

Transportation: Putting Innovation and People to Work



1 U.S. Transportation Secretary Ray LaHood (left) and Rodney Slater, who served from 1997 to 2001, share perspectives on current and future transportation issues in a dialogue with four other transportation secretaries at the 2012 TRB Annual Meeting.

2 More than 11,000 transportation professionals from 70 countries attended this year's Annual Meeting—a record crowd.

*Annual Meeting
photographs by Risdon
Photography*

Transportation's role as an instrument for innovation and economic growth was the focus of the Transportation Research Board's 91st Annual Meeting, January 22–26, 2012, in Washington, D.C. More than 11,000 transportation professionals, scholars, and administrators convened from across the globe, setting an attendance record for the meeting. Approximately 4,000 presentations and 650 workshops and sessions—along with committee meetings, special events, and awards presentations—gave attendees opportunities to network and to share research findings. More than 80 sessions and workshops addressed the meeting's theme, "Transportation: Putting Innovation and People to Work."

In 2012, attendees could browse the Annual Meeting Final Program using an e-reader or tablet as well as the online interactive version and hard copy; a daily e-newsletter allowed participants to access meeting news, photos, and updates on the go. Slides from more than 7,000 presentations at the 2012 and 2011 meetings, as well as videos of more than 80 high-profile sessions, were posted to the searchable Annual Meeting Online portal.

William W. Millar, recently retired as President from the American Public Transportation Association and past chair of the TRB Executive Committee, delivered the 2012 Thomas B. Deen Distinguished Lecture

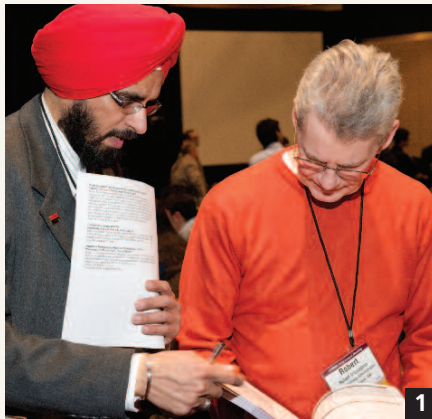
on "Public Transportation: Today and Tomorrow." The featured speaker at the Chairman's Luncheon was Earl Swift, journalist and author of *The Big Roads: The Untold Story of the Engineers, Visionaries, and Trailblazers Who Created the American Superhighways*; the event included a book signing and major award presentations.

Details and highlights appear on the following pages.



INTERSECTIONS

1 At the New and Young Attendees Welcome Session, Environment and Energy Section chair Robert O'Loughlin (*right*), Federal Highway Administration (FHWA), shows Gurdas Sandhu, North Carolina State University, sessions of interest in the Annual Meeting program.



2 Robert McGennis, The HollyFrontier Companies, explains the activities of the Asphalt Materials Section at the Welcome Session. Approximately one-third of this year's Annual Meeting participants were attending the meeting for the first time.



3 Marie Launay (*right*), Euro Project Consult, confers with Leigh Blackmon Lane, North Carolina State University, after a meeting of the Transportation and Sustainability Committee.



4 After delivering the keynote address at the Chairman's Luncheon, author Earl Swift (*left*) signs copies of his book, a history of the Interstate Highway System.



5 The Technical Activities Council oversees the Annual Meeting program.



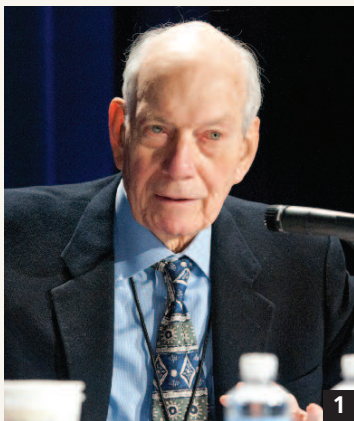
5 TRB Technical Activities Council (*front row, left to right*): Steven Silkunas, Johanna Zmud, Harold (Skip) Paul, Council Chair Katherine Turnbull, Mark Norman, Ronald Knipling, Thomas Wakeman; (*back row, left to right*): Mark Kross, Peter Swan, Peter Mandle, Thomas Kazmierowski, Paul Carlson, Anthony Perl, and Edward Kussy.

