

## The Contribution of Office, Industrial and Retail Development and Construction to New York's Economy\*

By Stephen S. Fuller, PhD, George Mason University

The value of commercial buildings is much more than the sum of pre-construction (soft costs) and construction outlays (site development, building construction and tenant improvements). Commercial buildings generate continuing post-construction value within the local and state economies as a result of the spending associated with their operations and the value of output generated by the workers and businesses they house. This report measures the contribution of office, industrial and retail building development, construction and operations to New York's economy in the form of annual direct spending for new development, construction and annual expenditures to operate existing buildings.

The analyses presented in this report define the economic impacts of commercial buildings on New York's economy, highlighting the economic impacts from office, industrial, warehouse and retail buildings, during the three life stages: development, construction and maintenance.

### The Three Stages in the Life of a Commercial Building



#### Soft Costs/Site Development/Tenant Improvements

Architects, engineers, developers and marketing/design professionals working during the development phase begin the life span of a commercial building.



#### Hard Costs

During the construction phase, new commercial projects employ workers who spend their paychecks in the local economy and contribute to the tax base.



#### Operating Costs

After new commercial buildings are completed and occupied, they add to the productive capacity of their host economies. The outlays that support the new buildings' operations add ongoing annual sources of economic impact that accumulates over the life span of commercial buildings.

\* This report, prepared for the National Association of Industrial and Office Properties Research Foundation with 2007 construction data provided by McGraw-Hill Construction, is part of the larger report issued in October 2008 by Stephen S. Fuller, PhD entitled, The Contribution of Office, Industrial and Retail Development and Construction to the U.S. Economy, 2008 Edition.

The following table provides the soft costs, site development, tenant improvements and construction (hard) costs for the state of New York.

**The Impacts of Construction Spending for Soft Costs, Site Development,  
Tenant Improvements and Construction (Hard) Costs on the Economy of New York, 2007  
(in billions of 2007 dollars)**

Sources	Direct Spending	Total Output <sup>1</sup>	Personal Income <sup>2</sup>	Jobs Supported <sup>3</sup>
<b>Office Buildings</b>				
Soft Costs	\$0.814	\$1.563	\$0.616	21,645
Site Development*	0.706	1.328	0.383	9,748
Construction Costs	2.337	4.393	1.267	32,244
Tenant Improvement**	0.852	1.602	0.462	11,762
<b>Totals</b>	<b>\$4.709</b>	<b>\$8.886</b>	<b>\$2.728</b>	<b>75,400</b>
<b>Industrial Buildings</b>				
Soft Costs	\$0.154	\$0.297	\$0.117	4,106
Site Development*	0.222	0.417	0.120	3,059
Construction Costs	0.633	1.191	0.343	8,741
Tenant Improvement**	0.160	0.302	0.087	2,214
<b>Totals</b>	<b>\$1.170</b>	<b>\$2.206</b>	<b>\$0.667</b>	<b>18,120</b>
<b>Warehouse Buildings</b>				
Soft Costs	\$0.054	\$0.104	\$0.041	1,444
Site Development*	0.068	0.127	0.037	935
Construction Costs	0.208	0.391	0.113	2,872
Tenant Improvement**	0.053	0.100	0.029	735
<b>Totals</b>	<b>\$0.383</b>	<b>\$0.723</b>	<b>\$0.220</b>	<b>5,986</b>
<b>Retail Buildings</b>				
Soft Costs	\$0.566	\$1.086	\$0.428	15,043
Site Development*	0.623	1.171	0.338	8,597
Construction Costs	1.679	3.156	0.910	23,166
Tenant Improvement**	0.511	0.960	0.277	7,049
<b>Totals</b>	<b>\$3.378</b>	<b>\$6.374</b>	<b>\$1.953</b>	<b>53,855</b>
<b>Totals Buildings</b>				
<b>Soft Costs</b>	<b>\$1.588</b>	<b>\$3.050</b>	<b>\$1.202</b>	<b>42,238</b>
<b>Site Development*</b>	<b>1.619</b>	<b>3.043</b>	<b>0.878</b>	<b>22,339</b>
<b>Construction Costs</b>	<b>4.857</b>	<b>9.131</b>	<b>2.633</b>	<b>67,022</b>
<b>Tenant Improvement**</b>	<b>1.577</b>	<b>2.965</b>	<b>0.855</b>	<b>21,761</b>
<b>Totals</b>	<b>\$9.640</b>	<b>\$18.189</b>	<b>\$5.567</b>	<b>153,361</b>

