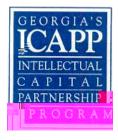
### A Needs Assessment Study Commissioned by Georgia's Intellectual Ca



# The Economic Impact of University System of Georgia Institutions on Their Regional Economies in FY 2004

#### **Executive Summary**

The statewide economic impact of the University System of Georgia's 34 institutions in fiscal year 2004 includes:

- § \$9.7 billion in output (sales);
- \$ \$5.9 billion in gross regional product;
- š \$4.4 billion in income; and
- š 106,831 full- and part-time jobs (2.8% of all jobs held by Georgians).

These benefits permeate both the private and public sectors of the host communities. For example, for each job created on campus there are 1.7 off-campus jobs that exist because of spending related to the college or university.

These economic impacts were especially significant given the sub-par performance of both the national and state economies. Even in tough economic times, continued emphasis on colleges and universities as a pillar of the state's economy translates into more jobs, higher incomes, and greater production of goods and services.

In addition to the system-wide impact summarized here, the chapters that follow quantify the economic benefits that each institution conveys to the community in which it is located. Each institution's benefits are estimated for several categories of college/university-related expenditures: spending by the institutions themselves for salaries and fringe benefits, operating supplies and expenses, and other budgeted expenditures; spending by the students attending the institutions; and spending by the institutions for capital projects.

#### 1. Introduction

How much does a region benefit economically from hosting an institution of higher education? Traditionally, benefits are discussed in broad, qualitative terms that often fail to satisfy those who demand tangible evidence of the economic linkages between the academic community and the community as a whole. However, this report quantifies the economic benefits that the University System of Georgia's 34 institutions convey to the communities in which they are located.

The benefits are estimated for three important categories of college/university-related expenditures:

1.

#### 3. Methodology

## Understanding the Concept of the Short-Term Economic Impact of a College or University

The total annual economic impact of college- or university-related spending consists of the net changes in regional output, value added, labor income, and employment that are due to initial spending by the institution, its faculty and staff, and its students. The total economic impact includes the impact of both the initial round of spending and the secondary, or indirect and induced spending (often referred to as the multiplier effect), which is created as the initial expenditures are respent. Figure 1 provides a schematic representation of impact relationships.

There are two types of secondary spending: indirect spending and induced spending. Indirect spending refers to the changes in interindustry purchases as a region's industries respond to the additional demands triggered by spending by the college or university, its faculty and staff, and its students. It consists of the ripples of activity that are created when an institution and its employees and students purchase goods or service from other industries

and provide a much more realistic measure of the true economic impact of a college or university on its regional economy.

The regional economic areas are the host communities, including the surrounding counties from which employees and students commute. The effects of expenditures that go to persons, businesses, or governments located outside the regions are not included in the value-added, labor income, and employment impact estimates.

The multiplier concept is common to virtually all economic impact studies. Multipliers measure the response of the local economy to a change in demand or production. In essence, multipliers capture the impact of the initial round of spending plus the impacts generated by successive rounds of respending those initial dollars. The magnitude of a particular multiplier depends upon what proportion of each dollar spent leaves the region during each round of spending. Multipliers therefore are unique to the region and to the industry that receives the initial round of spending.

Figure 2 illustrates the successive rounds of spending that might occur if a person buys an item locally. Assume that the amount spent is \$100 and that the appropriate regional output multiplier is 2.0. The initial injection of spending to the region is \$100, which creates a direct economic impact of \$100 to the regional economy. Of that \$100, only \$50 is respent locally; the rest flows out of the region through non-local taxes, non-local purchases, and income transfers. After the first round of spending, the total economic impact to the region is \$150. During the second round of respending, \$25 is respent locally and \$25 leaks out of the region, a 50 percent leakage. Now, the total economic impact to the region is \$175. After seven rounds of respending, less than \$1 remains in the local economy, but the total economic impact has reached almost \$200. The induced (multiplier effect) impact to the region (\$100) equals the total impact (\$200) minus the direct impact (\$100).

The multiplier traces the flows of respending that take place throughout the region until the initial dollars have completely leaked to other regions. Obviously, multiplier effects within large, self-sufficient areas are likely to be larger than those in small, rural, or specialized areas that are less able to capture spending for neces industries, and therefore have relatively high multiplier values. Conversely, electric, gas, and sanitary services usually are less intertwined with local supporting industries, and their multipliers are lower.

#### **Analytic Approach**

Estimating the economic impact of the University System of Georgia institutions on their regional economies in FY 2004 involved four basic steps. First, initial spending and employment for each institution were obtained for Budget Unit "A" and Budget Unit "B" of the University System of Georgia FY 2004 Budget; and then the institutional expenditures were allocated to industrial sectors recognized by the economic impact modeling system. Second, spending by students was estimated and then allocated to industrial sectors. Third, expenditures associated with capital projects (construction) funded were obtained for each institution and were allocated to the appropriate industrial sectors. Finally, the IMPLAN Professional Version 2.0 modeling system was used to build regional economic models that are specific to each institution.

The geographic areas corresponding to the regional models that were built for each institution, which include the labor force directly involved in their economic spheres, are reported in Appendix 1. These geographic areas are based on an analysis of commuting patterns data obtained from *Census 2000 (Residence County to Workplace County Flows for Georgia*, U.S. Census Bureau, Internet Release Date: March 6, 2003).

For analytical purposes, all dollar amounts were converted to inflation-adjusted 2001 dollars, but the amounts expressed in this report have been re-inflated to 2004 dollars. Type SAM (Social Accounting Matrices) multipliers from the IMPLAN modeling system were used to estimate the economic impacts associated with all categories of spending. Type SAM multipliers capture the original expenditures resulting from the impact, the indirect effects of industries buying from industries, and the induced effects of households' expenditures based on information in the social accounting matrix. The multipliers account for Social Security and income tax leakage, institutional savings, commuting, inter-institutional transfers, and people-to-people transfers.

Whenever appropriate, the IMPLAN software applied margins to convert purchaser

recreational programs operated by students). The spending associated with such activities is included in the student's personal expenditures, however. Expenditures for the Medical College of Georgia do not account for spending by the hospital and clinics operated by MCG Health, Inc., which became a not-for-profit corporation in July 2000. Therefore, these expenditures are not comparable to previously published estimates for the institution.

