Objective 1

Review of literature to be documented in bibliography.

Bibliography for UA 300 Transportation Delivery Systems

Books:


Journal and magazine articles:


Objective 2

Review of undergraduate transportation approaches to be documented in summary.

Review of Undergraduate Transportation Syllabi and Materials

Syllabi from at least nine universities and institutions were collected to identify the topics covered and their approaches of teaching. The following is a sample list of the universities:

<table>
<thead>
<tr>
<th>Title of the Syllabus</th>
<th>Name of the Institution</th>
<th>Department Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transportation Planning Methods and Investment Decisions</td>
<td>Georgia Institute of Technology</td>
<td>Department of City Planning</td>
</tr>
<tr>
<td>Introduction to Transportation Planning</td>
<td>University of Kansas</td>
<td>Department of Urban Planning</td>
</tr>
<tr>
<td>Urban Transportation Planning</td>
<td>Wayne State University</td>
<td>College of Engineering</td>
</tr>
<tr>
<td>Transportation Planning</td>
<td>Auburn University</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>Metropolitan Transportation Policy and Planning</td>
<td></td>
<td>School of Public Policy</td>
</tr>
<tr>
<td>Transportation Policy and Planning</td>
<td>University of Wisconsin-Madison</td>
<td>Department of Urban Planning</td>
</tr>
<tr>
<td>Transportation Policy and Planning</td>
<td>University of California, Davis</td>
<td>Department of Environmental Science and Policy</td>
</tr>
<tr>
<td>Sustainable Transportation Planning</td>
<td>Arizona State University</td>
<td>School of Planning</td>
</tr>
<tr>
<td>Urban Transportation Planning</td>
<td>Massachusetts Institute of Technology</td>
<td>Department of Urban Studies and Planning</td>
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</tbody>
</table>

Most of the universities in the U.S. provide some type of at least one transportation related course. Many universities provide two to three courses on transportation. Those universities which do not offer any course on transportation integrate related topics in other courses such as travel demand modeling and mass transit planning. Potential transportation topics can be categorized into a) general and b) legislation and regulations.

General topics:
1. Travel demand forecasting
2. Land use and transportation
3. Transit planning
4. Pedestrian and bicycle planning
5. Software applications
6. Safety
7. Environmental justice
8. Air quality goals
9. Professional ethics
10. Gender and health
11. Physical activity

Legislation and regulations:
1. Transportation Equity Act for the 21st Century
2. Clean Air Act
3. National Environmental Policy Act
4. Americans with Disabilities Act
5. FHWA planning regulations
6. Environmental Justice Executive Order
7. Environmental Streamlining
8. FTA planning regulations
9. Title VI of the Civil Rights Act
10. Water Quality Act

The list of syllabi indicates that four different categories of institutions or schools are currently providing transportation courses, namely a) engineering b) planning and c) public policy and administration d) environmental policy. While there are more similarities among the later three groups which focus more on planning and policy aspects of transportation issues, engineering departments use more quantitative approaches to their study. Some engineering school curricula particular miss the social aspects of planning and tend to heavily skewed in favor of developing transportation models. One common aspect among all the groups is the use and application of the GIS techniques.
Objectives 3 and 4

Identification of textbook and reading materials [included in syllabi].

Development of syllabus for one semester course.

Syllabus - UA-300 Transportation Delivery Systems
Urban Studies Program/ Department of Urban and Regional Planning
School of Policy and Planning
Jackson State University
Spring 2008

Instructor:  }
Phone:   }
Email:   }
Office Hours:  } To be Determined

Course time:  }
Location:  }

Special Needs Learners
"If you have a disability for which you may be requesting an accommodation, you are encouraged to contact both your instructor and the Office of the Americans with Disabilities Act (ADA) Coordinator and Compliance Office, P.O. Box 17999, Jackson, MS 39217 (601) 979-2485 as early as possible in the term."

Diversity Statement
Jackson State University is committed to creating a community that affirms and welcomes persons from diverse backgrounds and experiences and supports the realization of their human potential. We recognize that there are differences among groups of people and individuals based on ethnicity, race, socioeconomic status, gender, exceptionalities, language, religion, sexual orientation, and geographic area. All persons are encouraged to respect the individual differences of others.

Course catalogue description:
 "This course is designed to acquaint the student with the major and current issues in transportation. The significance of transportation in the modern world, evolution of systems in America, interrelationships of the various modes and career opportunities is included."

