

METRANS NEWS



CALIFORNIA STATE UNIVERSITY
LONG BEACH

Dedicated to solving metropolitan transportation problems through
research, education and outreach.

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METRANS, a partnership of the University of Southern California and California State University, Long Beach, is a US Department of Transportation designated University Transportation Center. Its mission is to solve transportation problems of large metropolitan areas through research, education and outreach.

METRANS EDUCATION

Vy Phan-Hoang Awarded METRANS Student of the Year 2014-2015

METRANS awarded Vy Phan-Hoang its prestigious Student of the Year Award earlier this year. The Master of Planning candidate at the Sol Price School of Public Policy was presented the award in January at the Transportation Research Board's 94th Annual Meeting in Washington, D.C.

Eric Shen, an Industry Lecturer at USC's Sol Price School of Public Policy and the Viterbi School of Engineering, said he foresees Hoang "playing a major role" as a future transportation professional. Shen recommended Hoang for the prestigious award based, in part, upon her outstanding performance in his transportation studio course in the Spring 2014 semester and in a subsequent Traffic Engineering & Control course in the Fall 2014 semester.

Shen, who is also Director of Transportation Planning for the Port of Long Beach, noted that he and his team were also impressed by Hoang's performance when she filled a vacant Transportation Planning Intern position at the port. He described her "as a dependable and responsive para professional."

Hoang recently accepted a position as Transit Planner at Foothill Transit. She previously interned at the Finance Department in Foothill Transit and at the City of Los Angeles Emergency Management Department. Working in those capacities "helped me realize that city planning and transportation planning play irreplaceable roles in how a city and the people within it function," Hoang said. "To me, city planning is not only about creating a modern-looking city; it is about building a city that provides equitable mobility for all people while facilitating efficient goods movement."



Vy Phan-Hoang, METRANS Student of the Year 2014-2015 (center) with Dr. Shashi Nambisan, CUTC (left) and Greg Winfree, USDOT (right) in Washington, D.C.

METRANS RESEARCH

Freight Landscape Research Addresses the Freight Data Problem

MetroFreight researchers are developing the concept of a "Freight Landscape" that identifies patterns of freight supply, demand, and flows in metropolitan regions around the world.

"A major challenge to improving urban freight management is the lack of data," said METRANS Director Genevieve Giuliano, who is co-leading the Freight Landscape research initiative with Jean-Paul Rodrigue, Hofstra University. Due to the current lack of freight data, "little is known about freight movements within metropolitan areas," Giuliano said. The Freight Landscape concept correlates basic population and employment data with goods movement. In theory, goods movement should be a function of population and employment densities – the underlying drivers of goods supply and demand.

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“In the places that have very low density, we’re going to see relatively expensive freight movement because trucks will need to cover more miles,” Giuliano said. She added that areas with moderate population and employment densities appear to be the most efficient because those regions have enough loading facilities and parking but not too much conflict with other modes of transportation.

The areas with high population and employment densities are places “where nobody has enough capacity,” Giuliano said, explaining that public transportation, pedestrians, commuter traffic, and trucks moving freight are all competing for the same finite space. Further compounding the challenges to freight is the high price of land. Real estate is expensive, so businesses pay for less square footage, hold as little inventory as possible, and also try to avoid the additional costs of loading docks, Giuliano explained. “Clearly, freight movement will be more problematic in those areas.”

The researchers developed a set of four levels of population density and four levels of employment density. Combining them yields 16 combinations, ranging from low population and low employment density to high population and high employment density. They mapped these density patterns for Los Angeles, New York, and Paris, using the same geographic scale. The Los Angeles region is mapped on the right. The Los Angeles downtown and Wilshire Corridor stand out as concentrations of high population and employment density (dark red, brown and burgundy). Industrial zones with high employment density and low population density are evident along the I-10 and SR-60 corridors (dark grey). Also evident from the map is the high degree of population and employment intermixing (yellows and blues).