6 Victor Mendez (*right*), Administrator, FHWA, visits the Long-Term Bridge Performance Program booth in the Exhibit Hall and speaks with Krystal Smith, Center for Advanced Infrastructure and Transportation at Rutgers University, and Robert Zobel, FHWA.



7 Amanda DiFiore, QuintetiQ, demonstrates a desktop trainer that senses the alertness of locomotive drivers. The Exhibit Hall featured displays from more than 150 organizations, including TRB sponsors.





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SPOTLIGHT ON HISTORY

A panel of U.S. Transportation Secretaries—whose tenures span five decades—gathered before a standing room-only audience to discuss policy challenges and successes during their tenures and to contemplate the future of transportation. The event was moderated by Debra Miller, former Kansas DOT Secretary and former TRB Executive Committee Chair. The panel of Secretaries included

1–6 (top row, left to right:) Alan Boyd, 1967–1969; James Burnley, 1987–1989; Andrew Card, 1992–1993; (second row, left to right:) Ray LaHood, 2009–present; Rodney Slater, 1997–2001; and Samuel Skinner, 1989–1991.

SESSIONS AND WORKSHOPS



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7 Laura Fay, Western Transportation Institute, leads a workshop on Environmental Management of Low-Volume Roads.

8 In his address at the Human Factors Luncheon, Michael Perel examined popular media interpretation and portrayal of transportation safety issues.

9 Audience members listen to a presentation on data mining, part of the Human Factors workshops at the Annual Meeting.

10 Gerardo Flintsch, Virginia Tech, delivers an update on the SHRP 2 continuous deflection study.

11 E. Clive Chirwa, University of Bolton, United Kingdom, presides over a workshop on rollover crashes and crashworthiness.

12 Debra Brisk, Kimley-Horn & Associates, Inc., describes a case study in innovative project delivery under SHRP 2.

SESSIONS AND WORKSHOPS

(continued)

1 Jim Young, Union Pacific, shares the industry perspective at a session on Freight Rail Innovation.

2 Joe Mahoney, University of Washington, presents products from a SHRP 2 project on long-life pavement rehabilitation.

3 Olivia Fonseca, Padilla and Associates, Inc., guides a discussion on Fostering Small Business Participation.

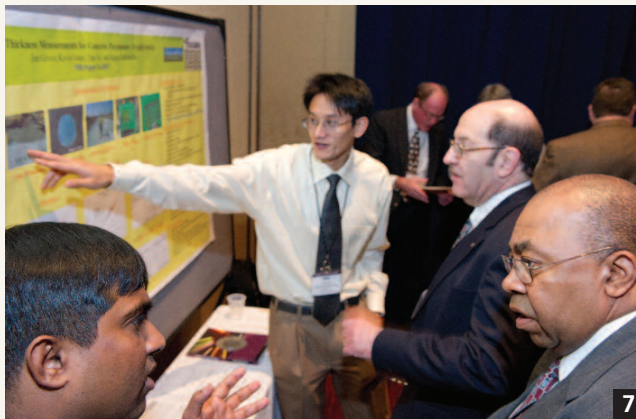
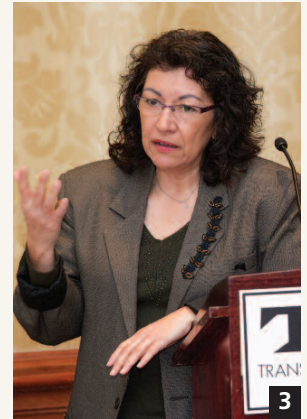
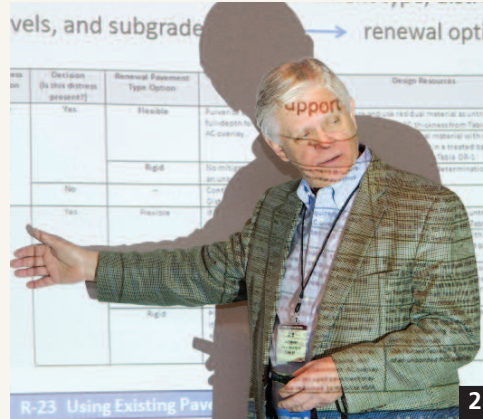
4 A session on Performance of Thin Lifts and Fine-Graded Asphalt Surfaces was led by Timothy Aschenbrener, Applied Pavement Technology, Inc.

