



About our speakers....

Anil Agrawal, PhD, The City College of New York

Prof. Anil Agrawal is currently a Professor in Civil Engineering at the City College of New York. He received his Ph.D. from the Department of Civil Engineering at the University of California, Irvine. Dr. Agrawal is currently a Herbert G. Kayser Professor of Structural / Bridge Engineering at the City College of New York and the Chief Editor of the ASCE Journal of Bridge Engineering. He has been the past-chair of ASCE Committee on Bridge Inspection, Rehabilitation and Monitoring. His research interests include inspection and deterioration of bridge elements, robotic inspection of bridge components, post-hazard assessment using drones, behavior of bridges during extreme hazards such as earthquakes, blast, fire, and vehicular impacts on highway bridges, redundancy of long span cable supported bridges and advanced geophysical methods on foundation characterization. Dr. Agrawal has published more than 250 articles, including more than 100 peer preview journal articles and more than 20 reports, and is the Editor-in-Chief for the ASCE Journal of Bridge Engineering. His research interest lies in structural control systems, blast and vehicular impact on bridges, and safety of long span bridges.

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Hojat Behrooz, Stevens Institute of Technology

Mr. Hojat Behrooz is a leading professional in the field of Intelligent Transportation Systems. Over the years, he has led several major transportation and traffic operation projects improving the safety, environment, and equity in Tehran's megacity. His efforts to design and implement the first BRT lane was recognized and awarded the Sustainable Transport Award at the TRB conference in Washington D.C., in 2010. Mr. Behrooz has a B.Sc. degree in Computer Engineering and a PMP certificate from the Project Management Institute. He has recently joined the School of Systems and Enterprises at Stevens Institute of Technology to pursue his M.Sc. Mr. Behrooz is the managing director of Transparintellect, a small consulting firm providing transportation services in New Jersey. With over 12 years of experience in managing high-impact ITS projects, he has recently started to work on research projects, bringing his expertise into addressing transportation socio-environmental impacts with a sustainability approach.

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Maria Boile, PhD, Rutgers University

Professor Boile has over 25 years of experience in academic and research positions in both the US (1992-2010) and Europe (2010-to date).

She is Professor of "Port and Inland Terminal Policy and Management" and Director of the MSc in Shipping at the University of Piraeus, Department of Maritime Studies. She is Research





Director of Transport Economics and Environment, Maritime and Air Transport, at the Hellenic Institute of Transport (HIT), of the National Centre for Research and Technology in Greece, one of the top 20 Research Institutions in Europe.

She has served as faculty member at Rutgers' Civil and Environmental Engineering Department and co-Director of CAIT's Freight and Maritime Program. She is currently an affiliated faculty member at CAIT.

She holds a diploma in Civil (Transportation) Engineering from the National Technical University of Athens, Greece (1990), M.Sc. in Civil and Environmental Engineering from Rutgers University, US (1992), and Ph.D. in Transportation Engineering from the New Jersey Institute of Technology, US (1995).

She has participated in over 70 sponsored research projects in Europe and the U.S., as principal investigator in over half of them. She has authored and co-authored over 150 technical articles four books and monographs, and 15 book chapters.

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Gerald (Jerry) Buckwalter, American Society of Engineers (ASCE)

Jerry Buckwalter is the ASCE Chief Operating and Strategy Officer responsible for helping to shape the strategic direction and operational effectiveness of the society, and a long-time member of the ASCE Industry Leaders Council. He also directs an innovative strategic project called Future World Vision where ASCE is creating a computer model to assess potential built environments 50 years into the future and the resulting impact on the engineering profession.

Jerry came to ASCE from Northrop Grumman, where he served as Director of Corporate Strategy, but also directed the company's business in Homeland Security and Resilience. Jerry has decades of experience working in infrastructure, including membership in the National Infrastructure Advisory Council for four years reporting to the White House under both Presidents Barack Obama and George W. Bush.

