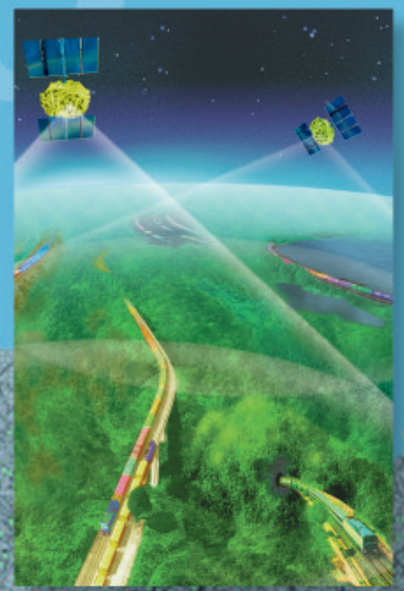
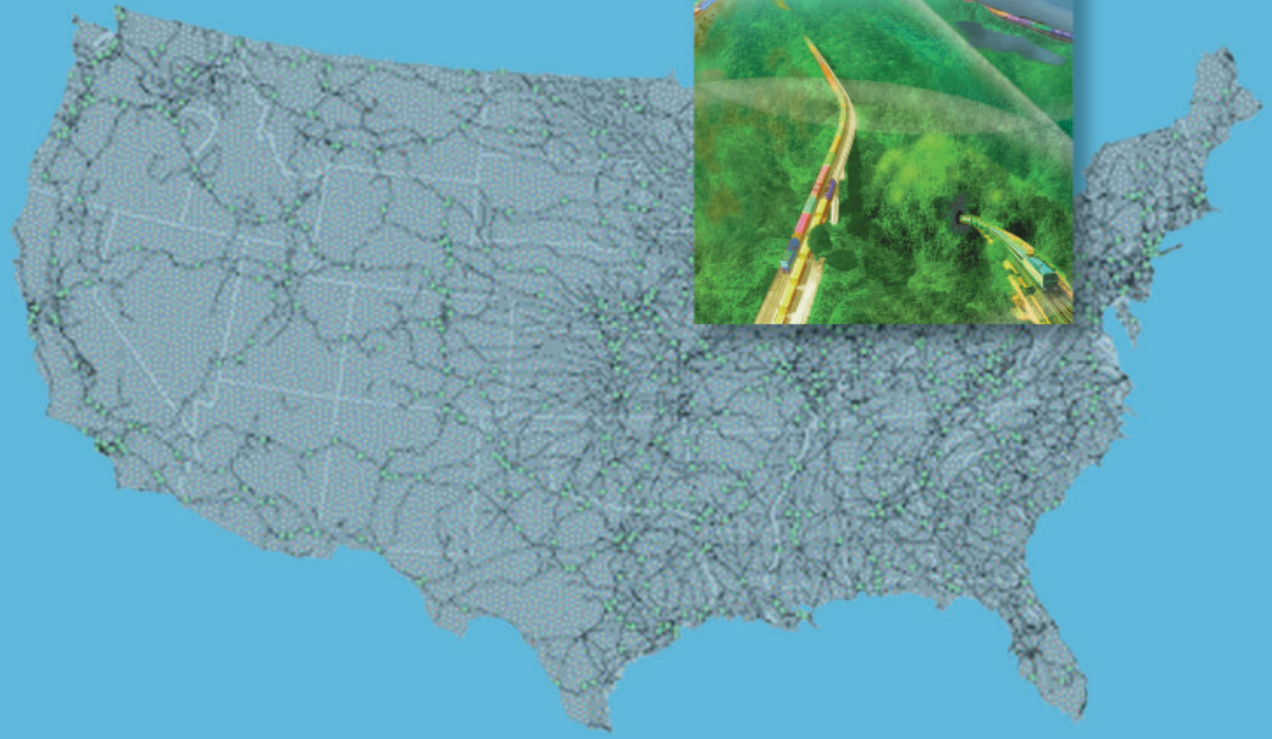
HUMAN FACTORS & SAFETY RESEARCH 2000