Since a detailed analysis of spending patterns at each institution was not practical, budgeted expenditures for operating expenses were allocated to various economic sectors based on a typical expenditure pattern estimated for U.S. colleges that was developed by the IMPLAN 2.0 modelers.

Institution-specific data on capital projects (construction) funded also were obtained from the Board of Regents. The expenditures were allocated to the year of reported funding, regardless of whether or not all of the funds were actually spent during that fiscal year. Therefore, the amounts for capital projects and their impacts are not included in the economic impacts expressed in Tables 1-3. However, they are reported in Appendix 2.

#### **Students' Personal Expenditures**

Students who attend an educational institution spend significant amounts of money in the local economy as a part of their living expenses. Since a detailed survey of students' spending habits at each institution was not practical, typical expenditure levels per student per semester were estimated based on data from several sources: (1) the 2001 Consumer Expenditure Survey conducted by the U.S. Bureau of Labor Statistics (BLS); (2) a special BLS study that appeared in the July 2001 issue of the Monthly Labor Review that examined the expenditures of college-age students and non-students; and (3) a sample of recent estimated costs of attendance prepared by individual institutions. Although the estimated costs of attendance prepared by individual institutions were not detailed enough to be used in the IMPLAN modeling system, they did provide information that was used to develop a profile of average expenditures for some of the items typically purchased by students.

The 2001 Consumer Expenditure Survey covers consumer units consisting of one person at various income levels, but no recent data are available specifically for college students; therefore, to adapt the data for this study, spending estimates for several categories of goods or

services were increased, decreased, or eliminated. For example, compared to a weighted average of consumer units at lower income levels, students' expenditures for books and food consumed away from home were increased substantially, while students' expenditures for groceries, cash contributions, insurance and pensions, and health care were reduced. Because expenditures for vacation and travel do not take place locally, such expenditures were eliminated entirely. Additionally, expenditures for tuition were eliminated because of possible double counting. Institutions receive payments from students for tuition, which in turn support the institutions' expenditures, which has already been estimated. After these adjustments, the average expenditure per student was estimated at \$3,360 for Summer 2003 Semester, at \$5,600 for Fall 2003 Semester, and at \$5,600 for Winter 2004 Semester.

The final step in estimating students' personal expenditures was to multiply the number of semesters of student spending by the average spending per semester. For FY 2004, these amounts are reported in the first column of Tables 1 and 2. The number of semesters of students' spending equals each institution's FTE enrollment as reported in the appropriate *Semester Enrollment Report* issued by the Board of Regents.

#### 4. Results

This section describes the economic benefits that the University System of Georgia's 34 institutions conveyed to their host communities in FY 2004. The estimates represent the economic impact of spending by an institution, its faculty and staff, and its students. Based on the methodology and available data described earlier, the IMPLAN modeling

Measured in the simplest and broadest possi

#### **Labor Income Impact**

Collectively, the 34 University System institutions generated a labor income impact of \$4.4 billion in FY 2004. The labor income recei\$4.lective0195.6(,)0stitu

#### 5. Limitations and Topics for Future Research

Because the goal of this study was to estimate the economic impact of all 34 institutions, certain necessary assumptions were designed to work well for the average institution, but may lead to an over- or under-estimate of the economic contribution that a specific institution makes to its host community. Detailed surveys of actual spending by students at various institutions could help to refine estimates of initial spending by students.

Due to both resource limitations and data limitations, several important types of short-term college or university-related expenditures were not estimated. For example, studies could be conducted to measure (1) spending by visitors to the institutions and (2) spending by each institution's retirees who still live in the host communities. Also, it would be worthwhile to investigate expenditures supported by the non-institutional income of each institution's employees. Such income may come from an employee's consulting, investments, and other personal business activities. Moreover, other members of an employee's household often supplement their total household income. Employees' household incomes also can be supplemented via inheritances or gifts. At least a portion of income derived from these sources would not come to the community that hosts the institution if that person's job at the college/university did not exist.

Since this study intentionally focused only on the short-term impacts of several types of college- or university-related spending, there was no attempt to evaluate the long-term impacts of the University System's institutions on the economic development of the host communities and the state. After all, colleges and universities not only spend money year by year, but also have long-term impacts on the labor force, local business and industry, and local government.

A college or university improves the skills of its graduates, thereby increasing their productivity and their lifetime earnings. Local businesses benefit from easy access to a large pool of part-time and full-time workers. Moreover, companies and agencies that depend on highly specialized skills often cluster around universities. This may be particularly true of high-tech and information-based companies, which, despite the recent recession and sub-par recovery, are still expected to account for a disproportionately high share of future economic growth.

Finally, the outreach and service units of the college or university provide valuable services to local businesses and households. Cultural and educational programs and facilities

often are available to the general public and provide intangible benefits to the host community by improving residents' quality of life.

#### 6. Summary

The fundamental finding of this study is that each of the University System of Georgia's 34 institutions creates substantial economic impacts in terms of output, value added, labor income, and employment. The combined economic impact of the University System's 34 institutions on their host communities in FY 2004 includes:

- \$9.7 billion in output (sales);
- \$5.9 billion in value added (gross regional product);
- \$4.4 billion in labor income; and
- 106,831 full- and part-time jobs.

These economic impacts were especially significant given the substandard performance of the national and state economies in FY 2004. Even in tough economic times, continued emphasis on higher education as an enduring pillar of the regional economy translates into more jobs, higher incomes, and greater production of goods and services for local households and businesses.

