FACT SHEET

Demonstrating the Economic Value of the University of North Carolina at Charlotte to the UNC Charlotte Service Region and the state of North Carolina

JANUARY 2015

The University of North Carolina at Charlotte (UNC Charlotte) improves higher education delivery throughout the region and helps students increase their employability and potential. By facilitating new research and entrepreneurship and drawing students and visitors to the UNC Charlotte Service Region, the university also generates new dollars and opportunities for the region. The purpose of this analysis is to assess the impact of UNC Charlotte on the regional economy, defined as the counties of Anson, Cabarrus, Catawba, Cleveland, Gaston, Iredell, Lincoln, Mecklenburg, Union, Rowan, and Stanly. The analysis also looks at the benefits generated for students, North Carolina as a whole, and taxpayers.

Our analysis shows that in FY 2012-13, the \$488.7 million in payroll and operations spending of UNC Charlotte, together with its construction spending and the spending of its students, visitors, alumni, and start-up companies, created **\$2.1 BILLION** in added regional income. This is equal to approximately **1.7%** of the total Gross Regional Product of the UNC Charlotte Service Region, and is equivalent to creating **31,555** new jobs.

IMPACT ON THE REGIONAL BUSINESS COMMUNITY

During the analysis year, FY 2012-13, UNC Charlotte spent **\$291.6 MILLION** on payroll and benefits for **4,971** full-time and part-time employees, and spent another **\$197.1 MILLION** on goods and services to carry out its day-to-day operations and research. This initial round of spending creates more spending across other businesses throughout the regional economy, resulting in the commonly referred to multiplier effects. We estimate these multiplier effects in this study and report the *additional* economic activity that is created by the initial spending of UNC Charlotte.* Impacts are reported in terms of total income, which is analogous to Gross Regional Product, and the corresponding number of jobs created.

* Note: Our estimated economic impacts are conservative in that we directly take into account the fact that state and local dollars spent on the university could have been spent elsewhere in North Carolina if not directed toward UNC Charlotte, and thus would have created some economic impacts regardless. We account for these alternative uses of funds directly in our analysis by (i) assuming that if funds were not directed to UNC Charlotte, they would have been returned to the taxpayer and generate economic impacts through household spending on goods and services, and (ii) subtracting the estimated economic impacts generated by this alternative use of funds from the estimated economic impacts of UNC Charlotte. Thus, we report a net impact of UNC Charlotte that is above and beyond what would have occurred had the funds been returned to the taxpayer.

INTELLECTUAL PROPERTY CREATED BY UNC CHARLOTTE

	INVENTIONS	PATENT APPLICATIONS	LICENSES
2009-10	37	55	6
2010-11	53	54	7
2011-12	41	63	20
2012-13	31	68	18
TOTAL	162	240	51

IMPACT OF SPIN-OFF COMPANIES

Spin-off companies include those that were created and fostered through programs at UNC Charlotte that support entrepreneurial business development, as well as companies that were created by faculty, students, or alumni from their work at UNC Charlotte. The collective impact of spin-off companies related to UNC Charlotte in FY 2012-13 was \$40.4 million in added regional income, equivalent to 635 new jobs. These impacts are important because they comprise a significant part of the region's business environment. The connection between UNC Charlotte and its related spin-off companies is less direct than with start-up companies licensing technology of UNC Charlotte. For this reason, the impact of business spin-offs related to UNC Charlotte are presented separately for the university in this analysis.

These economic impacts break down as follows:

Operations spending impact

Payroll and non-pay expenditures to support day-to-day operations (less research) of UNC Charlotte amounted to \$280.4
 MILLION and \$183.5 MILLION, respectively. The net impact of the university's operations spending in the UNC Charlotte Service Region during the analysis year was approximately \$421.1 MILLION in added regional income, which is equivalent to creating 6,300 jobs.

Research spending impact

- Research activities of UNC Charlotte impact the regional economy by employing people and making purchases for equipment, supplies, and services. They also facilitate new knowledge creation throughout the UNC Charlotte Service Region through inventions, patent applications, and licenses. In FY 2012-13, UNC Charlotte spent \$11.2 MILLION on payroll to support research activities.
- Research spending of UNC Charlotte generates \$26.1 MILLION
 in added regional income for the UNC Charlotte Service Region
 economy, which is equivalent to creating 373 new jobs.

Construction spending impact

- UNC Charlotte built or renovated a number of its facilities during the analysis year. This spending generated a short-term infusion of income and jobs in the regional economy.
- The net impact of the university's construction spending in FY 2012-13 was **\$55.8 MILLION** in added regional income, equivalent to **1,232** new jobs.

