



**Tran** Systems

**EXPERIENCE** | Transportation

Covering the Waterfront  
Anchored in Expertise

**Ports and Maritime**



# ANCHORED

## THROUGHPUT

In today's global transportation marketplace, ports, harbor intermodal facilities and shipping companies are the key links in the entire global supply chain. Without effective, safe, and swift port operations, a world in motion comes to a halt.

Continually improving the efficiency, speed, security and reliability of cargo movement is the greatest challenge – because the cargo isn't waiting. Amid rapidly changing vessel sizes, ports must continually update their facilities and their strategy to keep their facilities competitive.

## WE COVER THE WATERFRONT

TranSystems' experience across all parties, disciplines and factors on the waterfront has vastly improved the operations of our ports and maritime clients from coast to coast. In a match-up with the port profile, we think in intermodal terms. TranSystems, with a history of service to all components of the port entity, in addition brings a full knowledge of all other modes, including the Class I railroads, and the hard-won understanding of the inherent interoperability of modes.

## IT DOESN'T STOP THERE.

Our commitment to the marine sector incorporates all elements of coastal engineering and waterfront development, including marinas, piers and wharves, and waterside facility engineering and design. We augment these services with particular strengths in security planning and design, program and project management, GIS, and construction management services.

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## WE SERVE

- ▶ Port Authorities and Harbor Districts
- ▶ Maritime Carriers and Operators
- ▶ Recreational Marina and Boating Harbors
- ▶ Cruise Lines and Ferry Systems
- ▶ Inland Waterway Operators
- ▶ Marine Terminal Operators and Stevedore Companies
- ▶ Dry Dock and Marine Repair Companies
- ▶ Federal Maritime Administration and Commission
- ▶ Other Marine Entities



# IN EXPERTISE

## TRANSYSTEMS - MEETING THE CHALLENGES

Across the Strategic and Built Environment

The ability of TranSystems to meet the transportation challenges of its clients rests firmly on the range of modal expertise, technical disciplines and consulting services we have gathered into one integrated business entity. We provide knowledge vertically within each mode of transport and horizontally across all the modes. Likewise, we have embraced the domains of management, real estate, and security consulting, meshed with the full range of the engineering and architectural disciplines. We thus have the ability to wring out handoff costs between disciplines otherwise contained in separate business organizations.

Our project management goals are the same as those of our clients. In fact, we require this of ourselves. We determine the most effective path forward towards project completion. We discover and execute economies without compromising the quality of the project. We are committed to gaining an understanding of the larger purpose and fit into the economy of the project or the program. Finally, we bring an awareness of the needs of both the client and the end user. We never lose sight of the fact that lives – and livelihoods – depend on the solutions we offer.

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## TRANSYSTEMS MARKET SECTORS

- Freight Railroads
- Passenger Rail and Transit
- States and Municipalities
- Airports and Air Carriers
- Shippers and Distributors
- Ports and Maritime
- Trucking and Automotive
- Energy and Communications
- Federal Government



## TRANSYSTEMS' CONSULTING SERVICES

### Services to the Ports and Maritime Sector

Port Strategic Planning  
 Terminal Design  
 Cargo Projections  
 Feasibility Studies  
 Site Reconnaissance  
 Inland Transportation Analysis  
 Master Planning  
 Waterfront Development  
 Marina Development and Design  
 Market Forecasting  
 Facility Assessment  
 Waterfront Construction Management  
 GIS  
 Coastal Engineering  
 Permitting  
 Needs Assessment  
 Asset Management Planning  
 Spatial Analysis, Mapping and Reporting  
 Pier and Wharf Design  
 ADA Compliance and Public Access  
 Bulkhead, Seawall and Revetments  
 Wave Attenuation  
 Dredging

### Preliminary and Final Design Services

Site Assessment, Development and Design  
 Architecture  
 Civil  
 Structural  
 Mechanical, Electrical and Plumbing  
 Feasibility and Impact Studies  
 Interior Design  
 Landscape  
 Routing Analysis  
 Signaling, Optimization and Lighting  
 Traffic  
 Utility Planning and Relocation

### Facility Operational Analysis, Benchmarking and Improvement

Process Definition and Mapping  
 Analytical Modeling  
 Manufacturing Operations  
 Distribution Operations  
 Transportation Operations  
 Security and Threat Analysis  
 Process Improvement  
 Supply Chain Operations Analysis  
 Facility Location  
 Transportation Alternative Analysis  
 Sourcing Alternative Analysis  
 Inventory Deployment  
 Operational and Process Validation

### Management Consulting Services

Economic Analysis of Logistics  
 Econometric Modeling  
 Market Demand Analysis and Forecasting  
 Supply Chain Process Mapping  
 Supply Chain Assessment  
 Cost and Service Benchmarking  
 Modal and Transmodal Strategic Planning  
 Bulk Ocean Carrier Economics  
 Rail Intermodal Cost Analysis  
 Industrial Redevelopment Consulting

### Planning Services

Capital Programming  
 Energy Efficiency  
 Freight Mobility  
 Site and Facility Master Planning  
 Site Assessment  
 Urban, Regional and Community Planning

### Real Estate Services

Right-of-Way Acquisition Services  
 Program and Project Management  
 Title Research  
 Negotiations  
 Appraisals/Value Analysis  
 Right-of-Way Cost Estimating  
 Relocation Assistance  
 Property Management  
 Document Recording

### Security Services

Security Program Design and Development  
 Risk, Threat and Vulnerability Assessments  
 Operational and System  
 Auditing Assessments  
 Emergency Preparedness and  
 Recovery Planning  
 Facility Security Design  
 Strategic Master Security Planning

### Construction Management Services

Administration  
 Arbitration and Mediation  
 Inspection  
 Management  
 Materials Testing  
 Observation  
 Surveying, Staking and As-Built