Figure 1

## Schematic Representation of Impact Relationships

Direct Expenditures

+

Indirect & Induced Impacts (Multiplier Effects)

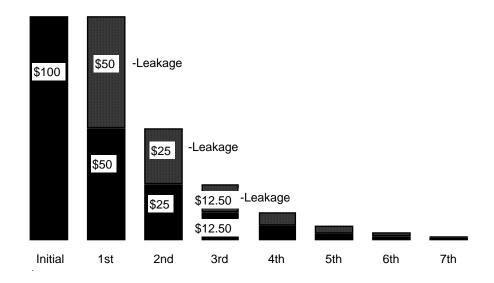
Total Direct Economic Impact



Total Economic Impact

Figure 2

# How Multipliers Capture the Impact of Respending Initial Impacts if the Output Multiplier Equals 2.0



Initial Direct or Indirect Impact: \$100

First Round of Respending: \$50 respent locally, \$50 leakage\* Second Round of Respending: \$25 respent locally, \$25 leakage Third Round of Respending: \$12.50 respent locally; \$12.50 leakage Fourth Round of Respending: \$6.25 respent locally; \$6.25 leakage Fifth Round of Respending: \$3.12 respent locally; \$3.12 leakage Sixth Round of Respending: \$1.56 respent locally; \$1.56 leakage Seventh Round of Respending: \$.78 respent locally; \$.78 leakage

Total Economic Impact: \$200 Total Leakage: \$100

<sup>\*</sup>Leakage indicates amounts spent outside area and not recirculated locally.

Table 1

Total Economic Impact of all 34 Institutions of the University System of Georgia on Their Regional Economies in the 2004 Fiscal Year

Total for All 34 Institutions	Initial Spending	Output Impact	Value Added Impact	Labor Income Impact	Employment
in 2004	(current dollars)	(current dollars)	(current dollars)	(current dollars)	(jobs)
System Total	6,359,472,602	9,676,857,493	5,906,070,256	4,364,678,229	106,831
Personal Services	2,373,591,927	4,724,188,936	3,386,292,035	2,939,000,643	58,058
Operating Expenses	1,437,922,115	1,858,802,663	661,816,492	429,631,390	11,241
Student Spending	2,547,958,560	3,093,865,894	1,857,961,728	996,046,195	37,532

#### Notes:

- The impacts of spending on Output, Value Added, Labor Income, and Employment were estimated using the IMPLAN Professional System, version 2.0, Type SAM multipliers, and production functions provided by MIG, Inc.
- Initial spending for personal services and operating expenses was obtained from the Board of Regents of the University System of Georgia. The author estimated initial spending by students.
- Output refers to the value of total production, including domestic and foreign trade. Value Added includes employee compensation, proprietary income, other property income, and indirect business taxes. Labor Income includes both the total payroll costs (including fringe benefits) of workers who are paid by employers and payments received by self-employed individuals. Employment includes both full-time and part-time jobs.
- Estimates for the Medical College of Georgia do not include impacts associated with the hospital and clinics operated by MCG Health Inc.

Source: Selig Center for Economic Growth, Terry College of Business, University of Georgia (www.selig.uga.edu), January 2005.

Table 2 (continued)

Total Economic Impact of University System of Georgia Institutions on Their Regional Economies in the 2004 Fiscal Year