Jerry earned a degree in physics from Monmouth University, completed advanced coursework at George Washington University and the Massachusetts Institute of Technology, and has been an executive in residence at the University of Chicago teaching market strategy. He was the 2018 recipient of the ASCE William H. Wisely American Civil Engineer award. Jerry also serves on many boards, including the International Coalition for Sustainable Infrastructure, the Center for Public Policy Innovation, the National Homeland Defense Foundation and ASPIE, a non-profit foundation serving adults with disabilities.

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Jon A. Carnegie, AICP/PP, Alan M. Voorhees Transportation Center

Jon A. Carnegie, AICP/PP, is Executive Director of the Alan M. Voorhees Transportation Center at Rutgers, The State University of New Jersey and an adjunct member of the faculty at the Edward J. Bloustein School of Planning and Public Policy at Rutgers. Mr. Carnegie has more than 25 years of experience in the fields of land use and transportation planning and policy at the municipal, county and regional level. His expertise includes: land use planning, community development, public engagement, vulnerability/risk assessment, transportation resilience and climate change adaptation, community impact analysis, sustainability, environmental justice and transportation equity.

Mr. Carnegie is currently leading a project for NJDOT that will develop a Climate Risk Visualization tool for NJDOT that will inform agency decisions related to long-range planning, project development, asset management, operations and maintenance activities. He recently served as co-principal investigator on a study for the National Academies Transportation Research Board that examined the adoption of resilience measures by public transit agencies nationwide and developed a guidebook for transit industries interested in advancing resilience at their agencies. He was also the lead author of Health Impact Assessment that explored the potential health effects of implementing green infrastructure best management practices to address chronic flooding in Hoboken, NJ.

From 2007 to 2013, Mr. Carnegie served as the lead investigator for a series of projects where he worked with state and county offices of emergency management to enhance regional evacuation capabilities in all of New Jersey's 21 counties. In 2011, he worked in the State Emergency Operations Center, assisting with the evacuation and shelter response to Tropical Storm Irene. Mr. Carnegie was also the lead author of a report for the New Jersey Climate Adaptation Alliance investigating how prepared New Jersey's transportation sector is to address the impacts of climate change and severe weather events.

In addition to his research and planning work, Mr. Carnegie has developed and piloted several courses for the National Transit Institute (NTI) and served as lead instructor for NTI's land use and transportation course for eighteen months. His academic experience includes teaching courses on sustainable transportation, resiliency planning and public engagement as well as numerous guest lectures on a range of topics. He holds a B.A. and a Master of City and Regional Planning degree from Rutgers University.

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Cecilia Feeley, PhD, Center for Advanced Infrastructure and Transportation

Cecilia Feeley, Ph.D. joined CAIT in October 2010 as the Transportation Autism Project Manager to address transportation and mobility issues and obstacles from a multi-modal perspective for individuals on the autism spectrum. In January 2020, Dr. Feeley's Paratransit Skills Assessment validation paper received the prestigious TRB William M. Millar Award for Best Paper in Public





Transportation. Some of Feeley's most recent work involves mixed and augmented reality VR combined with educational programming designed to teach road crossing and pedestrian navigation skills. She has had several articles published in peer-reviewed journals. Most recently, she served as the appointed Chair of the New Jersey Task Force on Transportation, Mobility, and Support Service Needs of Adults with Autism Spectrum Disorder. Feeley received her Ph.D. in Transportation Engineering from New Jersey Institute of Technology.

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Ruben Gajer, Arora and Associates

Ruben Gajer is the Technical Director – Complex Bridges for Arora and Associates, P.C (Arora). Ruben has over 40 years of experience with complex structures including suspension, cable stayed, arches, and long span truss bridges. He is as a co-author for the NYCDOT Seismic Design Guidelines, he is a contributor to the AASHTO LRFD, and author of several technical articles. He holds a B.Sc. in Civil Engineering from Israel Institute of Technology and a M.Sc. in Structural Engineering from the University of British Columbia in Canada. His career includes employment with Buckland and Taylor, Steinman, NYCDOT, Weidlinger and HDR. He is a licensed P.E. in NY, NJ, MA, and DE.