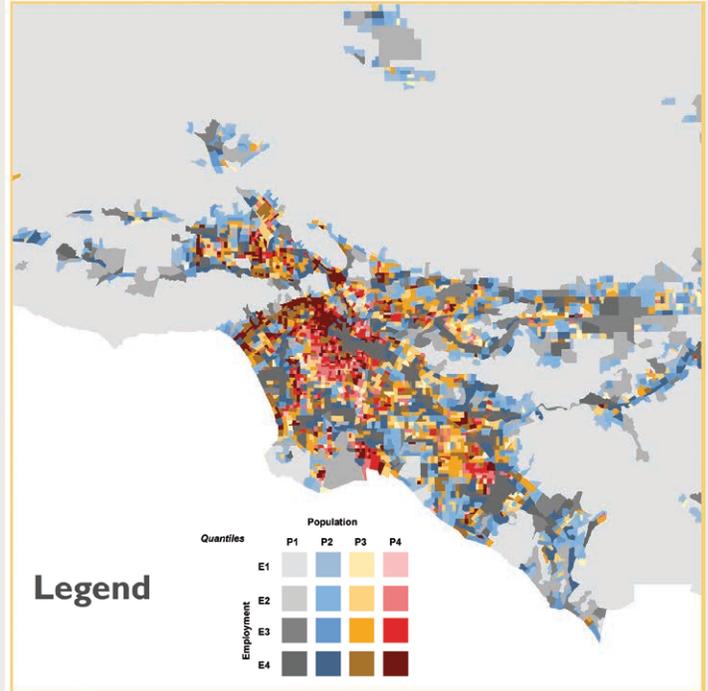
Each of the metro areas has a different pattern of population and employment density. Paris is highly centralized, with a very high level of population and employment intermixing at all levels of density and a large central core of high population and employment density. Giuliano noted that Paris has major conflicts between freight flows and other modes of transportation in its urban core. New York is in between, more centralized than Los Angeles, but with distinct industrial zones as in Los Angeles. Manhattan stands out clearly, and is well known in the U.S. for its serious freight problems. “Los Angeles is much more mixed,” Giuliano said, noting that such differences in population and employment density patterns mean that Paris and New York face different goods movement challenges than Los Angeles.

The goal of Freight Landscape research is to document, analyze, and articulate how the structure of cities impacts the movement of freight in a systematic way. “The long-term objective with this research is to gather the data and build evidence to show that these relationships do exist,” Giuliano said. “If you don’t understand the underlying factors that are driving freight problems in the first place, it’s very hard to solve them.”

For the Los Angeles case study, MetroFreight researchers used existing information on truck flows on the regional highway network to test the hypothesis that freight intensity is a function of population and employment characteristics. Taking into account major freight hubs, such as the Los Angeles and Long Beach ports as well as the major airports, they estimated statistical models to compare the intensity of those truck flows to patterns of population and employment density. The hypothesis proved correct, Giuliano said. “There is a relationship between population and employment patterns and the truck flows we see on the ground.”

Socioeconomic Landscape
Population and Employment Density

Los Angeles



The Los Angeles case study will serve as a useful reference for MetroFreight researchers as they study other urban regions, Giuliano said. “Since in most areas freight data is scarce, we can use the Los Angeles findings to support using population and employment density together with data on the transportation system as proxies to approximate spatial patterns of freight activity in other places.”

The next step in the Freight Landscape research involves a study of the San Francisco Bay Area. “We’re now testing the same model in a metropolitan area that starts as far south as San Jose, through the San Francisco Bay Area and all the way north to Vallejo,” Giuliano said, noting that midway through the study, the region does not look comparable to Los Angeles. “Because of the bay and the mountains, the geography leads to a string of activity right around the bay,” she explained.

Other next steps for MetroFreight researchers will include more in-depth comparisons to Paris where Laetitia Dablanc, Director of Research, French Institute of Science and Technology for Transport, Development and Networks - University of Paris-East, has access to comprehensive data from a major truck survey conducted for the Paris region. “We’ll be able to test Freight Landscape concepts with real data in Paris as well,” Giuliano said.