Institution   Courrent dollars   Courrent dollars	la stitution	Initial Spending	Output Impact	Value Added Impact	Labor Income Impact	Employment Impact
Personal Services   30,540,605   59,399,183   42,077,199   36,864,158   762     Operating Expenses   13,952,688   17,276,105   5,462,059   3,443,868   118     Student Spending   62,391,760   74,046,999   43,366,459   22,966,911   1,021     Clayton College & State University   96,166,816   146,651,458   93,010,742   64,066,365   1,894     Personal Services   26,973,502   55,475,710   40,410,272   34,659,316   1,059     Operating Expenses   13,118,274   18,161,810   7,673,121   4,933,310   108     Student Spending   56,075,040   73,013,938   44,927,349   24,468,739   727     Columbus State University   125,215,287   174,301,022   103,861,512   72,809,998   2,014     Personal Services   35,818,780   69,169,512   49,983,496   42,993,653   774     Operating Expenses   19,105,307   22,935,964   63,386,825   42,362,288   143     Student Spending   70,291,200   82,195,545   48,491,191   25,580,057   1,097     Dalton State College   57,301,816   73,636,446   43,232,860   29,888,939   937     Personal Services   14,094,614   26,460,248   15,522,436   16,468,350   355     Student Spending   35,141,120   37,766,405   22,276,914   11,784,454   526     Fort Valley State University   84,289,252   123,724,609   71,338,318   53,685,499   1,347     Personal Services   30,907,320   32,442,924   18,947,373   10,027,210   446     Georgia College and State University   123,524,840   154,777,351   84,841,362   62,116,188   1,977     Personal Services   37,328,936   67,279,228   45,712,648   41,500,024   849     Operating Expenses   25,593,824   27,602,236   4,783,844   3,125,259   113     Student Spending   60,602,080   59,895,887   34,944,870   17,490,905   1,015     Georgia College and State University   51,260,746   67,457,547   38,006,717   28,132,262   846     Personal Services   17,308,981   31,718,818   21,629,578   19,467,566   391     Operating Expenses   17,308,981   31,718,818   21,629,578   19,467,566   391     Student Spending   24,840,480   25,724,797   14,574,490   7,458,090   404     Kennesaw State University   289,	<u>institution</u>	(current dollars)	(current dollars)	(current dollars)	(current dollars)	(1008)
Operating Expenses         13,952,688         17,276,105         5,462,059         3,443,868         118           Student Spending         62,381,760         74,046,999         43,368,459         22,968,911         1,021           Clayton College & State University         96,166,816         146,681,458         93,010,722         34,659,316         1,059           Personal Services         13,118,274         18,161,810         7,673,121         4,938,310         108           Operating Expenses         13,118,274         18,161,810         7,673,121         4,938,310         108           Student Spending         56,075,040         73,013,938         44,927,349         24,468,739         727           Columbus State University         125,215,287         174,301,022         103,861,512         72,809,998         2,014           Personal Services         35,818,780         69,169,512         48,983,496         42,993,653         774           Operating Expenses         19,105,307         22,935,964         6,386,825         4,236,288         143           Student Spending         70,291,200         82,195,545         48,491,191         25,580,057         1,097           Daiton State College         57,301,816         73,636,446         43,232,860         29	Augusta State University	106,875,053	150,722,286	90,907,717	63,276,937	1,901
Student Spending         62,381,760         74,046,999         43,368,459         22,968,911         1,021           Clayton College & State University         96,166,816         146,651,458         93,010,742         64,066,365         1,894           Personal Services         26,973,502         55,475,710         40,410,272         34,659,316         1,059           Operating Expenses         13,118,274         18,161,810         7,673,121         4,938,310         108           Student Spending         56,075,040         73,013,938         44,927,349         24,468,739         727           Columbus State University         125,215,287         174,301,022         103,861,512         72,809,998         2,014           Personal Services         35,818,780         69,169,512         48,983,496         42,993,653         774           Operating Expenses         19,105,307         22,935,964         6,386,825         4,236,288         143           Student Spending         70,291,200         82,195,545         48,491,191         25,580,057         1,097           Dalton State College         57,301,816         73,636,446         43,232,860         29,886,939         937           Personal Services         14,094,614         26,460,248         18,522,436         <	Personal Services	30,540,605	59,399,183	42,077,199	36,864,158	762
Student Spending         62,381,760         74,046,999         43,368,459         22,968,911         1,021           Clayton College & State University         96,166,816         146,651,458         93,010,742         64,066,365         1,894           Personal Services         26,973,502         55,475,710         40,410,272         34,659,316         1,059           Operating Expenses         13,118,274         18,161,810         7,673,121         4,938,310         108           Student Spending         56,075,040         73,013,938         44,927,349         24,468,739         727           Columbus State University         125,215,287         174,301,022         103,861,512         72,809,998         2,014           Personal Services         35,818,780         69,169,512         49,893,496         42,993,653         774           Operating Expenses         19,105,307         22,935,964         6,386,825         4,236,288         143           Student Spending         70,291,200         82,195,545         48,491,191         25,580,057         1,097           Daiton State College         57,301,816         73,636,446         43,232,860         29,886,939         937           Personal Services         1,094,614         26,460,248         18,522,436 <t< td=""><td>Operating Expenses</td><td></td><td></td><td></td><td></td><td>118</td></t<>	Operating Expenses					118
Personal Services         26,973,502         55,475,710         40,410,272         34,659,316         1,059           Operating Expenses         13,118,274         18,161,810         7,673,121         4,938,310         1,069           Student Spending         56,075,040         73,013,938         44,927,349         24,468,739         727           Columbus State University         125,215,287         174,301,022         103,861,512         72,809,998         2,014           Personal Services         35,818,780         69,169,512         48,983,496         42,993,653         774           Operating Expenses         19,105,307         22,935,964         6,386,825         4,236,288         143           Student Spending         70,291,200         82,195,545         48,491,191         25,580,057         1,097           Dalton State College         57,301,816         73,636,446         43,232,860         29,888,939         937           Personal Services         14,094,614         26,460,248         18,522,436         16,468,350         35           Operating Expenses         8,066,082         9,409,793         2,433,510         1,636,135         56           Student Spending         35,141,120         37,766,405         22,276,914         11,784,454	Student Spending	62,381,760	74,046,999	43,368,459	22,968,911	1,021
Personal Services         26,973,502         55,475,710         40,410,272         34,659,316         1,059           Operating Expenses         13,118,274         18,161,810         7,673,121         4,938,310         108           Student Spending         56,075,040         73,013,938         44,927,349         24,468,739         727           Columbus State University         125,215,287         174,301,022         103,861,512         72,809,998         2,014           Personal Services         35,818,780         69,169,512         48,983,496         42,993,653         774           Operating Expenses         19,105,307         22,935,964         6,386,825         4,236,288         143           Student Spending         70,291,200         82,195,545         48,491,191         25,580,057         1,097           Dalton State College         57,301,816         73,636,446         43,232,860         29,888,939         937           Personal Services         14,094,614         26,460,248         18,522,436         16,468,350         35           Operating Expenses         8,066,082         9,409,793         2,433,510         1,636,135         56           Student Spending         35,141,120         37,766,405         22,276,914         11,784,454	Clayton College & State University	96,166,816	146,651,458	93,010,742	64,066,365	1,894
