

noblis<sup>®</sup>

# PROMOTING SUSTAINABLE, RESILIENT INFRASTRUCTURE SOLUTIONS

Noblis uses innovative science, technology, and strategy to improve mission effectiveness in the face of uncertainty today and into the future

NOBLIS CENTER OF EXCELLENCE



# ENABLING INTELLIGENT, PRAGMATIC SOLUTIONS

Anticipating future impacts on natural, built, and virtual infrastructure is crucial to mission effectiveness. Risks must be combated, which can be a daunting challenge. At Noblis, we help government agencies identify the nature, magnitude, and likelihood of risks, identify actions that will mitigate those risks, and use that information to make prudent fiscal decisions and ensure successful mission outcomes. Our solutions increase energy security, help reduce impact on the environment, mitigate the effect of climate change, and ensure efficient use of resources. We're committed to promoting enduring facilities, operations, and best practices that help ensure a sustainable and resilient future.

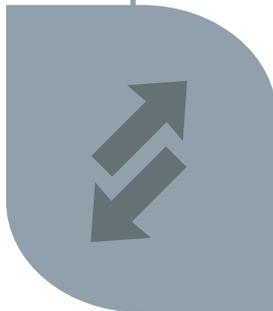


## VULNERABILITY & RISK ASSESSMENT

Noblis helps agencies improve the resilience of their missions, facilities, and operations to climate change, energy security, environmental risk management, and supply chain interruptions. This includes assessing the potential vulnerabilities and risks of climate change and other threats, interpreting climate change science, and developing practical adaptation plans for federal agencies.

## TECHNOLOGY ASSESSMENT & TRANSFER

Noblis provides independent evaluation and testing of critical technological innovations impacting client energy and environment missions. We verify and validate performance capabilities, assess attainment of technical performance parameters, and determine whether systems are operationally effective, and suitable for intended use.



## POLICY & STRATEGY DEVELOPMENT

Noblis helps clients formulate, implement, and update policies and develop strategies for environmental, sustainability, and energy challenges. We develop tailored, comprehensive implementation plans and performance tracking metrics enabling clients to successfully realize short- and long-term goals.



## TECHNOLOGY EVALUATION & TESTING

Noblis capabilities run the full spectrum of technology transfer including, research and development management, problem definition, analysis of alternatives, laboratory, pilot, and field testing, cost/performance evaluation, and transition to field operations.

## LIFECYCLE ANALYSIS

Through lifecycle assessment, Noblis helps clients select more sustainable alternatives and improve long-term investment. Our scientists and engineers use tools to examine the environmental impacts of early design decisions on the sustainability of weapons systems to reduce the amount of energy and water used as well as reduce the amount of waste and greenhouse gases generated.



## INFRASTRUCTURE PLANNING

Noblis works with clients to continuously improve their criteria-based decision processes and tools to enable swift and effective prioritization of capital investments. We assist with policy development, technical review of criteria, strategic market plan development, and overall governance. We also bring together public sector, private sector, and academia to harness industry insights to benefit client missions.

## WHY NOBLIS?

Noblis stands at the forefront of sustainable and resilient planning and policy making for the federal infrastructure. We combine proven science, technology, and business processes with robust domain expertise and tools to ensure crosscutting, holistic solutions.

Noblis experts design and conduct rigorous technical assessments and evaluations in a comprehensive policy, regulatory, and technical framework. Our programs are strategically planned, evaluated, and implemented using lessons learned to ensure implementable solutions.

## CLIENT SUCCESS STORIES

### Predicting the Potential Effects of Sea Level Rise on Military Installations

Noblis has provided innovative and robust strategies and planning tools to help the DoD prepare and respond to cyber, physical, or natural events. Our developed sea level rise projections are available for DoD installations worldwide.

### Creating Lifecycle Analysis Methodology

Noblis worked with DoD and industry partners to develop a lifecycle analysis methodology to assess costs and human health and environmental impacts of design choices. The methodology was used in 5 pilot projects which compare alternative designs to reduce total ownership cost and minimize risks.

### Developing Strategic Sustainability Performance Plans

Noblis has helped federal agencies, including DoD, prepare their annual Strategic Sustainability Performance Plans since FY 2010. We serve as an ongoing technical and policy advisor for on sustainability and climate change. For GSA, Noblis developed the Carbon Footprint Tool, which allows 26 federal agencies to develop comprehensive inventories of their GHG emissions.

## NATURAL, BUILT, AND VIRTUAL INFRASTRUCTURE

Noblis creates integrated solutions to meet challenges across the federal natural, built, and virtual infrastructure. We develop strategies to protect the natural infrastructure that provides critical land, sea, and air training for our military; improve resiliency in our nation's buildings, roads, water systems and electrical grids; and ensure IT networks are secure from cyber threat. These strategies reduce cost, enhance security, and ensure holistic solutions that allow federal agencies to better achieve their mission.



# DOING WHAT'S RIGHT AND WHAT WORKS FOR OUR CLIENTS

Noblis fosters a culture of collaboration. Through our Centers of Excellence (COEs), we are connecting our staff so that they may better serve our clients. The COEs reach across domain areas and our three companies to ensure the right capabilities, people, tools, and expertise are applied to our work. This enables us to offer every client the best solutions to fit their needs and challenges.

## ABOUT NOBLIS

Noblis is a nonprofit science, technology, and strategy organization that brings the best of scientific thought, management, and engineering expertise with a reputation for independence and objectivity. We work with a wide range of government and industry clients in the areas of national security, intelligence, transportation, healthcare, environmental sustainability, and enterprise engineering. Together with our wholly owned subsidiaries, Noblis ESI and Noblis NSP, we solve difficult problems of national significance and support our clients' most critical missions.

## WORKING WITH US

Government agencies can access Noblis through a variety of contracting mechanisms. For a full list of our contract vehicles, visit [noblis.org](http://noblis.org).