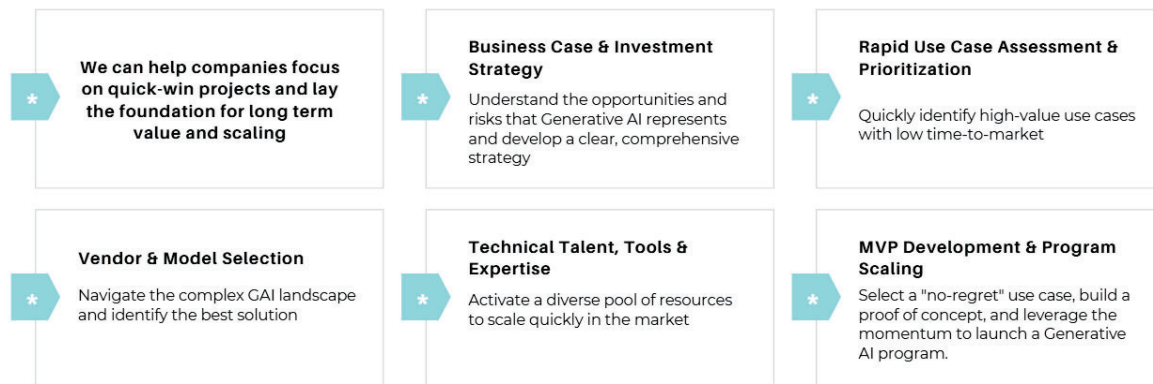
For more information on Esolvit's Client Engagement & Customer Excellence Team please refer to Section 2.2 Execution.

4. Technical Proposal

This section should constitute the major portion of the submittal. Respondents are required to clearly identify which project deliverables their proposed solution addresses (refer to Section 5.1) and detail their capabilities, knowledge, and skills related to the desired deliverables, objectives, technical requirements, and expectations as outlined in Section 5.0: Specifications. The Technical Proposal should include, but not be limited to, the following:

A. Project Deliverables

Clearly specify how your proposed solution addresses each deliverable outlined in Section 5.1, including detailed descriptions of functionalities and approaches for each challenge objective.



Here are the use cases Esolvit proposes and addresses for various NCTCOG's participating entities mentioned in Section 5.1. We have identified use cases by each department and our comprehensive technical approach in section 4B addresses the AI technology stack, our proposed methodology and leveraging industry best practices and standards, addresses each deliverable outlined in section 5.1 (5.1. - sub-sections a to n in the RFP document).

a. Administration: How can AI assist in strategic planning, policy analysis, performance tracking, and enhance decision-making processes for effective city governance?

Esolvit proposes advanced AI-driven solutions to address administrative operational challenges, enabling more efficient and effective city governance through the following capabilities:

1. Strategic Planning: Esolvit leverages AI-powered predictive analytics to transform strategic planning for city administrators, enabling data-driven and proactive decision-making. By analyzing historical data and real-time inputs, AI identifies trends and patterns to forecast population growth, housing demands, and transportation needs, supporting infrastructure development and long-term planning by zip codes, cities or municipalities. We could also do the geospatial analysis for city planning activities for zoning etc. These insights help allocate resources efficiently, prioritizing funding for high-impact projects such as expanding healthcare facilities or enhancing emergency response services. Esolvit can support disaster preparedness by modeling potential natural disasters and optimizing emergency response plans.

2. Policy Analysis: Esolvit utilizes advanced Natural Language Processing (NLP) algorithms to analyze policy, enabling administrators to make informed, data-driven decisions. By analyzing vast amounts of policy documents, community feedback, and regulatory guidelines, AI can identify inconsistencies, gaps, or overlaps in existing policies. It evaluates the effectiveness of current policies by correlating them with measurable outcomes, providing insights into what is working and what requires improvement. We can also model the potential impact of proposed policies using AI-powered simulations, helping administrators predict economic, social, and environmental effects before implementation. This ensures that new policies align with city goals and community needs, fostering inclusivity and accountability.

3. Performance Tracking: Esolvit's AI-driven performance tracking solutions streamline the monitoring of key performance indicators (KPIs) across multiple city departments. By automating the collection and analysis of performance data, we can create real-time dashboards that provide dynamic visualizations of progress and achievements. Machine learning algorithms continuously process data, offering insights into operational efficiency, project timelines, and resource allocation. This allows city leaders to quickly identify areas that may require attention, such as bottlenecks or underperforming initiatives, and make timely adjustments. By providing real-time updates, AI enhances transparency, ensuring accountability and allowing for proactive decision-making.

4. Enhanced Decision-Making: Esolvit's AI solutions enable enhanced decision-making by integrating data from diverse sources into a centralized platform. This unified approach allows city officials to leverage AI models for comprehensive scenario analysis, providing insights into the potential outcomes of various decisions. Machine learning algorithms can evaluate risks, forecast impacts, and assess resource requirements, helping leaders make informed choices. By identifying patterns in historical and real-time data, Esolvit's proprietary solutions empower officials to prioritize initiatives based on urgency, feasibility, and alignment with city goals.

By deploying these AI-driven solutions, Esolvit enables city administrations to operate more efficiently, make informed decisions, and implement policies that foster sustainable and effective governance.

b. Development Services: How can AI streamline permit applications, automate inspection scheduling, and improve communication with developers and residents?

Esolvit is committed to leveraging AI to enhance operational efficiency, transparency, and communication in development services. Our proposed solutions address the critical challenges of streamlining permit applications, automating inspection scheduling, and improving communication with developers and residents.

1. Streamlining Permit Applications: Esolvit proposes an AI-powered document processing system that uses Natural Language Processing (NLP) to automate the review and validation of permit applications. This solution ensures that submissions meet compliance requirements, significantly reducing processing times. An intelligent chatbot can be integrated into the application portal to guide applicants to the right policy and permit documents, answer frequently asked questions, and provide real-time updates on application status. We use Machine Learning (ML) algorithms to flag incomplete or incorrect submissions, ensuring fewer errors and faster approvals.

2. Automating Building Inspection Scheduling: To address challenges in scheduling, Esolvit offers an AI-driven scheduling tool that optimizes the building inspection planning. This solution analyzes factors such as inspector availability, location, priority of inspections, and historical data to create efficient schedules. Route optimization algorithms further minimize travel time for inspectors, increasing the number of inspections completed daily. Automated notifications and reminders ensure that all stakeholders are informed about scheduled inspections and any changes.

3. Improving Communication with Developers and Residents: Esolvit proposes the deployment of AI-driven automated Gen AI Agents, ensuring stakeholders remain informed and engaged through personalized emails and SMS notifications, providing real-time updates on application statuses, reminders for deadlines, and alerts for scheduled inspections eliminating the need for manual intervention. Additionally, Esolvit proposes AI-powered, user-friendly online apps where applicants can track application statuses, view inspection schedules, and communicate directly with staff. These portals feature intelligent chatbots for instant support and AI-based search functionalities, enabling users to quickly access the information they need. This integrated approach improves transparency, accessibility, and enhanced user experience for developers and residents.

Esolvit's AI solutions are designed to increase efficiency, reduce manual effort, and improve the overall experience for developers and residents.

c. Event Center: What AI-driven solutions can enhance customer engagement, streamline ticketing processes, and optimize event management?

Esolvit aims to revolutionize the operations of event centers by integrating advanced AI-driven solutions to enhance customer engagement, streamline ticketing processes, and optimize event management. These solutions will address key operational challenges while ensuring scalability, efficiency, and improved user experiences.

1. Customer Service Chat Agent: To enhance customer engagement, we propose deploying **AI-powered chatbots and virtual assistants** capable of providing real-time responses to attendee queries. These assistants can handle inquiries about event schedules, directions, and ticket purchases, as well as offer post-event support. Their 24/7 availability ensures improved customer satisfaction and seamless communication.

2. Virtual Tours: AI-enhanced augmented reality (AR) and virtual reality (VR) experiences will immerse attendees in virtual tours of the event venue, allowing potential attendees to explore seating arrangements, amenities, or exclusive areas before making a purchase. For example, a VR headset could simulate walking through the venue, viewing stages, or experiencing premium seating areas. This level of immersion helps attendees visualize the event experience, increasing their likelihood of purchasing tickets and upgrading to premium options. Digital Twins of the events can be built using these technologies.

3. Dynamic Pricing: For ticketing processes, **dynamic pricing algorithms** will be implemented to adjust ticket prices in real time based on demand, seating availability, and event timing. This

approach optimizes revenue while maintaining affordability for attendees. To prevent ticket fraud, **AI-based fraud detection systems** will be utilized to identify counterfeit tickets through purchase pattern recognition and anomaly detection. Furthermore, the integration of **AI-enabled smart ticketing platforms** will enable facial recognition or QR code technology, ensuring secure and seamless entry. These platforms will reduce wait times, enhance user experiences, and improve operational efficiency.

4. Schedule Optimization: Optimizing event management will involve leveraging **AI-powered scheduling tools** to create efficient schedules for performers, staff, and event timelines. These tools will optimize resource allocation while meeting the needs of stakeholders. Additionally, **AI-driven resource optimization analytics** will ensure efficient allocation of seating, staff, catering, and other resources based on real-time attendee data and event requirements. This ensures that resources are utilized effectively while maintaining high service standards.

d. Economic Development: What AI-driven solutions can attract investment, facilitate business development, and streamline processes for economic growth?

Esolvit proposes a variety of AI-driven solutions to foster economic development, attract investment, and streamline business development processes:

1. Investment Opportunities: AI can analyze global economic trends, local industry performance, and historical data to identify high-potential investment opportunities. By predicting the sectors with the highest growth potential, AI can help governments target relevant investors and tailor their pitches to match the needs of businesses seeking new markets. Esolvit also performs AI-powered data analytics for market analysis and business intelligence that can provide real-time insights into market trends, competition, and consumer behavior, allowing governments to make informed decisions about which industries to prioritize for development. These tools can also help identify gaps in the market that new businesses can fill, providing strategic guidance for economic planning.

2. Business Growth Potential: Esolvit's AI-driven solutions facilitate business development and streamline processes to promote economic growth and create a thriving business environment. **AI-powered business matching platforms** connect businesses with potential partners, suppliers, and customers, fostering collaboration and expanding market reach. By leveraging **predictive analytics**, businesses can analyze data like sales, customer behavior, and market trends to forecast growth potential, identify improvement areas, and craft effective expansion strategies.

3. Operational Efficiencies: To streamline processes, Esolvit proposes **AI-driven permitting and licensing systems** to automate and accelerate the approval of business permits and licenses, reducing bureaucratic delays and enabling faster business startups. Additionally, **predictive maintenance solutions** can monitor and prevent infrastructure failures, such as power outages or transportation disruptions, ensuring minimal downtime and a stable environment for business operations.

e. Finance and Budget: What AI solutions can support financial forecasting, optimize budget allocation, detect anomalies, and improve overall financial management and reporting?

1. Financial Forecasting: Esolvit can significantly enhance financial forecasting by leveraging historical data and advanced analytics techniques, such as predictive analytics and machine learning algorithms like regression models and time-series analysis. These methods identify short-term and long-term trends, adapting to changes over time. By incorporating qualitative insights from economic indicators, market sentiment, and competitive landscape, Esolvit refines forecasts for more

comprehensive financial planning. Additionally, large language models (LLMs) support this process by analyzing unstructured data, such as financial reports and news articles, to extract insights that enhance predictions. LLMs also provide real-time updates, ensuring forecasts remain adaptable and responsive to market shifts.