Operating Expenses         13,118,274         18,161,810         7,673,121         4,938,310         108           Student Spending         56,075,040         73,013,938         44,927,349         24,468,739         727           Columbus State University         125,215,287         174,301,022         103,861,512         72,809,998         2,014           Personal Services         35,818,780         69,169,512         48,983,496         42,993,653         774           Operating Expenses         19,105,307         22,935,964         6,386,825         42,393,653         774           Student Spending         70,291,200         82,195,545         48,491,191         25,580,057         1,097           Dalton State College         57,301,816         73,636,446         43,232,860         29,888,939         937           Personal Services         14,094,614         26,460,248         18,522,436         16,468,350         355           Operating Expenses         8,066,082         9,409,793         2,433,510         1,636,135         56           Student Spending         35,141,120         37,766,405         22,276,914         11,784,454         526           Fort Valley State University         84,289,252         123,724,609         71,338,318         53,685,499 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>·</td>						·
Student Spending         56,075,040         73,013,938         44,927,349         24,468,739         727           Columbus State University         125,215,287         174,301,022         103,861,512         72,809,998         2,014           Personal Services         35,818,780         69,169,512         48,983,496         42,993,653         774           Operating Expenses         19,105,307         22,935,964         6,386,825         4,236,288         143           Student Spending         70,291,200         82,195,545         48,491,191         25,580,057         1,097           Dalton State College         57,301,816         73,636,446         43,232,860         29,888,939         937           Personal Services         14,094,614         26,460,248         18,522,436         16,468,350         355           Operating Expenses         8,066,082         9,409,793         2,433,510         1,636,135         56           Student Spending         35,141,120         37,766,405         22,276,914         11,784,454         526           Fort Valley State University         84,289,252         123,724,609         71,338,318         53,685,499         1,347           Personal Services         30,907,320         59,871,305         42,709,855         37,447,243				, ,		•
Personal Services         35,818,780         69,169,512         48,983,496         42,993,653         774           Operating Expenses         19,105,307         22,935,964         6,386,825         4,236,288         143           Student Spending         70,291,200         82,195,545         48,491,191         25,580,057         1,097           Dalton State College         57,301,816         73,636,446         43,232,860         29,888,939         937           Personal Services         14,094,614         26,460,248         18,522,436         16,468,350         355           Operating Expenses         8,066,082         9,409,793         2,433,510         1,636,135         56           Student Spending         35,141,120         37,766,405         22,276,914         11,784,454         526           Fort Valley State University         84,289,252         123,724,609         71,338,318         53,685,499         1,347           Personal Services         30,907,320         59,871,305         42,709,855         37,447,243         698           Operating Expenses         25,761,612         31,410,381         9,681,091         6,211,046         203           Student Spending         27,620,320         32,442,924         18,947,373         10,027,210		, ,				
Operating Expenses         19,105,307         22,935,964         6,386,825         4,236,288         143           Student Spending         70,291,200         82,195,545         48,491,191         25,580,057         1,097           Dalton State College         57,301,816         73,636,446         43,232,860         29,888,939         937           Personal Services         14,094,614         26,460,248         18,522,436         16,468,350         355           Operating Expenses         8,066,082         9,409,793         2,433,510         1,636,135         56           Student Spending         35,141,120         37,766,405         22,276,914         11,784,454         526           Fort Valley State University         84,289,252         123,724,609         71,338,318         53,685,499         1,347           Personal Services         30,907,320         59,871,305         42,709,855         37,447,243         698           Operating Expenses         25,761,612         31,410,381         9,681,091         6,211,046         203           Student Spending         27,620,320         32,442,924         18,947,373         10,027,210         446           Georgia College and State University         123,524,840         154,777,351         84,841,362         62,	Columbus State University	125,215,287	174,301,022	103,861,512	72,809,998	2,014
Student Spending         70,291,200         82,195,545         48,491,191         25,580,057         1,097           Dalton State College         57,301,816         73,636,446         43,232,860         29,888,939         937           Personal Services         14,094,614         26,460,248         18,522,436         16,468,350         355           Operating Expenses         8,066,082         9,409,793         2,433,510         1,636,135         56           Student Spending         35,141,120         37,766,405         22,276,914         11,784,454         526           Fort Valley State University         84,289,252         123,724,609         71,338,318         53,685,499         1,347           Personal Services         30,907,320         59,871,305         42,709,855         37,447,243         698           Operating Expenses         25,761,612         31,410,381         9,681,091         6,211,046         203           Student Spending         27,620,320         32,442,924         18,947,373         10,027,210         446           Georgia College and State University         123,524,840         154,777,351         84,841,362         62,116,188         1,977           Personal Services         37,328,936         67,279,228         45,712,648	Personal Services					774
Dalton State College         57,301,816         73,636,446         43,232,860         29,888,939         937           Personal Services         14,094,614         26,460,248         18,522,436         16,468,350         355           Operating Expenses         8,066,082         9,409,793         2,433,510         1,636,135         56           Student Spending         35,141,120         37,766,405         22,276,914         11,784,454         526           Fort Valley State University         84,289,252         123,724,609         71,338,318         53,685,499         1,347           Personal Services         30,907,320         59,871,305         42,709,855         37,447,243         698           Operating Expenses         25,761,612         31,410,381         9,681,091         6,211,046         203           Student Spending         27,620,320         32,442,924         18,947,373         10,027,210         446           Georgia College and State University         123,524,840         154,777,351         84,841,362         62,116,188         1,977           Personal Services         37,328,936         67,279,228         45,712,648         41,500,024         849           Operating Expenses         25,593,824         27,602,236         4,783,844         3			22,935,964	6,386,825	4,236,288	
Personal Services         14,094,614         26,460,248         18,522,436         16,468,350         355           Operating Expenses         8,066,082         9,409,793         2,433,510         1,636,135         56           Student Spending         35,141,120         37,766,405         22,276,914         11,784,454         526           Fort Valley State University         84,289,252         123,724,609         71,338,318         53,685,499         1,347           Personal Services         30,907,320         59,871,305         42,709,855         37,447,243         698           Operating Expenses         25,761,612         31,410,381         9,681,091         6,211,046         203           Student Spending         27,620,320         32,442,924         18,947,373         10,027,210         446           Georgia College and State University         123,524,840         154,777,351         84,841,362         62,116,188         1,977           Personal Services         37,328,936         67,279,228         45,712,648         41,500,024         849           Operating Expenses         25,593,824         27,602,236         4,783,844         3,125,259         113           Student Spending         60,602,080         59,895,887         34,344,870         17,490	Student Spending	70,291,200	82,195,545	48,491,191	25,580,057	1,097
