

STRATEGIC ACTION PLAN UPDATES 2022

Framing the “Why” For the LTC –
Linking It to Our “How” and “What” = Our Mission



Strategic Plan Updates - 2022

Framing the “Why” For the LTC – Linking It to Our “How” and “What” = Our Mission

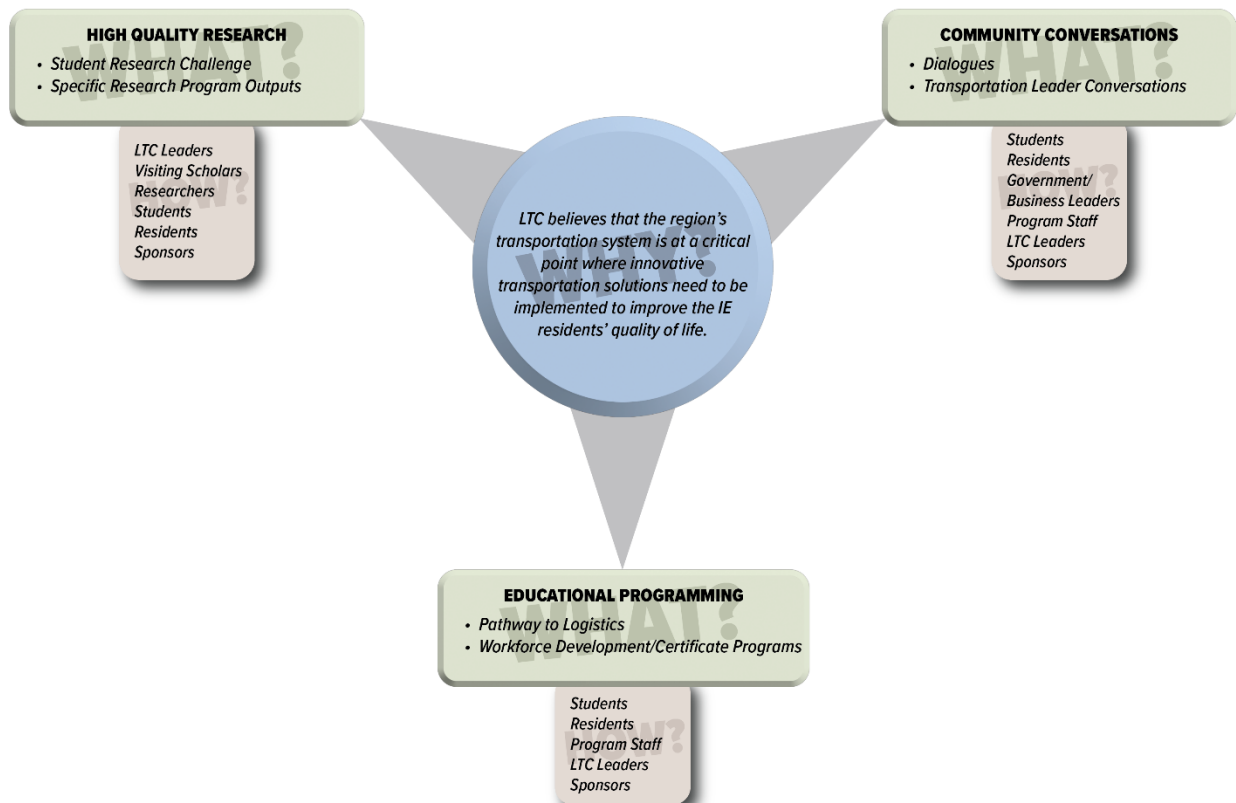
Points that lead us to the why:

- Enhance the quality of life of residents of the region
- Increase opportunities through education.
- Capitalize on the resources of the public and private through enhanced partnerships.
- Improve mobility of the region while minimizing the impact on the environment
- Have an informed community
- Champion of transportation innovation

Why – Leonard Transportation Center (LTC) believes that the region’s transportation system is at a critical point where innovative transportation solutions need to be implemented to improve the Inland Empire (IE) residents’ quality of life.

How – Everything we do is centered on people, with the focus on the IE Community, including Residents (especially underrepresented members), Students (high school to graduate), Business/Industry and Government, though a partnership with Business Leaders, Government Leaders, Education Leaders, Program Staff, and Researchers.

What – Our programs provide for solutions in the transportation sector based on sustainability, social equity, and innovation by delivering high quality research, community conversations, and educational programming.



Program Details

Research Initiatives

Faculty, Visiting Scholars, and Student Projects Focused on Two Main Themes:

Transportation Mobility Policy and Management

The focus of this work is to set a broad agenda to understand the challenges and find possible solutions for enhanced transportation mobility policy and managing inland ports. From an economic perspective, the geographic location, transportation infrastructure, availability of land, and growing demand from e-commerce has made the IE an ideal region for goods movement and home ownership. From a transportation perspective, this growth in residents and logistics facilities has led to congestion, environmental pollution, and stress to public services, which all produce negative impacts to the future economic viability and livability of the region. Given these observations, the LTC is determined to continue to research solutions for system improvements that will lead to transportation sustainability, equity, and improved mobility.