2. Budget Optimization: Esolvit can optimize budget allocation by analyzing historical spending patterns, resource utilization, and performance metrics. By applying machine learning models, NCTCOG's participating entities can predict the future needs of various departments and allocate funds accordingly. We leverage AI tools to assess factors like seasonality, project timelines, and departmental priorities to ensure that budgets are aligned with organizational goals and demand. Furthermore, we can continuously monitor budget performance, providing real-time adjustments based on actual spending and emerging trends.

3. Anomaly Identification: We use machine learning algorithms to analyze historical financial data, identify patterns, and spot unusual transactions or behavior that deviate from established norms. By applying techniques such as unsupervised learning, clustering, and statistical methods, we can flag potential discrepancies, fraudulent activities, or budgeting errors. These systems continuously monitor financial transactions in real-time, providing instant alerts when anomalies are detected, enabling quick intervention to mitigate risks. Additionally, we learn from historical anomalies to improve detection accuracy over time, ensuring more reliable and efficient financial oversight.

f. Human Resources (HR): How can AI solutions automate HR processes, enhance employee engagement, and transform recruitment and onboarding experiences?

Esolvit offers our patented AI-driven solution that automates HR processes, enhances employee engagement, and transforms recruitment and onboarding experiences. Our proprietary platform Arytic streamlines workflows, personalized employee experiences, and ensures efficient, data-driven talent acquisition.

1. Transforming HR with Arytic: Esolvit's Patented Next-Gen AI Predictive Hiring Platform At Esolvit, we are proud to present Arytic, our patented AI solution and proprietary intelligence that represents the pinnacle of our expertise in artificial intelligence, machine learning, and psychometrics. Designed to transform talent acquisition, Arytic improves job matching, enhances employee retention, and ensures organizational fit, making it a game-changer in the recruitment industry. Esolvit has spearheaded Arytic's development, leveraging over eight years of research, innovation, and refinement. Our team of data scientists, AI specialists, and product engineers has integrated cutting-edge AI algorithms and psychometric assessments to create a platform that not only streamlines the recruitment process but also provides deep insights into candidates' personalities, skills, and cultural alignment. Arytic stands as a testament to Esolvit's commitment to innovation and excellence in HR technology

2. AI-Driven Recruitment Automation: Arytic's AI capabilities bring efficiency and precision to the hiring process through various advanced features. Predictive Candidate Matching uses AI algorithms to analyze skills, experience, job history, and company culture fit, ensuring candidates with the highest success potential are matched to roles, reducing mismatches and improving hire quality. Resume Parsing and Screening automates the extraction of relevant details from resumes, enabling recruiters to quickly identify the most suitable candidates and save significant time. Our AI-powered chatbots interact with applicants by providing real-time updates on application status, answering FAQs, and scheduling interviews without manual intervention. Arytic also supports Diversity Hiring by leveraging AI models to analyze candidate pools and promote unbiased hiring practices, ensuring equitable representation based on skills and qualifications. Additionally, Arytic facilitates Talent Pool Creation and Management, allowing HR teams to build dynamic talent pipelines by storing and

categorizing candidates for future roles, ensuring easy access to pre-screened talent when vacancies arise.

3. Enhancing Employee Engagement: Arytic enhances employee satisfaction and performance through AI-driven insights and tailored solutions. With AI-Powered Feedback Analysis, Arytic continuously monitors employee feedback and analyzes sentiment to identify trends, engagement levels, and areas for improvement. Its Personalized Career Development feature recommends targeted training and development programs based on individual employee profiles, career aspirations, and skill gaps, enabling personalized growth plans that foster long-term loyalty and satisfaction. Engagement Surveys are automated and customized to measure morale, collect feedback, and address employee concerns promptly. Additionally, Predictive Retention Analytics leverages AI to detect early warning signs of potential employee attrition, enabling proactive measures to retain top talent.

4. Transforming Onboarding Experiences: Arytic redefines onboarding by integrating automation and personalization to enhance the new hire experience. Custom Onboarding workflows create tailored plans for each hire based on their role, department, and individual needs, reducing onboarding time and improving productivity by providing the right resources and guidance. Automated Compliance Tracking streamlines the collection and verification of documents, ensuring adherence to legal and organizational requirements while generating automated reminders and alerts to minimize manual follow-ups. With Digital Onboarding Portals, new hires gain access to self-service platforms that include training modules, organizational charts, policy documentation, and task checklists, delivering an interactive and resource-rich onboarding experience. Additionally, Virtual Onboarding Assistance utilizes AI-driven assistants to guide new hires through the process, ensuring every step is completed seamlessly.

Arytic's AI-driven modules transform the overall Human Resources processes, by streamlining recruitment workflows by automating tasks, while engagement monitoring tools track and enhance employee satisfaction. Its predictive capabilities enable the development of an end-to-end onboarding process, delivering faster, personalized experiences that reduce time-to-productivity for new hires. Additionally, Arytic provides detailed reporting and analytics dashboards, empowering HR managers with real-time insights into progress and key performance indicators (KPIs). The platform drives significant outcomes, including up to a 70% reduction in time-to-hire, improved talent retention through enhanced engagement, and actionable insights into market trends for informed HR decision-making.

g. Information Technology and Cybersecurity (IT): How can AI solutions alleviate the workload of IT personnel? Can they automate Help Desk support, streamline processes, create documentation for IT service domain knowledge, assist with cybersecurity threat detection, or take a proactive role in auditing and cyber defense?

1. Help Desk Automation: Esolvit proposes AI-driven solutions to automate Help Desk support, significantly reducing the workload of IT personnel. AI-powered chatbots can be implemented to handle common IT issues such as password resets, software installations, and basic troubleshooting, enabling immediate assistance. Additionally, Esolvit's AI can automate incident ticketing by intelligently creating and prioritizing tickets based on user inquiries and system logs, streamlining the incident management process. This results in a more efficient IT support system, reducing response times and ensuring timely resolution of technical issues.

2. Streamline Processes: Esolvit's AI solutions can automate the creation and updating of documentation for IT service domain knowledge, ensuring that accurate and current information is always available. AI-powered knowledge base generation tools can automatically generate technical

documentation, such as user manuals, troubleshooting guides, and how-to articles, based on system updates, support tickets, and frequently asked questions. This ensures that both IT staff and end-users have easy access to reliable resources, improving efficiency, reducing errors, and enhancing overall service delivery.

3. Cybersecurity Threat Detection: We leverage advanced threat intelligence and analysis. By analyzing security logs, network traffic, and threat intelligence feeds, AI can detect cyber threats in real-time, including malware, phishing attacks, and other malicious activities. Additionally, Esolvit specializes in advanced penetration testing to secure IT infrastructures. Our ethical hackers utilize industry-leading tools and techniques to simulate real-world cyberattacks, identify vulnerabilities, and strengthen defenses to minimize security risks.

Cybersecurity & Penetration Testing Services:

- **Vulnerability Assessment Tools:** Comprehensive testing with Nessus, QualysGuard, Nmap, Wireshark, Burp Suite, OWASP ZAP, Acunetix, AWS CloudTrail, and more.
- **Network Security Testing:** Internal and external networks, wireless systems, firewalls, VPNs, and regulatory compliance (ISO 27001, PCI DSS, HIPAA, GDPR). Simulations include malware, ransomware, and DDoS attacks.
- **Web Application Testing:** Static and dynamic analysis, SQL injection, XSS, CSRF, and broken authentication testing.
- **Mobile Application Security:** Complete assessments for Android/iOS apps, including network security, data protection, authentication, and third-party dependencies.
- **Cloud Security Testing:** Evaluation of cloud-hosted infrastructures, APIs, access management, and data protection.
- **API Security Testing:** Real-world threat simulations, OWASP API security checks, and breach prevention strategies.

h. Library Services: What AI technologies can provide a personalized user experience, improve catalog searches, and offer automated assistance?

To enhance the functionality and accessibility of library service and meet the evolving needs of users, we propose a suite of AI-driven solutions designed to personalize user experiences, streamline catalog searches, and deliver automated assistance. Below is a detailed overview of the proposed AI solutions and their benefits.

1. Personalized Recommendations: Leveraging AI-powered recommendation systems, the library can provide a highly personalized user experience by analyzing individual user behavior, borrowing history, and preferences. These systems will offer tailored suggestions for books, journals, multimedia, and other resources, ensuring that each user discovers materials most relevant to their interests. This will encourage deeper engagement with the library's offerings and foster a stronger connection between users and the institution.

2. Smart Catalog Search: Using natural language processing (NLP) and machine learning, we will develop an intelligent catalog search system that transforms the way users explore library resources. This system will go beyond basic keyword matching, incorporating advanced features such as conversational search capabilities, contextual understanding, and semantic matching. Users will be able to search in a more intuitive manner, even with limited expertise in constructing queries. This approach will significantly improve the accuracy and relevance of search results, making it easier to locate and access the resources they need.

3. Automated Administrative Tasks: Routine administrative processes, such as cataloging new resources, sending overdue reminders, and tracking resource usage patterns, can be time-consuming

for library staff. Through machine learning algorithms, AI can scan and interpret metadata like author names, titles, publication dates etc automatically assigning correct classifications, tags, and categories. We can automate overdue reminder notifications by tracking due dates and sending personalized emails or SMS alerts, customized based on user behavior, and escalated according to the duration of overdue items. Routine communication tasks can also be streamlined with AI-driven chatbots or virtual assistants, which handle common queries and assist with account management, reducing staff workload.

i. Municipal Courts: How can AI support efficient case management, automate routine inquiries, and improve citizens' access to legal information?

Esolvit offers comprehensive AI-driven solutions to overcome operational challenges in municipal courts by improving efficiency, automating processes, and enhancing accessibility.

1. AI-Powered Case Management Systems: streamline the organization and tracking of cases, automate hearing schedules, and manage legal documentation seamlessly. These systems use advanced algorithms to categorize and prioritize cases based on urgency, complexity, and other predefined criteria, ensuring that critical matters are addressed promptly. They can automate hearing schedules by analyzing case data, court availability, and resource allocation, creating optimized timetables that reduce scheduling conflicts and minimize delays. Additionally, these systems manage legal documentation seamlessly by digitizing records, enabling secure storage, quick retrieval, and easy sharing among stakeholders. By integrating intelligent search capabilities, they allow court staff to locate relevant case files or precedents real-time. This enhances efficiency and reduces administrative workloads.

2. AI-Chat Agents: To manage routine inquiries efficiently, Esolvit integrates AI-driven chatbots and virtual assistants designed to deliver instant, real-time responses to common questions, such as court hours, payment methods, and case status updates. We use Natural Language Processing (NLP) capabilities to understand and respond accurately to user queries, offering a seamless and user-friendly experience. Our chatbots offer document summarization, contextual retrieval and Trend analysis and insights. We use AI to automatically identify and highlight key sections of documents. This is particularly useful for lengthy reports or cases where decision-makers need to quickly understand essential content without reading the entire text. By aggregating and analyzing content across documents, we help identify trends and provide insights that are not immediately obvious, aiding in strategic decision-making.

3. Citizens Access: For improving citizens' access to legal information, Esolvit leverages advanced Natural Language Processing (NLP) algorithms to create user-friendly online portals that democratize access to legal resources. These intuitive portals provide citizens with seamless access to legal documents, explain complex court procedures in plain and comprehensible language, and deliver personalized guidance tailored to individual queries. By integrating these AI-driven solutions, Esolvit enables municipal courts to simplify legal processes, enhance transparency, and empower citizens with the knowledge they need to navigate the judicial system effectively. This approach not only boosts operational efficiency but also strengthens citizen engagement and ensures equitable access to justice for all members of the community.

j. Parks and Recreation: What AI solutions can enhance program management, registration processes, and personalized recommendations for recreational activities?