Course objectives: The objective of the course is to provide students with an in-depth understanding of the transportation planning process at the regional and metropolitan level as it is shaped by the federal policy. The course is divided into three sections: context, process and strategies. In the first section, we will examine the history of urban
transportation, the institutions involved in transportation planning, and federal transportation policy as it related to planning at the regional level. In the second, we will review the planning process as carried out by Metropolitan Planning Organizations, including long-range transportation plans, transportation improvement programs, air quality conformity, project development, travel demand modeling, financing, and public involvement. In the final section, we will examine the evidence on a variety of demand-side strategies for addressing regional transportation problems, including pricing, transit services, bicycle and pedestrian programs, and land use policies.

**Instructional strategies:**
I expect you to attend class, complete assigned readings, participate in discussions, and submit original papers that reflect your own work. Plagiarism, the intentional or inadvertent use of someone else’s work without appropriate credit, will not be tolerated! Cutting and pasting material from the web and claiming it as one’s own is a serious offense that merits disciplinary action. Lots of useful websites are available to help you determine when citations are appropriate and to avoid accidental plagiarism. I encourage you to discuss your work with your classmates in and outside of class, but the work you submit must be your own.

**Course requirements:**
*Attendance.* Students are expected to be present in all classes and hand in assignments as set out in this syllabus or in accordance with changes as they may be decided, throughout the course, by the instructor. It is expected that students will follow university guidelines for excusable absences and will discuss these with professor in a timely fashion. All assignments must be made up and due dates adhered to.

*Participation.* Students are expected to participate in all course activities including readings, discussion, information and material gathering, in class and out of class assignments, and final papers. Being late, leaving class during class time or disrupting the classroom with cell phones or other behavior will not be tolerated.

*Papers.* They should be neat, labeled, and handed in on time. There will be a reduction of 5 points for every day late for an assignment. No papers will be accepted more than two days past the due date.

*Evaluation.* In the spirit of development, participants will receive constructive feedback about their work from instructor. I expect that we will hold each other up to the highest standards of respect for each other, diverse opinions and views, and the work that we do individually and together.

*Academic integrity.* Plagiarism is the use of the ideas of others without giving proper acknowledgement of the source of the ideas. With so many different types of information easily accessible, it can be particularly confusing to know how to give proper credit. If you are unsure, please ask so that we can together figure out the appropriate mechanisms for giving credit. Plagiarism is unacceptable and will be addressed through departmental and university channels.
Resources


Materials:
Transportation Research
Journal of Policy History
Journal of the Urban and Regional Information Systems Association Science
Transportation Quarterly
Access
Transportation
Journal of the American Planning Association

Final Assessment

Attendance 10%
First paper 10%
Second paper 10%
Third paper 10%
First test 20%
Second test 20%
Third test 20%

Grading Scale
A  90-100 (90-93 A- 94-96 A  97-100 A+)
B  80-89 (80-83 B- 84-86 B  87-89 B+)
C  70-79 (70-73 B- 74-76 C  77-79 C+)
D  60-69 (60-63 D- 64-76 D  67-69 D+)
F  Below 60

Course Evaluation

* Detailed assignment sheets will be provided for all papers. See due dates on schedule.

First paper (10%)
History: An exploration of a topic of the student's choosing relating to the history of transportation systems and/or policy. A one-page memo describing the proposal topic is due on February 5. The paper is due on February 15.

Second paper (10%)
MPO analysis: An analysis of the activities of an MPO of the student's choosing with respect to accessibility orientation, bicycle/pedestrian orientation, or another issue of the
student's choosing. A one-page memo describing the chosen MPO and analysis is due on March 4. The paper is due on May 14.

**Third paper (10%)**
*Strategy:* An evaluation of the potential of a particular strategy from the categories of pricing, transit services, bicycle/pedestrian programs, and land use policies. Topics will be selected in class on April 4. The paper will be due on April 25.

**Three tests (20% each)**
The tests will consist of mostly multiple choice and some true/false questions. The class lectures will point to areas of chapters in the textbook from where test questions will be picked and reflect. The third or final test is not cumulative. Each test will cover between 3 to 4 chapters from the textbook.

