



Environment & Natural Resources

**SOLVING ENVIRONMENTAL
CHALLENGES IN A
COMPLEX WORLD**

For more than 25 years, Abt Associates has worked to improve our understanding and management of our natural environment. We are widely recognized for our technical excellence and innovation, multidisciplinary approach, and our client-focused project stewardship.

"Our expertise in environmental sciences, economics, policy analysis, engineering and complex data management and synthesis enables us to help our clients solve complex problems and contribute to a better world."

From Cutting-Edge Research to Practice

Abt works across a continuum that ranges from cutting-edge research to practical solutions. Whether it be groundbreaking laboratory research, the development of reproducible tools and methods, large-scale data management and analysis, or policy and regulatory support, Abt combines research skills and real-world knowledge to work with our clients to develop tailored and informed solutions to complex environmental challenges.

AREAS OF EXPERTISE

- Air, Water, Soil, and Ecological Quality
- Climate Change
- Environmental Health and Chemical Risk Management
- Environmental Information, Data Systems, and Data Management
- Environmental Sciences
- Natural Resource Damage Assessment and Restoration (NRDAR)
- Natural Resource Management and Policy Analysis

Program examples:

- Designing and conducting **lab and field studies to evaluate infectivity and transmissivity of the Zika virus** to help decision-makers frame public health responses.
- Conducted scientific data analysis to **enable effective restoration of natural resources and ecosystems affected by the *Deepwater Horizon* oil spill.**
- Co-authored the chapter on temperature-related death and illness in the groundbreaking 2016 report *The Impacts of Climate Change on Human Health in the United States: A Scientific Assessment.*
- Analyzed the economic **impacts and benefits of EPA's regulations that reduce discharges of toxic metals and other pollutants** from power plants.

Multidisciplinary Expertise

The world's pressing environmental challenges often require integrated, multidisciplinary thinking. Our team of national and international experts includes environmental scientists, economists, engineers, public health specialists, information and data management specialists, and regulatory and policy analysts. Each offers deep knowledge, broad experience, and new ways of approaching environmental challenges.



Program examples:

- Analyzing the **health risks and economic impacts of avoided exposures to neurological toxins** like lead, perchlorate and arsenic among infants, children and other susceptible groups.
- Evaluating potential **human health benefits of proposed environmental sciences and safety regulations**, including toxic substances and pollution prevention.
- Investigated the **benefits to public health when fine particulate matter**, some of the most damaging air pollution, **is reduced**.



Creative, Data-Driven Solutions

We adhere to the highest principles of scientific assessment and evidence-based analysis, conducting rigorous research and analyses that contribute to sound environmental decision-making and informs the development of regulations, policies, and programs that contribute to a healthier environment.

Program examples:

- Developing a **software application to streamline benefits and economic analysis of Clean Water Act regulations**.
- Estimating **impacts on air quality and public health resulting from implementation of the Regional Greenhouse Gas Initiative**, a carbon cap-and-trade program covering nine eastern seaboard states.
- Assessed the **impact of pollution prevention on toxic environmental releases** from U.S. manufacturing facilities.
- Built **environmental models to estimate the loss-of-life** associated with potential flood events in New Orleans.

Developing Practical Tools and Real-World Solutions

SafeWater CBX Drinking Water Benefit-Cost Model

is the standard benefit-cost model for all drinking water regulations developed by EPA.

Co-Benefits Risk Assessment (COBRA) Model

is used by governments to estimate the air quality and health benefits of clean energy policies.

AirCounts™, CarbonCounts™ & CommentCounts™

are a suite of tools that offer in-depth analysis and collaboration on a variety of environmental science initiatives.



AirCounts™ offers online calculation of the health benefits and economic value of air quality improvements for over 40 of the world's largest cities.



CarbonCounts™ consolidates and simplifies reporting, verification and management of climate change and environmental initiative progress.



CommentCounts™ is a collaborative web-based tool that organizes and integrates public comments and responses into final rules, programs and documents in a transparent and thorough manner for federal rulemaking.