Esolvit proposes a range of AI-driven solutions that address the operational challenges faced by parks and recreation departments in program management, registration processes, and personalized recommendations for recreational activities. Esolvit leverages AI to optimize parks and recreation

management by enhancing predictive demand forecasting, automating scheduling, and mitigating safety risks. We use AI to analyze historical registration data, weather patterns, and community demographics to accurately predict demand for various programs, allowing for better resource planning. It ensures that popular activities are adequately staffed and equipped, while minimizing resources for less in-demand programs. Additionally, using AI, we automate the scheduling of recreational programs and allocates resources efficiently, factoring in demand forecasts, instructor availability, and facility utilization to avoid overbooking and maximize resource use. Esolvit's AI solutions also analyze real-time data to identify potential safety hazards in parks, enabling proactive risk mitigation and improving safety protocols to ensure a secure environment for all visitors.

1. Registration Automation: Esolvit streamlines registration processes by implementing AI-powered registration portals and chatbot assistance. The user-friendly online portals feature automated form completion, personalized activity recommendations, manage waitlists and secure online payment options, enhancing the registration experience for residents.

k. Parks Maintenance: How can AI improve maintenance scheduling, optimize resource allocation, and facilitate better communication with residents?

1. Maintenance Scheduling: Esolvit enhances park maintenance operations by implementing AI-driven solutions that optimize scheduling and resource allocation. Predictive maintenance algorithms analyze historical data, weather patterns, and park usage to forecast potential equipment failures and identify areas that are susceptible to damage. By proactively scheduling preventative maintenance, we help parks minimize costly emergency repairs and ensure that facilities remain in optimal condition. Additionally, we leverage AI to automate the creation of work orders, prioritizing tasks based on factors such as urgency, safety concerns, and resource availability.

2. Resource Optimization: To optimize resource allocation in park maintenance we utilize historical data, weather forecasts, and real-time park usage patterns, using AI to predict maintenance demands and resource requirements, allowing for proactive scheduling and allocation of personnel, equipment, and materials. This predictive approach ensures that maintenance activities are aligned with park needs, reducing downtime and improving operational readiness. Additionally, we optimize inventory management by monitoring stock levels of maintenance supplies and adjusting them dynamically based on usage trends, reducing waste and ensuring materials are always available when needed.

3. Resident Communications: To facilitate better communication with residents in park maintenance, Esolvit proposes the integration of AI-powered platforms designed to enhance engagement, transparency, and responsiveness. Through the deployment of an AI-driven communication system, residents will be able to receive real-time updates on park maintenance schedules, closures, and upcoming projects via personalized notifications sent through email, SMS, or mobile apps.

m. Utility Billing: How can AI automate billing inquiries, streamline payment processes, and provide real-time updates on utility usage?

1. Utility AI Assistant: Esolvit's AI Assistant provides customers and customer support teams real-time answers, insights, and recommendations about residential energy use. Interactive features are designed to improve customer satisfaction scores, reduce customer support calls, and increase enrollment in utility programs.

2. AI Advisor: Esolvit can model the impact of buying an EV, enrolling in a new rate plan, or installing solar, so that customers are empowered to have their own online personal energy advisor to help

make the best possible energy decisions to lower their bills and improve their energy experience. This uses the approach of predictive analytics and recommendation engines based on AI.

3. Customer Service Chat Agent: Esolvit can enhance the billing process by automating various aspects, from handling common inquiries to resolving disputes. AI-powered chatbots and virtual assistants can interact with customers through various channels, understand their queries using natural language processing, and provide instant, personalized responses using Generative AI. They can automate bill explanations, analyze usage data to identify discrepancies. Furthermore, AI enables 24/7 support, streamlines dispute resolution without the need for human intervention.

4. Payment Optimization: Esolvit can streamline payment processes by automating billing, optimizing payment methods, and offering personalized payment plans. Through machine learning, AI can predict optimal payment times based on customer behavior and usage patterns, automatically setting up recurring payments and reducing late fees. It can integrate with payment gateways to process transactions quickly and accurately, ensuring seamless billing experiences for customers. Additionally, AI-powered systems can offer flexibility by analyzing real-time usage data to recommend customized payment plans, adjusting bills according to consumption, and providing dynamic payment options.

5. Smart Meters: Esolvit can provide real-time updates on utility usage by leveraging smart meters and sensors integrated with machine learning algorithms. These systems continuously monitor energy, water, or gas consumption and transmit the data to a centralized platform. AI analyzes this data in real-time to generate insights into usage patterns, detect anomalies, and send instant notifications to both customers and utility providers about unusual consumption or potential issues. By utilizing predictive analytics, we can forecast future usage trends, helping customers make informed decisions about their consumption and enabling utilities to optimize resource distribution.

Esolvit is continuously exploring innovative solutions and committed to leveraging AI's full potential to offer customized and scalable solutions that cater to the unique needs of each utility provider and their customers.

n. Visitors Bureau: How can AI enhance visitor engagement, provide personalized recommendations, and improve tourism management?

1. AI-powered Chat Agents: Esolvit enhances visitor engagement by integrating AI-powered solutions that provide a seamless and personalized experience. AI-powered chatbots on the bureau's website and social media platforms offer round-the-clock assistance, answering visitor inquiries and providing tailored travel recommendations. Leveraging AI, personalized travel itineraries can be created based on visitors' preferences, travel dates, and budget, including suggestions for nearby attractions, restaurants, and accommodations. Additionally, interactive maps and virtual tours, powered by AI-driven image recognition and computer vision, provide immersive and informative experiences, allowing potential visitors to explore the destination before arrival which ensures a more engaging and tailored experience for visitors, driving greater interest and satisfaction.

2. Recommendations: Esolvit enhances personalized recommendations by leveraging predictive analytics and sentiment analysis to provide tailored experiences for visitors. By analyzing visitor data, such as website browsing history and social media activity, AI can predict individual interests and preferences, allowing the bureau to offer highly targeted recommendations for attractions, events, and experiences. Additionally, sentiment analysis of social media and online reviews helps identify visitor feedback, uncovering both positive and negative sentiment. This allows the bureau to make data-driven decisions to improve the destination's offerings, ensuring greater satisfaction and engagement for future visitors.

3. Tourism Management: Furthermore, Esolvit's AI solutions can assist in crisis management by monitoring social media and news feeds for emerging threats or public health concerns, ensuring rapid dissemination of critical information to both visitors and stakeholders. We use sentiment analysis tools to gauge visitor feedback through online reviews and social media, enabling the bureau to quickly address concerns and continuously improve offerings. Lastly, our AI-driven data analysis can empower the bureau to make informed, data-backed decisions, ultimately driving tourism growth, optimizing operations, and enhancing the overall visitor experience.

B. Technical Approach

Detail the technical approach for implementing the proposed solution, including: Methodologies for design and development, Integration strategies with existing government systems, and User-friendliness and accessibility considerations.

Esolvit offers a comprehensive suite of AI solutions tailored to address the unique needs of government agencies like NCTCOG. We leverage cutting-edge technologies like Large Language Models (LLMs) and Foundation Models (FMs), combined with Natural Language Processing (NLP), Computer Vision, and Deep Learning, to deliver impactful solutions. Our approach emphasizes data quality, ethical considerations, and continuous improvement. We prioritize seamless integration with existing systems, ensuring user-friendliness and accessibility for all. By combining advanced AI techniques with a focus on user experience and data security, Esolvit empowers NCTCOG's government agencies to deliver real-world benefits such as enhanced efficiency, improved decision-making, deliver better services to their constituents and streamlined citizen experiences. Furthermore, our solutions offer interoperability, ensuring compatibility across various platforms, with the ability to integrate easily with existing technology stack and systems, while upholding the highest standards of quality control for consistent, reliable performance. To implement the proposed AI solutions, we adopt a comprehensive technical approach encompassing methodologies for design and development, integration strategies with existing government systems, and a focus on user-friendliness, responsiveness and accessibility.

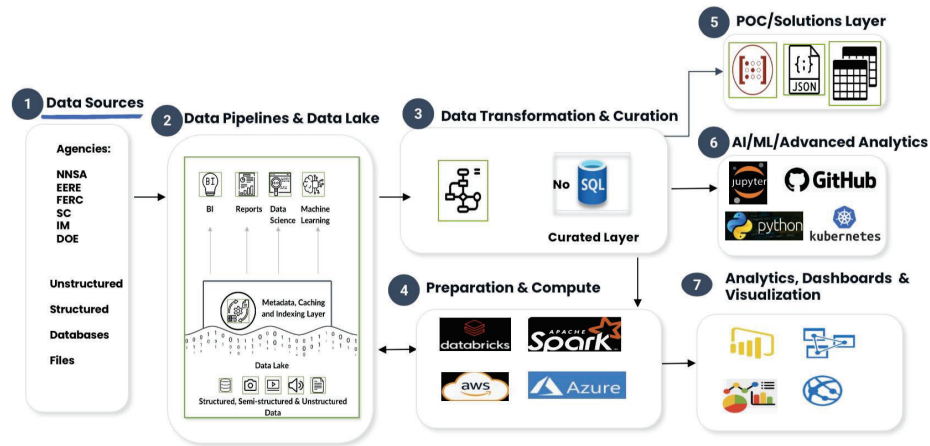
Methodologies for AI Solutions Design and Development: Our design approach leverages AI techniques such as Transformers (e.g., GPT-3, LaMDA) and Generative Adversarial Networks (GANs) for tasks like text and image generation, classification, and language understanding. Esolvit excels at delivering tailored AI solutions that address the specific challenges faced by NCTCOG's participating entities. Our solutions are highly scalable and adaptable, seamlessly integrating with existing government IT systems. By leveraging real-time data analytics, we empower clients to gain valuable insights, make informed decisions, and optimize their operations. Data security and privacy are paramount at Esolvit. We prioritize the protection of sensitive information by implementing robust protocols that adhere to the highest industry standards, ensuring the trust and confidence of our clients and their constituents.

Core Technologies: Esolvit leverages a diverse range of cutting-edge AI technologies to deliver innovative solutions that drive impactful outcomes. Foundation Models (FMs) serve as the core reasoning engine, enabling human-like comprehension and reasoning capabilities. We carefully select from a variety of FMs, prioritizing performance, cost-effectiveness, and a seamless user experience. Natural Language Processing (NLP) techniques empower AI systems to understand and process human language effectively, while Computer Vision capabilities enable tasks like image classification and analysis, valuable for applications such as document processing and visual inspection. Large Language Models (LLMs), such as GPT-3 and LaMDA, excel at tasks like text generation, classification, and question answering. Deep learning algorithms are particularly adept at handling complex data patterns, making them suitable for tasks like image recognition and anomaly detection. Finally, machine learning algorithms learn from data to make predictions or classifications,

proving valuable for tasks like fraud detection and risk assessment. This robust technology stack allows Esolvit to deliver intelligent solutions that optimize operations, enhance decision-making, and empower our clients to achieve their strategic goals. Esolvit focuses on delivering impactful outcomes, cost-effectiveness, user experience, and achieving client goals for NCTCOG's participating entities.

