This report was produced for Universities UK by Ursula Kelly, Iain McNicoll and James White of Viewforth Consulting Ltd.
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INTRODUCTION

This study provides an analysis of the economic impact of Ulster University and its students on the Northern Ireland economy. With over 26,000 students, Ulster University is Northern Ireland’s largest university in terms of student numbers. With its headquarters based at the Coleraine Campus, it has three more campuses in Northern Ireland: the Magee Campus, Jordanstown Campus and Belfast Campus. It also has two additional branch campuses in London and Birmingham. The university has a broad based portfolio of teaching and research across six faculties including art; art, design and the built environment; computing and engineering; life and health sciences; social sciences and the Ulster Business School.

This report’s primary aim is to assess the economic impact of the university as a business generating economic activity and contributing to Northern Ireland in terms of the jobs, output and ‘Gross Value Added’ (GVA) generated in a ‘snapshot year’. The report presents key economic aspects of Ulster University in the academic and financial year ending 2012–13 and its impact on Northern Ireland and on the rest of the UK. 2012–13 was the most recent year for which the relevant Higher Education Statistics Agency (HESA) data was available.

Major economic characteristics of the university are examined, including its revenue, expenditure and employment. The study also includes modelled analysis of the economic activity generated in other sectors of the economy through the secondary or ‘knock-on’ effects of the expenditure of the university and its students.

This analysis used a two-stage approach to the estimation of the economic impact of the university. Firstly, the impact of the university on the UK was modelled, using a purpose-designed economic model of the UK. Analysis was then undertaken, using a Location Quotient approach, to estimate the share of institutional impact likely to have accrued to Northern Ireland.

The model used was a ‘Type II’ input-output model based on data derived from the UK Input-Output tables and related Office for National Statistics data. The model had been specifically designed to analyse higher education impact and was updated in 2013 to undertake a UK-wide study of higher education for Universities UK along with studies of the nine regions of England. This modelling system and analysis framework has also been used for a study of higher education in Wales as well as studies of individual institutions. Institutional income and expenditure data was sourced from HESA and student expenditure data from surveys undertaken for the UK Department for Business, Innovation and Skills (BIS). Further details of data sources and methodology are available in Annexe A.

CHAPTER 1
KEY UNIVERSITY CHARACTERISTICS

1.1 Revenue
The university had a total income of £191.7 million in 2012–13. This was earned for a wide range of educational and related services.

As Figure 1 illustrates, the largest part of institutional revenue (89.9%) was earned for the delivery of teaching and research (funding council grants, tuition fees and research grants and contracts). This came from a range of sources and included individual student fee payments and research contracts with private and international clients as well as money from public sources. In addition to money for teaching and research the university also earned 9.5% of its income from other services, including, for example, consultancy services, the provision of residence and catering, conference support and facilities hire. Income from endowments and investments (frequently these come from charitable or philanthropic donations) stand at 0.7%. While this appears relatively modest, it is rare for any UK university to have endowment income exceeding 1% of total income.

Around 59% of university revenue in the study year was estimated as being derived from public sector sources. However, only around 44% of this was the baseline support from the higher education funding body [the Department for Employment and Learning (DEL)]. ‘Other’ public sector income made up an estimated 15% of total university income. This includes tuition fees paid by public sector bodies, eg for some types of postgraduate training as well as research and consultancy contracts with public sector bodies including the UK research councils or contracts won in competition against private firms. Thirty-four per cent of university income came from the UK private sector and 7% from international sources. Private income includes student fee payments [whether made by directly by individuals, by industrial sponsors or through loans from the Student Loans Company]. It also includes payments for other services such as residence and catering, consultancy or contract research for private firms. International income [estimated as amounting to around £14 million] includes international (ie both non-EU and rest of EU) student fees as well as residence and conference income and research and consultancy for international clients.

1.2 Export earnings
The university’s international revenue of £14 million, together with the estimated off-campus expenditure of international students (£47.8 million), represents a total of £61.8 million of export earnings, contributing to the UK balance of trade.