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Amanda Gendek, New Jersey Department of Transportation

Amanda earned a B.S. in Environmental Science and spent her early career in the private sector conducting environmental site evaluations and remedial investigations for residential and industrial sites. After leaving the private sector, she spent 14 years acquiring environmental clearances for various transportation projects for the New Jersey Department of Transportation (NJDOT). During this time she also earned her Master's in Environmental Policy.

Amanda joined NJDOT's Bureau of Research in 2015, a career shift that afforded her the opportunity to work with partners and stakeholders at the federal, state, university, and local levels to conduct research that improves safety, operations, and mobility for all road users. Amanda is the designated Transportation Research Board (TRB) state representative as well as a voting member of the AASHTO Research Advisory Committee (RAC). In addition to managing the Research Bureau, Amanda is an Executive Member of NJ's State Transportation Innovation Council (STIC). She participates in several events and conferences throughout the state, speaking about NJ STIC's successful innovative initiatives. Under her leadership, the NJ STIC received the 2019 STIC Excellence Award for fostering a strong culture of transportation innovation.

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Yeganeh M. Hayeri, PhD, Stevens Institute of Technology

Dr. Yeganeh M. Hayeri is a faculty of the School of Systems and Enterprises at Stevens Institute of Technology. She has a dual Ph.D. from Carnegie Mellon University's departments of "Engineering and Public Policy" and "Civil and Environmental Engineering". Prior to her doctoral work, she worked as a senior transportation engineer in the State of California for over a decade. She has served as an appointed member of the National Academy of Sciences' Transportation Research Board's "Vehicle Highway Automation" Committee since 2013. As a subject matter expert, she sits on highly technical reviewing panels including, the National Science Foundation, and the National Cooperative Highway Research Program. Over the last decade, Her research focus has been mainly on sustainable transportation systems and automated vehicles. She has designed and has been teaching a highly praised course named "Sustainable Transportation Systems: Technology, Management and Policy" over the last three years. Dr. Hayeri is among the 82 of the nation's brightest engineers who was selected to take part in the National Academy of Engineering's 25th annual U.S. Frontiers of Engineering symposium in 2019.

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Mohammad Jalayer, PhD, Rowan University

Dr. Mohammad Jalayer is an Assistant Professor in the Department of Civil and Environmental Engineering at Rowan University. His primary research interests include traffic operations and evaluation, highway safety and crash modeling, big data analytics, and Intelligent Transportation System. Dr. Jalayer's research has been supported by USDOT, NCHRP, NJBPU, IDOT, ALDOT, NJDOT, and ATSSA. Dr. Jalayer has authored or coauthored more than 90 scholarly articles and papers that have been published in scientific journals and conference proceedings. Dr. Jalayer is the recipient of several prestigious awards such as 2016 National Highway Safety Information System (HSIS), 2017 ASCE -Central Jersey Branch Young Civil Engineer of Year, and 2017 ITE-Northeastern District Rising Star Program.

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Peter J. Jin, PhD, Rutgers University

Dr. Peter J. Jin is an Associate Professor at the Department of Civil and Environmental Engineering at Rutgers University. He got his Ph.D. degrees from the University of Wisconsin-Madison in 2009. His current research interests include Connected and Automated Vehicles, Transportation Big Data Analytics, and Unmanned Aerial Vehicles (drones). He has published more than 120 peer-reviewed papers. He received the PIs and Co-PIs of transportation projects funded by local, state, and federal agencies with a total amount of more than \$7 million over the last six years.