U.S. Department
of Transportation
**Research and
Special Programs
Administration**

John A. Volpe
National Transportation
Systems Center

55 Broadway
Cambridge, MA 02142-1093
612.494.2000

HUMAN FACTORS & SAFETY RESEARCH 2000

WORKSHOP

Cambridge, MA

COLLABORATION BETWEEN

U.S. Department of Transportation
Research and Special Programs
Administration
Volpe National Transportation
Systems Center

and

Dutch Ministry of Transport
Transport Research Centre AVV

Dutch Participants

Joop H Kraay (e-mail: j.h.kraaij@avv.rws.minvenw.nl)
Willem Vlakveld (e-mail: w.p.vlakveld@avv.rws.minvenw.nl)
Harry Derriks (e-mail: h.m.derriks@avv.rws.minvenw.nl)
Ad Kranenburg (e-mail: a.j.kranenburg@avv.rws.minvenw.nl)
Lies Duynstee (e-mail: m.l.duynstee@avv.rws.minvenw.nl)
Ministry of Transport
AVV Transport Research Centre
Boompjes 200
PO Box 1031
NL-3000 BA Rotterdam
The Netherlands

Karel Brookhuis (e-mail: k.a.brookhuis@ppsw.rug.nl)
University of Groningen
Centre for Environmental and Traffic Psychology COV
Grote Kruisstraat 2
NL-9712 TS Groningen
The Netherlands

Divera Twisk (divera.twisk@swov.nl)
Siem Oppe (oppe@worldonline.nl)
SWOV Institute for Road Safety Research
Duindoorn 32
PO Box 1090
NL-2260 BB Leidschendam
The Netherlands

Marianne Junger (e-mail: junger@niscale.leidenuniv.nl)
Utrecht University
Department of Development Psychology
Faculty of Social Sciences
PO Box 80.140
NL-3508 TC Utrecht
The Netherlands

Jan Vissers (e-mail: jamm.vissers@traffictest.nl)
Reinoud Nagele (e-mail: rc.nagele@traffictest.nl)
Traffic Test
Landjuweel 22
NL-3905 PG Veenendaal
The Netherlands

Karel van den Bosch (e-mail: vandenBosch@tm.tno.nl)
TNO Human Factors Research Institute
Kampweg 5
PO Box 23
NL-3769 ZG Soesterberg
The Netherlands

Human Factors and Safety Research Workshop 2000

US Dept. of Transportation,
Volpe National Transportation Systems Center

Dutch Ministry of Transport,
Public Works and Water Management, Transport Research Centre

Cambridge, MA
November 13-15, 9-5 P.M.

Monday 13 November 2000

9:00 Welcome to the Volpe Center
Richard R. John, Center Director
Frank F. Tung, Deputy Center Director
Herbert H. Gould, Deputy Director, Office of Safety and Security
Room 1261

9:15 Workshop Goals and Program
USA:William Lyons
NL: Joop Kraay
Room 1261

9:30 Strategies To Manage Operator Fatigue And Alertness In Transportation
Moderator: Don Sussman, Volpe
USA: Steve Popkin,Volpe; Ron Knipling Federal Motor Carrier Safety Administration (FMCSA)
NL: Willem Vlakveld and Joop Kraaij (AVV); Karel A. Brookhuis, Traffic Research Centre, University of Groningen (RUG)
Room 1261

12:00 Lunch
Reserved Dining Room

1:00 Overview-Volpe National Transportation Systems Center
Richard John, Director
Director's Conference Room,
12th Floor, Building. 1

2:00 The Risks of Young and Novice Drivers
Moderator: Don Sussman, Volpe
USA: Sherry Borener, David Skinner, Volpe; Mike Smith, National Highway Traffic Safety Administration (NHTSA)
NL:Devira Twisk (SWOV); Marianne Junger (NSCR); Jan Vissers, Reinoud Nagele (Traffic Test)
Room 1261