**Attendance (10%)**
Class attendance will be taken and those not coming on time will receive lesser points.

**Tentative schedule**

*Note: Schedule subject to change at the discretion of instructor and in accordance with class progress and needs.*

<table>
<thead>
<tr>
<th>Month/Day</th>
<th>Topics and assignments</th>
<th>Papers Due</th>
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</thead>
<tbody>
<tr>
<td>January</td>
<td></td>
<td></td>
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<tr>
<td>11</td>
<td>Self and instructor introduction; syllabus</td>
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<tr>
<td>15</td>
<td><strong>SETTING THE SCENE</strong></td>
<td></td>
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<tr>
<td></td>
<td>Chap. 1 The Context of Urban Travel: Concepts and Recent Trends. pp. 1-14</td>
<td></td>
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<tr>
<td>18</td>
<td>Chap. 1 The Context of Urban Travel: Concepts and Recent Trends. pp. 15-29</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Chap. 2 City Interactions: The Dynamics of Passenger and Freight Flows. pp. 30-45</td>
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<tr>
<td>25</td>
<td>Chap. 2 City Interactions: The Dynamics of Passenger and Freight Flows. pp. 46-58</td>
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<tr>
<td>29</td>
<td>Chap. 3 Transportation and Urban Form: Stages in the Spatial Evolution of the American Metropolis. pp. 59-72</td>
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<tr>
<td>February</td>
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<tr>
<td>1</td>
<td>Chap. 3 Transportation and Urban Form: Stages in the Spatial Evolution of the American Metropolis. pp. 73-85</td>
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<tr>
<td>5</td>
<td><strong>Last day to drop the course with no grade</strong></td>
<td><em>First Paper proposal due</em></td>
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<tr>
<td></td>
<td>Chap. 4 Impact of Information Technologies. pp. 86-100</td>
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<tr>
<td></td>
<td>Chap. 4 Impact of Information Technologies. pp. 101-114</td>
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<tr>
<td>8</td>
<td><strong>First test</strong></td>
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<tr>
<td>12</td>
<td><strong>PLANNING FOR MOVEMENT WITHIN CITIES</strong></td>
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<td></td>
<td>Chap. 5. The Urban Transportation Planning Process. pp. 115-127</td>
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<tr>
<td>Date</td>
<td>Event</td>
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<tr>
<td>15</td>
<td>Chap. 5. The Urban Transportation Planning Process. pp. 128-140</td>
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<tr>
<td>19</td>
<td>Chap. 6 Reflections on the Planning Process. pp. 141-151</td>
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<tr>
<td>22</td>
<td>Chap. 6 Reflections on the Planning Process. pp. 152-162</td>
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<tr>
<td>26</td>
<td>Chap. 7 GIS in Urban-Regional Transportation Planning. pp. 163-180</td>
<td></td>
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<tr>
<td>29</td>
<td>Chap. 7 GIS in Urban-Regional Transportation Planning. pp. 181-199</td>
<td></td>
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<tr>
<td>March</td>
<td></td>
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<tr>
<td>4</td>
<td>Chap. 8 Public Transportation pp. 199-217</td>
<td><em>Second paper memo due</em></td>
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<tr>
<td>7</td>
<td>Chap. 8 Public Transportation pp. 218-2236</td>
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<tr>
<td>Mon 10</td>
<td><em>Mid semester grades due</em></td>
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<tr>
<td>11</td>
<td><em>Second test</em></td>
<td></td>
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<tr>
<td>14</td>
<td>Chap. 9 Land Use Impacts of Transportation Investments; Highway and Transit. pp. 237-255</td>
<td><em>Second paper due</em></td>
</tr>
<tr>
<td>18</td>
<td><em>Spring break</em></td>
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<tr>
<td>21</td>
<td><em>Holiday break</em></td>
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<tr>
<td>25</td>
<td>Chap. 9 Land Use Impacts of Transportation Investments; Highway and Transit. pp. 256-273</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Chap. 10 Transportation and Energy. pp. 274-284</td>
<td></td>
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<tr>
<td>April</td>
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<tr>
<td>1</td>
<td>Chap. 10 Transportation and Energy. pp. 285-293</td>
<td><em>Third paper topic selected</em></td>
</tr>
<tr>
<td>4</td>
<td>Chap. 11 The Geography of Urban Transportation Finance pp. 294-313</td>
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<tr>
<td>8</td>
<td>Chap. 11 The Geography of Urban Transportation Finance pp. 314-331</td>
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<tr>
<td>18</td>
<td>Chap. 13 Transportation and the Environment pp. 356-369</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Chap. 13 Transportation and the Environment pp. 370-381</td>
<td></td>
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<tr>
<td>25</td>
<td><em>Guest speaker</em></td>
<td><em>Third paper due</em></td>
</tr>
<tr>
<td>Mon 28</td>
<td><em>Last day to withdraw from the university</em></td>
<td></td>
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<tr>
<td>29</td>
<td>Chap. 14 Managing the Auto pp. 382-394</td>
<td></td>
</tr>
<tr>
<td>May</td>
<td></td>
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<tr>
<td>2</td>
<td>Chap. 14 Managing the Auto pp. 395-404</td>
<td><em>Final</em></td>
</tr>
<tr>
<td>6</td>
<td><em>Final</em></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td><em>Grade reports due in the Office of the Registrar and Records</em></td>
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</tbody>
</table>
Objective 5