Operating Expenses Student Spending         8,066,082 35,141,120         9,409,793 37,766,405         2,433,510 22,276,914         1,636,135 11,784,454         56 526           Fort Valley State University         84,289,252         123,724,609         71,338,318         53,685,499         1,347           Personal Services         30,907,320         59,871,305         42,709,855         37,447,243         698           Operating Expenses         25,761,612         31,410,381         9,681,091         6,211,046         203           Student Spending         27,620,320         32,442,924         18,947,373         10,027,210         446           Georgia College and State University         123,524,840         154,777,351         84,841,362         62,116,188         1,977           Personal Services         37,328,936         67,279,228         45,712,648         41,500,024         849           Operating Expenses         25,593,824         27,602,236         4,783,844         3,125,259         113           Student Spending         60,602,080         59,895,887         34,344,870         17,490,905         1,015           Georgia Southwestern State University         51,260,746         67,457,547         38,006,717         28,132,262         846           Personal Services         17	Dalton State College	57,301,816	73,636,446	43,232,860	29,888,939	937
Student Spending         35,141,120         37,766,405         22,276,914         11,784,454         526           Fort Valley State University         84,289,252         123,724,609         71,338,318         53,685,499         1,347           Personal Services         30,907,320         59,871,305         42,709,855         37,447,243         698           Operating Expenses         25,761,612         31,410,381         9,681,091         6,211,046         203           Student Spending         27,620,320         32,442,924         18,947,373         10,027,210         446           Georgia College and State University         123,524,840         154,777,351         84,841,362         62,116,188         1,977           Personal Services         37,328,936         67,279,228         45,712,648         41,500,024         849           Operating Expenses         25,593,824         27,602,236         4,783,844         3,125,259         113           Student Spending         60,602,080         59,895,887         34,344,870         17,490,905         1,015           Georgia Southwestern State University         51,260,746         67,457,547         38,006,717         28,132,262         846           Personal Services         17,308,981         31,718,818         21,629,5	Personal Services	14,094,614	26,460,248	18,522,436	16,468,350	355
Fort Valley State University   84,289,252   123,724,609   71,338,318   53,685,499   1,347     Personal Services   30,907,320   59,871,305   42,709,855   37,447,243   698     Operating Expenses   25,761,612   31,410,381   9,681,091   6,211,046   203     Student Spending   27,620,320   32,442,924   18,947,373   10,027,210   446     Georgia College and State University   123,524,840   154,777,351   84,841,362   62,116,188   1,977     Personal Services   37,328,936   67,279,228   45,712,648   41,500,024   849     Operating Expenses   25,593,824   27,602,236   4,783,844   3,125,259   113     Student Spending   60,602,080   59,895,887   34,344,870   17,490,905   1,015     Georgia Southwestern State University   51,260,746   67,457,547   38,006,717   28,132,262   846     Personal Services   17,308,981   31,718,818   21,629,578   19,467,566   391     Operating Expenses   9,111,285   10,013,932   1,802,649   1,206,606   51     Student Spending   24,840,480   25,724,797   14,574,490   7,458,090   404     Kennesaw State University   289,965,412   440,937,822   281,407,260   192,871,382   4,287     Personal Services   80,463,268   165,486,741   120,545,807   103,390,425   1,725     Operating Expenses   32,327,104   44,755,792   18,908,722   12,169,380   265     Student Spending   177,175,040   230,695,289   141,952,731   77,311,577   2,297	Operating Expenses	8,066,082	9,409,793	2,433,510	1,636,135	56
Personal Services         30,907,320         59,871,305         42,709,855         37,447,243         698           Operating Expenses         25,761,612         31,410,381         9,681,091         6,211,046         203           Student Spending         27,620,320         32,442,924         18,947,373         10,027,210         446           Georgia College and State University         123,524,840         154,777,351         84,841,362         62,116,188         1,977           Personal Services         37,328,936         67,279,228         45,712,648         41,500,024         849           Operating Expenses         25,593,824         27,602,236         4,783,844         3,125,259         113           Student Spending         60,602,080         59,895,887         34,344,870         17,490,905         1,015           Georgia Southwestern State University         51,260,746         67,457,547         38,006,717         28,132,262         846           Personal Services         17,308,981         31,718,818         21,629,578         19,467,566         391           Operating Expenses         9,111,285         10,013,932         1,802,649         1,206,606         51           Student Spending         24,840,480         25,724,797         14,574,490         <	Student Spending	35,141,120	37,766,405	22,276,914	11,784,454	526
Operating Expenses Student Spending         25,761,612 27,620,320         31,410,381 32,442,924         9,681,091 18,947,373         6,211,046 10,027,210         203 446           Georgia College and State University         123,524,840         154,777,351         84,841,362         62,116,188         1,977           Personal Services Operating Expenses Student Spending         37,328,936 67,279,228         45,712,648 47,83,844         41,500,024 3,125,259         849 41,500,024         849 41,500,024         849 41,500,024         849 41,500,024         849 41,500,024         849 849 849 849 849 849 849 849 849 849	Fort Valley State University	84,289,252	123,724,609	71,338,318	53,685,499	1,347
Student Spending         27,620,320         32,442,924         18,947,373         10,027,210         446           Georgia College and State University         123,524,840         154,777,351         84,841,362         62,116,188         1,977           Personal Services         37,328,936         67,279,228         45,712,648         41,500,024         849           Operating Expenses         25,593,824         27,602,236         4,783,844         3,125,259         113           Student Spending         60,602,080         59,895,887         34,344,870         17,490,905         1,015           Georgia Southwestern State University         51,260,746         67,457,547         38,006,717         28,132,262         846           Personal Services         17,308,981         31,718,818         21,629,578         19,467,566         391           Operating Expenses         9,111,285         10,013,932         1,802,649         1,206,606         51           Student Spending         24,840,480         25,724,797         14,574,490         7,458,090         404           Kennesaw State University         289,965,412         440,937,822         281,407,260         192,871,382         4,287           Personal Services         80,463,268         165,486,741         120,545,80		30,907,320	59,871,305		37,447,243	698
Georgia College and State University         123,524,840         154,777,351         84,841,362         62,116,188         1,977           Personal Services         37,328,936         67,279,228         45,712,648         41,500,024         849           Operating Expenses         25,593,824         27,602,236         4,783,844         3,125,259         113           Student Spending         60,602,080         59,895,887         34,344,870         17,490,905         1,015           Georgia Southwestern State University         51,260,746         67,457,547         38,006,717         28,132,262         846           Personal Services         17,308,981         31,718,818         21,629,578         19,467,566         391           Operating Expenses         9,111,285         10,013,932         1,802,649         1,206,606         51           Student Spending         24,840,480         25,724,797         14,574,490         7,458,090         404           Kennesaw State University         289,965,412         440,937,822         281,407,260         192,871,382         4,287           Personal Services         80,463,268         165,486,741         120,545,807         103,390,425         1,725           Operating Expenses         32,327,104         44,755,792         18,9						203