As the body of Freight Landscape research expands to include analysis of more cities, MetroFreight researchers will increasingly be able to use data to document how freight efficiency is a function of the socioeconomic landscape in urban regions. Such data-driven research will prove invaluable to policy makers and transportation planners seeking to use objective criteria to better manage freight flows and reduce impacts on urban populations.

After conducting a comprehensive study to assess gaps in training and education in the study of urban freight transportation, members of the MetroFreight team have identified a clear need for curriculum that focuses directly on this critical 21st century field impacting urban regions around the globe.

"The study revealed that while some transportation-related fields of study – such as urban planning, geography, and civil engineering – address aspects of urban freight, there is a scarcity of purely freight-focused courses," said Thomas O'Brien, CITT Executive Director and METRANS Associate Director. That finding established the need for a course that would address the wide range of issues related to a comprehensive study of urban freight transportation.

The Board of the Volvo Research and Educational Foundations (VREF) has funded the MetroFreight team through 2017 to "conduct a comprehensive, multidisciplinary program of research education and training" that addresses local and global challenges of urban freight. To meet that challenge, the MetroFreight Center is collaboratively developing a comprehensive introductory course in City Logistics. The ultimate aim is to take advantage of web-based

communications resources to offer the course across multiple university campuses and engage experts and interested students from various relevant disciplines.

In 2014, Dr. Jean-Paul Rodrigue, Professor of Geography at Hofstra University, developed a topical outline for the proposed course, which other MetroFreight consortium researchers subsequently reviewed and refined. Using that foundation, MetroFreight partners launched a City Logistics course earlier this year. The Spring 2015 course is being piloted between the campuses of the City College of New York (CCNY) and the University of Southern California (USC). Dr. Alison Conway, Assistant Professor of Civil Engineering at CCNY, is the primary instructor. METRANS Director, Dr. Genevieve Giuliano, is overseeing the progress of USC's participating students. In total, fourteen students are participating, including PhD, masters, and senior undergraduate Civil Engineering students from CCNY and masters and PhD students in Urban Planning from USC. Lectures are being webcast between classrooms in New York and Los Angeles, allowing students to interact with each other in real time.

"The course content includes three modules," Conway said. "The first module provides an

introduction to freight and to the fields that underlie city logistics – urban planning, urban geography, urban economics, and supply chain management. The second module focuses on the issues and challenges of city logistics, and the third on practical applications in city logistics."

The course aims to take advantage of the broad expertise and resources of the MetroFreight Center. "Many course readings are drawn from a database of international city logistics resources compiled by researchers at Cal State Long Beach led by Dr. Tom O'Brien," Conway said, noting that researchers from the MetroFreight Center and from VREF's other urban-freight focused center, the Center of Excellence in Sustainable Urban Freight Systems (COE-SUFS), will provide guest lectures via web. They include Dr. Rodrigue, Dr. Qian Wang from the University at Buffalo, and Dr. Jose Holguin-Veras, the Director of COE-SUFS at Rensselaer Polytechnic Institute.

"Students are benefitting from discussing urban freight challenges in the context of the nation's two largest – but very different – cities," Conway said. "They also have the opportunity to interact with leading researchers working on both coasts and with students studying in different but related disciplines."

METRANS OUTREACH

Alison Conway to Serve Two-Year Term as Chair of TRB Young Members Committee



Alison Conway, Chair of the TRB Young Member Committee

Members of the Transportation Research Board (TRB) Young Members Committee (YMC) recently extended the tenure of their current committee chair, Alison Conway, through April 14, 2016. The decision extended the YMC Chair's tenure from one to two years. The move was made to provide more time to familiarize YMC Chairs with the role and to give the Executive Committee a more long term and experienced point person.