3. In this analysis, based on HESA HE Finance Plus information, tuition fees paid through the Student Loans Company are classed as ‘private’ as the payments are made on behalf of specific private individuals who are then responsible for repayment to the SLC.
1.3 Employment

The university directly provided 2,573 full-time equivalent (FTE) jobs across a wide range of occupations. The occupational profile of university employment is shown in Figure 3. Unsurprisingly, academic professions [professors, lecturers and researchers] are the largest single type of occupation. However, there are also a range of other skilled and semi-skilled jobs. This reflects the need to maintain significant university estates over a number of different sites, including lecture halls, laboratories and offices as well as halls of residence, cafeteria and related facilities for students such as sports facilities.

1.4 Expenditure

University expenditure, together with the expenditure of university staff and students, generates economic activity through secondary or ‘knock-on’ effects. In 2012–13 HESA data shows total expenditure of Ulster University [including staff salaries] of £180.5 million.

1.5 Student profile

Ulster University had a total (headcount) student population in 2012–13 of 26,465.
The university attracted 4,140 international students – 2,195 from other parts of the EU and 1,945 from the rest of the world. As well as paying fees to the university, international students spend money on rent, food and other living expenses, much of which accrues to the local area. International student off-campus expenditure amounted to an estimated £47.8 million in 2012–13.

In addition, the university attracted 1,045 students from other parts of the UK, who spent an estimated £13.4 million on living and personal expenses. The expenditure of students from the rest of the UK can be regarded as a financial injection into Northern Ireland.4

The university also enrolled 21,280 local students, ie those from Northern Ireland itself. While the expenditure of Northern Ireland students is not additional to the region, being able to secure a place at Ulster University arguably meant that these students stayed in Northern Ireland rather than going further afield to study. In this case the university could be regarded as instrumental in helping to retain these students and their expenditure within the region. Northern Ireland students spent an estimated £273.2 million and this too generated jobs and output in Northern Ireland.

4. In the last two years the university has established branch campus operations in London and Birmingham. To the extent that there are students based wholly in London or Birmingham, their personal expenditure would not accrue to Northern Ireland but rather to the rest of the UK. However, it was not possible within the parameters and resources of this study to disaggregate HESA data to identify student campus base and match this to student original domicile. At present the numbers involved (from information available on the university website) appear to potentially represent the equivalent of around 3% of the Ulster student population. However, the numbers do not clearly map to the official HESA data and in the absence of detailed information on this new group we have assumed that all students included in HESA data are primarily based in Northern Ireland. The effect remains small in the overall context of the university’s impact. If all the students from the rest of the UK were wholly based in Birmingham or London, the effect on total university Northern Ireland impact would be to reduce it by about 1.8%.
CHAPTER 2
SECONDARY OR ‘KNOCK-ON’ EFFECTS ON THE ECONOMY

2.1 Generation of ‘knock-on’ effects

Universities generate economic impact through their expenditure. Known as ‘knock-on’ effects, this impact is chiefly recognised as occurring in two ways:

• Indirect: through the universities buying goods and services from a wide range of suppliers (from books and stationery to legal services, laboratory equipment to catering supplies); the suppliers also have to make purchases in order to fulfil the university orders and their suppliers in turn make other purchases and so on, rippling through the economy

• Induced: through the universities paying wages to their employees, who in turn spend their salaries on housing, food and other consumer goods and services; this creates income for employees in other businesses and sectors, who also spend their income and so on

Previous studies of universities in the UK have shown that universities have a relatively high propensity to spend on UK, rather than imported, goods and services, generating greater local economic impact than businesses that rely more heavily on imports.5

Staff expenditure tends to follow a different pattern from institutional expenditure, being more consumer oriented. But while staff expenditure will have a higher proportion of expenditure on imported consumer goods and goods from elsewhere in the UK (eg through online shopping), there is still an observable reliance on local goods and services – such as cafes, pubs, restaurants, fast food outlets, taxi services or personal services such as hairdressing. This ‘snapshot’ analysis of the impact of expenditure will reflect the composition of those linkages.

In this particular study, the impact of Ulster University expenditure on the UK as a whole was modelled and then analysis made of the proportion of that impact accruing to Northern Ireland. This took into account the business and industry structure of the region as well as consideration of purchases that are most likely to be more locally based.