5 Reporting on a December conference on critical data needs for decision making, Anne Stubbs, Coalition of Northeastern Governors, explores requirements for successful data delivery.

6 Tom Farmer, Association of American Railroads, participates in a panel discussion on Rail Security.

7 Jagan Gudimettla (*foreground, left*) shares research findings on thickness measurements for concrete pavements with Jeffery W. Brown (*foreground, right*), Alabama DOT, while other participants review a poster on intelligent compaction technology research.

8 Nicole van Nes, SWOV Institute for Road Safety Research, Netherlands, details feasibility research for the large-scale European naturalistic driving study PROLOGUE.



9 Stephanie Camay, URS Corporation, explores Economic Impact and Environmental Sensibilities of Ferry Transportation.

10 Daniel Turner, University of Alabama, explains Professional Engineer credentials in a session sponsored by the Young Members Council Task Force.





SESSIONS AND WORKSHOPS

(continued)

1 Mike Willis, Hobbs Straus Dean & Walker, LLP, presents information on tribal contracting at a session on Current Transportation Issues in Indian Country.

2 Aude Hofleitner, University of California, Berkeley (UC Berkeley), discusses findings on a three-stream model for arterial traffic at a session on traffic flow theory.

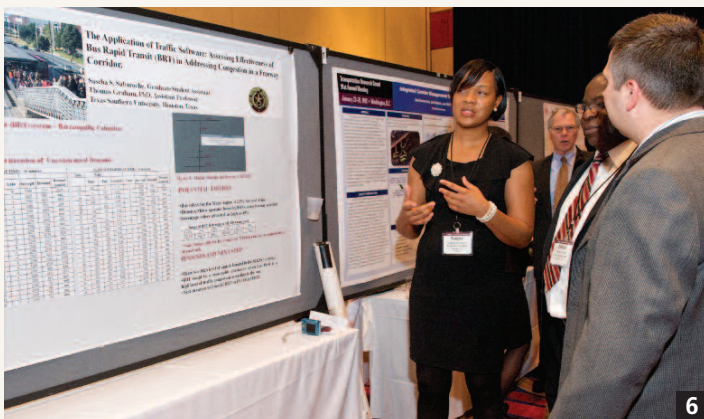
3 Information technology in aviation was the subject of a presentation by Geoffrey Gosling, Aviation System Consulting, LLC.

4 Anne Ferro, Administrator, Federal Motor Carrier Safety Administration (FMCSA), introduces a session detailing the agency's analysis, research, and technology programs.

5 Erdem Coleri, University of California, Davis, speaks on Accelerated Pavement Testing.

6 Sascha Sabaroché, Texas Southern University, presents research on using traffic software to assess bus rapid transit effectiveness. Sabaroché is a TRB Minority Student Fellow.

7 Michael Darter, Applied Research Associates, Inc., outlines SHRP 2 products at a session on Composite Pavements for New Construction.



8 Richard Dunne (left), Michael Baker Corporation, and Malcolm Kerley, Virginia DOT, participate in a workshop on the status of the Long-Term Bridge Performance Program.

9 Joanne Harbluk, Transport Canada, explores the use of detection tasks in assessing distraction.



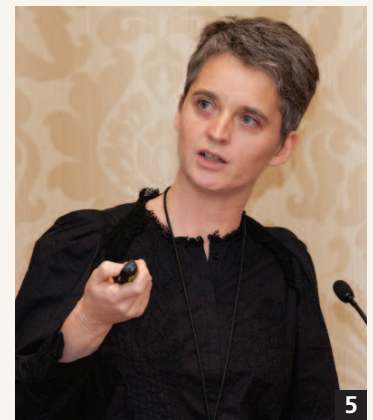
SESSIONS AND WORKSHOPS

(continued)

1 Michael Townley (left), Michigan DOT, and Steven Ziegler, ICF International, use a tablet to test the web-based decision support tool and SHRP 2 product Transportation for Communities—Advancing Projects Through Partnerships.



