

**SUBCOMMITTEE ON INTEGRATED TRANSPORTATION
AND LAND USE MODELING
ADB40(2) (Formerly A1C02(2))**

**SUBCOMMITTEE ANNUAL MEETING
83rd ANNUAL MEETING OF THE TRANSPORTATION RESEARCH BOARD
TUESDAY, JANUARY 13, 2004, Noon-1:30 P.M.
BANCROFT ROOM, HILTON WASHINGTON HOTEL**

The agenda for the meeting is provided in Attachment A

1. Welcome and Introductions. Co-chairs Eric Miller and Douglas Hunt welcomed attendees to the meeting. Including the co-chairs, 40 people were in attendance, of which 27 were first time attendees to the Subcommittee. Adding new attendees to the Subcommittee's mailing list, brings the list of Subcommittee friends/members to 72 (see Attachment B). The current distribution of membership is:

	US	Other	Total
Universities	15	15	30
MPO/Local Gov't	11	0	11
State DOT	1	0	0
Federal	4	1	5
Consultants	20	5	25
Total	51	21	72

The subcommittee number change from A1C02(2) to ADB40(2) was noted.

2. Review of 2004 Annual Meeting Activities. Two paper sessions were held dealing with integrated modeling:

Session 539, Land Use & Transportation Modeling, Part 1
Tuesday, 3:45-5:30pm, International West

Session 570, Land Use & Transportation Modeling, Part 2
Tuesday, 7:30-9:30pm, International West

Approximately 60-70 people attended the first session, while 50-60 attended the evening session. In addition, several integrated modeling related posters were included in the Tuesday morning "mega poster session" (Session 440).

It was noted that the Subcommittee had submitted a proposal during the past year for a synthesis report on "Data Availability and Data Standards for Land Use - Transportation Models". The status of this proposal, however, is currently unknown. Chandra Bhat, chair of ADB40 indicated that he would investigate this issue.

3. Discussion of Subcommittee Activities. As usual for this Subcommittee, a very fruitful discussion occurred concerning issues in integrated modeling and opportunities for Subcommittee actions to address these issues.

3.1 Identification of Priority Issues. While covering considerable ground, three main issues emerged from the discussion that the Subcommittee identified as priority items for Subcommittee action. These are:

(a) Operational Models /Implementation. Considerable discussion centered on the need inform practicing planners about the capabilities, needs and opportunities with respect to integrated models. What do they actually do; what impacts on can they have on policy analysis and decision-making; what are their resource requirements; etc. Most important, is the need to provide examples of “success stories” in which practical models are actually up and running and have made a difference in terms of improved decision-making.

One recent example of such an activity was an MPO peer exchange workshop that was held last year. A summary of this exchange can be found in the following report:

Peer Exchange Report
Land Use Models in Transportation Planning
Tucson AZ March 24-25/03
Transportation Planning Capacity Building Program
Planning for a Better Tomorrow
USDOT FHWA/FTA

There was unanimous agreement within the meeting that a primary purpose of this Subcommittee should be to undertake this information dissemination task.

(b) Space, Time: Representation, Perception, Modeling. A number of issues and ideas associated with how we represent both space and time in our models, the extent of our understanding of people’s perceptions of space and time, how we deal short- and long-run decision processes within an integrated framework, and repercussions of these issues for integrated models. It was agreed that much research remains to be done in this area and that findings from other disciplines such as psychology, sociology, geography, etc. are important to further developments in our models.

(c) Performance Measures. A particularly important element of any model is the measures of system performance (benefits, costs, consumer surplus, equity measures, etc.) that it is capable of generating. A particularly important advantage (in principle) of integrated models is the extent to which they are capable of providing new ways of measuring and displaying impacts, and of computing new, useful performance measures, including user benefits, economic benefits, equity impacts, etc.

Two other issues that were briefly discussed but that did not lead to an action item at this time:

- Modeling building stock / land development processes

- “Endogeneity” issues in model specifications/structure

3.2 Recommended Committee Actions. The following action items were identified for the Subcommittee to undertake during 2004.

(a) Sunday workshop on operational integrated transportation - land use modeling. The Subcommittee plans on mounting a Sunday workshop at the 2005 TRB Annual meeting. This workshop would cover (perhaps among other topics):

- an introductory “primer” on types of land use models and current capabilities of the state of best practice (non-technical in nature)
- presentations of a number of “case studies” of operational models, issues to include:
 - typical development and operating costs
 - data requirements
 - model capabilities
 - specific examples of model applications and their impacts on decision-making

(b) Calls for Papers. Two Paper Calls for the 2005 TRB Annual Meeting were agreed upon:

(i) A Call from this Subcommittee for papers dealing with a variety of issues/approaches concerning representation and/or perception of space and/or time

(ii) The possibility of a joint Call with Committee ABC30, Performance Measurement will be investigated for a paper session dealing with performance measures in integrated models.

(c) Website development. A simple website dealing with integrated transportation - land use modeling will be developed. It will focus on establishing links to relevant papers, studies, model documentation, etc. This site might possibly be established within the existing A1C02 site.

(d) Oregon Integrated Modeling Symposium. The next conference in the series of Oregon-sponsored symposia is scheduled for January, 2005. Approximately half of the conference program typically deals with “non-Oregon-based” advances in integrated modeling. Opportunities for the Subcommittee to work with the Oregon conference organizers to help shape the conference’s agenda will be explored.

Options for Subcommittee participation in the TRB Mid-Year Meeting were briefly discussed, but no recommendation for participation was generated at this time.

4. Other Business. No other business was brought forward.

5. Adjournment. The meeting adjourned precisely at 1:30 p.m.

ATTACHMENT A

**ADB40(2) (Formerly AICO2(2))
SUBCOMMITTEE ON INTEGRATED TRANSPORTATION
AND LAND USE MODELING**

Subcommittee of Committees ADB40 and AID02

**SUBCOMMITTEE ANNUAL MEETING
TUESDAY, JANUARY 13, 2004
12:00 - 1:30 P.M.
BANCROFT ROOM, HILTON WASHINGTON HOLTEL**

AGENDA

1. Welcome and Introductions
2. Review of 2004 Annual Meeting activities
3. Discussion of Subcommittee Activities
4. Other Business
5. Adjournment

ATTACHMENT B – LIST OF SUBCOMMITTEE FRIENDS/MEMBERS

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