Curricular materials to be used in conjunction with syllabi.

Assignment on Historical Topic Description

In this assignment, you will complete a 10-page double-spaced research paper on a topic of your choosing related to the history of urban transportation. For this paper, I expect you to do extensive research and develop a thesis about your topic. In your paper, I expect you to clearly articulate this thesis, build an argument to support this thesis, use research and evidence as appropriate in developing this argument, and otherwise write a clear, convincing, and interesting paper. Note that you must cite your sources using one of the accepted practices (see below). Your one-page memo should describe your topic, some preliminary ideas about a thesis, and 4-5 initial references. The paper, including the memo, will be worth 30% of your final grade. Just a small sample of the countless interesting topics possible for this paper:
- Streetcar suburbs: the role of land speculation
- The early importance of the automobile in rural America
- The impact of the Model T on American society
- The rationale for the Interstate Highway System
- The role of GM in the demise of streetcar systems
- Roadside architecture
- The emergence of environmental concerns in federal transportation policy
- The freeway revolts of the 1960s
- The evolution of emissions control technologies
- The role of the US oil industry in shaping federal transportation policy
- Evolving concepts of modern highway design

Finding help on writing a research paper

If you’re unsure about how to approach this assignment, review one of the numerous websites on writing a research paper, for example:
http://www.dartmouth.edu/~writing/materials/student/toc.shtml or
http://owl.english.purdue.edu/workshops/hypertext/ResearchW/index.html

How to find articles and information:
Although the Internet provides access to oodles of information these days, the library is still your primary source for academic research. The library’s website links you to several important databases that enable you to search for books or articles on your specific topic. These databases now include electronic versions of a large share of academic articles — but not all of them. Start with these databases to search for academic articles. If the database does not provide you with “full text,” then go to the Harvest Library Catalog and search for the journal the article is in. With luck, it will be available either electronically or in old-fashioned print in the library. You might also try www.sciencedirect.com for electronic versions of articles.
JSU Thompson Library Electronic Databases. Look for:

- Expanded Academic ASAP – a multidisciplinary database that includes academic articles and articles from the popular magazines.
- PAIS International Database – indexes all types of materials in the area of public affairs
- Web of Science (run by ISI Web of Knowledge) – multidisciplinary database that links articles by citations; if you find one good article, you can use this database to search for later articles that cite this article or to find all articles by the same author.
- TRIS Online – the best place to go for transportation research, including academic articles and research reports

A really useful trick: If you find a really good article, especially a recent one, take a look at the articles it cites. Be sure to consider what the article says about the articles it cites, though – you want to focus on the ones they talk about in positive terms! Then use the Web of Science database for newer articles that cited your reference. (To actually do this type of search, click "connect" to get to the database, click "full search", and then click "cited ref search". Enter the information about the older article (or book), and the search engine will find newer articles for you that referenced that one.)

Books, research reports, and government reports are also acceptable sources and may be particularly useful for this assignment. But they are often harder to use than a succinct article. They also generally go through a more limited peer-review process (if any) than academic articles, so that quality may be more of an issue. Books are most easily found through the Harvest Library Catalog; you’ll have to go to the library to get them.
Research reports and government reports may turn up in some of the electronic databases (e.g. PAIS or TRIS) but are often most easily found through a Google search.

Google searches are a good way to find background information on your topic, but you have to use this tool carefully. Not all information on the web is to be trusted! Use the following questions in evaluating what you find on the web:

☐ Who or what is the author of the website?
☐ Is the site advocating a particular point of view?
☐ Does the web site give accurate and complete references?
☐ Are the data up-to-date?
☐ Are the data official?
☐ Is it a university research site?
☐ Do the data seem consistent with data from other sites?

