

Aviation Planning Economics Suite

Economic Development Research Group

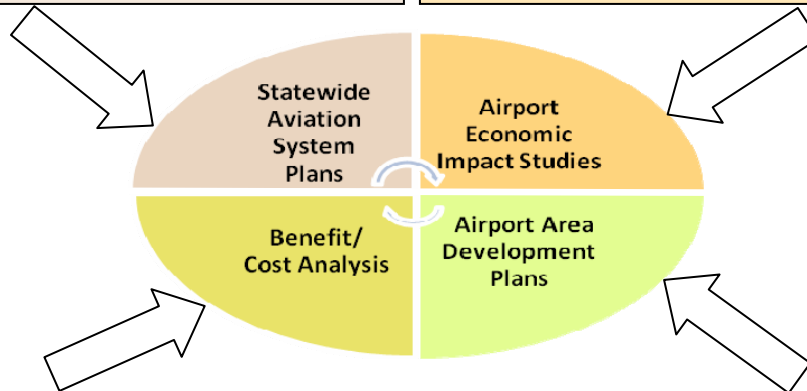
EDR Group's suite of four analysis tools provides economic impact and benefit/cost analysis for the full range of aviation planning issues, from statewide aviation system plans to individual airport runway extension and area development plans.

For Statewide Aviation System Plans...

- Airport Benefit Cost (ABC) system
- statewide database of airports, proposed projects, future scenarios
- shows benefit/cost of alternative packages of airport improvement projects, for prioritization
- shows local & state economic role, and changes with future projects and scenarios
- Examples of ongoing use:
Wisconsin DOT and Michigan DOT

For Airport Economic Impact Studies...

- Airport Regional Impact Model (ARIM)
- most comprehensive analysis of single airport impact on community, region & state economy
- shows job, income, business sales, tax impacts of airport, both current & future forecast
- shows impact of changes in aircraft operations, hub, cargo activity, terminal & ground services
- Example of ongoing use:
Atlanta Hartsfield International Airport

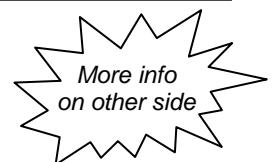


For Benefit-Cost Analysis...

- Custom project evaluation model for GA airports
- Complies with FAA regulations; integrates ground/air & aviation-reliant business benefits
- Successful applications for funding runway extensions, nav. aids, terminal expansion, etc.
- First system successful for funding GA air cargo runway and facilities expansion
- examples of use in funding applications:
Rock County Airport (WI), Capital City Airport (MI)

For Airport Area Development Planning ...

- Airport Development Economics (ADE) system
- shows effect of new & expanded airport on business, land use and building occupancy
- shows effects for airport, adjacent land and broader area (within 5km)
- Compatible with TREDIS for analyzing effects of multi-modal air and ground access changes
- examples of use in planning studies:
Pretoria, South Africa and Providence, RI



Key Features of the Aviation Planning Economics Suite

The suite of aviation economic analysis tools covers the full range of economic impacts and benefits associated with airports and airport improvement projects, including:

Benefits of Airport Facility Expansion

- **Time/Cost Savings** – Aircraft ground/air operating cost and airport delay cost savings enabled by facility enhancement
- **Critical Aircraft** – cost efficiencies associated with use of larger aircraft enabled by facility enhancement
- **Access Travel** – user ground travel cost savings and roadway congestion reduction (due to availability of more convenient local air service)
- **Interchange** – cargo and passenger gateway & hub benefits



Economic Role of Commercial and GA Airports

- **Corporate Aircraft Use** – jobs and income related to corporate aircraft use for passenger movement, cargo movement and aerial services. Careful distinction is made between full & fractional ownership.
- **Business Reliance on Air Services** – jobs and income dependent on employee business travel, client travel, education and parcel/cargo shipments using commercial services.
- **Business Supported by Visitor Spending** – jobs and income supported by airport-dependent visitors. Careful distinction is made between business/leisure and domestic/international visitors.
- **Airport Business Activity** – jobs and income supported by airport administration, air terminal tenants, ground services and land tenants, distinguishing aviation, visitor services and non-aviation tenants.
- **Value of Airport for Other Public Uses** – jobs and income associated with public health, security and other uses of the airport and aviation services and savings over other ground/air alternatives
- **Aerospace Industries** – jobs and income associated with aviation-related manufacturers, services, education and military aviation.
- **Off-Airport Economic Development** – jobs and income generated directly by economic market growth, indirectly by support for business suppliers, and induced by airport-related employee spending

Aviation Planning Economic Tools – Proven Application and Use for:

<u>Statewide Aviation Economic Studies:</u> <ul style="list-style-type: none"> • Colorado • Massachusetts • Michigan • Oregon • Vermont • Virginia • Wisconsin 	<u>Local Airport Economic Studies:</u> <ul style="list-style-type: none"> • Baltimore-Washington Airport, MD • Glasgow Airport, Scotland • Hartsfield Airport, Atlanta, GA • Lansing Capital Region Airport, MI • Logan Airport, Boston, MA • Philadelphia International Airport, PA • Pretoria Airport, South Africa • TF Green Airport, Providence, RI
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**Check out the details at
www.edrgroup.com/aviation**

