# Expert Opinion Survey on Sustainable Transportation Curricula

The Georgia Tech team is leading the effort to create the model curriculum of multi-disciplinary courses in sustainable transportation through the National Center for Sustainable Transportation (NCST). To ensure that the course we are developing for the NCST meet the needs and expectations of the transportation community, we would like for you to respond to the following questions.

**What is your institutional affiliation?**

☐ Georgia Institute of Technology

☐ University of California, Davis

☐ University  of Vermont

☐ University of Southern California

☐ University of California, Riverside

☐ California State University, Long Beach

☐ Other

**What is your general area of expertise within transportation? (Select all that apply)**

☐ Design and Construction

☐ Planning

☐ Operations and Preservation

☐ Policy and Organization

☐ Other

## Sustainability Topics

The next several questions ask about the importance of transportation topics to an understanding of ability to practice sustainability.

**Which general topic area would you include in the sustainability transportation curricula?**
*Choose as many apply*

☐ Administration and Management

☐ Bridges and Other Structures

☐ Data and Information Technology

☐ Design

☐ Economics

☐ Education and Training

☐ Energy

☐ Finance

☐ Freight Transportation

☐ Geotechnology

☐ History

☐ Hydraulics and Preservation

☐ Materials

☐ Operations and Traffic Management

☐ Passenger Transportation

☐ Pavements

☐ Planning and Forecasting

☐ Policy

☐ Research and Education

☐ Safety and Emergencies

☐ Terminal and Facilities

☐ Society

☐ Terminal and Facilities

☐ Vehicle and Equipment

☐ Other [                    ]

## Sustainability Topics Continued

**Which general topic area would you include in the sustainability transportation curricula?**
*Choose as many apply*

☐ Accessible Transportation and Mobility

☐ Alternative Transportation Fuels and Technologies

☐ Bicycle and Pedestrian Facilities

☐ Congestion Pricing and Managed Lanes

☐ Ecology and Transportation

☐ Effects of Information and Communication Technologies (ICT) on Travel Choices

☐ Environmental Justice in Transportation

☐ Historic and Archeological Preservation Transportation

☐ Infrastructure Protection

☐ ITS and Automated Vehicles

☐ Land Use Planning, Development and Modeling

☐ Metropolitan Policy, Planning and Processes

☐ Mixed Use Development

☐ Multimodal Transportation Planning

☐ Public Involvement in Transportation

☐ Resource Economics

☐ Social Equity Analysis

☐ Transit System Operations (bus and rail)

☐ Transportation Activity Data

☐ Transportation Energy

☐ Transportation Demand Modeling

☐ Transportation Economics

☐ Transportation in Developing Countries

☐ Transportation Needs of National Parks and Public Lands

☐ Transportation Network Modeling

☐ Transportation Planning for Small and Medium-Sized Communities

☐ Travel Behavior and Values

☐ Waste Management and Resources Efficiency in Transportation

☐ Other _____

## Sustainability Texts

**How would you rate the following sustainable transportation texts?**

| | Poor | Fair | Good | Excellent | No Opinion |
|---|---|---|---|---|---|
| Schiller, Brunn, and Kenworthy (2010) *An Introduction to Sustainable Transportation: Policy, Planning and Implementation* | ☐ | ☐ | ☐ | ☐ | ☐ |
| Black (2010) *Sustainable Transportation: Problems and Solutions* | ☐ | ☐ | ☐ | ☐ | ☐ |
| Tumlin (2012) *Sustainable Transportation Planning: Tools for Creating Vibrant, Healthy, and Resilient Communities* | ☐ | ☐ | ☐ | ☐ | ☐ |
| World Commission on Environment and Development (1987) *Our Common Future* | ☐ | ☐ | ☐ | ☐ | ☐ |
| Cox (2013) *Moving People: Sustainable Transportation Development* | ☐ | ☐ | ☐ | ☐ | ☐ |
| Field and Field (2012) *Environmental Economics: An Introduction* | ☐ | ☐ | ☐ | ☐ | ☐ |

**Are there other excellent texts not listed above?**

**Which book (if any) do you use in your classes?**

## Analysis Tools and Frameworks

**How important do you believe the following sustainability tools are for transportation professionals to understand?**

| | Unimportant | Neutral | Important | Essential | Unfamiliar |
|---|---|---|---|---|---|
| INVEST- Systems Planning (Federal Highway Administration) | | | | | |
| INVEST- Project Development (Federal Highway Administration) | ☐ | ☐ | ☐ | ☐ | ☐ |
| INVEST- Operations & Maintenance (Federal Highway Administration) | ☐ | ☐ | ☐ | ☐ | ☐ |
| Greenroads (University of Washington) | ☐ | ☐ | ☐ | ☐ | ☐ |
| LEED- Neighborhood Development | ☐ | ☐ | ☐ | ☐ | ☐ |
| Envision (Institute for Sustainable Infrastructure) | ☐ | ☐ | ☐ | ☐ | ☐ |
| EcoDistricts | ☐ | ☐ | ☐ | ☐ | ☐ |
| MOVES/NONROAD (US Environmental Protection Agency) | ☐ | ☐ | ☐ | ☐ | ☐ |
| GREET (Argonne National Laboratory) | ☐ | ☐ | ☐ | ☐ | ☐ |
| EVRI (Environment Canada) | ☐ | ☐ | ☐ | ☐ | ☐ |

**Are there tools or frameworks not listed above that you believe are important or essential?**

## Contact Information (Optional)

**What is your name?**

**Please provide your contact information for follow-up questions or an interview.**