2.2 Output generated by the institution

The university’s output in 2012-13 was £191.7 million.6 Through the ‘knock-on’ effects of its expenditure in that year, the university generated an additional £247.4 million in other industries throughout the UK, with the majority (£163.1 million) accruing to Northern Ireland businesses.

Figure 6: Total output generated by Ulster University, 2012–13

The impact was spread across a range of other industries, with an emphasis on manufacturing, wholesale and retail, and business activities. The spread of impact is determined by the types of goods and services bought by the universities and their staff – as well as from whom they are bought. A university may buy laboratory equipment direct from a manufacturer, for instance, or through a wholesaler. They may purchase legal services from a local firm of solicitors. University staff expenditure tends to be more oriented towards consumer goods and services, many of these from local companies and shops. Figure 7 shows the pattern of output impact across industries.

6. Institutional revenue or ‘turnover’ equates to institutional output.
Secondary or ‘knock-on’ effects on the economy

2.3 Output multipliers

The impact is generated by university expenditure. By studying the volume of impact generated, it is possible to calculate ‘multipliers’. Analysis of the output impact enabled Type II output multipliers for Ulster University to be derived. These were:

- UK: 2.29
- Northern Ireland: 1.85

In other words, every £1 million of university output will generate a further secondary output impact of £1.29 million in the UK, with £0.85 million of this being in Northern Ireland.

2.4 Employment generated by the university

In addition to directly providing 2,573 full-time equivalent (FTE) jobs, university expenditure generated additional jobs in other parts of the economy. 2,467 more FTE jobs were generated outside the university. The majority of the additional jobs were generated in Northern Ireland itself (1,887 FTE jobs), with 580 jobs in the rest of the UK.

Total employment generated by the university (direct plus secondary) therefore came to 5,040 FTE jobs, 4,460 of which were in Northern Ireland.

Figure 7: Secondary output generated by Ulster University, 2012–13

![Figure 7: Secondary output generated by Ulster University, 2012–13](image)

Source: Viewforth Consulting modelling system analysis

Figure 8: Employment generated by Ulster University, 2012–13

![Figure 8: Employment generated by Ulster University, 2012–13](image)

Source: Viewforth Consulting modelling system analysis

Figure 9 shows the other industries within which the additional jobs would be generated. This pattern of employment generated has a particular emphasis on the wholesale and retail trade, business activities and public administration. This is because of a combination of two major factors: that the university had a relatively high output impact in these areas and also that these industries tend to be relatively labour intensive.
2.5 Employment multipliers

As with the analysis of output impact, it is possible to calculate ‘multiplier’ values. The Type II employment multipliers derived for Ulster University were observed to be:

- **UK:** 1.96
- **Northern Ireland:** 1.73

In other words, for every 100 direct full-time equivalent (FTE) jobs created in the university itself, another 96 jobs would be generated outside the university in other UK industries, 73 of which would be in Northern Ireland.

The total UK employment impact of £1 million received by the university is 26.29 FTE jobs. Every £1 million of Ulster University output creates:

- 13.42 FTE jobs directly in the university
- 9.84 FTE jobs elsewhere in Northern Ireland
- 3.03 FTE jobs elsewhere in the UK

Figure 3 showed how the university’s employment profile covers the full range of skill levels.

By translating the institutional employment profile into Standard Occupational Classifications it is possible to compare the profile of higher education employment with that generated outside the university. Figure 10 compares the university occupational profile with that of the employment created outside the university in the rest of Northern Ireland and in the rest of the UK.

As Figure 10 illustrates, university employment is relatively specialised in high skilled ‘white collar’ jobs compared to jobs in the rest of the economy. This might be expected from the knowledge intensive nature of university activity. The relatively fewer ‘managerial’ occupations in universities compared to the jobs generated in the rest of the economy will tend to be more of a reflection of how universities classify their own staff, with many academics (who are classed as professional occupations, rather than managers) undertaking managerial roles. It can also be noted that the university has a slightly higher proportion of ‘elementary occupations’ compared to the jobs generated elsewhere. This includes occupations such as cleaning staff and security wardens and again reflects the university’s large estate across a number of different sites.

