

Transportation and Infrastructure



TRANSPORTATION AND INFRASTRUCTURE ARE EXPERIENCING DRAMATIC CHANGE AND DISRUPTION.
Econsult Solutions' economic, strategic, analytic, and big data capabilities can keep your organization on the forefront.

Transportation Infrastructure

Innovation Infrastructure

Sustainable and Equitable Infrastructure

Return on Investment



Analytics-Driven Insight

Infrastructure investments and transportation services impact the economic trajectory, land use patterns, access to economic opportunity, and quality of life of an area by connecting people to places. ESI combines economic, strategic, and analytic capabilities to help our clients evaluate their options, demonstrate the benefits of their projects, and achieve their objectives.

ANALYTICAL CAPABILITIES

- Benefit-Cost Analysis
- Financial Modeling and Market Intelligence
- Geospatial Analysis and Data Visualization
- Impact Analysis
- Performance Benchmarking
- Predictive and Scenario Analysis
- Statistical and Big Data Analysis
- Strategic Planning and Facilitation
- Surveys and Primary Research

SERVING

- Transit Agencies
- Airport Authorities
- Port Authorities
- Infrastructure Grant Applicants
- Metropolitan Planning Organizations
- Trail and Greenway Organizations
- Departments of Transportation
- Innovation Districts
- Government Agencies

Transportation Infrastructure

Solutions for Public Transit

Economic Impact/ Return on Investment

Catalytic Growth Projections

Equity Analysis and Social Benefits

Strategic Assessments

Innovation Infrastructure

Sustainable and Equitable Infrastructure

Return on Investment and Cost/Benefit

Our Team's Experience and Expertise



Transportation Infrastructure

Transportation infrastructure facilitates the movement of people and goods in ways that can improve the economic vitality, quality of life, and equitable access in a location. ESI draws on a variety of analytical tools to assess the importance of transportation infrastructure and services and their value to communities and jurisdictions.

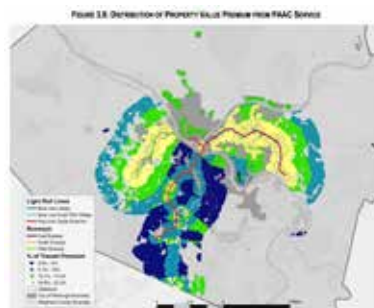


SEPTA Economic Intelligence

In times of crisis, transit's direct and catalytic value is essential to a region's recovery. ESI has undertaken a series of studies on the economic value, development implications, and equitable benefits of SEPTA's service. Collectively these studies articulate the value proposition that SEPTA provides to the region's residents and its economy.

The Economic Impact of Public Transit for Port Authority of Allegheny County

For the Port Authority of Allegheny County, ESI demonstrated the transit agency's full economic impact, including measurement of the property value premium afforded by proximity to public transit. ESI's assessment also measured the impact of PAAC's expenditures and service on the economy, on residents, and on state and local tax bases.



The Economic Impact of PHL International

ESI found that the Philadelphia International Airport annually produces a \$15.4B output within the 11-county Philadelphia Metropolitan Statistical Area. ESI analyzed the direct and indirect regional economic impacts that can be attributed to the airport that has served more than 30M commercial passengers annually.

SOLUTIONS FOR PUBLIC TRANSIT

Economic Impact/Return on Investment

Catalytic Growth Projections

Equitable Analysis and Social Benefits

Strategic Assessments

PUBLIC TRANSIT

SELECT CLIENTS

Transit Providers

- Amtrak
- New Jersey Transit (NJ Transit)
- New York Metropolitan Transportation Authority (MTA)
- Port Authority of Allegheny County (PAAC)
- Southeastern Pennsylvania Transportation Authority (SEPTA)
- Washington Metropolitan Area Transit Authority (METRO)

Government and Quasi-Government Entities

- Montgomery County, MD Department of Transportation (MCDOT)
- New York City Economic Development Corporation (NYCEDC)
- New Jersey Transportation Planning Authority (NJTPA)
- Pennsylvania Department of Transportation (PennDOT)
- Philadelphia International Airport (PHL)
- The Port Authority of New York and New Jersey (PATH)
- U.S. Department of Transportation (USDOT)

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Solutions for Public Transit

It is critical that transit providers use evidence-based analysis both to plan and tailor their services, and to make the case for the vital importance of their operations and investments to the recovery and future of the communities they serve.

Economic Impact/Return on Investment

RAISE Grant Applications

ESI works with public agencies to help convey to what extent a project will have positive economic, transportation, social, and environmental impacts to achieve desired outcomes of the grant program.