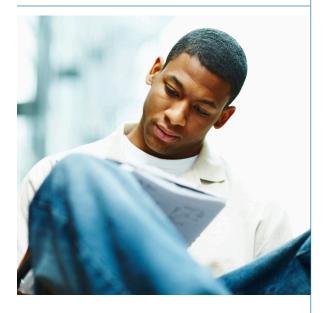
Business start-up impact

UNC Charlotte creates an exceptional environment that fosters innovation and entrepreneurship, evidenced by the number of start-up companies related to UNC Charlotte in the region. In FY 2012-13, start-up companies related to the university created \$51.3 MILLION in added regional income for the UNC Charlotte Service Region economy, which is equivalent to creating 401 jobs.



IMPACTS CREATED BY UNC CHARLOTTE IN FY 2012-13

INCOME	JOBS	
\$421.1 MILLION	6,300	
Operations spending impact		
\$26.1 MILLION	373	
Research spending impact		
\$55.8 MILLION	1,232	
Construction spending impact		
\$51.3 MILLION	401	
Business start-up impact		
\$69.4 MILLION	1,030	
Student spending impact		
\$38.3 MILLION	906	
Visitor spending impact		
\$1.4 BILLION	21,313	
Alumni impact		
\$2.1 BILLION	31,555	
Total impact		



Student spending impact

- Around 32% of graduate and undergraduate students attending UNC Charlotte originated from outside the region.
 Some of these students relocated to the UNC Charlotte Service Region and spent money on groceries, transportation, rent, and so on at UNC Charlotte Service Region businesses.
- The expenditures of students who relocated to the region during the analysis year added approximately \$69.4
 MILLION in regional income for the UNC Charlotte Service Region economy, which is equivalent to creating 1,030 new jobs.

Visitor spending impact

- Out-of-region visitors attracted to the UNC Charlotte Service Region for activities at UNC Charlotte brought new dollars to the economy through their spending at hotels, restaurants, gas stations, and other regional businesses.
- Visitor spending added approximately \$38.3 MILLION
 in regional income for the UNC Charlotte Service Region
 economy, which is equivalent to creating 906 new jobs.

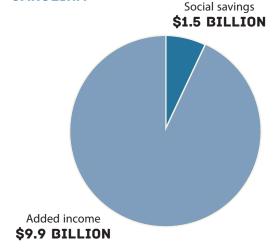
Alumni impact

- Over the years, students gained new skills, making them more productive workers, by studying at UNC Charlotte.
 Today, thousands of these former students are employed in the UNC Charlotte Service Region.
- The accumulated contribution of former UNC Charlotte students currently employed in the UNC Charlotte Service Region workforce amounted to \$1.4 BILLION in added regional income to the UNC Charlotte Service Region economy, which is equivalent to creating 21,313 new jobs.

FOR EVERY \$1 SPENT BY...

STUDENTS	\$3.10 Gained in lifetime income for STUDENTS
SOCIETY	\$12.10 Gained in added state income and social savings for SOCIETY
TAXPAYERS	\$5.40 Gained in added taxes and public sector savings for TAXPAYERS

PRESENT VALUE OF ADDED INCOME AND SOCIAL SAVINGS IN NORTH CAROLINA



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RETURN ON INVESTMENT TO STUDENTS, SOCIETY, AND TAXPAYERS

Student perspective

- Students attending UNC Charlotte during FY 2012-13 paid a
 total of \$186.5 MILLION to cover the cost of tuition, fees,
 books, and supplies. They also forwent \$433.1 MILLION in
 money that they would have earned had they been working
 instead of learning.
- In return for the money students invest to earn their degrees, they will receive a present value of **\$1.9 BILLION** in estimated increased earnings over their working lives.
- This translates to a return of **\$3.10** in higher future income for every \$1 that students invest in their UNC Charlotte education. The average annual return for students is **13.3%**.

Societal perspective

- North Carolina as a whole will receive a present value of \$9.9 BILLION in added state income over the course of the students' working lives. Communities will also benefit from \$1.5 BILLION in present value social savings related to reduced crime, lower unemployment, and increased health and well-being across the state.
- For every dollar that society spent on educations at UNC Charlotte during the analysis year, North Carolina communities will receive a cumulative value of \$12.10 in benefits, for as long as the 2012-13 students of UNC Charlotte remain active in the state workforce.

Taxpayer perspective

- In FY 2012-13, state and local taxpayers in North Carolina invested \$225.7 MILLION to support the operations of UNC Charlotte. The net present value of the added tax revenue stemming from the students' higher lifetime incomes and the increased output of businesses amounts to \$959.9 MILLION in benefits to taxpayers. Savings to the public sector add another \$264.8 MILLION in benefits due to a reduced demand for government-funded services in North Carolina.
- Dividing benefits to taxpayers by the associated costs yields a **5.4** benefit-cost ratio, i.e., every \$1 in costs returns \$5.40 in benefits. The average annual return on investment for taxpayers is **14.8%**.