2 U.S. Rep. Earl Blumenauer (D-Ore.) discusses the Future of the Federal Role in Transportation.



3 Sasha Page, Infrastructure Management Group, Inc., shares insights on the Role of Private Finance in Intercity Passenger Rail.

4 Karin Bauer, MRIGlobal, examines Beginning Analysis of SHRP 2 Naturalistic Driving Study.

5 Lara Desire, Centre d'Etudes Techniques de l'Équipement, France, presents information on Modeling Pedestrians and Motorized Traffic.

6 Peter Schultz, U.S. Global Change Research Program, demonstrates sea level rise scenarios at a session on Advances in Integrated Analysis of Climate Change Impacts.



7 Alison Conway, City College of New York, shares the freight systems perspective at a roundtable discussion for young members of TRB standing committees.



8 Ed Christopher, FHWA, leads a travel data users forum on Health and Transportation Data Linkages.

9 Andres Sanchez, HDR Engineering, Inc., relates research findings in a session on Encouraging Innovation in Design-Build Through Alternate Technical Concepts.





COMMITTEE MEETINGS

1 Johanna Zmud guides the Special Task Force on Data for Decisions and Performance Measures.

2 Alex Levy, Arcadis-US, Inc., chairs the Ecology and Transportation Committee.

3 Gregory Winfree, Acting Administrator, Research and Innovative Technology Administration (RITA), addresses committee leaders in the Data and Information Systems Section.

4 Michael Browne, University of Westminster, updates the Urban Freight Transportation Committee on the rail impact of the 2012 Olympics in London.

5 Ed Wallingford, Virginia DOT, leads the Waste Management and Resource Efficiency in Transportation Committee through its meeting agenda.

6 Nanda Srinivasan, TRB, shares his own Annual Meeting itinerary with members of the Planning and Environment Group Executive Board.

7 Michael Melaniphy, American Public Transportation Association (APTA), speaks to the Public Transportation Group Executive Board.

8 Kevin Krizek, University of Colorado, helms his final meeting as chair of the Effects of Information and Communication Technologies on Travel Committee.

9 Louis Triandafilou (left), FHWA; Kevin Thompson, Arora and Associates; Mary Lou Ralls, Ralls Newman LLC; and Sandra Larson and Ahmad Abu-Hawash, Iowa DOT, listen to presentations to the Structures Collaboration Subcommittee.



10 Incoming chair of the Maintenance and Operations Personnel Committee William Bushman (left) presents commendation to Kathy DesRoches for having completed her second term as chair.



PAPER AWARDS

1 The Charley V. Wootan Award recognizes outstanding papers in policy and organization.

2 John Woodrooffe (left) and Daniel Blower, University of Michigan Transportation Research Institute (UMTRI), received the Patricia F. Waller Award for their paper, "Tractor-Trailer Rollover Prevention: Effectiveness of Electronic Stability Control Systems." Not present was Paul Green, UMTRI.

3 Eun Sug Park (left), Vichika Iragavarapu, Susan Chrysler, and Kay Fitzpatrick, TTI, received the D. Grant Mickel Award for their paper on detection distances to crosswalk markings. They celebrated the award with an homage to the famous crosswalk on the cover of the Beatles album *Abbey Road*. (Photo: TTI)

4 The Pyke Johnson Award honors the outstanding paper on the topic of planning and environment.

5 Ali Maher (left) and Thomas Bennert, Rutgers University, won the K. B. Woods Award for their paper examining influences on the performance of warm-mix asphalt.

6 Jocelyn K. Waite, Waite and Associates, was presented with the John C. Vance Award for her paper, "Application of Physical Ability Testing to Current Workforce of Transit Employees."



1 Wootan Award group (left to right): Peter Vovsha, PB Americas, Inc.; Technical Activities Chair Katherine Turnbull, Texas Transportation Institute (TTI); Yehoshua Birotker, Jerusalem Transportation Master Plan Team (JTMT); Marcelo Gurgel Simas Oliveira and Jean L. Wolf, GeoStats LP; and Danny Givon, JTMT. Not present was Julie Paasche, NuStats.