AI Development Process

- **Methodology:** Our design approach utilizes advanced AI techniques like transformers and generative adversarial networks (GANs) for various tasks.
- **Programming Language:** Python serves as the primary language for development due to its versatility and extensive libraries like PyTorch, TensorFlow, and spaCy. Python is suitable for different tasks like data analysis, natural language processing, machine learning, machine learning, and so on. Important AI libraries in Python include PyTorch, scikit-learn, TensorFlow, spaCy, and so on.
- **Data Management and Engineering:** We emphasize data quality through robust data collection, preprocessing, and cleaning techniques. Data preprocessing mostly involves transforming, cleaning, organizing, and managing your data to make it ideal to train an AI model efficiently. Data processing is important as the quality of your data impacts the overall performance of your AI model directly.
- **Algorithm Selection:** The choice of algorithms depends on the specific project requirements. We offer a range of algorithms, including neural networks, K-Nearest Neighbors (KNN), and Random Forests.
- **Model Training and Evaluation:** Rigorous training with well-defined metrics ensures optimal model performance. AI model training plays an important role in this AI development process. This stage involves feeding an AI algorithm and adjusting and managing its parameters to eliminate errors. As per statistics, most data scientists utilize 80% of data sets to train AI models. The remaining 20% is utilized to assert the predictive capabilities of the model. During the training phase, you have to split all your data into training & validation sets for evaluating the performance of your model. Apart from that, you need to select proper metrics to measure how your model works. Different metrics may include precision, accuracy, recall, F1-score, etc.
- **Deployment and Monitoring/ML Ops:** We deploy AI models seamlessly into existing systems, while continuously monitoring and refining performance. Once we train the model and are satisfied with its performance, we start deploying it for real-time purposes. While deploying the AI systems, we consider security, scalability, and performance. We also track and monitor the performance of the models in a production environment & retain it with data to maintain its precision. At Esolvit, we feel that deployment isn't the end step of building the AI system. The ongoing optimization is a continuous process that requires monitoring your AI system's performance and adaptation to changing conditions to continuously track performance metrics like accuracy and response time, to use user feedback and new data to refine the AI system and address ethical concerns, maintain transparency and update the model to adapt to new challenges and technologies.
- **Integration and User Experience:** We ensure seamless integration with existing government systems through well-defined APIs and data pipelines. User-friendly interfaces and AI-powered tools like chatbots and personalized dashboards will be implemented for both government personnel and citizens. We cater to diverse populations by providing multilingual support for broader accessibility.



Best Practices: Esolvit adheres to rigorous best practices in AI development. We prioritize the use of high-quality, relevant data to train robust and reliable AI models. Continuous improvement is central to our approach, with regular model evaluation and refinement to ensure ongoing accuracy and performance. Ethical considerations, such as transparency, accountability, and data privacy, are embedded throughout the entire development lifecycle. We maintain strict adherence to all relevant regulations and legal requirements. Finally, comprehensive documentation is maintained throughout the project, ensuring reproducibility and facilitating seamless knowledge transfer within our organization.

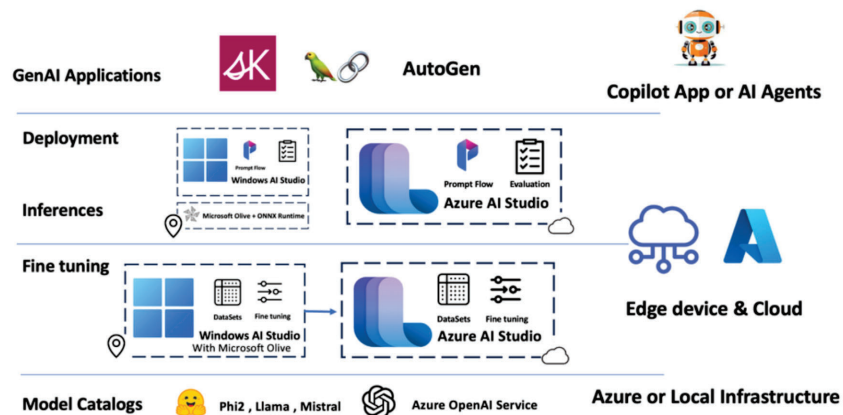
LLM Capabilities: At Esolvit, we offer unprecedented capabilities, leveraging LLMs in summarizing complex information, inferring meaning from text, and even engaging in nuanced, context-aware conversations. We use advanced concepts like Structural Prompting and Retrieval Augmented Generation (RAG), underscoring the innovative ways in which LLMs can be tailored to specific tasks. The future is moving towards AI agents, which will be the native product form in this new era. We will help NCTCOG's participating entities in solving the business use cases using an AI Agentic approach,

We use LLMs for the following:

- **Summarization:** Generate summaries of factual topics, extract key points, or tailor summaries to specific areas of focus.
- **Inference:** Analyze text data to infer sentiment, identify emotions, recognize entities, and understand topics.
- **Transformation:** Perform tasks like translation, tone adjustment, format conversion, and spell/grammar correction.
- **Expansion:** Generate creative text formats, enhance existing content, or complete unfinished thoughts.
- **Response Generation:** Facilitate conversations, answer knowledge-based questions, and provide informative responses.
- **Encoding:** Obtain universal text embeddings for various NLP applications.

Generative AI Techniques: We leverage techniques like fine-tuning and Retrieval-Augmented Generation (RAG) to enhance generative AI applications. Pre-trained models are fine-tuned for specific tasks, ensuring optimal performance and tailored outputs. Retrieval-Augmented Generation (RAG) integrates relevant data from organizational databases with the LLM's knowledge base, resulting in more accurate and contextually relevant outputs. For generative AI applications, we will use fine-tuning and Retrieval-Augmented Generation (RAG) to refine model outputs for high-quality, contextually relevant results. Fine-tuning involves adjusting pre-trained models to better suit specific

tasks, while RAG will enhance generative processes by combining relevant data retrieved from organizational databases to ensure accuracy. Depending on the project type, we will select suitable AI algorithms like decision trees, regression models, or neural networks, tailored for machine learning or deep learning applications. The development will also include robust data preprocessing to ensure clean and structured data for optimal model performance. RAG enables LLMs access to external knowledge. This is achieved by supplementing the LLM's inherent knowledge base with information from external sources. Incorporating RAG into an LLM-driven question-answering system offers two significant advantages. Firstly, it guarantees that the model leverages the latest and most accurate data available. Secondly, it provides users with transparency by granting access to the sources used by the model. This transparency is crucial as it allows users to verify the accuracy of the information provided by the model, thereby fostering trust in its responses. Foundation Models (FMs) serve as the brain of the system, capable of reasoning similar to humans. We choose various FMs based on output quality, modalities, context window size, cost, and latency. Depending on the use case, we also recommend proprietary FMs created by vendors such as Open AI, Anthropic, or Cohere, host one of many open-source FMs, or even train our own model in certain cases. These decisions will be driven by the business use cases.



Integration Strategies with Existing Government Systems: Esolvit's proposed solutions will integrate seamlessly with existing government systems through well-defined APIs and data pipelines. We ensure compatibility with legacy systems by leveraging middleware technologies that bridge new AI capabilities with current infrastructures. For systems requiring real-time data, we will implement efficient, scalable models that interact with real-time databases, ensuring smooth data flow and up-to-date information retrieval. Our integration will follow best practices in system architecture, prioritizing security, scalability, and ease of use, ensuring minimal disruption during the implementation phase.

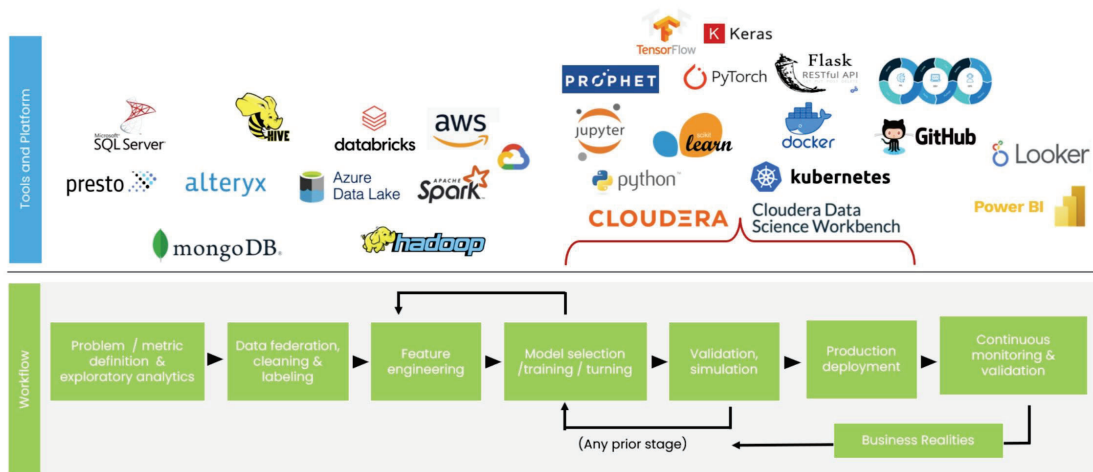
User-Friendliness and Accessibility Considerations: At Esolvit, user experience is a key priority, ensuring that AI-powered interfaces are intuitive and accessible for both government personnel and citizens. We will incorporate AI-driven tools like chatbots and personalized dashboards that provide easy access to information and simplify processes like permit applications, ticketing, and inquiries. Additionally, we will focus on ensuring the AI model's output is clear and understandable, providing users with concise, actionable insights and allowing non-technical users to interact with the system effortlessly. To further enhance accessibility, we will provide multilingual support, ensuring broader access to services for diverse populations. By combining cutting-edge AI techniques with seamless integration and a focus on user-centered design, our approach will address both the technical and human aspects of implementing AI in government services.

AI Technology Stack: Building a generative AI solution involves using a robust and versatile tech stack to ensure efficiency, scalability, and high performance. Here's a comprehensive guide to the right tools and technologies required to build an efficient generative AI solution:

Here is Esolvit's standard AI technology stack for the development and deployment of AI Solutions for NCTCOG's participating entities. This stack leverages industry-leading tools and technologies to ensure optimal performance, scalability, and maintainability.

Core Technologies:

- **Programming Language:** Python's versatility, extensive libraries (NumPy, Pandas, scikit-learn), and strong community support make it the preferred language for AI/ML development.
- **Deep Learning Frameworks: PyTorch/TensorFlow:** These frameworks provide comprehensive tools for building, training, and deploying neural networks, offering flexibility, scalability, and access to cutting-edge research. PyTorch is ideal for research and small-scale projects prioritizing flexibility, experimentation and quick editing capabilities for models. TensorFlow is ideal for large-scale projects and production environments that require high-performance and scalable models.
- **Generative Model Architectures: GANs (Generative Adversarial Networks) / VAEs (Variational Autoencoders):** These architectures are essential for developing sophisticated generative models capable of producing high-quality outputs, such as realistic images, text, or music.



Data Handling & Processing

- **Data Processing Libraries:** NumPy, Pandas, spaCy, and NLTK will be utilized for efficient data manipulation, cleaning, preprocessing, and feature engineering.
- **Data Storage:** Databases like MongoDB or PostgreSQL will be considered for robust data storage and retrieval, accommodating both structured and unstructured data.

Infrastructure & Deployment

- **Cloud Services:** AWS, Azure, or Google Cloud will be evaluated for their scalability, cost-effectiveness, and ability to support the project's specific needs.
- **Model Deployment:**
 - **TensorFlow Serving/PyTorch Serve:** For efficient model serving and inference.
 - **Docker/Kubernetes:** For containerization and orchestration of model deployment and scaling.
 - **Web Frameworks:** Flask or FastAPI for developing RESTful APIs for model integration.

Development & Operations

- **Version Control:** GitHub or GitLab will be used for code versioning, collaboration, and tracking development progress.
- **Continuous Integration/Continuous Deployment (CI/CD):** Implementing CI/CD pipelines will ensure rapid and reliable model deployment and updates.
- **Automated Testing:** PyTest will be utilized to write and execute automated tests to ensure model accuracy, reliability, and robustness.