Source: The Contribution of Office, Industrial and Retail Development and Construction to the U. S. Economy, 2008 Edition, NAIOP Research Foundation, October 2008, pp. 27-63.

Notes: <sup>1</sup> the total value of goods and services generated directly and indirectly as a result of the initial construction spending within the state; <sup>2</sup> the additional earnings generated within the state from direct spending during the construction phase; <sup>3</sup> the additional new jobs supported by the spending and re-spending of direct spending associated with the spending for new construction. \*Site development includes grading, infrastructure, parking and landscaping. \*\*Tenant improvements exclude furniture and equipment.

**On a state level, New York accounted for \$9.640 billion in direct spending for new office, industrial, warehouse and retail buildings as follows (in billions of 2007 dollars):**

Office Buildings	<b>\$4.709</b>
Industrial Buildings	<b>1.170</b>
Warehouse Buildings	<b>0.383</b>
Retail Buildings	<b>3.378</b>
<b>Totals Buildings</b>	<b>\$9.640</b>

**On a state level, commercial buildings supported 153,361 full-time-equivalent, year-round jobs.**

### **The Contribution of Operating Costs on the Economy of New York**

The following table provides the state spending values for the existing buildings (spending for maintenance and repair, cleaning, utilities, security and administrative expenses) that will recur annually following the completion of a commercial building.

#### **Annual Impacts of Existing Buildings on the Economy of New York, 2007 (in millions of 2007 dollars)**

Sources	Direct Spending	Total Output <sup>1</sup>	Personal Income <sup>2</sup>	Jobs Supported <sup>3</sup>
Office Buildings	\$56,409.35	\$106,989.74	\$31,756.59	970
Industrial Buildings	2,428.95	4,606.92	1,367.42	42
Warehouse Buildings	1,691.54	3,208.28	952.28	29
Retail Buildings	32,240.26	61,149.02	18,150.19	555
<b>Totals Buildings</b>	<b>\$92,770.10</b>	<b>\$175,953.96</b>	<b>\$52,226.48</b>	<b>1596</b>

Source: The Contribution of Office, Industrial and Retail Development and Construction to the U. S. Economy, 2008 Edition, NAIOP Research Foundation, October 2008, p. 65-69.

Notes: <sup>1</sup> the total value of goods and services generated directly and indirectly as a result of building operating spending within the state; <sup>2</sup> the additional earnings generated within the state from spending for building operations; <sup>3</sup> the additional new jobs supported by the spending and re-spending of spending associated with building operations. Operations impacts include maintenance and repair, cleaning, utilities, roads and grounds, security and administrative expenses.

### **Commercial Construction Counterbalances Residential**

**Another important contribution of commercial buildings is that the long-term pattern of commercial real estate development, construction and operations spending lags residential spending, helping to cushion the negative economic impact of slower residential construction outlays in 2007 and 2008.**

The magnitude and significance of commercial buildings is clear. Changes in construction activity during the business cycle are directly reflected in GDP growth rates. The combined impact of development, commercial construction and building operations spending is a major source and closely watched barometer of economic vitality at the national and local levels.

For more information about this report, please contact Toby Burke, Senior Director of State and Local Affairs at [burke@naiop.org](mailto:burke@naiop.org) or (703) 904-7100 and Elizabeth Sherrod, Research Director at [sherrod@naiop.org](mailto:sherrod@naiop.org) or (703) 904-7100.