NJ Transit Capital Plan

ESI collaborated with the Center for Advanced Infrastructure and Transportation (CAIT) at Rutgers University to evaluate the economic impact of New Jersey Transit's 5-Year Capital Plan.

The Economic Impact of Port Authority of Allegheny County

Our report demonstrates the impact of PAAC's expenditures and service on the economy, on residents, and on state and local tax bases through a variety of economic frameworks.

Equity Analysis and Social Benefits

SEPTA Equity Impacts for Philadelphia Residents

ESI examined the equity implications for residents of a proposed fare restructuring.

State of Good Repair and Transit Equity

ESI transit experts collaborated on research and presentation of the equity implications when authorities maintain transit infrastructure in good repair.

SEPTA Service: A Value Proposition

ESI demonstrated the incremental increases in home value afforded by proximity to transit service. An interactive map was developed to show results of this analysis.

Catalytic Growth Projections

SEPTA Projects of Regional Significance

This analysis shows how SEPTA's \$6.6 billion package of capital projects will change the economic trajectory of the region by enhancing regional competitiveness and attractiveness.

The Property Value Impacts of the MD355 Bus Rapid Transit

ESI was retained by Montgomery County, Maryland Department of Transportation to evaluate how the proposed MD355 BRT line would add value to surrounding properties.

How Center City Congestion Impacts all Philadelphians

Economic costs from congestion delays are borne by a variety of actors. They also impact the financial profile of SEPTA and the tax base of the City.

Strategic Assessments

SEPTA Key Advantage Program

In advance of implementing a pilot of this new program, ESI led research and analysis of pricing models to demonstrate the potential impacts. ESI also led the development and implementation.

Amtrak Chicago Union Station

ESI analyzed the impacts that a proposed multi-use development adjacent to the station would have on the economy of downtown Chicago.

SEPTA Ridesharing Evaluation

ESI assessed the possible risks and opportunities that Transportation Network Companies (rideshare apps) pose to transit service.

Find out more about ESI's Solutions for Public Transit online.

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Our Team's
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Innovation Infrastructure

The ecosystems that support innovation are built on a combination of physical and knowledge infrastructure. ESI's experts in urban economics, policy, and strategy to craft evidence-based research to help urban areas capitalize on their unique strengths.

Chengdu Future Science and Technology City

ESI and ANBOUND teamed up with Pelli Clarke Pelli Architects, SWA Group, and Arup to participate and win 3rd place at the Architectural Design Competition of The Future Science and Technology City of Chengdu Hi-Tech Industrial Development Zone.



ESI CENTER FOR THE FUTURE OF CITIES

ESI Center for the Future of Cities brings together experts in urban economics, policy, and strategy to craft new evidence-based research on the most important issues facing cities around the world.

INNOVATION INFRASTRUCTURE

WHO WE HAVE WORKED WITH

- Anbound
- Axis Communications
- Bentley
- Center for Advanced Infrastructure and Technology, Rutgers University
- Cisco
- Deloitte
- GM
- Honeywell
- Intel
- Microsoft
- NJPro
- NTT
- Oracle

Smart City Solutions for a Riskier World

ESI and its thought leadership team released a forward-looking study that provides city decision-makers with an evidence-based playbook for driving better social, environmental, and economic outcomes in today's transformed world.



Comparative Analysis of Innovation Districts

ESI conducted a comparative analysis of innovation districts—University City in Philadelphia, Kendall Square in Cambridge, Oakland in Pittsburgh, and South Lake Union in Seattle—with the aim of validating University City as a business location of choice.

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Our Team's Experience and Expertise



Sustainable and Equitable Infrastructure

Infrastructure is among our most important public goods, and choices about the location, form and function are a reflection of social values. ESI has the tools to analyze infrastructure through the lenses like equitable access, sustainability and contributions to equitable growth to understand how benefits are shared and distributed.



The Benefits of Completing the Capital Trails Network

ESI was commissioned by the Capital Trails Coalition to evaluate the impacts of the Capital Trails Network across the Washington, DC metropolitan region, which was defined as the District of Columbia; City of Alexandria; and Prince George’s County and Montgomery County in Maryland.

Infrastructure Maintenance and Economic Growth

ESI, Rutgers CAIT, and the University of the Virgin Islands collaborated on a study of the links between transportation infrastructure maintenance, resiliency, and economic competitiveness which reviewed decades of relevant research and found that regions with inadequate public investment endure higher daily costs of living.



Bus Fleet Transition Study

ESI collaborated with a team of engineering specialists to assess the costs and benefits of potential technology solutions to transition a university’s on-campus diesel bus fleet to an alternative fuel source. This study was designed to provide the institution with actionable decision-information regarding the future of its bus fleet to help meet institutional sustainability goals.