SELECTED CAPABILITIES

Abt Associates offers a wide array of technical and research capabilities in environment and natural resources. Some examples include:

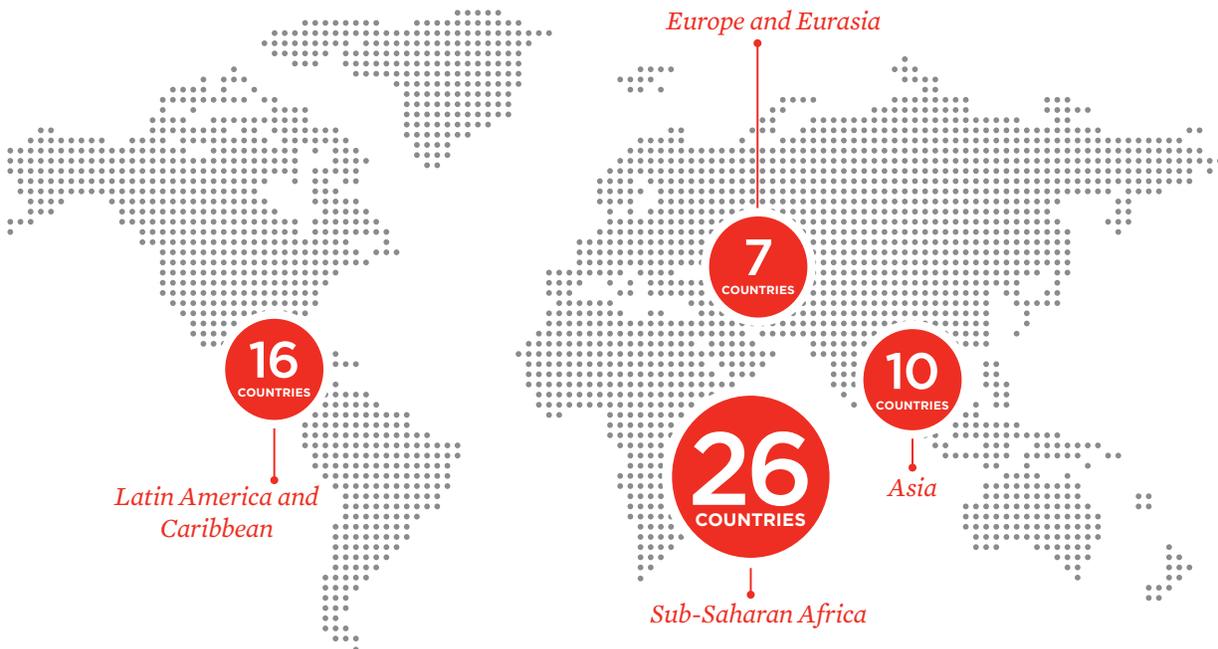
- Air and water quality standards support
- Benefit-cost analysis
- Biological sciences
- Climate change mitigation, adaptation, and vulnerability analysis
- Coastal engineering and resiliency
- Data collection, management, and analysis
- Economic policy and regulatory analyses
- Environmental toxicology and chemistry
- Human health and ecological risk assessments
- Hydrology, geomorphology, and physical sciences
- Information solutions and web development
- Model development and applications
- Performance measurement and evaluation
- Public comment management and analyses
- Survey development and implementation
- Training, outreach, facilitation and communications



About Environment & Natural Resources

Our ability to integrate environmental science, economics, engineering and policy analysis enables us to provide cutting-edge primary research and multidisciplinary solutions. We are working with our clients to solve some of the world's most complex challenges. Simply put, we are leaders in the field, solving environmental challenges in a complex world.

We Work in the U.S. and More Than 50 Countries





**BOLD
THINKERS
DRIVING
REAL-WORLD
IMPACT**

About Abt Associates

Abt Associates is a mission-driven, global leader in research and program implementation in the fields of **health, social and environmental policy and international development**. Known for its rigorous approach to solving complex challenges, Abt Associates is regularly ranked as one of the top development innovators. The company has multiple offices in the U.S. and program offices in more than 50 countries.

SELECTED CLIENTS

- U.S. Federal, State, and Community Agencies
 - Native American Tribes
 - Foundations
 - International Donor Organizations
-

LEARN MORE

Josh Lipton, PhD
Division Vice President
Josh_Lipton@abtassoc.com

abtassociates.com