4 Xin Ye (left), California State Polytechnic University, and Ram Pendyala and Karthik Charan Konduri, Arizona State University, were recipients of the Pyke Johnson Award. Not present was Bhargava Sana, Resources Systems Group, Inc.



The Fred Burggraf Award recognizes authors under age 35:

7 Lei Zhang, University of Maryland, was the recipient of the Burggraf Award for outstanding paper in planning and environment.

8 The Burggraf Award for outstanding paper in public transportation was presented to Jason Lee, San Francisco Municipal Transportation Agency.



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MAJOR AWARDS

1 TRB Executive Director Robert E. Skinner, Jr. (*left*), former TRB Executive Director Thomas B. Deen (*second from right*), and 2011 Executive Committee Chair Neil J. Pedersen (*right*) present the Deen Lectureship plaque to William W. Millar, who recently retired after 15 years as President of APTA.

2 In his address at the Chairman's Luncheon, *The Big Roads* author Earl Swift recounted the stories of the people who were key players in the development of the U.S. Interstate Highway System's nearly 47,000 miles of road—thereby shaping the nation's future.

3 The winner of the Roy W. Crum Award was Joseph L. Schofer, Professor of Civil and Environmental Engineering at Northwestern University. He was recognized for his distinguished achievement in transportation research.

4 2012 TRB Executive Committee Chair Sandra Rosenbloom (*left*) presents the Sharon D. Banks Award for leadership in people-oriented transportation initiatives to J. Barry Barker, Executive Director, Transit Authority of River City, Louisville, Kentucky.

5 Adib K. Kanafani, Professor of the Graduate School, UC Berkeley, received the W. N. Carey, Jr., Distinguished Service Award for his contributions to transportation research and to TRB.

Emeritus Awards Honor Long-Term Service

In recognition of their dedication and valuable contributions to technical activities committees, the following individuals received emeritus membership in TRB at the 2012 Annual Meeting:

- ◆ Imad L. Al-Qadi, Sealants and Fillers for Joints and Cracks Committee;
- ◆ Edward A. Beimborn, Public Transportation Planning and Development Committee;
- ◆ Paul E. Benson, Transportation and Air Quality Committee;
- ◆ Wayne Berman, Regional Transportation Systems Management and Operations Committee;
- ◆ Edward J. Christopher, Urban Transportation Data and Information Systems Committee;
- ◆ James B. Goddard, Subsurface Soil-Structure Interaction Committee;
- ◆ Charles E. Howard, Jr., Statewide Multimodal Transportation Planning Committee;
- ◆ Marianne Millar Mintz, Transportation Energy Committee;
- ◆ James Bernard Nevels, Jr., Engineering Behavior of Unsaturated Soils Committee;



Patricia Hendren (*left*), Washington Metropolitan Area Transit Authority, presents an Emeritus Membership certificate to Charles E. Howard, Jr., for his service on the Statewide Multimodal Transportation Planning Committee.

- ◆ Suzanne H. Sale, Revenue and Finance Committee; and
- ◆ Jay L. Smith, Tort Liability and Risk Management Committee.

Executive Committee Gains New Leaders

Sandra Rosenbloom, Professor of Planning, University of Arizona, is the 2012 Chair of the TRB Executive Committee. Deborah H. Butler, Executive Vice President, Planning, and Chief Information Officer, Norfolk Southern Corporation, is the 2012 Vice Chair.

An active participant in TRB committees, Rosenbloom currently is on leave from the University of Arizona to direct an infrastructure initiative at the Urban Institute in Washington, D.C. Before becoming Professor of Planning, she was Director of the University's Roy P. Drachman Institute for Land and Regional Development Studies. She is an internationally recognized expert in transportation planning and societal trends in transportation and community development. Rosenbloom is the 2004 recipient of TRB's Roy W. Crum Award and the TRB International Secretary. From 1998 to 2000, she was a member of the Leadership Council of the Urban Land Institute. Rosenbloom received a master's degree in public administration and a Ph.D. in political science from the University of California, Los Angeles (UCLA).