Personal Services         37,328,936         67,279,228         45,712,648         41,500,024         849           Operating Expenses         25,593,824         27,602,236         4,783,844         3,125,259         113           Student Spending         60,602,080         59,895,887         34,344,870         17,490,905         1,015           Georgia Southwestern State University         51,260,746         67,457,547         38,006,717         28,132,262         846           Personal Services         17,308,981         31,718,818         21,629,578         19,467,566         391           Operating Expenses         9,111,285         10,013,932         1,802,649         1,206,606         51           Student Spending         24,840,480         25,724,797         14,574,490         7,458,090         404           Kennesaw State University         289,965,412         440,937,822         281,407,260         192,871,382         4,287           Personal Services         80,463,268         165,486,741         120,545,807         103,390,425         1,725           Operating Expenses         32,327,104         44,755,792         18,908,722         12,169,380         265           Student Spending         177,175,040         230,695,289         141,952,731         <	Student Spending	27,620,320	32,442,924	18,947,373	10,027,210	446
Operating Expenses         25,593,824         27,602,236         4,783,844         3,125,259         113           Student Spending         60,602,080         59,895,887         34,344,870         17,490,905         1,015           Georgia Southwestern State University         51,260,746         67,457,547         38,006,717         28,132,262         846           Personal Services         17,308,981         31,718,818         21,629,578         19,467,566         391           Operating Expenses         9,111,285         10,013,932         1,802,649         1,206,606         51           Student Spending         24,840,480         25,724,797         14,574,490         7,458,090         404           Kennesaw State University         289,965,412         440,937,822         281,407,260         192,871,382         4,287           Personal Services         80,463,268         165,486,741         120,545,807         103,390,425         1,725           Operating Expenses         32,327,104         44,755,792         18,908,722         12,169,380         265           Student Spending         177,175,040         230,695,289         141,952,731         77,311,577         2,297	Georgia College and State University	y 123,524,840	154,777,351	84,841,362	62,116,188	1,977
Student Spending         60,602,080         59,895,887         34,344,870         17,490,905         1,015           Georgia Southwestern State University         51,260,746         67,457,547         38,006,717         28,132,262         846           Personal Services         17,308,981         31,718,818         21,629,578         19,467,566         391           Operating Expenses         9,111,285         10,013,932         1,802,649         1,206,606         51           Student Spending         24,840,480         25,724,797         14,574,490         7,458,090         404           Kennesaw State University         289,965,412         440,937,822         281,407,260         192,871,382         4,287           Personal Services         80,463,268         165,486,741         120,545,807         103,390,425         1,725           Operating Expenses         32,327,104         44,755,792         18,908,722         12,169,380         265           Student Spending         177,175,040         230,695,289         141,952,731         77,311,577         2,297	Personal Services	37,328,936	67,279,228	45,712,648	41,500,024	849
Georgia Southwestern State University         51,260,746         67,457,547         38,006,717         28,132,262         846           Personal Services         17,308,981         31,718,818         21,629,578         19,467,566         391           Operating Expenses         9,111,285         10,013,932         1,802,649         1,206,606         51           Student Spending         24,840,480         25,724,797         14,574,490         7,458,090         404           Kennesaw State University         289,965,412         440,937,822         281,407,260         192,871,382         4,287           Personal Services         80,463,268         165,486,741         120,545,807         103,390,425         1,725           Operating Expenses         32,327,104         44,755,792         18,908,722         12,169,380         265           Student Spending         177,175,040         230,695,289         141,952,731         77,311,577         2,297	Operating Expenses	25,593,824	27,602,236	4,783,844	3,125,259	113
Personal Services         17,308,981         31,718,818         21,629,578         19,467,566         391           Operating Expenses         9,111,285         10,013,932         1,802,649         1,206,606         51           Student Spending         24,840,480         25,724,797         14,574,490         7,458,090         404           Kennesaw State University         289,965,412         440,937,822         281,407,260         192,871,382         4,287           Personal Services         80,463,268         165,486,741         120,545,807         103,390,425         1,725           Operating Expenses         32,327,104         44,755,792         18,908,722         12,169,380         265           Student Spending         177,175,040         230,695,289         141,952,731         77,311,577         2,297	Student Spending	60,602,080	59,895,887	34,344,870	17,490,905	1,015
Operating Expenses         9,111,285         10,013,932         1,802,649         1,206,606         51           Student Spending         24,840,480         25,724,797         14,574,490         7,458,090         404           Kennesaw State University         289,965,412         440,937,822         281,407,260         192,871,382         4,287           Personal Services         80,463,268         165,486,741         120,545,807         103,390,425         1,725           Operating Expenses         32,327,104         44,755,792         18,908,722         12,169,380         265           Student Spending         177,175,040         230,695,289         141,952,731         77,311,577         2,297	Georgia Southwestern State University	sity 51,260,746	67,457,547	38,006,717	28,132,262	846
Student Spending         24,840,480         25,724,797         14,574,490         7,458,090         404           Kennesaw State University         289,965,412         440,937,822         281,407,260         192,871,382         4,287           Personal Services         80,463,268         165,486,741         120,545,807         103,390,425         1,725           Operating Expenses         32,327,104         44,755,792         18,908,722         12,169,380         265           Student Spending         177,175,040         230,695,289         141,952,731         77,311,577         2,297	Personal Services	17,308,981	31,718,818	21,629,578	19,467,566	391
Kennesaw State University         289,965,412         440,937,822         281,407,260         192,871,382         4,287           Personal Services         80,463,268         165,486,741         120,545,807         103,390,425         1,725           Operating Expenses         32,327,104         44,755,792         18,908,722         12,169,380         265           Student Spending         177,175,040         230,695,289         141,952,731         77,311,577         2,297	Operating Expenses	9,111,285	10,013,932	1,802,649	1,206,606	51
Personal Services         80,463,268         165,486,741         120,545,807         103,390,425         1,725           Operating Expenses         32,327,104         44,755,792         18,908,722         12,169,380         265           Student Spending         177,175,040         230,695,289         141,952,731         77,311,577         2,297	Student Spending	24,840,480	25,724,797	14,574,490	7,458,090	404
Operating Expenses         32,327,104         44,755,792         18,908,722         12,169,380         265           Student Spending         177,175,040         230,695,289         141,952,731         77,311,577         2,297						4,287
Student Spending 177,175,040 230,695,289 141,952,731 77,311,577 2,297						
						265
Macon State College 82,208,825 112,034,568 65,761,243 44,889,777 1,487	Student Spending	177,175,040	230,695,289	141,952,731	77,311,577	2,297
	Macon State College	82,208,825	112,034,568	65,761,243	44,889,777	1,487