5:00 Adjourn

Tuesday 14 November 2000

9:00 GIS Applications to Enhance Safety
Moderator: Sherry Borener
USA:William Bailey, Volpe
NL: Harry Derrks, AVV; Siem Oppe, SWOV
Room 1261

11:00 John F. Kennedy Library and Museum Tour
Columbia Point, Boston, MA

1:30 International Comparison of Safety and Risk
Moderator: Sherry Borener
USA: David Skinner, Mark Safford, Volpe; Basav Sen, EG&G
NL: Harry Derrks, AVV; Siem Oppe, SWOV
Room 1261

4:00 Demonstration-Enhanced Traffic Management System's Aircraft Situation Display
Operations Center, Building 3

5:00 Adjourn

5:30 Dinner
Helmand's Restaurant, 143 First St., Cambridge, MA

Wednesday 15 November 2000

9:00 Advanced Instructional Technologies to Enhance Transportation Operators' Performance
Moderator: Mary Stearns
USA: Don Sussman, Volpe
NL: Ad Kranenburg, AVV; Karel Van den Bosch,TNOTM
Room 1261

11:30-1:00 Lunch
Legal Seafoods, 5 Cambridge Center, Cambridge, MA

1:00 User Acceptance of ITS Technology
Moderator: Mary Stearns
USA: Wassim Najm, Linda Boyle Volpe; Jane Lappin, EG&G; Tom Granda, Federal Highway Administration
NL: Lies Duynstee,
Room 1261

3:00 Summary of Cross-National Workshop
Moderators: Bill Lyons, Volpe: Joop Kraaij, AVV
USA, All
NL: All
Room 1261

4:00 Planning Session for Rotterdam 2001
Moderators: Bill Lyons, Volpe: Joop Kraay, AVV
USA, All
NL: All

5:00 Workshop Conclusion

U.S. Participants

Thomas M. Granda, FHWA (thomas.granda@fhwa.dot.gov)
Traffic Safety Division Human Centered Systems, HRDS-07
Federal Highway Administration
Turner-Fairbank Highway Research Center
6300 Georgetown Pike
McLean, VA 22101-2296

Ronald Knipling, FMCSA (ron.knipling@fhwa.dot.gov)
Federal Motor Carrier Safety Administration, MC-RTR
400 Seventh St., SW Room 3107
Washington, DC 20590

Michael F. Smith, NHTSA (michael.smith@nhtsa.dot.gov)
National Highway Transportation and Safety Administration, NTS-30
400 Seventh St., SW Room 5125
Washington, DC 20590

William H. Bailey, Ph.D. (wbailey@exponent.com)
Principal Scientist, Exponent Health Group
420 Lexington Avenue, Ste. 408
New York, NY 10170
http://www.exponent.com

Joseph Coughlin (coughlin@mit.edu)
Director, New England
University Transportation Center
Bldg. 1-Rm. 335
77 Massachusetts Avenue
Cambridge, MA 02139

Jane Lappin, EG&G, DTS-919 (lappin@volpe.dot.gov)

Basav Sen, EG&G, DTS-919 (sen@volpe.dot.gov)
US DOT Volpe Center
55 Broadway, Cambridge, MA 02142

Don Sussman, DTS-79 (sussman@volpe.dot.gov)

William Lyons, DTS-49 (lyons@volpe.dot.gov)

Mark Safford, DTS-24 (safford@volpe.dot.gov)

Sherry Borener, DTS-73 (borener@volpe.dot.gov)

Linda Boyle, DTS-73 (boyle@volpe.dot.gov)

David Skinner, DTS-79 (skinner@volpe.dot.gov)

Wassim Najm, DTS-73 (najm@volpe.dot.gov)

Mary Stearns, DTS-79 (stearnsm@volpe.dot.gov)

Stephen Popkin, DTS-79 (popkin@volpe.dot.gov)

US DOT Volpe National Transportation Systems Center
55 Broadway
Cambridge, MA 02142