Monitoring & Maintenance

- **Experiment Tracking:** Tools like TensorBoard or MLflow will be used to track experiments, visualize results, and compare model performance.
- **Model Monitoring:** Regular monitoring of model performance in production will be implemented to identify and address potential issues such as data drift or performance degradation.

Visualization & Communication

- **Data Visualization:** Matplotlib, Seaborn, and Plotly will be used to create informative visualizations for data exploration, model analysis, and communication of results. We can also use data visualization tools like Microsoft PowerBI, Tableau, Looker etc. depending on the technology stack affinity of each of the NCTCOG's participating entities.

This comprehensive tech stack ensures that you have the right tools and technologies to build, deploy, and maintain a high-performance generative AI solution, addressing various aspects from data processing to deployment, visualization, and version control.

C. Performance Metrics

Describe how you will measure success and performance, including key performance indicators (KPIs) for each deliverable. Include approaches to ensure accuracy, reliability, and continuous improvement of the AI solutions.

To measure the success and performance of the proposed AI solutions, we will establish key performance indicators (KPIs) for each deliverable, focusing on accuracy, efficiency, user engagement, system reliability, and integration success. Metrics such as F1-score, recall, and precision will be used to assess the accuracy of AI models in tasks like image classification, sentiment analysis, and text generation, while response time and efficiency will measure real-time applications like automated support and chatbots. User engagement metrics, such as retention and satisfaction, will track the effectiveness of personalized recommendations and interactions. Additionally, system uptime and error rates will be monitored to ensure reliability, and the success of integration with existing systems will be evaluated based on data synchronization accuracy and minimal disruptions. To ensure continuous improvement, we will implement robust strategies such as regular data audits, ongoing model performance monitoring, and feedback loops that incorporate user input for model refinements. Incremental learning techniques will allow models to adapt to new data, while quality assurance testing, including A/B testing and stress testing, will ensure the accuracy, reliability, and effectiveness of AI systems over time. We will also test for any model hallucinations, handle bias mitigation and make sure that the models are continuously retrained for sustained accurate performance.

D. Risk Management

Outline any potential risks associated with the proposed solution and describe your strategies for mitigating these risks.

Esolvit recognizes several potential risks associated with implementing AI solutions, and we have developed strategies to mitigate these risks effectively. One of the primary risks is data security, particularly with sensitive information. To mitigate this, we implement strong encryption, access controls, and intrusion detection systems, alongside conducting regular penetration testing to identify vulnerabilities. Another potential risk is non-compliance with data privacy regulations, such as GDPR and HIPAA. To address this, we ensure that all AI solutions adhere to relevant data protection laws, including clear documentation of data handling practices, data retention policies, and incident response procedures. Ethical concerns related to AI decision-making are also a risk, and we mitigate this by developing robust AI governance frameworks that include transparency, accountability, and fairness in AI model training and operation. Additionally, integration issues with existing government systems can arise, so we ensure seamless integration through standard data formats, compatibility checks, and extensive testing before deployment. Lastly, user adoption and accessibility risks are mitigated by prioritizing user-friendly interfaces, ensuring 508 compliance, and providing comprehensive training and support to end-users. Through these strategies, Esolvit effectively manages and mitigates potential risks, ensuring the successful implementation and continued success of AI solutions.

E. Compliance and Standards

Confirm adherence to relevant regulations and standards, including data privacy laws (e.g., GDPR, HIPAA), and detail how your solution will maintain compliance.

Esolvit holds certifications from the International Organization for Standardization ISO 20000-1:2018, and ISO 27001:2022 all of which exemplify our commitment to quality and security and specifically for the scope of service in AI software development and cybersecurity, further highlighting our dedication to excellence in these critical domains.

Esolvit is committed to adhering to industry standards and regulations, ensuring that our AI solutions comply with relevant data privacy laws, including GDPR, HIPAA, and equivalent local regulations. We prioritize data consistency and compatibility across different systems by establishing strict data standards and formats.

Esolvit implements strong security measures, including encryption, access controls, and intrusion detection systems, to protect sensitive data, and we conduct regular penetration testing to identify and mitigate vulnerabilities. Our comprehensive documentation outlines the responsibilities of all parties involved in data processing, specifies the purpose and categories of personal data, and includes data retention, deletion policies, and incident response procedures. Furthermore, we adhere to 508 compliance testing to ensure accessibility, and we incorporate secure coding practices, maintain a robust cyber security posture and vulnerability assessments to address security risks.

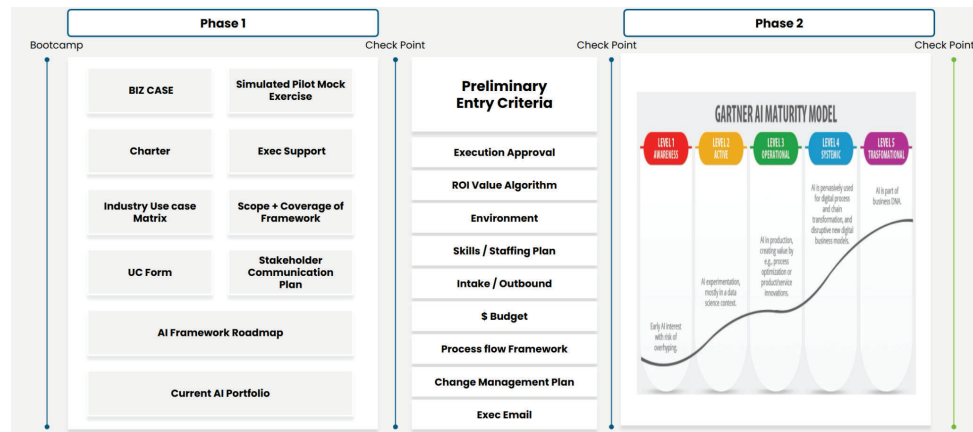
F. Scope of Work

Here is how Esolvit addresses all the questions and points mentioned in Section 5.2 regarding scope of work, integration, training and maintenance.

Esolvit collaborates closely with your organization to address unique business challenges by gathering insights and establishing tailored solutions. Through workshops, interviews, and surveys with stakeholders, we analyze current processes, solutions, and technology to identify areas for innovation. User feedback helps us evaluate gaps, pain points, and opportunities for improvement, while benchmarking industry best practices and identifying AI use cases that deliver significant value. Our strategic planning and AI advisory services assist organizations in assessing their AI readiness, developing roadmaps for AI adoption, and staying ahead of evolving technologies and data trends.

Once use cases are defined, we design a scalable architecture aligned with your long-term goals. By focusing on optimizing processes and improving efficiency, we develop integration strategies that seamlessly align with existing systems, minimizing technical hurdles. Our approach empowers your organization to unlock AI's transformative potential and achieve sustainable success.

Below is a sample high-level initial roadmap for reference:



We foster strong partnerships by ensuring alignment, transparency, and mutual success. Our process includes open communication channels, periodic progress reports, and a dedicated account manager for efficient support and issue resolution. Esolvit offers comprehensive training programs to equip teams with the skills needed to adopt and sustain AI-driven solutions. Training covers both foundational AI knowledge and practical implementation, with options for on-site, virtual, and blended sessions. Our knowledge transfer plan ensures your team can independently manage, enhance, and innovate AI systems, aligned with your strategic business goals.

We provide proactive support and maintenance services, including 24/7 system monitoring, routine updates, and security patches. Our team fine-tunes AI models to adapt to changing data and requirements, ensuring systems remain secure and efficient. We prioritize ethical AI practices through diverse teams and review boards, ensuring compliance with industry standards. We prioritize data protection with robust security measures, encryption, and compliance with industry regulations, while also promoting responsible AI operations through ethical guidelines, risk management, and bias mitigation.

G. Technical Requirements

Here is how Esolvit addresses all the questions and points mentioned in Section 5.3 regarding technical requirements, scalability, algorithm transparency, data security and privacy, NLP, interoperability and quality control.

Esolvit specializes in developing AI solutions that address the unique business challenges of NCTCOG's participating entities. Esolvit boasts deep expertise in the public sector, enabling us to identify industry-specific challenges and develop customized AI systems aligned with each organization's unique objectives. Our solutions encompass a wide range, from automating repetitive tasks and processing large datasets to providing real-time analytics for informed decision-making. We prioritize scalability, carefully evaluating computing resources and infrastructure to accommodate fluctuating data volumes and interaction levels.

Esolvit ensures that its AI solutions are designed with scalability as a core feature, enabling them to handle fluctuating data volumes and interaction levels efficiently, regardless of how rapidly these demands change. Our approach begins with evaluating the availability of computing resources, such

as CPUs and GPUs, to support AI workloads. We assess whether cloud-based solutions or on-premise infrastructure is better suited for the organization's needs while considering storage capacities, including data lakes and warehouses, to manage and process large datasets effectively. Additionally, we evaluate network infrastructure to ensure real-time data transfer, high-speed connections, and low-latency communication for seamless performance.

Our NLP capabilities enable our systems to understand and respond to a wide range of inquiries with precision, fostering meaningful interactions and deriving significant business value. Beyond core offerings, Esolvit provides a wide array of value-added solutions, including machine learning, deep learning, generative AI, and AI-powered voice solutions. We rigorously measure accuracy using key performance indicators and employ advanced optimization techniques to enhance performance.

Transparency and fairness are core to our approach. We prioritize bias detection, conduct regular audits, and ensure equitable outcomes for all users. Continuous improvement is essential, with feedback loops and adaptive techniques allowing algorithms to evolve based on user interactions and feedback.

Esolvit designs solutions with high interoperability, adhering to open standards and ensuring seamless integration with existing digital infrastructure. Our technology adheres to open standards, such as RESTful APIs, JSON, and XML, facilitating smooth interaction with current systems and enabling compatibility across diverse platforms. By leveraging robust API capabilities and ensuring data format compatibility, our solutions exchange data effectively while maintaining consistency and accuracy. Robust quality control measures, including multi-layered testing and automated tools, ensure that our solutions meet and exceed performance expectations.

Esolvit implements robust quality control measures and validation processes to ensure that our solutions meet and exceed performance expectations. Our multi-layered testing strategy includes unit testing, integration testing, system testing, and end-to-end testing to validate each component. To enhance quality, we utilize automated tools that monitor data quality, validate system outputs, and identify discrepancies in real time. Regular automated regression tests ensure new updates do not compromise existing functionality.

H. Data Governance

Here is how Esolvit addresses all the questions and points mentioned in Section 5.4.1 regarding data governance.

Esolvit ensures data integrity and accuracy by implementing robust validation rules across all processes. These rules verify the accuracy, format, and completeness of data before processing or storage. Input validation checks data for accuracy, type, format, and range, while database constraint, and foreign key constraints maintain consistency within the database. Automated tests, including unit, integration, and regression tests, are deployed to verify data handling logic and prevent errors.

During the Extract, Transform, and Load (ETL) process, transformation rules cleanse and validate data, with reports generated to identify rejected or modified records. Reconciliation reports verify data accuracy post-processing. Error correction protocols, such as automated workflows for formatting issues and manual review checkpoints for critical systems, safeguard data integrity. Rollback mechanisms restore data to a previous stable state in case of incorrect updates.

Esolvit adheres to data privacy laws, including GDPR and CCPA, by implementing measures like data anonymization and pseudonymization. Clear processes for obtaining and documenting user consent ensure transparency. For AI projects, we conduct thorough assessments to ensure compliance with

applicable data privacy laws and provide a Data Protection Impact Assessment (DPIA) that outlines risks and mitigation measures.