Conway is an Assistant Professor at City College of New York, which is a member of the Volvo Research and Education Foundations consortium. The YMC was established in 2011

to recognize the importance of the next generation of TRB researchers, Conway said. "Our focus is to try to integrate young members into ongoing TRB programs," she said, adding that the YMC seeks to develop and promote opportunities for involvement, resources, connections, and representation in all levels of TRB.

The YMC members represent a range of technical specializations and lead ten discipline-specific subcommittees, which include: Aviation, Design and Construction, Freight Systems and Marine, Legal Resources, Operations and Preservation, Planning and Environment, Policy and Organization, Public Transportation, Rail, and Safety and Systems Users.

By integrating the young members into all aspects of TRB programs and events, Conway said experienced members are able to mentor the next generation while the younger members bring their fresh perspectives and insights into technological innovation. "I think it really is working both ways," she said, noting that webinars and the annual Transportation Camp DC (or as YMC members affectionately call it, an "unconference") have been especially effective in engaging young TRB members.

YMC's TRB Outstanding Young Member Award is another great way to promote young member engagement, Conway said. The award, which is sponsored by Stantec, Inc., recognizes exceptional young member service to TRB and achievements in transportation research, policy, or practice.

For more information about YMC or to access YMC resources for new and young members, please visit the YMC's website at: www.trb.org/abouttrb/ymc.aspx.

METRANS OUTREACH

METRANS Researchers Participate in 2015 TRB Conference

The 2015 Transportation Research Board (TRB) conference proved a fruitful venue for METRANS faculty and students representing the center's four research centers.

"The impact of the diverse range of research from METRANS' four constituent centers proved very significant," said Thomas O'Brien, CITT Executive Director and METRANS Associate Director. This year's TRB conference surpassed 12,500 attendees, he said, adding that the conference "is a great forum to meet with decision-makers and who's who in transportation research."

The TRB conference also served as an excellent forum to conduct public engagement for the METRANS Southwest Regional Surface Transportation Workforce Center, said O'Brien, who serves as the director for the newly launched center, which is funded by the Federal Highway Administration.



METRANS faculty and doctoral students presided over sessions, chaired a committee, and served as presenters and discussants at a wide variety of TRB conference sessions. The participants representing METRANS included the following:

Adrien Beziat

University of Paris East, IFSTTAR, AME/SPLOTT

Poster Session: **Parking for Freight Vehicles in Dense Urban Centers**

Marlon Boarnet

University of Southern California

Presentation: **Impact of Urban Form and Gasoline Prices on Vehicle Usage: Evidence from 2009 National Household Travel Survey**

Presentation: **Innovative Analyses of National Household Transportation Survey**

Alison Conway

City College of New York

Poster Session: **Biking for Goods Is Good: Assessment of CO2 Savings in Paris** (Co-presenter: Martin Koning)

Poster Session: **Empirical Analysis of Delivery Vehicle On-Street Parking Pattern in Manhattan Area** (Co-presenters: Wei Zou, Cara Xiaokun Wang, Quanquan Chen)

Laetitia Dablanc

University of Paris East, IFSTTAR, AME/SPLOTT

Presentation: **Impacts of Environmental Access Restrictions on Freight Delivery Activities: The Example of Low Emission Zones in Europe** (Co-presenter: Antoine Montenenon)

Poster Session: **Logistics Spatial Patterns In Paris: The Rise Of The Paris Basin As A Logistics Megaregion** (Co-presenter: Adeline Heitz)

Genevieve Giuliano

University of Southern California

Presentation: **Volvo Research Education Center: A Case Study of an International Consortium of Public and Private Partners**

Presider: **Setting the Table – How Overarching Policies and Strategic Initiatives Affect the Treatment of Freight Transportation**

Camille Kamga

City College of New York

Presentation: **Toll Price Elasticities of Demand for Toll Bridges and Tunnels in New York City** (Co-presenters: Dan Wan and Anil Yazici)

Presentation: **Review of Swedish Road Safety Policy in United States and Its Application in New York City Vision Zero Action Plan** (Co-presenter: Scott Johnson)

