



This series of fact sheets highlights our expertise in Transportation and covers the following topics:

- Commuter Choice and Transportation Demand Management
- **Environmental Analysis and Assessment**
- Freight Transportation
- Global Climate Change
- Hazardous Materials
- Land Use and Transportation Systems
- Strategic Congestion and Mobility
- Sustainable Development

Transportation is the source of nearly one-third of greenhouse gas emissions in the United States and mobile sources are the largest contributor of local air pollutants. Roads and parking cover 29,000 square miles of the country with impervious surfaces that generate substantial water run-off, and produce urban heat island effects. Transportation facilities can cause habitat fragmentation, generate noise and vibration, and otherwise impact wetlands and other natural ecosystems. Waste from scrapped vehicles, paving, and other transportation materials adds to landfills, contaminates water systems, and produces air pollution when burned. Hazardous materials transportation poses risks to public health and the environment. Because of this wide range of potential environmental impacts, the National Environmental Protection Act (NEPA), the Clean Air Act (CAA) and amendments, and other legislation have brought environmental impacts to bear significantly on transportation decision-making.

ICF Consulting's Experience

ICF Consulting has substantial experience managing transportation related environmental analysis for a broad range of federal, state, local, private, and international projects. Much of our work involves applying state-of-the-art planning methods, economic and policy analysis, and environmental impact assessment tools to evaluate the impacts of infrastructure projects, transportation operations, and government policy. We are recognized for our ability to manage and prepare solutions for a wide range of environmental issues, and our transportation expertise has grown from our environmental roots.

ICF Consulting has managed and prepared NEPA and equivalent state documentation, including Environmental Impact Statements (EISs) and Environmental Assessments (EAs), for numerous complex and controversial transportation projects. We thoroughly understand and have been involved with all aspects on the conformity process and other CAA issues. ICF Consulting has extensive experience working with senior agency staff and attorneys, as well as applicant staff and their in-house and corporate counsel, frequently in time-sensitive situations. We have also prepared and

delivered NEPA, conformity, environmental justice, and public participation training, guidance, and policy analysis to numerous agencies and several Native American Tribes. Altogether, we have reviewed more than 200 EISs, EAs and related documents for agencies such as the U.S. Department of Justice, the U.S. Department of Energy, the Federal Aviation Administration, and the Surface Transportation Board.

ICF Consulting's **environment, transportation, and emergency management** services pull together several practice areas into a coordinated, multidisciplinary team:

- The **transportation** practice employs planners, engineers, economists, and policy analysts to address issues at the nexus of transportation and energy, economic development, and the environment
- The **environmental science and risk** practice employs chemists, biologists, ecologists, and environmental engineers to analyze direct and indirect impacts to the environment and human health.
- The **environmental economics and regulatory policy** practice employs economists and policy

analysts to evaluate the effects of laws and regulations and to help develop them for effectively.

- The **climate and atmospheric policy** practice employs meteorologists, atmospheric chemists, modelers, and policy specialists to analyze the impacts and develop better means to address local and global air pollution.

Featured Projects

- Prepared or reviewed EISs and EAs on either the government or applicant side for recent important railroad mergers, acquisitions, and privatization activities. These include the merger of Burlington Northern and Santa Fe (BNSF), the Canadian National (CN) acquisition of Illinois Central, the CSX and Norfolk Southern acquisition of Conrail, and the BNSF-CN merger, and the Long Island Rail Road privatization of freight operations.
- Provided technical assistance to numerous MPOs and localities in all phases of transportation conformity, including air quality modeling, the development of Conformity SIPs, and the interagency consultation processes. Recent localities served have included Charlotte, NC, Richmond, VA, Hampton Roads, VA, Northwest Indiana, Washington, D.C., Phoenix, AZ, and others.
- Providing comprehensive multi-year technical support to The Bahamas Environment, Science, and Technology (BEST) Commission in its day-to-day environmental management and assessment functions. The project has included all environmental oversight functions related to the New Providence Road Improvement Project. This work has also included the environmental review of proposed development projects; establishing monitoring regimes for existing projects, and designing and implementing the following functions: EIAs of new projects; monitoring and environmental laboratory; environmental information management; land use planning, coastal zone management, environmental emergency management; and public awareness.
- Analyzed intermodal freight corridors and facilities serving urban centers for U.S. EPA, estimating the likelihood and extent of modal shifts in freight transportation and the consequences in terms of environmental impacts, including institutional, physical, land use, environmental, economic, and community impact issues.
- Prepared an EIA, Community Participation Plan, and Environmental Action and Mitigation Plan for a proposed 80-km road in the Bocas del Toro Province of Panama.
- Conducted a study for U.S. Department of Transportation (DOT) on the impacts of environmental requirements during the planning process for intermodal facilities. Case studies investigated the perspectives of multiple stakeholders and developed a framework for understanding both the actual and idealized means by which the planning process addresses applicable environmental concerns.
- Conducted a study of the environmental impacts of Canada-U.S. and U.S.-Mexico trade and transportation (primarily truck and rail) for the North American Commission for Environmental Cooperation.
- Performed an environmental audit of the first 10 years of Mexico City's Transport Air Quality Management Program for the World Bank. Our team of leading experts in fuel and fuel refining analysis, vapor recovery systems, air quality monitoring, assessment and evaluation, and I/M programs evaluated the results, cost-effectiveness, and overall impact of each 16 different project components to improve the air quality in Mexico City.
- Modeled the social costs of on-highway transportation sources for EPA and DOT (jointly with Abt) through the application of air quality and physical effects/economic valuation modeling tools. The study included a detailed assessment of the contribution of motor vehicle emissions to ambient contributions of the primary and secondary pollutants using urban and regional air quality modeling.
- Developed a National Control System for the Transportation of Hazardous Materials in accordance with MECROSUR for the government of Uruguay.

About ICF Consulting

ICF Consulting is a leading management, technology, and policy consulting firm. Drawing upon extensive industry knowledge, distinguished professionals, and innovative analytics, the firm develops solutions to complex defense, homeland security, social program, energy, environment, and transportation issues. ICF Consulting's approach to these issues is strengthened by its expertise in information technology, organizational improvement, research and evaluation, program management, and communications. Since 1969, ICF Consulting has been serving major corporations, government at all levels, and multinational institutions. More than 1,500 employees serve these clients in the Americas, Asia, and Europe.

For more information, contact:

Allan Summerville
1.703.934.3616
ASummerville@icfconsulting.com

Sergio Ostria
1.703.934.3013
SOstria@icfconsulting.com

ICF Consulting
9300 Lee Highway
Fairfax, Virginia 22031
Fax: 1.703.934.3740