A few words about citations
Citation format is getting more complicated as more materials become available on-line. The author-date format is used most widely in planning journals (i.e. (author year) in the text, with a list of references at the end of the paper) but other formats are acceptable if used correctly and consistently. My general rule of thumb is that you need to provide enough information that the reader could find the item herself. For things like
government reports, this includes the agency, the report number, the date, and, if possible, a phone number or email address for the agency. I suggest using the Chicago, APA, or MLA manuals of style, available through the library (http://www.lib.ucdavis.edu/instruc/citing/). You can also take a look at the reading list for the course for an example of an acceptable bibliographic format.
Research Paper: MPO Evaluation

Description
Through a variety of activities, MPOs shape the transportation systems of metropolitan regions. Built into these activities, sometimes explicitly but often implicitly, are the values and priorities of the MPO. Although the traditional concern of traffic congestion still dominates for many MPOs, others have begun to reorient their long-range plans and activities to address other concerns, particularly those related to non-driving modes and environmental impacts.

In this research paper, you will evaluate the activities of a selected MPO as to the degree to which it reflects one of three orientations:

- Accessibility vs. mobility orientation
- Bicycle and walking orientation
- Sustainability orientation

Tasks
The first step after selecting an issue and an MPO is to develop a framework for the evaluation. An example of an evaluation framework is the one I developed for “Planning for Accessibility.” The framework specifies what you will look for in the activities of the MPO and how you will categorize different aspects of those activities. For example, my “Planning for Accessibility” framework specifies that if a goal “focuses on reducing congestion or improving travel times,” it should be classified as mobility-oriented, and if it “focuses on reducing the need for travel,” it should be classified as accessibility oriented.

It might also help to think in terms of criteria – e.g. what criteria would a plan have to meet to be considered sustainability oriented? Start by reviewing the document provided on the website for your issue. We’ll spend some time on this in class as well to ensure that everyone analyzing the same issue is using the same framework. The second step is to use this framework to analyze the activities of your MPO. The activities I would like you to analyze and my suggestions on what about them to analyze are as follows:

1. Long-range plan:
   a. Goals
   b. Performance measures
   c. Projects funded

2. Travel demand model: if sufficient documentation is available…
   a. Modes included in model
   b. Sensitivity to policy variables
   c. Performance measures produced by model
3. Project prioritization for TIP:
   a. Criteria used
   b. Weights given to criteria

4. Other activities: Other things the MPO is doing that seem directly relevant, e.g. special studies, advisory committees, workshops, etc.

Your analysis will be largely qualitative but may involve some quantitative aspects. For example, you might count the number of projects or amount of funding that falls into different categories. Another approach is to create a table that lists items that fall into different categories. Examples and quotes are useful in supporting your analysis. The third step is to write-up your results.

**Paper and Memo**
Your paper should be no more than 10 pages (not counting tables and figures) double-spaced with 12-point font and 1-inch margins. I suggest an outline for your paper to follow this format:

- Describe the issue, in the context of MPOs
- Explain the evaluation framework
- Provide a little background on the MPO
- Present the analysis of the activities of the MPO using the evaluation framework
- End with an overall assessment of the MPO’s activities on this issue

Be sure to include citations for the documents you are analyzing and give page numbers when you refer to specific examples or use quotes. Think about summary tables – a useful way to convey information for a project like this.

Your one-page memo should do two things: 1) name the MPO you have selected and provide a little background about the MPO, and 2) name the issue you have selected and provide a brief discussion of this issue.

The paper, including the memo, will be worth 30% of your final grade. I will grade based on both the thoughtfulness of the analysis and the clarity of the writing.
Group Project Assignment

Through the efforts of Mississippi’s congressional delegation, an earmark will be set aside for development of a transportation management system featuring ITS technologies for the Jackson metropolitan area in the next transportation authorization bill. The bill clause will read:

$5,555,000 for development of a transportation management system for the Jackson metropolitan area to include advanced traffic management, traveler information, and transit management systems

You have been asked to advise the congressional delegation on an amount for the set-aside. The delegation expects a value between $250,000 and $500,000. The delegation also expects a vision for how the money could be used to improve the safety and efficiency of the transportation system in the area, in order to justify the recommended amount of the set-aside and to provide an outline to a future consultant to develop the detailed design for the system. The only other guidance given by the delegation is that the plan you develop for the system must include each of the three application areas to be mentioned in the authorization bill. The deliverables for the delegation include a technical report and presentation. Specific requirements are as follows:

The report shall include a brief overview of each of the three ITS application areas specifically included in the bill.