To secure sensitive data, Esolvit implements robust data access controls based on role-based access control (RBAC) and multi-factor authentication (MFA). These measures ensure that data access is restricted to authorized personnel and provide an additional layer of security. Comprehensive data retention policies define retention periods, and secure disposal methods ensure data is irretrievably deleted when no longer needed.

Esolvit also implements regular auditing and monitoring practices, including logging mechanisms to track data access, modifications, and deletions. Logs are regularly reviewed to detect anomalies, respond to potential security incidents, and ensure compliance with internal policies and regulatory requirements. These measures provide continuous protection and transparency to safeguard sensitive data.

I. Cybersecurity Provisions

Here is how Esolvit addresses all the questions and points mentioned in Section 5.4.2 regarding cybersecurity.

Esolvit is deeply committed to ensuring the highest standards of cybersecurity and data protection through a series of comprehensive measures and certifications. Our certifications from the International Organization for Standardization, ISO 20000-1:2018 and ISO 27001:2022, exemplify our commitment to quality, security, and the scope of service in AI software development and cybersecurity. Additionally, we hold certification from the Department of Defense (DoD) Cybersecurity Procurement Workshop, further highlighting our expertise in safeguarding critical data.

Our cybersecurity services are extensive and include anti-ransomware, antivirus, and identity protection measures to secure personal data. We also employ secure data storage and backup practices, utilizing encryption, redundant systems, and regular backups to ensure business continuity. Our commitment to data protection extends to the implementation of AI-driven threat detection systems that continuously monitor and identify anomalies in real-time. These advanced systems help us detect unauthorized activities or suspicious events, enabling a swift response to minimize the impact of potential breaches.

In strengthening access control, Esolvit integrates multi-factor authentication (MFA), biometric verification, and other robust identity verification tools to prevent unauthorized access to sensitive systems. We have also established comprehensive incident response protocols, focusing specifically on identity-related breaches, and ensuring rapid and effective actions in the event of a security incident.

Additionally, Esolvit implements rigorous encryption techniques for both data in transit and at rest. We use industry-standard encryption methods like TLS, SSL, AES-256, and RSA-2048, and apply data masking and tokenization to protect sensitive information. Key management is handled through secure systems to ensure that only authorized personnel have access, and cryptographic hashing algorithms like SHA-256 and SHA-512 are used to verify data integrity.

As part of our proactive cybersecurity approach, we regularly conduct vulnerability assessments and penetration testing, using tools like Nessus, QualysGuard, and Burp Suite to simulate real-world cyberattacks and identify vulnerabilities. These assessments allow us to prioritize remediation and apply timely security patches, strengthening our overall security posture.

Esolvit's security governance framework ensures that security policies, procedures, and responsibilities are clearly defined and consistently followed across all operations. Regular audits and reviews of security practices ensure compliance with standards such as ISO 27001, PCI DSS, HIPAA, and GDPR. We also provide ongoing security training and awareness programs tailored to meet the needs of government organizations, helping staff stay informed about security best practices, emerging threats, and compliance requirements.

To mitigate risks associated with AI solutions, Esolvit conducts thorough risk assessments, develops risk mitigation strategies, and implements a proactive disaster recovery plan (DRP). We perform root-cause analysis (RCA) of any incidents to refine our processes and strengthen system resilience. This ensures that our AI solutions remain secure, reliable, and capable of addressing evolving security threats.

By integrating these advanced security measures and governance frameworks, Esolvit not only safeguards critical data but also empowers organizations to maintain secure, scalable, and resilient digital infrastructures for NCTCOG'S participating entities.

5. Pricing

For detailed pricing information, please refer to **"Exhibit 1 - Pricing Proposal Worksheet"**. Our pricing proposal has samples for subscription based pricing, project build models with cloud and on-premises as well. This pricing is for reference only as the actual costs vary based on the project scope, size, data, infrastructure and architecture. We have also provided our resource rate sheets and our pricing discount models.

6. Proposed Value-Add

Esolvit is committed to providing value beyond the primary scope of this RFP by delivering innovative solutions, leveraging cutting-edge technology, and applying a proven track record of excellence. Our goal is to enhance the efficiency and effectiveness of public sector operations while fostering meaningful outcomes that exceed expectations. Below, we outline our unique value propositions:

Leadership in AI & ML Innovation: Esolvit is a recognized leader in AI innovation, leveraging cutting-edge technologies to transform operations and solve complex challenges. Our Innovation Labs, powered by NVIDIA and AWS/Azure/GCP Cloud, is at the forefront of AI/ML advancements, utilizing tools such as Amazon SageMaker, Rekognition, and Polly to design transformative solutions that enhance operational efficiency in public sector projects. Esolvit's patented AI solutions, spanning predictive analytics, natural language processing (NLP), computer vision, and advanced data insights, have earned recognition at global events such as Collision Canada and SXSW and have been showcased to organizations like the Department of Defense. These achievements highlight our commitment to innovation and our ability to deliver impactful results through AI.

Transforming HR with Arytic: Esolvit's patented AI-powered Arytic platform revolutionizes talent acquisition and HR transformation. Developed over eight years of extensive research in AI, machine learning, and psychometrics, Arytic optimizes job matching, enhances employee retention, and ensures organizational alignment. This groundbreaking platform reflects Esolvit's commitment to leveraging advanced technologies to address complex challenges and deliver measurable, transformative outcomes.

Our proprietary technologies, such as the Next-Gen AI Predictive Hiring Engine, have demonstrated tangible results by reducing hiring cycle times by 75% while improving job fit and cultural alignment. These adaptable, AI-driven solutions extend beyond recruitment, offering valuable applications in public sector operations, including service delivery optimization, resource allocation, and data-driven decision-making.

Proven Partnerships and Excellence: Esolvit has built a strong reputation through successful partnerships with Texas State agencies, delivering exceptional results under DIR DBITS, ITSAC, and TIPS contracts. Our Public Sector division serves state, local, and federal agencies, providing agile, tailored solutions that drive technology transformation with precision and accountability. We are committed to delivering flexible, transparent solutions that meet high standards.

- Texas A&M Forest Services
- Texas Commission on Law Enforcement (TCOLE)
- Texas Higher Education Coordinating Board (THECB)
- Texas Education Agency (TEA)
- Texas Department of Motor Vehicles (DMV)
- Health & Human Services (HHSC)
- Austin Energy, Cap Metro, DART, and more

Beyond public sector engagements, Esolvit collaborates with Fortune 1000 companies, multinational corporations, and innovative startups, solving diverse challenges across industries with a commitment to innovation and transformative outcomes.

Recognitions and Accolades: Esolvit's excellence has been recognized through numerous awards, including Supplier of the Year 2020 by the City of Austin, and inclusion in the USPAACC Fast 50 & Fast 100 Companies of the Year. Our reputation as a trusted partner for government and enterprise clients is backed by our continuous pursuit of innovation and commitment to delivering solutions that drive measurable, sustainable results.



Esolvit's value-add goes beyond fulfilling the SOW. Our cutting-edge AI and cloud solutions, proven track record in public sector engagements, and commitment to innovation position us as a trusted partner capable of enhancing the efficiency and effectiveness of public sector operations. We look forward to exploring opportunities to further enhance the impact of your projects through our advanced technologies and expertise.

7. HUB Certification

Proof of certification as a Historically Underutilized Business (HUB), Minority, Women-Owned or Disadvantaged Business Enterprise is appended to the back of this solicitation document.

8. Attachments

Signed copies of all ATTACHMENTS I-X, EXHIBITS 1 and 3 are appended to the back of this solicitation document.

Texas Historically Underutilized Business (HUB) Certificate



Certificate/VID Number: 1205835431200
Approval Date: November 30, 2023
Scheduled Expiration Date: November 30, 2027

The Texas Comptroller of Public Accounts (CPA), hereby certifies that

Esolvit Inc. DBA ESOLVIT GOVERNMENT SOLUTIONS

has successfully met the established requirements of the State of Texas Historically Underutilized Business (HUB) Program to be recognized as a HUB. This certificate printed **November 30, 2023**, supersedes any registration and certificate previously issued by the HUB Program. If there are any changes regarding the information (i.e., business structure, ownership, day to day management, operational control, business location) provided in the submission of the business; application for registration/certification as a HUB, you must immediately (within 30 days of such changes) notify the HUB Program in writing. The CPA reserves the right to conduct a compliance review at any time to confirm HUB eligibility. HUB certification may be suspended or revoked upon findings of ineligibility.

*Statewide HUB Program
Statewide Procurement Division*

Note: In order for State agencies and institutions of higher education (universities) to be credited for utilizing this business as a HUB, they must award payment under the Certificate/VID Number identified above. Agencies, universities and prime contractors are encouraged to verify the company's HUB certification prior to issuing a notice of award by accessing the Internet (<https://mycpa.cpa.state.tx.us/tpasscmblsearch/Index.jsp>) or by contacting the HUB Program at **512-463-5872** or toll-free in Texas at **1-888-863-5881**.

REQUIRED ATTACHMENT CHECKLIST

Please utilize this checklist to ensure that all required attachments are included with your proposal. IF AN ATTACHMENT DOES NOT APPLY, PLEASE MARK AS “**NOT APPLICABLE**” AND SUBMIT WITH THE PROPOSAL. FAILURE TO SUBMIT **ALL REQUIRED DOCUMENTS** MAY NEGATIVELY IMPACT YOUR EVALUATION SCORE.

- ☒ Page 1 - Cover Sheet
- ☒ Page 20 - Attachment I: Instructions for Proposals Compliance and Submittal
- ☒ Page 21 - Attachment II: Certification of Offeror
- ☒ Page 22 - Attachment III: Certification Regarding Debarment
- ☒ Page 23 - Attachment IV: Restrictions on Lobbying
- ☒ Page 25 - Attachment V: Drug-Free Workplace Certification
- ☒ Page 26 - Attachment VI: Certification Regarding Disclosure of Conflict of Interest
- ☒ Page 29 - Attachment VII: Certification of Fair Business Practices
- ☒ Page 30 - Attachment VIII: Certification of Good Standing Texas Corporate Franchise Tax Certification
- ☒ Page 31 - Attachment IX: Historically Underutilized Businesses
- ☒ Page 32 - Attachment X: Federal and State of Texas Required Procurement Provisions
- ☒ Page 35 - Exhibit 1: Service Designation Areas

Respondent recognizes that all proposals must be submitted electronically through [Public Purchase](#) by the RFP due date and time. All other forms of submissions will be deemed nonresponsive and will not be opened or considered.

**ATTACHMENT I: INSTRUCTIONS
FOR PROPOSALS COMPLIANCE AND SUBMITTAL**

Compliance with the Solicitation

Submissions must be in strict compliance with this solicitation. Failure to comply with all provisions of the solicitation may result in disqualification.

Compliance with the NCTCOG Standard Terms and Conditions

By signing its submission, Offeror acknowledges that it has read, understands and agrees to comply with the NCTCOG standard terms and conditions.

Acknowledgment of Insurance Requirements

By signing its submission, Offeror acknowledges that it has read and understands the insurance requirements for the submission. Offeror also understands that the evidence of required insurance must be submitted within ten (10) working days following notification of its offer being accepted; otherwise, NCTCOG may rescind its acceptance of the Offeror's proposals. The insurance requirements are outlined in Section 2.2 - General Terms and Conditions.

Name of Organization/Contractor(s):

Esolvit, Inc.