Butler joined Norfolk Southern in 1978; most recently, she was Vice President of Customer Service. She received a bachelor's degree from Agnes Scott College and completed executive education programs at Northwestern University's Transportation Center, the Fuqua School of Business at Duke University, and the Harvard Business School. A trustee of Virginia Wesleyan College, Butler also serves on the Board of Directors of TTX Company, as a Commissioner on the Norfolk Airport Authority, and as past Chair of the National Grain Car Council.



Sandra Rosenbloom (left) presents a plaque to Neil Pedersen in recognition of his service as 2011 TRB Executive Committee Chair.

Newly appointed to the Executive Committee are Chris T. Hendrickson, Duquesne Light Company Professor of Engineering and Codirector of the Green Design Institute, Carnegie Mellon University; and Gary P. LaGrange, President and Chief Executive Officer, Port of New Orleans. Reappointed members of the Executive Committee are Adib K. Kanafani, Professor, Graduate School, University of California, Berkeley; and Henry G. Schwartz, Jr., retired Chairman, Jacobs/Sverdrup Civil, Inc.

LAUNCHING RESEARCH CAREERS—Recipients of TRB Minority Student Fellowships (left to right): Monica Redhouse, New Mexico State University; Genell Bond, North Carolina A&T State University; Deji Agbale, Florida A&M University; Curtis Bradley, South Carolina State University; Celine Kalembo, Morgan State University; and Edna Cruz, California State Polytechnic University-Pomona. Not pictured are Samrakshak Lamichhane, Howard University; Genna M. Slape, University of New Mexico; and Sascha Sabaroche, Texas Southern University. Now in its third year, this pilot program provides financial assistance for students from historically black colleges and universities and other minority-serving institutions to attend the TRB Annual Meeting and present research. The 2011–2012 fellowships were funded by TRB, the North Central Texas Council of Governments, Parsons Brinckerhoff, the South Coast Air Quality Management District of California, and Stantec, Inc.





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EXECUTIVE COMMITTEE

1 Executive Director Robert E. Skinner, Jr., reports on current TRB initiatives and future endeavors.

2 2011 Executive Committee Chair Neil Pedersen (*right*) guides the Executive Committee through its business agenda. Sandra Rosenbloom (*left*) is 2012 Chair.

3 Deborah Butler, appointed 2012 Vice Chair, addresses the committee.

4 Gary LaGrange, Port of New Orleans, Louisiana, was newly appointed to the Executive Committee in 2012.

5 Also appointed in 2012 was Chris Hendrickson, Carnegie Mellon University.



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The Executive Committee heard presentations on the "silent transporter"—the inland waterway system—that surveyed its economics and infrastructure needs. Delivering policy presentations were

9–12 (*left to right*): Gerald Galloway, Jr., University of Maryland; James McCarville, Port of Pittsburgh Commission; Richard Calhoun, Cargo Carriers, Grain and Oilseed Supply Chain; and Wesley Wilson, University of Oregon.



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Attending their first meetings since being appointed during 2011 were

6 Joan McDonald, New York State DOT, and

7 Michael Lewis, Rhode Island DOT.

8 Michael Hancock, Kentucky Transportation Cabinet, delivers the rapporteur's summary of Executive Committee policy discussions.



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EXECUTIVE COMMITTEE

(continued)

Executive Committee members reviewed the state of current and future transportation research. Participating in Executive Committee discussions were

1 Barry Wallerstein, South Coast Air Quality Management District;

2 Beverly Scott, Metropolitan Atlanta Rapid Transit Authority;

3 Past Chair Michael Morris, North Central Texas Council of Governments;

4 John C. Horsley, American Association of State Highway and Transportation Officials;

5 Susan Martinovich, Nevada DOT;

6 Paula Hammond, Washington State DOT; and

7 Jim Walker, U.S. Army Corps of Engineers.

8 Stacy Cummings, Federal Railroad Administration, shares the rail perspective.

9 Gregory Nadeau (left) and Jeffrey Paniati, FHWA, update Executive Committee members on administration programs.

10 Tim Klein, RITA, discusses progress in transportation technology research.

Also participating in meeting deliberations were

11 David Seltzer, Mercator Advisors LLC;

12 Kelly Leone, FMCSA;

13 Chair of TRB Technical Activities Council Katherine Turnbull; and

14 Marine Board Chair Michael Bruno, Stevens Institute of Technology.

