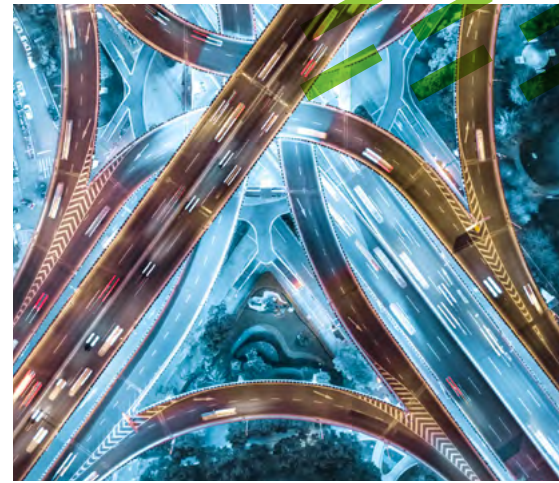


Noblis Surface Transportation Division

Noblis' surface transportation division delivers program management and strategic planning services, systems engineering, data analytics, modeling and simulation, solutions prototyping and technical expertise in research, development, deployment and evaluation initiatives for multiple U.S. Department of Transportation (USDOT) modal administrations. We contribute to initiatives focused on using Intelligent Transportation Systems (ITS), connected vehicles, vehicle automation, cybersecurity, mobility-on-demand and smart city technologies to enhance safety, improve mobility, ensure equity and reduce the impact of the transportation systems on the environment.



Noblis Capabilities

Program Management and Strategic Planning

Noblis leads and facilitates strategic integration of emerging technologies including helping to define the vision, structure and execution of innovation research programs.

Analysis, Modeling and Simulation (AMS)

Drawing on 30 years of thought leadership, Noblis authored the Federal Highway Administration's (FHWA's) 2019 Update to Traffic Analysis Tools Volume III Guide and is leading next-generation AMS research.

Artificial Intelligence (AI) and Machine Learning (ML)

Noblis works to advance next-generation transportation systems and services by ethically and equitably leveraging AI, through its foundational research, systems engineering and acquisition support for the USDOT.

Cybersecurity

Noblis provides technical services regarding 5G cybersecurity and implementing the National Institute of Standards and Technology cybersecurity framework in transportation system management and operations. We conducted groundbreaking cybersecurity penetration testing of a Transportation Management Center.

Data Analytics

Noblis' data analytics work encompasses support for the USDOT's ITS DataHub and ITS CodeHub. Noblis conducts advanced research on transforming real-time data into performance measures using advanced analytics and machine learning. Our team creates interactive data visualizations, dashboards and infographics for decision making.

Evaluation

Noblis supports the ITS Evaluation Program, bringing together the latest on ITS benefits, costs and lessons learned to inform decision makers. We conduct independent verification and validation of evaluations for multiple USDOT deployment programs and currently serve as the independent evaluator of the FHWA Truck Platooning Phase 2 Field Operational deployment.

Mobility Innovation

Since its inception, Noblis has supported the USDOT's Complete Trip (CT) - ITS4US Deployment Program, helping to define the concept where any individual traveler must be able to execute every part of their trip from origin to destination regardless of location, income or disability. We also provide technical services for program execution.

Training and Technology Transfer

Noblis develops and delivers training on the application of ITS and emerging technologies to improve safety, increase mobility and reduce environmental impacts. We have delivered hundreds of factsheets, technical articles, workshops, webinars and briefings.

Automated Vehicles and Vehicle Connectivity

Noblis is assisting USDOT in realizing its goal of safe and coordinated introduction of vehicle automation within the ITS ecosystem. We conducted award-winning research on the strategic challenge of managing trust among connected and automated vehicles. This groundbreaking work was recognized for its innovation by the 2019 Mobility Open Blockchain Initiative Grand Challenge.

USDOT CT - ITS4US

The CT - ITS4US Deployment Program is a \$40 million multimodal effort to provide more efficient, affordable and accessible transportation options for underserved communities.

Learn more at: <https://www.its.dot.gov/its4us/index.htm>



Noblis assisted with drafting the initial vision, objectives and structure of the program. We provided USDOT with integrated expertise across a wide variety of critical skill sets including institutional knowledge in the underserved population advocacy ecosystem, systems engineering, program management, safety analysis, data management, technology maturity assessment, civil rights/equity, performance measurement and evaluation and communications and outreach. Noblis' support was instrumental in earning the federal ITS4US team a FHWA Award for their multimodal effort to expand access to transportation for people with disabilities, older adults and individuals.

Noblis is an OASIS Pool 1 and Pool 4 Contract Holder.

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Pool 1 NAICS Codes

541330 Engineering Services
541380 Testing Laboratories
541611 Administrative Management and General Management Consulting Services
541690 Other Scientific and Technical Consulting Services
541990 All Other Professional, Scientific and Technical Services

Pool 4 NAICS Code

541715 Research and Development in the Physical, Engineering and Life Sciences (except Nanotechnology and Biotechnology)

ABOUT NOBLIS

For more than 25 years, Noblis has been an innovator within the federal government, committed to enriching lives and making our nation safer while investing in the missions of tomorrow. As a nonprofit, Noblis works for the public good, bringing together the best possible combination of science, technology and engineering expertise and solutions, in an environment of independence and objectivity to deliver enduring impact on federal missions. Together with our subsidiaries, we work with a wide range of government clients in the defense, homeland security, intelligence, law enforcement and federal civil sectors.



Noblis is an OASIS Pool 1 and Pool 4 Contract Holder.
For a full portfolio of Noblis' OASIS capabilities visit: noblis.org/contracting

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