Signature of Authorized Representative:

B. Usharani

Date: 01/20/2025

ATTACHMENT II: CERTIFICATIONS OF OFFEROR

I hereby certify that the information contained in this proposal and any attachments is true and correct and may be viewed as an accurate representation of proposed services to be provided by this organization. I certify that no employee, board member, or agent of the North Central Texas Council of Governments has assisted in the preparation of this proposal. I acknowledge that I have read and understand the requirements and provisions of the solicitation and that the organization will comply with the regulations and other applicable local, state, and federal regulations and directives in the implementation of this contract.

I also certify that I have read and understood all sections of this solicitation and will comply with all the terms and conditions as stated; and furthermore that I, Usha Boddapu (typed or printed name) certify that I am the CEO/Founder (title) of the corporation, partnership, or sole proprietorship, or other eligible entity named as offeror and respondent herein and that I am legally authorized to sign this offer and to submit it to the North Central Texas Council of Governments, on behalf of said offeror by authority of its governing body.

Name of Organization/Contractor(s):

Esolvit, Inc.

Signature of Authorized Representative:



Date: 01/20/2025

**ATTACHMENT III: CERTIFICATION
REGARDING DEBARMENT, SUSPENSION AND OTHER RESPONSIBILITY MATTERS**

This certification is required by the Federal Regulations Implementing Executive Order 12549, Debarment and Suspension, 45 CFR Part 93, Government-wide Debarment and Suspension, for the Department of Agriculture (7 CFR Part 3017), Department of Labor (29 CFR Part 98), Department of Education (34 CFR Parts 85, 668, 682), Department of Health and Human Services (45 CFR Part 76).

The undersigned certifies, to the best of his or her knowledge and belief, that both it and its principals:

1. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency;
2. Have not within a three-year period preceding this contract been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or Local) transaction or contract under a public transaction, violation of federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification, or destruction of records, making false Proposals, or receiving stolen property;
3. Are not presently indicated for or otherwise criminally or civilly charged by a government entity with commission of any of the offense enumerated in Paragraph (2) of this certification; and,
4. Have not within a three-year period preceding this contract had one or more public transactions terminated for cause or default.

Where the prospective recipient of federal assistance funds is unable to certify to any of the qualifications in this certification, such prospective recipient shall attach an explanation to this certification form.

Name of Organization/Contractor(s):

Esolvit, Inc.

Signature of Authorized Representative:

Bushaxani

Date: 01/20/2025

ATTACHMENT IV: RESTRICTIONS ON LOBBYING

Section 319 of Public Law 101-121 prohibits recipients of federal contracts, grants, and loans exceeding \$100,000 at any tier under a federal contract from using appropriated funds for lobbying the Executive or Legislative Branches of the federal government in connection with a specific contract, grant, or loan. Section 319 also requires each person who requests or receives a federal contract or grant in excess of \$100,000 to disclose lobbying.

No appropriated funds may be expended by the recipient of a federal contract, loan, or cooperative agreement to pay any person for influencing or attempting to influence an officer or employee of any federal executive department or agency as well as any independent regulatory commission or government corporation, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any of the following covered federal actions: the awarding of any federal contract, the making of any federal grant, the making of any federal loan the entering into of any cooperative agreement and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.

As a recipient of a federal grant exceeding \$100,000, NCTCOG requires its subcontractors of that grant to file a certification, set forth in Appendix B.1, that neither the agency nor its employees have made, or will make, any payment prohibited by the preceding paragraph.

Subcontractors are also required to file with NCTCOG a disclosure form, set forth in Appendix B.2, if the subcontractor or its employees have made or have agreed to make any payment using nonappropriated funds (to include profits from any federal action), which would be prohibited if paid for with appropriated funds.

**LOBBYING CERTIFICATION
FOR CONTRACTS, GRANTS, LOANS, AND COOPERATIVE AGREEMENTS**

The undersigned certifies, to the best of his or her knowledge or belief, that:

1. No federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an officer or employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal loan, the entering into of any cooperative Contract, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative contract; and
2. If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant, loan, and or cooperative contract, the undersigned shall complete and submit Standard Form – LLL, “Disclosure Form to Report Lobbying”, in accordance with the instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers and that all sub-recipients shall certify accordingly.

Name of Organization/Contractor(s):

Esolvit, Inc.

Signature of Authorized Representative:

Bushaxani

Date: **01/20/2025**

ATTACHMENT V: DRUG-FREE WORKPLACE CERTIFICATION

The Esolvit, Inc. (company name) will provide a Drug Free Work Place in compliance with the Drug Free Work Place Act of 1988. The unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited on the premises of the Esolvit, Inc. (company name) or any of its facilities. Any employee who violates this prohibition will be subject to disciplinary action up to and including termination. All employees, as a condition of employment, will comply with this policy.

CERTIFICATION REGARDING DRUG-FREE WORKPLACE

This certification is required by the Federal Regulations Implementing Sections 5151-5160 of the Drug-Free Workplace Act, 41 U.S.C. 701, for the Department of Agriculture (7 CFR Part 3017), Department of Labor (29 CFR Part 98), Department of Education (34 CFR Parts 85, 668 and 682), Department of Health and Human Services (45 CFR Part 76).

The undersigned subcontractor certifies it will provide a drug-free workplace by:

Publishing a policy Proposal notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the workplace and specifying the consequences of any such action by an employee;

Establishing an ongoing drug-free awareness program to inform employees of the dangers of drug abuse in the workplace, the subcontractor's policy of maintaining a drug-free workplace, the availability of counseling, rehabilitation and employee assistance programs, and the penalties that may be imposed on employees for drug violations in the workplace;

Providing each employee with a copy of the subcontractor's policy Proposal;

Notifying the employees in the subcontractor's policy Proposal that as a condition of employment under this subcontract, employees shall abide by the terms of the policy Proposal and notifying the subcontractor in writing within five days after any conviction for a violation by the employee of a criminal drug abuse statute in the workplace;

Notifying the Board within ten (10) days of the subcontractor's receipt of a notice of a conviction of any employee; and,

Taking appropriate personnel action against an employee convicted of violating a criminal drug statute or requires such employee to participate in a drug abuse assistance or rehabilitation program.

Name of Organization/Contractor(s):

Esolvit, Inc.

Signature of Authorized Representative:

Bushazani

Date: 01/20/2025

ATTACHMENT VI: DISCLOSURE OF CONFLICT OF INTEREST
CERTIFICATION REGARDING DISCLOSURE OF CONFLICT OF INTEREST

The undersigned certifies that, to the best of his or her knowledge or belief, that:

“No employee of the contractor, no member of the contractor’s governing board or body, and no person who exercises any functions or responsibilities in the review or approval of the undertaking or carrying out of this contract shall participate in any decision relating to this contract which affects his/her personal pecuniary interest.

Executives and employees of contractor shall be particularly aware of the varying degrees of influence that can be exerted by personal friends and associates and, in administering the contract, shall exercise due diligence to avoid situations which give rise to an assertion that favorable treatment is being granted to friends and associates. When it is in the public interest for the contractor to conduct business with a friend or associate of an executive or employee of the contractor, an elected official in the area or a member of the North Central Texas Council of Governments, a permanent record of the transaction shall be retained.

Any executive or employee of the contractor, an elected official in the area or a member of the NCTCOG, shall not solicit or accept money or any other consideration from a third person, for the performance of an act reimbursed in whole or part by contractor or Department. Supplies, tools, materials, equipment or services purchased with contract funds shall be used solely for purposes allowed under this contract. No member of the NCTCOG shall cast a vote on the provision of services by that member (or any organization which that member represents) or vote on any matter which would provide a direct or indirect financial benefit to the member or any business or organization which the member directly represents”.

No officer, employee or paid consultant of the contractor is a member of the NCTCOG.

No officer, manager or paid consultant of the contractor is married to a member of the NCTCOG.

No member of NCTCOG directly owns, controls or has interest in the contractor.

The contractor has disclosed any interest, fact, or circumstance that does or may present a potential conflict of interest.

No member of the NCTCOG receives compensation from the contractor for lobbying activities as defined in Chapter 305 of the Texas Government Code.

Should the contractor fail to abide by the foregoing covenants and affirmations regarding conflict of interest, the contractor shall not be entitled to the recovery of any costs or expenses incurred in relation to the contract and shall immediately refund to the North Central Texas Council of Governments any fees or expenses that may have been paid under this contract and shall further be liable for any other costs incurred or damages sustained by the NCTCOG as it relates to this contract.

Name of Organization/Contractor(s):

Esolvit, Inc.

Signature of Authorized Representative:



Date: 01/20/2025

CONFLICT OF INTEREST QUESTIONNAIRE
For vendor doing business with local governmental entity

FORM CIQ

This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code.

A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

OFFICE USE ONLY

Date Received

1 Name of vendor who has a business relationship with local governmental entity.

Esolvit, Inc.

2 ☐ Check this box if you are filing an update to a previously filed questionnaire. (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

3 Name of local government officer about whom the information is being disclosed.

None And Not Applicable

Name of Officer

4 Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?

☐ Yes

☐ No

B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

☐ Yes

☐ No

5 Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.

6 ☐ Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

7 Bushoani
Signature of vendor doing business with the governmental entity

1/20/25
Date

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor doing business with local governmental entity

A complete copy of Chapter 176 of the Local Government Code may be found at <http://www.statutes.legis.state.tx.us/Docs/LG/htm/LG.176.htm>. For easy reference, below are some of the sections cited on this form.

Local Government Code § 176.001(1-a): "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

- (A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;
- (B) a transaction conducted at a price and subject to terms available to the public; or
- (C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

Local Government Code § 176.003(a)(2)(A) and (B):

(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

(2) the vendor:

(A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds \$2,500 during the 12-month period preceding the date that the officer becomes aware that:

- (i) a contract between the local governmental entity and vendor has been executed;
- or
- (ii) the local governmental entity is considering entering into a contract with the vendor;

(B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than \$100 in the 12-month period preceding the date the officer becomes aware that:

- (i) a contract between the local governmental entity and vendor has been executed; or
- (ii) the local governmental entity is considering entering into a contract with the vendor.

Local Government Code § 176.006(a) and (a-1)

(a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

- (1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);
- (2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or
- (3) has a family relationship with a local government officer of that local governmental entity.

(a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

(1) the date that the vendor:

- (A) begins discussions or negotiations to enter into a contract with the local governmental entity; or
- (B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or

(2) the date the vendor becomes aware:

- (A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);
- (B) that the vendor has given one or more gifts described by Subsection (a); or
- (C) of a family relationship with a local government officer.

ATTACHMENT VII: CERTIFICATION OF FAIR BUSINESS PRACTICES

That the submitter has not been found guilty of unfair business practices in a judicial or state agency administrative proceeding during the preceding year. The submitter further affirms that no officer of the submitter has served as an officer of any company found guilty of unfair business practices in a judicial or state agency administrative during the preceding year.

Name of Organization/Contractor(s):

Esolvit, Inc.

Signature of Authorized Representative:

Bushorani

Date: 01/20/2025

**ATTACHMENT VIII: CERTIFICATION OF GOOD STANDING
TEXAS CORPORATE FRANCHISE TAX CERTIFICATION**

Pursuant to Article 2.45, Texas Business Corporation Act, state agencies may not contract with for profit corporations that are delinquent in making state franchise tax payments. The following certification that the corporation entering into this offer is current in its franchise taxes must be signed by the individual authorized on Form 2031, Corporate Board of Directors Resolution, to sign the contract for the corporation.

The undersigned authorized representative of the corporation making the offer herein certified that the following indicated Proposal is true and correct and that the undersigned understands that making a false Proposal is a material breach of contract and is grounds for contract cancellation.