Intelligent Transportation Systems & Transportation Cybersecurity

Our second area of research focuses on intelligent transportation systems (ITS) and transportation cybersecurity. With the implementation of new technologies in the transportation system, providing safeguards is critical. The LTC's research agenda for this broad issue is to identify and address cybersecurity challenges in the region's transportation infrastructure.

Student Research Challenge

The goal of the LTC's Student Research Challenge is to find creative solutions to difficult questions surrounding the Inland Empire transportation system. Research will be conducted by multi-disciplinary teams of students from the three major public universities in the region. This project will get regional students (undergraduate and graduate) from CSUSB, Cal Poly Pomona, and UC Riverside to think innovatively, learn research techniques, and find solutions to the tough transportation related questions facing the region.

Specific Research Program Outputs:

To find innovative solutions to problems and questions surrounding the IE transportation system. Each project will address some or all of the following:

- mobility;
- climate change/pollution reduction/community adaptation;
- new industries/entrepreneurship based in transportation technologies;
- smart city technologies;
- international and domestic impacts/forces on the system to understand; and
- transportation cybersecurity in the public sector.

Community Conversations

Dialogues

Mobility is key to the Inland Empire's future economic growth and quality of life. This dialogue series has been developed to address the numerous regional projects and initiatives designed to improve mobility. Advanced technology will be the dominant factor in our automobiles, rail transportation, the movement of freight, and the organization of our communities. Few will doubt the assertion the change we are about to face is at least as great in the 21st Century as was the transportation changes that occurred in the early 20th Century as we moved from horse and buggies to planes, trains, and automobiles.

As exciting as this impending future may be, it is very important to remind ourselves that we live in a democratic society in which an informed electorate is the best guarantee of a strong and stable society. However, given the rapid pace of events, most people today are not informed about the many issues related to the immanent changes in our transportation infrastructure, few are aware the many transportation-related projects and initiatives, and fewer still are involved in any meaningful way in the decisions that are being made. There are differing opinions regarding the magnitude of the problems and the relative merit of various potential solutions. Moreover, there is currently no authoritative place that people who are not directly involved in ongoing discussions can go to obtain a comprehensive overview of our mobility needs, the related social concerns, and the projects and initiatives now being discussed to address them. These past couple years the Leonard Transportation Center hosted a series of educational and interactive breakfast dialogues bringing together community leaders like you in a discussion of how to best address the region's mobility needs. The 2018 and 2019 series were successful in bringing together policymakers and thought leaders from both the public and private sectors as well as CSUSB faculty experts, students, and members of the public to address a number of transportation challenges, issues and solutions. After receiving positive feedback throughout our Dialogue Series, we will continue the series in the Inland Empire for 2020. Due to COVID-19, until further notice the remainder of the series will be held virtually online.

High Level Conversations

Over the next year, the LTC advisory council and staff will work together to bring together transportation leaders from across the region together to discuss critical issues in the system. The goal will be to find solutions through collaboration, shared governance, and support for key leaders.

Educational Programming

Pathway to Logistics

The Information Decision Sciences Department and Leonard Transportation Center at California State University, San Bernardino are working in collaboration on the Pathway to Logistics Program. CSUSB, Cajon High School, Chaffey College and other educational partners have developed the Pathway to Logistics Program to engage local high school students in logistic industry careers. We are working hand-in-hand with Cajon and Arroyo Valley High Schools administration, parents, and students to make this Pathway a great success. The goals are to grow the number of local students seeking a post-secondary education in logistics and transportation, and to place CSUSB in a greater support role of the logistics and transportation

sector. Students will learn the skills and applications of information and decision technology, management systems that will support the transportation industry and business leadership. The program enables students to practice innovative and critical thinking skills as they develop solutions to authentic logistics problems businesses face locally, regionally, nationally, and internationally on a regular basis. The overall vision for the Pathway to Logistics is to develop a flexible logistics program to support industry, local students, and build the economy, creating greater livability in the region.

Workforce Development/Certificate Programs

The Transportation Leadership, Planning and Performance Institute provides a comprehensive overview of transportation planning, performance, and leadership. The course has 26 modules and a capstone project. It covers an array of topics that are beneficial to individuals interested in learning about the future of transportation planning and technology such as strategic planning and leadership. The TLPPi provides vital skills and applied information to entry-level/mid-level transportation planners working in California. Skills acquired can be applicable beyond transportation, and professionals can learn about how they can improve leadership skills, work with performance indicators, and update their knowledge in transportation planning. This program is currently in hiatus, but we hope to renew and offer it again soon.