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Joyoung Lee, PhD, New Jersey Institute of Technology

Joyoung Lee received the B.S. degree in transportation engineering from Hanyang University, South Korea, in 2000, and the M.S. and Ph.D. degrees in civil and environmental engineering from the University of Virginia at Charlottesville, in 2007 and 2010, respectively. Prior to joining NJIT in 2013, he served as a Laboratory Manager of the Saxton Transportation Operations Laboratory, Federal Highway Administration Turner-Fairbank Highway Research Center. Dr. Lee's research interest lies in the developments and evaluations of diverse Intelligent Transportation Systems (ITS) applications covering Connected and Automated Vehicle(CAV)-based intersection controls, advanced traveler information systems, smart traffic congestion sensing, and advanced ITS modeling. He is a member of the Transportation Research Board Travel time, Speed, and Reliability Subcommittee. Dr. Lee was awarded the best paper prizes of the IEEE Vehicular Technology Society Conference in 2019 and the 10th and 14th PTV VISSIM User Group Meeting in 2008 and 2012. He is also the recipient of the Excellence in Research Award of the Department of Civil and Environmental Engineering, University of Virginia in 2011.

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Yiming Liu, Stevens Institute of Technology

Yiming Liu, a Ph.D. student from Stevens Institute of Technology. Researcher at the Advanced Structure and Process Innovation Research (ASPIRE) Laboratory, directed by Dr. Yi Bao. Research interests include structural health monitoring, machine learning, and remote sensing.

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Ali Maher, PhD, Rutgers University

Ali Maher, Ph.D., is the director of CAIT and a professor of civil and environmental engineering at Rutgers. Under his leadership, CAIT has grown into a program of excellence in multimodal infrastructure asset management, resiliency, and transportation mobility; addressing infrastructure state of good repair and resiliency challenges faced by the NY/NJ region and the nation. Utilizing the region's complex, diverse, and aging systems as "Living Labs," the Center has been a pioneer in the implementation of advanced robotics and automation in infrastructure monitoring and repair, large scale evaluation of transportation infrastructure systems under accelerated service loads and conditions, novel infrastructure materials and devices, and development of practical decision-making tools for a wide range of public and private sector stakeholders.

Maher is a widely recognized expert, often tapped as a resource by industry and government agencies. His expertise spans the areas of ground improvement, soil dynamics, infrastructure asset management, nondestructive testing, environmental geotechnology, and new technology vehicles. Maher's research has been funded by the National Science Foundation, USDOT, NJDOT, FHWA, DOE, U.S. Army Corps of Engineers, and other federal sponsors. He is actively





involved in a number of ASCE, ASTM, and International Society for Structural Health Monitoring of Intelligent Infrastructure (ISHMII) committees.

Dr. Maher has been the recipient of many prestigious professional awards including the AASHTO Trailblazer Award, American Society of Civil Engineers (ASCE) Educator of the Year Award, and certificates of appreciation from NJDOT for seven consecutive years. He is active in transportation and engineering professional associations such as the Transportation Research Board (TRB), ASCE, ASTM and the U.S. Universities Council on Geotechnical Engineering Research. He is actively involved in a number of ASCE, ASTM, and TRB committees and is a member of the editorial board of two highly regarded ASTM and ASCE journals.

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Deep Patel, Rowan University

Mr. Deep Patel is a Ph.D. student in the Department of Civil and Environmental Engineering at Rowan University. His interest area includes traffic safety, Intelligent Transportation Systems (ITS), and application of virtual reality in transportation. Deep is the recipient of several prestigious awards, such as ITSNJ 2019 Future of ITS New Jersey and Rowan 2020 outstanding graduate student award.

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Valeriya Remezova, PhD, Federal Highway Administration- New Jersey Division

Dr. Valeriya Remezova began her FHWA career in 2005 as an Area Engineer in the New York Division. For the past 13 years, Valeriya took on various leadership roles in the Division as the Senior Operations Engineer, Local Programs Manager and Planning & Environment Team Leader. In these positions, she led multi-disciplinary teams of outstanding professionals working in planning, environment, design, construction, preventive maintenance and local projects' programs.