---

7. The economic model used is based on SIC 2003 descriptors, which at a 1 digit level are not significantly different from SIC 2007. Hence the industry descriptors used here are SIC 2003.
Secondary or ‘knock-on’ effects on the economy

2.6 GVA generated by the university

The importance of the university to the regional economy can be seen by its generation of significant levels of gross output and employment. However, another key measure of the university’s contribution to the economy is the ‘Gross Value Added’ (GVA) generated. GVA is a measure of the value created by the sector; it is the industry-level measure of GDP (O). GDP (O) is a production measure of the net change in wealth or prosperity in the economy as a whole over the year. The university’s direct GVA amounted to £137 million and through secondary or ‘knock-on’ effects it generated a further £122 million of GVA in other industries across the UK (£81 million of GVA was related to Northern Ireland industries).

2.7 GVA multipliers

The university GVA multipliers derived from the modelling process were calculated as:

- UK: 1.89
- NI: 1.59

![Figure 10: Comparison of the occupational profile of the employment generated, 2012–13](image)

Source: Viewforth Consulting modelling system analysis

![Figure 11: Secondary GVA generated by Ulster University, 2012–13](image)

Source: Viewforth Consulting modelling system analysis
CHAPTER 3
THE ADDITIONAL ECONOMIC IMPACT OF STUDENTS

3.1 Student expenditure

In 2012–13 the university had a total (headcount) student population of 26,465. The vast majority of students (81%) came from Northern Ireland, with 4% from the rest of the UK, 8% from the rest of the EU and 7% from the rest of the world.

Student expenditure is also important to the economy. Student expenditure contributes to the economy in two main ways:

Firstly students pay money to the universities for their fees, accommodation (where applicable) and other ancillaries (canteen/on-campus catering etc). The universities then respend the money and the impact of these payments by students is captured within the analysis of university impact.

Secondly, students also spend money on a wide range of goods and services off campus. The private rented sector benefits from students’ need for accommodation, local supermarkets sell food and drink and local pubs and clubs frequently rely heavily on student trade. Even a casual observer will note that around any university or there is a proliferation of cafes, snack bars, pubs and ‘fashionable’ shops that seem to draw a large proportion of their business from students. These are very tangible positive economic consequences of a student presence in the city.

The on-campus expenditure (for fees or university residence) is included in the university impact. To analyse off-campus student expenditure we drew on a number of student expenditure surveys and university guidance on finance and living expenses to make estimates of overall student expenditure for different types of student (non-EU, rest of EU, rest of UK etc). We also took into account the (relatively limited) supply of university-owned student accommodation to fine-tune estimates of overall living expenditure that may have been paid to the university rather than spent off campus. We then incorporated student expenditure estimates into the model. The impact of four groups of students was separately modelled. These were:

a. Students from non-EU countries studying at Ulster University
b. Students from the rest of the EU studying at Ulster University
c. Students from the rest of the UK studying at Ulster University
d. Northern Ireland students studying at Ulster University

The groups are modelled separately as there can be different policy implications relating to each group. Expenditure by international students (both non-EU and rest of EU students) represents export earnings. They are modelled and results presented separately because of their different immigration standing (and changes in visa policies impact differently on these groups). Expenditure by students from the rest of the UK is important for regional policy as it is a clear additional injection of money into Northern Ireland. Expenditure by Northern Ireland-domiciled students is also important to note, since the university helped retain these students and their spending within Northern Ireland.

The summary results for impact of off-campus student expenditure are shown in Figure 12.

8. Source: HESA Students in Higher Education 2012/13
9. The most recent expenditure survey of Northern Ireland students was for 2004–05. However, the Department for Business, Innovation and Skills has conducted more recent surveys (for 2011–12) and also made estimates of international student expenditure, which we used. For more details see Annexe B.
10. The BIS estimates of international student expenditure that were used here take account of any UK-sourced money spent by international students, eg money from UK grants or part-time earnings. Hence all the international student expenditure included in this analysis can be regarded as export earnings.
### 3.2 Impact of student off-campus expenditure

