

OFFICE LOCATIONS

With regional offices in Florida, Virginia, Texas and California and satellite offices throughout the United States, Lea+Elliott is positioned to provide a broad range of engineering and consultation services to public transit authorities and private sector clients.

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Lea+Elliott
An equal opportunity employer

HIGH SPEED RAIL

Planning

Engineering

Procurement

Implementation Oversight

Lea+Elliott



About Lea+Elliott

Lea+Elliott is a transportation consulting firm offering a broad range of planning and engineering services for clients worldwide. Principal activities involve transportation system planning, analysis, design, procurement, implementation, and overhaul.

The Lea+Elliott team has expertise in all modes of transit, including high speed rail, rapid transit, light rail, rail, automated guideway transit, bus/bus rapid transit and emerging engineering technologies. These services are provided primarily to airports, public transit authorities, regional planning organizations, and and private sector owners of transportation systems.

High Speed Rail Services

Planning

- Feasibility studies
- Corridor alternatives analysis
- Train performance simulations
- Capital and operating cost analyses
- Operational strategy

Engineering

- Technical studies
- Design verification
- Value Engineering
- Independent safety oversight/ system safety certification

Procurement

- DBOM/design-build/traditional build/traditional procurements procurements
- Development of procurement strategy and contract documents documents
- Proposal evaluation and contract contract award

Implementation Oversight

- Monitor contract activities through project implementation implementation
- Keen knowledge of vehicle manufacturing processes
- Facilities Interface

Related Experience

Northeast Corridor High Speed Rail

For seven years, Lea+Elliott supported the the implementation of the first high-speed speed rail system in the United States. We We validated the procurement process and and monitored trainset manufacturing and and commissioning.



Amtrak Acela
Northeast Corridor

Midwest Regional Rail Initiative (MWRII)

Prime consultant for planning, procurement and engineering services. We We drafted performance specifications and and Contract Documents for this 110 mph mph Service + Maintenance + Maintenance Maintenance Facilities.

Proposed Midwest Regional Rail



Southern California Association of Governments (SCAG) Maglev

Performed detailed technology and corridor corridor assessment, and implementation implementation analyses focusing on high high speed rail and very high speed maglev. maglev. Selected physical and operational operational configurations that could be integrated into SCAG East-West and South South alignments.



Balt-Wash and Pittsburgh Maglev Systems

Retained by both teams as the independent independent technology expert and advisor advisor on technology transfer from Europe Europe to the U.S.



SIMULATION AND MODELING

LEGENDS® the sophisticated proprietary proprietary family of computer models models developed by Lea+Elliott, is recognized throughout the industry as a as a leading-edge analytic tool. Using the the detailed data generated by LEGENDS®, Lea+Elliott professionals professionals can assess critical components of a rail transit system, pinpoint possible trouble spots, analyze analyze costs and make recommendations recommendations for improvements.

Simulating train performance, network network operations and line capacities, capacities, LEGENDS® determines travel travel times, delay times and locations, locations, optimal fleet size, system capacity, travel schedules, energy consumption, facility requirements and and capital and operating costs.

The use of LEGENDS® has been enhanced by new software that provides provides an excellent visual presentation presentation of the data generated by the the simulation. This output can be displayed in the form of dynamic graphics, summary tables or graphs and and is ideal for presentation to groups of groups of any size.