Presentation: **Traffic Impacts of an Electronic Payment Biased Toll Pricing Initiative on Toll Bridges and Tunnels in New York City** (Co-presenter: Agyenim Oti)

Thomas O'Brien

California State University, Long Beach

Presentation: **Transportation Workforce Centers Panel**

Presentation: **Stakeholder Input for New Regional Surface Transportation Workforce Centers**

Presider: **Port Drayage and Chassis Management Part 1: Current Issues**

Eric Shen

University of Southern California

Chair: **Ports and Channels Committee**

Qian Wang

University at Buffalo, The State University of New York

Poster Session: **Contemporary Theories and Practices in Freight Planning and Logistics**

Presentation: **Sustainable Transportation Indicators & Measures**
Poster Session: **Advanced Research and Practices in Urban Freight Transportation**

Poster Session: **Urban Freight Parking Research**

Poster Session: **Contemporary Research in Land Use and Transportation Planning**

METRANS RESEARCH

METRANS Upcoming Events

Spring 2015

12:00 noon to 1:30 pm

USC Main Campus

RSVP to Janet Kleinman (Janetkle@usc.edu)

Wednesday, March 25

Jointly Sponsored by VREF & WLPPD

Seaport Mergers: Why Not Los Angeles and Long Beach?

Speaker: **Geraldine Knatz, Ph.D.**

Former Executive Director, Port of Los Angeles

Professor of Practice of Policy and Engineering

USC Sol Price School of Public Policy and USC Viterbi School

of Engineering

Thursday, March 26

Jointly Sponsored by Sol Price School, Dean's Merit Scholar Event

Development and Application of a "Big Data" Archive: The ADMS Project

Speaker: **Sandip Chakrabarti, PhD Candidate**, Urban Planning, USC Sol Price School of Public Policy

Wednesday, April 8

Student Transportation Research Showcase

Unraveling the Effects of Residence in an Ethnic Enclave on immigrant Travel Mode Choice and Social Activities and Does Reliability Determine Ridership?

Speakers: **Eun Jin Shin, PhD Candidate, Sandip Chakrabarti, PhD Candidate**, USC Price School of Public Policy

For a list of all METRANS seminars, see www.metrans.org/seminars



Photo credit: Allen Altchek Photography.

At right, Steven Finley, Presidents Advisor for the Los Angeles Transportation Club (LATC), presents a \$5,000 check to Thomas O'Brien, CITT Executive Director and METRANS Associate Director (left).

METRANS EDUCATION

LATC Extends Further Support to CITT Programs

The Los Angeles Transportation Club (LATC) added \$5,000 to its CSULB Center for International Trade and Transportation (CITT) scholarship fund as part of an effort to reach \$100,000 in contributions toward an endowment to support students enrolled in programs supported by CITT.

"The LATC started its own endowment in 2010, and we've raised \$34,900 so far," said Steven Finley, Presidents Advisor for the LATC and owner of Re-Trans, Inc. "Our goal is to reach \$100,000 in the next five years," he said, adding that the LATC has already given more than \$112,000 in scholarships to CITT students.

"Our organization is not just about trucks, trains, ships, or planes, it's about people," said LATC President Mario Morales, explaining that expanding the endowment represented the LATC's commitment to supporting education that will develop future leaders for the logistics industry.



METRANS OUTREACH

New Faces at METRANS

Susan Bradforth joined the METRANS team as a Development Officer in January 2015. She is responsible for managing the METRANS Advisory Board and METRANS Associates Program as well as increasing philanthropic support for METRANS.

"I'm passionate about the METRANS mission to solve transportation issues facing metropolitan regions, and I look forward to advancing that cause," Bradforth told METRANS NEWS.

Previously at USC, Bradforth was Assistant Director of the IBEAR Executive Program, managing professional educational programs for international businesses, including the Asia Pacific Business Outlook conference. Immediately prior to joining METRANS, she was the development director for an independent school in the Pasadena area and, as a development professional, has experience raising funds for UNICEF and Human Rights Watch. As a program officer, Bradforth worked with Rotary International's PolioPlus program. She holds a B.A. in History from University of California, Berkeley and an M.A. in International Relations from San Francisco State University.