In November of 2017, Valeriya joined New Jersey Division as the Deputy Division Administrator. In this role, she manages a high performing Division Team, assists the New Jersey Division Administrator in stewardship and oversight of over \$1 B annual New Jersey State Department of Transportation Federal-aid program. Since last year alone, Dr. Remezova's accomplishments and leadership have been recognized by USDOT Secretary for EEO, FHWA Executive Director for Diversity Management, NJ Division Administrator for Outstanding Performance awards and featured in the Spring 2020 edition of Public Roads focused on female leaders in transportation.

Prior to FHWA, Valeriya worked as the Design-Build Engineer-in-Charge at the New York City Department of Transportation where she led a successful delivery of the first in New York City \$70M Design—Build project, implemented FHWA East River Bridges Preventive Maintenance Program, contributed extraordinary efforts in the aftermath of the September 11, 2001





terrorist attack. Valeriya has over 36 years of civil engineering experiences; B.S, M.S. and PhD in Civil Engineering from Odessa Institute of Civil Engineering, Ukraine.

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Dave Rosenblatt, New Jersey Department of Environmental Protection

Dave Rosenblatt is the State's Chief Resilience Officer and Assistant Commissioner for the Climate and Flood Resilience (CFR) Program in the New Jersey Department of Environmental Protection (DEP). The program consists of four organizational areas: the Division of Coastal Engineering, the Division of Dam Safety and Flood Engineering, the Bureau of Climate Resilience Design and Engineering, and the Bureau of Climate Resilience Planning. Dave, with forty-two years in DEP, previously served as Assistant Commissioner and Administrator of the Engineering and Construction program for fifteen years. He has also served as Chief of the Atlantic Coastal and South Jersey Bureau in the Division of Watershed Management for five years.

Dave and his CFR Program staff are developing the Statewide Climate Resilience Strategy and the Coastal Resilience Plan, as directed by Governor Murphy's Executive Order 89. Dave previously managed the preparation of The New Jersey Governor's Delaware River Flood Mitigation Task Force Report (2006) and The Report to the Governor: Recommendations of the Passaic River Basin Flood Advisory Commission (2011). Dave graduated from the Rutgers College of Agriculture and Environmental Science (BS, Environmental Science '76) and The College of New Jersey (Master of Arts, Teaching '97).

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Michael Russo, New Jersey Department of Transportation

Michael Russo was appointed to the position of Assistant Commissioner in August 2017. Mike is responsible for managing the Divisions of Statewide Planning, Multimodal Services, Local Aid and Economic Development, and Environmental Resources. Prior to becoming Assistant Commissioner, Mike served as the Director of Local Aid and Economic Development leading a team of professional and administrative staff in five Local Aid offices responsible for the Department's \$530 million Local Aid program.

Earlier in his career Mike served in various capacities including Project Engineer of a Roadway Design Squad, District Engineer of the Freehold Local Aid Office, and Manager of the Bureau of Design Coordination and Geometric Design. Mike also served in the Division of Project Planning and Development managing Concept Development and Feasibility Assessment efforts on projects throughout the state including the I-295/Route 42/I-76 Direct Connection Project.

Mike received a Bachelor of Science degree in Civil Engineering from the University of Miami.

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Diane Gutierrez-Scaccetti, New Jersey Department of Transportation

Diane Gutierrez-Scaccetti was confirmed as the 19th Commissioner of the New Jersey Department of Transportation on June 7, 2018. She was appointed Acting Commissioner December 19, 2017 and began serving on January 16, 2018.

A native New Jerseyan, Ms. Gutierrez-Scaccetti is a transportation professional with more than 30 years in the industry, and 36 years in government service. She possesses extensive executive, operational, and planning knowledge.

Most recently, the Commissioner served as the Executive Director and CEO at Florida's Turnpike Enterprise, a part of the Florida Department of Transportation. Under her leadership, Florida's Turnpike Enterprise managed more than 460 centerline miles and a 5-year capital program in excess of \$6 billion, supported by \$1 billion in revenues.