Indicate the certification that applies to your corporation:



The Corporation is a for-profit corporation and certifies that it is not delinquent in its franchise tax payments to the State of Texas.



The Corporation is a non-profit corporation or is otherwise not subject to payment of franchise taxes to the State of Texas.

Type of Business (if not corporation):

☐

Sole Proprietor

☐

Partnership

☐

Other

Pursuant to Article 2.45, Texas Business Corporation Act, the North Central Texas Council of Governments reserves the right to request information regarding state franchise tax payments.

Usha Boddapu, CEO/Founder

(Printed/Typed Name and Title of Authorized Representative)

B. Boddapu

Signature

Date: 01/20/2025

**ATTACHMENT IX: HISTORICALLY UNDERUTILIZED BUSINESSES,
MINORITY OR WOMEN-OWNED OR DISADVANTAGED BUSINESS ENTERPRISES**

Historically Underutilized Businesses (HUBs), minority or women-owned or disadvantaged businesses enterprises (M/W/DBE) are encouraged to participate in the solicitation process.

NCTCOG recognizes the certifications of most agencies. HUB vendors must submit a copy of their certification for consideration during the evaluation of their proposal. Please attach the copy to this form. This applies only to the Offeror and not a subcontractor.

Texas vendors who are not currently certified are encouraged to contact either the Texas United Certification Program, State of Texas HUB Program, or the North Central Texas Regional Certification Agency, among others. Contact:

State of Texas HUB Program
Texas Comptroller of Public Accounts
Lyndon B. Johnson State Office Building
111 East 17th Street
Austin, Texas 78774
(512) 463-6958
<http://www.window.state.tx.us/procurement/prog/hub/>

North Central Texas Regional Certification Agency
624 Six Flags Drive, Suite 100
Arlington, TX 76011
(817) 640-0606
<http://www.nctrca.org/certification.html>


Texas United Certification Program
USDOT website at
<https://www.transportation.gov/DBE>

You must include a copy of your certification document as part of this solicitation to receive points in the evaluation.

Vendor to Sign Below to Attest to Validity of Certification:

Esolvit, Inc.

Vendor Name


Authorized Signature

Usha Boddapu

Typed Name

01/20/2025

Date

☐ Not applicable.

**ATTACHMENT X: NCTCOG FEDERAL AND STATE OF TEXAS
REQUIRED PROCUREMENT PROVISIONS**

The following provisions are mandated by Federal and/or State of Texas law. Failure to certify to the following will result in disqualification of consideration for contract. Entities or agencies that are not able to comply with the following will be ineligible for consideration of contract award.

**PROHIBITED TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT
CERTIFICATION**

This Contract is subject to the Public Law 115-232, Section 889, and 2 Code of Federal Regulations (CFR) Part 200, including §200.216 and §200.471, for prohibition on certain telecommunications and video surveillance or equipment. Public Law 115-232, Section 889, identifies that restricted telecommunications and video surveillance equipment or services (e.g., phones, internet, video surveillance, cloud servers) include the following:

- A) Telecommunications equipment that is produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliates of such entities).
- B) Video surveillance and telecommunications equipment produced by Hytera Communications Corporations, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliates of such entities).
- C) Telecommunications or video surveillance services used by such entities or using such equipment.
- D) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, Director of the National Intelligence, or the Director of the Federal Bureau of Investigation reasonably believes to be an entity owned or controlled by the government of a covered foreign country. The entity identified below, through its authorized representative, hereby certifies that no funds under this Contract will be obligated or expended to procure or obtain telecommunication or video surveillance services or equipment or systems that use covered telecommunications equipment or services as a substantial or essential component of any system, or as a critical technology as part of any system prohibited by 2 CFR §200.216 and §200.471, or applicable provisions in Public Law 115-232 Section 889.

☒ The Contractor or Subrecipient hereby certifies that it does comply with the requirements of 2 CFR §200.216 and §200.471, or applicable regulations in Public Law 115-232 Section 889.

SIGNATURE OF AUTHORIZED PERSON: _____

NAME OF AUTHORIZED PERSON: _____

NAME OF COMPANY: _____

DATE: _____

B. Boddapu

Usha Boddapu

Esolvit, Inc.

01/20/2025

-OR-

☐ The Contractor or Subrecipient hereby certifies that it cannot comply with the requirements of 2 CFR §200.216 and §200.471, or applicable regulations in Public Law 115-232 Section 889.

SIGNATURE OF AUTHORIZED PERSON: _____

NAME OF AUTHORIZED PERSON: _____

NAME OF COMPANY: _____

DATE: _____

DISCRIMINATION AGAINST FIREARMS ENTITIES OR FIREARMS TRADE ASSOCIATIONS

This contract is subject to the Texas Local Government Code chapter 2274, Subtitle F, Title 10, prohibiting contracts with companies who discriminate against firearm and ammunition industries.

TLGC chapter 2274, Subtitle F, Title 10, identifies that “discrimination against a firearm entity or firearm trade association” includes the following:

- A) means, with respect to the entity or association, to:
- I. refuse to engage in the trade of any goods or services with the entity or association based solely on its status as a firearm entity or firearm trade association; and
 - II. refrain from continuing an existing business relationship with the entity or association based solely on its status as a firearm entity or firearm trade association; or
 - III. terminate an existing business relationship with the entity or association based solely on its status as a firearm entity or firearm trade association.
- B) An exception to this provision excludes the following:
- I. contracts with a sole-source provider; or
 - II. the government entity does not receive bids from companies who can provide written verification.

The entity identified below, through its authorized representative, hereby certifies that they have no practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association; and that they will not discriminate during the term of the contract against a firearm entity or firearm trade association as prohibited by Chapter 2274, Subtitle F, Title 10 of the Texas Local Government Code.

☒ The Contractor or Subrecipient hereby certifies that it does comply with the requirements of Chapter 2274, Subtitle F, Title 10.

**SIGNATURE OF AUTHORIZED
PERSON:**

Usha Boddapu

NAME OF AUTHORIZED PERSON:

Usha Boddapu

NAME OF COMPANY:

Esolvit, Inc.

DATE:

1/20/25

-OR-

☐ The Contractor or Subrecipient hereby certifies that it cannot comply with the requirements of Chapter 2274, Subtitle F, Title 10.

**SIGNATURE OF AUTHORIZED
PERSON:**

NAME OF AUTHORIZED PERSON:

NAME OF COMPANY:

DATE:

BOYCOTTING OF CERTAIN ENERGY COMPANIES

This contract is subject to the Texas Local Government Code chapter 809, Subtitle A, Title 8, prohibiting contracts with companies who boycott certain energy companies.

TLGC chapter Code chapter 809, Subtitle A, Title 8, identifies that “boycott energy company” means, without an ordinary business purpose, refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations with a company because the company:

- I. engages in the exploration, production, utilization, transportation, sale, or manufacturing of fossil fuel-based energy and does not commit or pledge to meet environmental standards beyond applicable federal and state law; and
- II. does business with a company described by paragraph (I).

The entity identified below, through its authorized representative, hereby certifies that they do not boycott energy companies, and that they will not boycott energy companies during the term of the contract as prohibited by Chapter 809, Subtitle A, Title 8 of the Texas Local Government Code.

☒ The Contractor or Subrecipient hereby certifies that it does comply with the requirements of Chapter 809, Subtitle A, Title 8.

SIGNATURE OF AUTHORIZED PERSON:

Buddhapu

NAME OF AUTHORIZED PERSON:

Usha Buddapu

NAME OF COMPANY:

Esolvit, Inc.

DATE:

1/20/25

-OR-

☐ The Contractor or Subrecipient hereby certifies that it cannot comply with the requirements of Chapter 809, Subtitle A, Title 8.

SIGNATURE OF AUTHORIZED PERSON:

NAME OF AUTHORIZED PERSON:

NAME OF COMPANY:

DATE:

EXHIBIT 1: SERVICE DESIGNATION AREAS

Texas Service Area Designation or Identification			
Proposing Firm Name:			
Notes:	Indicate in the appropriate box whether you are proposing to service the entire state of Texas		
	Will service the entire state of Texas	Will not service the entire state of Texas	
	<input checked="checked" type="checkbox"/>	<input type="checkbox"/>	
	If you are not proposing to service the entire state of Texas, designate on the form below the regions that you are proposing to provide goods and/or services to. By designating a region or regions, you are certifying that you are willing and able to provide the proposed goods and services.		
Item	Region	Metropolitan Statistical Areas	Designated Service Area
1.	North Central Texas	16 counties in the Dallas-Fort Worth Metropolitan area	
2.	High Plains	Amarillo Lubbock	
3.	Northwest	Abilene Wichita Falls	
4.	Upper East	Longview Texarkana, TX-AR Metro Area Tyler	
5.	Southeast	Beaumont-Port Arthur	
6.	Gulf Coast	Houston-The Woodlands-Sugar Land	
7.	Central Texas	College Station-Bryan Killeen-Temple Waco	
8.	Capital Texas	Austin-Round Rock	
9.	Alamo	San Antonio-New Braunfels Victoria	
10.	South Texas	Brownsville-Harlingen Corpus Christi Laredo McAllen-Edinburg-Mission	
11.	West Texas	Midland Odessa San Angelo	
12.	Upper Rio Grande	El Paso	

(Exhibit 1 continued on next page)

Nationwide Service Area Designation or Identification Form							
Proposing Firm Name:							
Notes:	<p>Indicate in the appropriate box whether you are proposing to provide service to all Fifty (50) States.</p> <table border="1"> <tr> <td>Will service all fifty (50) states</td> <td>Will not service fifty (50) states</td> </tr> <tr> <td align="center"><input checked="checked" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> </table> <p>If you are not proposing to service to all fifty (50) states, then designate on the form below the states that you will provide service to. By designating a state or states, you are certifying that you are willing and able to provide the proposed goods and services in those states.</p> <p>If you are only proposing to service a specific region, metropolitan statistical area (MSA), or City in a State, then indicate as such in the appropriate column box.</p>			Will service all fifty (50) states	Will not service fifty (50) states	<input checked="checked" type="checkbox"/>	<input type="checkbox"/>
Will service all fifty (50) states	Will not service fifty (50) states						
<input checked="checked" type="checkbox"/>	<input type="checkbox"/>						
Item	State	Region/MSA/City (write "ALL" if proposing to service entire state)	Designated as a Service Area				
1.	Alabama						
2.	Alaska						
3.	Arizona						
4.	Arkansas						
5.	California						
6.	Colorado						
7.	Connecticut						
8.	Delaware						
9.	Florida						
10.	Georgia						
11.	Hawaii						
12.	Idaho						
13.	Illinois						
14.	Indiana						
15.	Iowa						
16.	Kansas						
17.	Kentucky						
18.	Louisiana						
19.	Maine						
20.	Maryland						

21.	Massachusetts		
22.	Michigan		
23.	Minnesota		
24.	Mississippi		
25.	Missouri		
26.	Montana		
27.	Nebraska		
28.	Nevada		
29.	New Hampshire		
30.	New Jersey		
31.	New Mexico		
32.	New York		
33.	North Carolina		
34.	North Dakota		
35.	Ohio		
36.	Oregon		
37.	Oklahoma		
38.	Pennsylvania		
39.	Rhode Island		
40.	South Carolina		
41.	South Dakota		
42.	Tennessee		
43.	Texas		
44.	Utah		
45.	Vermont		
46.	Virginia		
47.	Washington		
48.	West Virginia		
49.	Wisconsin		
50.	Wyoming		

End of Exhibit 1