METRANS OUTREACH

METRANS Advisory Board Restructures to Address Expanded Center Mission

Since the founding of METRANS in 1998, its advisory board has provided essential policy guidance for the center. In recent years, METRANS has expanded from one research center to four research and workforce development programs. To ensure that top priorities for all four centers are addressed, the METRANS Advisory Board is expanding the scope of its oversight and the depth of its membership. The four METRANS centers are as follows:

- MetroFreight, a Volvo Research and Education Foundation Center of Excellence on urban freight;
- METRANS UTC, a USDOT Tier 1 University Transportation Center conducting research, education and outreach on increasing the economic competitiveness of large metropolitan areas by improved transportation system performance;
- National Center for Sustainable Transportation, a USDOT National University Transportation Center led by University of California, Davis, with METRANS conducting research, education and training on sustainable freight transportation; and;
- Southwest Regional Surface Transportation Workforce Center, a workforce development center funded by the Federal Highway Administration.

"The advisory board has a much bigger job with an international center, an emphasis on workforce development, and a focus on sustainable transportation in addition to existing priorities," said METRANS Director Genevieve Giuliano. "The portfolio is much broader than it was before," she said, noting that to address those challenges, METRANS has already added three new members: Jake Racker, Senior Director, Network Strategy and Engineering, Kroger Company; Seleta Reynolds, General Manager, Los Angeles Department of Transportation; and Jon Slangerup, Chief Executive, Port of Long Beach. "We are planning to add three to six additional members to provide more representation from private sector transport industries and from public sector leadership," she added.

The second purpose of the advisory board is to offer guidance on ways to develop the METRANS Associates Program. "Board members are critical in helping us to diversify our funding strategies independent of any specific grant," Giuliano said.

Members of the METRANS Advisory Board gathered at USC in February for their annual meeting to discuss research, outreach, and education priorities as well as potential funding opportunities and new candidates for the advisory board.

Advisory board members are leaders from sponsor agencies, other agencies, and private industry. They serve as liaisons to their agencies and industries, and also contribute funding support. Advisory Board members are appointed by the METRANS Director with the advice of the Executive Committee.

Members of the METRANS Advisory Board as of 3/15/2015 are as follows:

Dan Beal (Emeritus), Principal, Transportation Policy Consulting

Coco Briseno, Acting Chief, Division of Research, Innovation and System Information, California Department of Transportation

Michael Christensen, Senior Executive for Supply Chain Optimization, Port of Long Beach

Stephen Finnegan, Manager, Government Affairs and Public Policy, Automobile Club of Southern California

Hasan Ikhata, Executive Director, Southern California Association of Governments

Fran Inman, Senior Vice President, Majestic Realty Co.

Randell Iwasaki, Executive Director, Contra Costa Transportation Authority

Arthur Leahy, Chief Executive Officer, LA Metro (Effective 4/20/2015, Chief Executive Officer, Metrolink)

Jack Levis, Senior Director of Process Management, United Parcel Service

Domenick Miretti, ILWU Senior Liaison, Ports of Long Beach and Los Angeles

Mark Pisano, Professor of the Practice of Public Administration, Sol Price School of Public Policy, University of Southern California

Jake Racker, Senior Director, Network Strategy and Engineering, Kroger Company

Seleta Reynolds, General Manager, Los Angeles Department of Transportation

Gene Seroka, Executive Director, Port of Los Angeles

Jon Slangerup, Chief Executive, Port of Long Beach

Barry Wallerstein, Executive Officer, South Coast Air Quality Management District

Save The Date



2015 I-NUF

6th **METRANS International** Urban Freight Conference
October 21-23, 2015 The Westin Long Beach Hotel, CA
For info, go to www.metrans.org

METRANS OUTREACH

Majestic Realty Provides METRANS Essential Private Industry Insights and Support

When METRANS started its METRANS Associates Program (MAP) in 2005, its goal was to promote collaboration between the academic community, corporations, and government bodies to share industry insights and best practices in the field to address emerging trends in goods movement and international trade. Majestic Realty was on the ground floor of the METRANS Associates Program and has remained an abiding supporter ever since.