This capital program included the construction of SunTrax, a 2.25 mile test track and research facility for the development of transportation technology, including automated and connected vehicle applications, and managed lanes within the Turnpike System. SunPass, Florida's statewide electronic toll collection system, was under her charge. As Executive Director and CEO, Gutierrez-Scaccetti was a member of the Executive Committee of the Florida Department of Transportation, a policy setting body that reports to the Secretary of Transportation.

Prior to the Commissioner's Florida experience, she spent 21 years at the New Jersey Turnpike Authority, working her way up from a Contract Administrator to the post of Executive Director, a position she held from 2008 to 2010. During her tenure, she managed the day-to-day administrative operations and was chief negotiator for the agency's several collective bargaining units.

Ms. Gutierrez-Scaccetti participated in several major agency initiatives, including the remediation of the E-ZPass System, the financial and operational consolidation of the New Jersey Turnpike Authority and New Jersey Highway Authority, bringing the New Jersey Turnpike and Garden State Parkway under a single organization. A major undertaking was the development and financing of a 10-year, \$7 billion capital program that kicked off the widening of the New Jersey Turnpike from Interchange 6 to Interchange 9. This transformational project provided significant congestion relief to a major portion of the I-95 Corridor.

The Commissioner's accomplishments and leadership have been recognized by the Executive Women of New Jersey, WTS Central Florida Woman of the Year, and Orlando Business Journal's 2015 CEO of the Year for the Public Sector.

Ms. Gutierrez-Scaccetti is a member of the Board of Directors of AASHTO. She serves as 2nd Vice President of IBTTA, 2020 President of NASTO and an Executive Committee Board Member





of the Transportation Research Board and the I-95 Corridor Coalition. She serves as the Chair of the Coalition's Toll Violation Enforcement Reciprocity Task Force, and was instrumental in implementing Regional Toll Interoperability of SunPass in the Southeastern U.S.

Commissioner Gutierrez-Scaccetti holds degrees from the University of Connecticut (BS) and Rutgers, The State University of New Jersey (MS).

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Sotiris Theofanis, PhD, Rutgers University

Dr. Sotirios (Sotiris) Theofanis is an internationally acknowledged leading expert in the fields of Freight Transportation; Logistics; and Ports. He has been in the past Expert and Deputy Director for Ports in the Ministry of Merchant Marine, Greece (1985 – 1999); Managing Director of Thessaloniki Port Authority SA (ThPA SA) (1999 – 2002); and Chairman of the BoD and Managing Director of Piraeus Port Authority SA (PPA SA) (2002 – 2004) and ThPA SA (2018 – 2020). In his capacity, he led the successful efforts of Stock Listing of ThPA SA (2001) and PPA SA (2003) and the effort for restructuring, following full privatization, of ThPA SA (2018 – 2020).

He has also been Director of the Freight and Maritime Program (FMP) at CAIT, Rutgers, The State University of New Jersey (2006 – 2012), where currently is affiliated as Senior Research Fellow / Scientist.

He is President of the EXANTAS National Port Training Institute, Greece and Member of the Executive Committee of European Seaports Organization (ESPO). He has been selected as "Port Professional of the Month in Europe" by ESPO, in April 2019.

He has extensive Academic – Research Record in the fields of Ports; Logistics; and Freight Transportation and he serves as Visiting Professor / Scholar in many Academic Institutions worldwide. He has over ninety (90) referred publications, extensively cited, in the areas of his expertise.

He holds a Degree in Civil Engineering, National Technical University of Athens (NTUA), Greece; graduate degrees in the fields of Environmental Engineering and Port Senior Management; and a PhD in Port/Maritime Logistics, Aristotle's University of Thessaloniki (AUTh), Greece.

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Hao Wang, PhD, Rutgers University

Dr. Hao Wang is currently associate professor and graduate program director at Department of Civil and Environmental Engineering of Rutgers University. His research areas focus on development of sustainable, smart, and resilient transportation infrastructure in the changing world. He obtained his PhD in Civil Engineering from University of Illinois at Urbana-Champaign in 2011.

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