- The report shall be between 15 and 25 pages in length (with double-space text).
- The report shall address the first two steps in the Regional ITS Architecture Development Process, as described in FHWA Report No. FHWA-HOP-06-112, Regional ITS Architecture Guidance.
- The report shall recommend specific ITS elements for each of the three areas, including construction/installation cost estimates for the components, with references (for example, if automated traffic data collection is to be included as an element, candidate detector types and communications infrastructure systems should be identified, along with associated costs).
- The report shall include justification for each component recommended, with references (for example, if traffic signal pre-emption to be included as an element, potential intersections and vehicles, expected benefits in terms of travel time for buses and/or emergency vehicles and associated values should be estimated). References should be cited in author/date format (Jones 2002) and listed at the end of the report.
- The report shall conclude with justification for the value to be inserted into the bill and a summary of the proposed system.
- The presentation shall be between 16 and 22 minutes long and employ visual aids and information and communication technology whenever possible.
ITS Resources

Useful ITS Internet Links

USDOT ITS webpage, includes links to the ITS Electronic Document Library and several other USDOT ITS-related websites http://www.its.dot.gov

USDOT ITS Applications Overview http://www.itsoverview.its.dot.gov

ITS Architecture Guidance Resources Page http://www.ops.fhwa.dot.gov/its_arch_imp/resources.htm


ITS Deployment Tracking - Survey Results http://www.itsdeployment.its.dot.gov


ITS Benefits and Costs Database http://www.benefitcost.its.dot.gov

ITS America http://www.itsa.org


California PATH Program http://www.path.berkeley.edu

TRIS Online (Transportation Research Information Services) http://ntl.bts.gov/tris

Links to traffic management system websites Transportation links at ALSITE web site

Vehicle Detector Clearinghouse http://www.NMSU.Edu/~traffic/

ITS publications

Reports of the Federal Highway Administration:

FHWA-JPO-06-011 ITS Resource Guide 2006 (previous years' editions also available)
FHWA-JPO-99-023 Communications for Intelligent Transportation Systems: Successful Practices, Across Cutting Study
FHWA-JPO-99-040 Intelligent Transportation Systems in the Transportation Equity Act for the 21st Century
FHWA-OP-99-029 TMC Concept of Operations Implementation Guide
FHWA-OP-00-003 Intelligent Transportation Systems at International Borders
FHWA-OP-01-006 What Have We Learned About Intelligent Transportation Systems
FHWA-OP-01-034 San Antonio's Medical Center Corridor
FHWA-OP-01-036 Phoenix's Roadway Closure and Restriction System
FHWA-OP-01-037 Automated Vehicle Identification Tags in San Antonio
FHWA-OP-01-038 Advanced Warning for Railroad Delays in San Antonio
FHWA-OP-02-003 FHWA's Final Rule and FTA's Policy for Applying the National ITS Architecture at the Regional Level
FHWA-OP-02-023 Deploying and Operating Integrated Intelligent Transportation Systems
FHWA-OP-02-024 Regional ITS Architecture Guidance
FHWA-OP-02-025 Intelligent Transportation Systems in Work Zones: A Cross-Cutting Study
FHWA-OP-02-031 Incorporating Intelligent Transportation Systems into Planning Analysis
FHWA-OP-02-035 Using Metropolitan ITS Deployment Tracking for Regional ITS Planning
FHWA-OP-02-083 Metropolitan ITS Integration: A Cross-Cutting Study
FHWA-PD-98-026 Transportation Planning and ITS: Putting the Pieces Together

Other reports:


Oregon Department of Transportation. TransPort Transportation Portland: A New Way of Thinking.


Virginia Department of Transportation. Smart Travel Program Activities: Summary of 1997-98 Activities

Virginia Department of Transportation. Smart Travel Program Activities: May 1997 Update.

Virginia Department of Transportation. Smart Travel Business Plan, 1997-2006

Virginia Department of Transportation. Smart Travel Business Plan, 1997-2006: 1998 Update

Virginia Department of Transportation. Commonwealth of Virginia: ITS/CVO Business Plan