#### Table 2 (continued)

Total Economic Impact of University System of Georgia Institutions on Their Regional Economies in the 2004 Fiscal Year

Table 2 (continued)

Total Economic Impact of University System of Georgia Institutions on Their Regional Economies in the 2004 Fiscal Year

<u>Institution</u>	Initial Spending (current dollars)	Output Impact (current dollars)	Value Added Impact (current dollars)	Labor Income Impact (current dollars)	Employment Impact (jobs)
Darton College	61,129,841	82,252,056	47,719,480	32,676,702	1,081
Personal Services	14,373,330	27,556,181	19,428,566	17,146,075	397
Operating Expenses	10,028,351	12,126,530	3,502,646	2,280,298	77
Student Spending	36,728,160	42,569,345	24,788,268	13,250,329	607
East Georgia College	22,346,029	27,803,211	15,159,858	10,376,604	441
Personal Services	4,827,272	8,989,332	6,203,395	5,553,924	152
Operating Expenses	4,107,877	4,715,856	1,069,637	715,759	30
Student Spending	13,410,880	14,098,023	7,886,826	4,106,920	259
Floyd College	49,365,461	65,265,543	38,708,261	26,306,362	869
Personal Services	12,392,667	23,710,843	16,657,786	14,690,090	313
Operating Expenses	5,812,154	6,981,835	2,045,888	1,272,684	43
Student Spending	31,160,640	34,572,865	20,004,587	10,343,587	513
Gainesville College	73,229,945	103,268,391	63,858,615	41,987,928	1,132
Personal Services	15,827,262	31,425,510	22,498,015	19,473,467	381
Operating Expenses	6,848,123	8,903,831	3,197,187	2,109,692	53
Student Spending	50,554,560	62,939,050	38,163,414	20,404,769	698
Georgia Perimeter College	288,070,689	428,511,049	269,161,283	180,046,524	5,159
Personal Services	66,693,551	137,166,917	99,916,747	85,697,172	2,468
Operating Expenses	37,557,138	51,996,596	21,967,864	14,138,200	308
Student Spending	183,820,000	239,347,536	147,276,672	80,211,152	2,383
Gordon College	51,904,913	76,160,300	47,165,157	31,071,312	782
Personal Services	10,490,615	21,575,779	15,716,484	13,479,805	283
Operating Expenses	8,010,298	11,089,989	4,685,372	3,015,437	66
Student Spending	33,404,000	43,494,532	26,763,301	14,576,070	433
Middle Georgia College	42,731,233	52,761,063	29,451,660	20,638,026	763
Personal Services	10,489,499	19,412,469	13,383,153	12,033,896	299
Operating Expenses	7,041,734	7,823,141	1,524,230	1,054,744	43
Student Spending	25,200,000	25,525,453	14,544,276	7,549,386	421

(continued)

#### Table 2 (continued)

Total Economic Impact of University System of Georgia Institutions on Their Regional Economies in the 2004 Fiscal Year

	Initial	Output	Value Added	Labor Income	Employment
	Spending	Impact	Impact	Impact	Impact
<u>Institution</u>					

 Table 3

 On-Campus and Off-Campus Jobs that Exist Due to Institution-Related Spending in the 2004 Fiscal Year

<u>Institution</u>	Total Employment Impact	On-Campus <u>Jobs</u>	Off-Campus Jobs that Exist Due to Institution-Related Spending
System Total	106,831	40,224	66,607
Research Universities and Regional	Universities		
Georgia Institute of Technology Georgia State University Medical College of Georgia University of Georgia Georgia Southern University Valdosta State University State Universities and State Colleges	13,888 10,233 8,830 22,458 6,252 3,635	5,487 3,644 4,657 10,145 1,779 1,151	8,401 6,589 4,173 12,313 4,473 2,484
_			
Albany State University Armstrong Atlantic State University Augusta State University Clayton College & State University Columbus State University Dalton State College Fort Valley State University Georgia College and State University Georgia Southwestern State University Kennesaw State University Macon State College North Georgia College & State Univ. Savannah State University Southern Polytechnic State Univ. State University of West Georgia	1,676 2,167 1,901 1,894 2,014 937 1,347 1,977 846 4,287 1,487 1,778 1,148 1,172 3,025	584 751 515 852 499 264 453 658 290 1,108 416 785 428 434 922	1,092 1,416 1,386 1,042 1,515 673 894 1,319 556 3,179 1,071 993 720 738 2,103
Associate Degree Colleges			
Abraham Baldwin Agric. College Atlanta Metropolitan College Bainbridge College Coastal Georgia Community College Darton College East Georgia College Floyd College Gainesville College Georgia Perimeter College Gordon College Middle Georgia College South Georgia College Waycross College	976 606 592 732 1,081 441 869 1,132 5,159 782 763 465 283	272 249 153 201 289 117 220 269 1,957 203 227 158 88	704 357 439 531 792 324 649 863 3,202 579 536 307 195

#### Notes:

- Employment includes both full-time and part-time jobs.
- Estimates for the Medical College of Georgia do not include impacts associated with the hospital and clinics operated by MCG Health Inc.

Source: Selig Center for Economic Growth, Terry College of Business, University of Georgia (www.selig.uga.edu), January 2005.

#### Appendix 1

Appendix 2

### Total Economic Impact of Capital Projects of University System of Georgia Institutions on Their Regional Economies in the 2004 Fiscal Year

<u>Institution</u>	Initial Spending (current dollars)	Output Impact (current dollars)	Value Added Impact (current dollars)	Labor Income Impact (current dollars)	Employment Impact (jobs)
System Total	51,725,000	76,812,399	35,092,272	30,029,268	984
Research Universities and Region	onal Universities				
Georgia Institute of Technology Georgia State University	0 3,500,000	0 6,740,710	0 3,562,366	0 3,027,814	0 68
Medical College of Georgia University of Georgia	8,600,000 2,500,00	14,263,856	6,472,488	5,609,565	182

ICAPP® Intellectual Capital Partnership Program®
The Economic Development Program of the University System of Georgia
270 Washington Street S.W.
Atlanta, Georgia 30334
Office 404-656-2275 / Fax 404-657-1489
www.icapp.org