“Majestic Realty was critical in helping us launch the METRANS Associates Program and is a very important industry partner for us,” said METRANS Director Genevieve Giuliano. “As a voice for the warehousing and trade industry, it adds a very important dimension to our Advisory Board.”

With a 70-million square-foot portfolio that includes industrial, office, and retail space, as well as sports, entertainment and hospitality projects, Majestic Realty is the largest, privately-held developer and owner of master-planned business parks in the United States. Such credentials underscore why the Majestic Realty name adds considerable heft and credibility to the MAP roster. But beyond such industry success, Majestic Realty contributes a vital industry perspective to METRANS research initiatives.

“We’re long-term stakeholders in the region,” said Fran Inman, Senior Vice President for Majestic Realty and a member of the METRANS Advisory Board. “Clearly the global supply chain is very important for our ongoing business operations to remain successful. So we have been actively involved in public debates dealing with the supply chain and our supply chain partners,” said Inman who is also a member of the California Transportation Commission. Additionally, she serves on the National Freight Advisory Committee with Giuliano and other goods movement experts.

METRANS and Majestic Realty have both benefited from their collaboration over the years, said Kevin D. McCarthy, Majestic Realty Senior Vice President and Director of Development. “A lot of what we do as a commercial and industrial real estate developer directly relates to transportation and logistics,” he said, emphasizing the value of METRANS research. “We asked METRANS to conduct a study on dray rates from the ports of Los Angeles and Long Beach,” he said, explaining that the study proved very useful in understanding the function between dray rates and how far Majestic Realty clients should locate their businesses from the ports. McCarthy noted that

his firm has shared findings from the dray rate study with clients seeking to determine the most cost-effective location for potential build-to-suit and existing buildings.

McCarthy emphasized the value of METRANS research in not only Majestic Realty’s Southern California operations but also in other national markets. “We started in 1948 as a local developer, but we have become a national developer largely as a result of having Fortune 500 clients who wanted to expand,” McCarthy said. He noted that METRANS research has proven useful in understanding Majestic Realty’s development efforts in Atlanta, Dallas, Denver, Las Vegas and Bethlehem, Pennsylvania. “Genevieve Giuliano has been invaluable in understanding specific markets – whether that be intermodal facilities in Dallas, or goods movement at the ports of Los Angeles and Long Beach.”

Working with METRANS offers an effective means to focus on global supply chain partnerships and elevate the freight discussion, Inman said. “We try to balance the sustainable issues with the economic issues.” Inman noted that Majestic Realty has also been a regular participant in the Center for International Trade and Transportation’s annual State of the Trade and Transportation Town Hall, which she described as “a great forum for bringing various supply chain stakeholders together.”

Giuliano commended Majestic Realty for its commitment to community and economic development in Southern California. “They’re very engaged in METRANS research that examines goods movement data and new aspects of the global supply chain,” she said.

“METRANS’ partnership between USC and CSULB offers a tremendous balance of research and practical application,” Inman said. “I’m a student of the supply chain and am fascinated by it. I appreciate that METRANS has put a flag in the ground and engaged this issue.”

Majestic Realty’s ties with METRANS and USC run deep, McCarthy said. “We have worked with METRANS since 2005,” he said, adding that Edward P. Roski, Jr., President and Chairman of the Board of Majestic Realty, is a member of the USC Board of Trustees and previously served as board chairman



METRANS Transportation Center

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METRANS Associates Program

The METRANS Associates Program (MAP) provides the core support for the METRANS Transportation Center. METRANS appreciates and thanks our current partners:

To learn more about MAP and its benefits, see www.metrotrans.org/metrans-associates-program

Gold Partners



Silver Partners



Bronze Partners



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