ANALYTICAL CAPABILITIES

Comparative Analysis

Comprehensive Planning

Economic Development Analysis

Economic Impact Analysis

Sustainability and Environmental Benefits

SUSTAINABLE AND EQUITABLE INFRASTRUCTURE

SELECT CLIENTS

- Capital Trails Coalition
- Center for Advanced Infrastructure and Technology, Rutgers University
- East Coast Greenway
- Montgomery County, MD Department of Transportation (MCDOT)
- Southeastern Pennsylvania Transportation Authority (SEPTA)

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Our Team’s Experience and Expertise

Return on Investment and Benefit/Cost Analyses

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RAISE Grants

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ANALYTICAL CAPABILITIES

Benefit-Cost Analysis

Impact Analysis

RETURN ON INVESTMENT AND BENEFIT/COST ANALYSES

SELECT CLIENTS

- Center City District
- City of New Haven
- City of New York
- City of Philadelphia
- City of Wilmington, DE
- Connecticut Department of Transportation
- Delaware River and Bay Authority
- John. F. Kennedy International Airport
- New York City Economic Development Corporation
- Port Authority Transit Corporation (PATCO)
- Philadelphia Regional Port Authority
- Southeastern Pennsylvania Transportation Authority (SEPTA)

Impact of Future Projects for SEPTA

ESI assessed the long-term catalytic impacts of SEPTA's \$6.5 billion package of four proposed capital projects. This analysis shows how SEPTA's projects of regional significance will change the economic trajectory of the region by enhancing regional competitiveness and attractiveness.

SEPTA's Projects of Significance

Market Frankford Line Capacity



King of Prussia Extension



Regional Rail Enhancement



Trolley Modernization



Cargo Movement Technology for JFK International Airport

ESI collaborated with the Center for Advanced Infrastructure and Transportation (CAIT) at Rutgers University and Cayuga Partners to evaluate the potential benefits of technology systems to improve the flow of cargo at John F. Kennedy International Airport in New York City.





Experience and Expertise



Peter Angelides, Ph.D., AICP
President and Principal
Economist and City Planner with expertise in economic and urban development, including real estate, economic development, transportation, tax policy, valuation, and litigation.



Ethan Conner-Ross, MPA
SVP and Principal
Public Policy expert, leads the Transportation and Infrastructure Practice Area, having directed numerous projects for the firms' many transportation and transit clients.



Gina Lavery, MCP
SVP and Principal
City and Regional Planner, leads projects in transit and trails impact analysis, as well as advisory services on incentives programs, and public financing for private and public sector clients.



Joyce Liu, MCP
Analyst
City Planner with geospatial analysis and programming experience using ArcGIS, SQL, HTML, R Studio, JavaScript, and Adobe multimedia design.



Sam Sklar
Director
Transportation and Urban Planner specializing in project management and communications; publisher of *Exoperated Infrastructures* focused on state and federal infrastructure.



David Stanek, Ph.D.
Director
Urban Planner specializing in data science techniques, GIS, qualitative research methods, land use, urban policy, and public finance.



Richard Voith, Ph.D.
Principal
Economist with extensive practical experience in transportation and transit having served on the board of SEPTA and as well as Pennsylvania's Transportation Funding and Reform Commission.

Contact Us

LET US HELP YOU FIND A SOLUTION TO YOUR MOST PRESSING CHALLENGES.
Our staff and advisory board consists of experienced professionals that provide the highest levels of technical expertise in economics, analytics, and thought leadership.

Ethan Conner-Ross, MPA
Senior Vice President and Principal
Practice Area Lead
conner-ross@econsultsolutions.com
1435 Walnut Street, 4th Floor, Philadelphia, PA 19102
215-717-2777

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Experience and Expertise

Econsult Solutions has a wealth of experience as industry practitioners, transportation economists, resilient infrastructure policy advisors, innovation ecosystem experts, and instructors. Our economists and experts have served in leadership positions at a number of transit agencies. Richard Voith, PhD, is an expert in transportation economics. He served on the board of directors of SEPTA for eight years and was Vice Chairman for three years. He was also a member of Pennsylvania Governor Rendell's nine-member Transportation Funding and Reform Commission. Peter Angelides, PhD, AICP, specializes in Economics and City Planning, and has guided clients through transportation projects, such as environmental impact statements for the Washington, DC Metrorail system. Ethan Conner-Ross has completed numerous economic analyses for ESI's transit clientele. [move to new page, About Our Team, include lots of people](#)

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SVP & Principal
conner-ross@econsultsolutions.com



Richard Voith, Ph.D.
Principal
voith@econsultsolutions.com



Peter Angelides, Ph.D., AICP
President and Principal
angelides@econsultsolutions.com