#### Figure 12: Additional economic impact on Northern Ireland of the off-campus expenditure of students

<table>
<thead>
<tr>
<th>Student numbers 2012–13</th>
<th>Estimated expenditure off campus (£ million)</th>
<th>Output generated in UK by off-campus student expenditure (£ million)</th>
<th>Output generated in NI by off-campus expenditure (£ million)</th>
<th>Employment generated in UK by off-campus expenditure (FTE jobs)</th>
<th>Employment generated in NI by off-campus expenditure (FTE jobs)</th>
<th>Regional GVA generated by off-campus expenditure (£ million)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students from outside the EU</td>
<td>1,945</td>
<td>23.5</td>
<td>35.2</td>
<td>23.4</td>
<td>298</td>
<td>238</td>
</tr>
<tr>
<td>Students from the rest of the EU</td>
<td>1,045</td>
<td>13.4</td>
<td>13.9*</td>
<td>13.9</td>
<td>142</td>
<td>142</td>
</tr>
<tr>
<td>Northern Ireland students</td>
<td>2,128</td>
<td>273.2</td>
<td>284*</td>
<td>284</td>
<td>2,883</td>
<td>2,883</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td><strong>26,465</strong></td>
<td><strong>334.4</strong></td>
<td><strong>371.2</strong></td>
<td><strong>346.6</strong></td>
<td><strong>3,645</strong></td>
<td><strong>3,519</strong></td>
</tr>
</tbody>
</table>

Source: Viewforth Consulting economic modelling system analysis

* Because of the wider displacement effects of domestic student expenditure, the knock-on impact of domestic student expenditure only on the UK as a whole is defined to be identically equal to the estimated impact on the region.
CHAPTER 4
SUMMARY: THE COMBINED ECONOMIC IMPACT OF HIGHER EDUCATION INSTITUTIONS AND THEIR STUDENTS

Figures 13, 14 and 15 show the results for the combined impact of the university and its students together. These results show that the university overall (ie together with its students) makes a significant impact on the economy, generating over £700 million of output in Northern Ireland, generating nearly 8,000 FTE jobs and contributing £385 million to Northern Ireland GVA. 8,000 FTE jobs is equivalent to around 1.1% of 2013 Northern Ireland employment\(^1\) and £385 million GVA makes up nearly 1.2% of 2013 Northern Ireland GVA.\(^2\)

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**Figure 13 Summary of total output generated, 2012–13 (university and students together)**

<table>
<thead>
<tr>
<th>Direct (£ million)</th>
<th>Knock-on impact on UK*</th>
<th>Of which accruing to the region</th>
<th>Total UK impact (direct &amp; knock-on)</th>
<th>Total impact on the region (direct &amp; knock-on)</th>
</tr>
</thead>
<tbody>
<tr>
<td>University</td>
<td>191.7</td>
<td>247.4</td>
<td>163.1</td>
<td>439.2</td>
</tr>
<tr>
<td>Plus non EU students</td>
<td>0.0</td>
<td>35.2</td>
<td>23.4</td>
<td>35.2</td>
</tr>
<tr>
<td>Subtotal</td>
<td>191.7</td>
<td>282.7</td>
<td>186.5</td>
<td>474.4</td>
</tr>
<tr>
<td>Plus EU students</td>
<td>0.0</td>
<td>38.1</td>
<td>25.3</td>
<td>38.1</td>
</tr>
<tr>
<td>Subtotal</td>
<td>191.7</td>
<td>320.7</td>
<td>211.8</td>
<td>512.4</td>
</tr>
<tr>
<td>Plus RUK students</td>
<td>0.0</td>
<td>13.9*</td>
<td>13.9</td>
<td>13.9</td>
</tr>
<tr>
<td>Subtotal</td>
<td>191.7</td>
<td>334.7</td>
<td>225.8</td>
<td>526.4</td>
</tr>
<tr>
<td>Plus NI students</td>
<td>0.0</td>
<td>283.9*</td>
<td>283.9</td>
<td>283.9</td>
</tr>
<tr>
<td>Total combined impact</td>
<td>191.7</td>
<td>618.6</td>
<td>509.7</td>
<td>810.3</td>
</tr>
</tbody>
</table>

Source: Viewforth Consulting modelling system analysis

RUK = Rest of UK

* Because of the wider displacement effects of domestic student expenditure, the knock-on impact of domestic student expenditure only on the UK as a whole is defined to be identically equal to the estimated impact on the region.

** Totals may not sum due to rounding.

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\(^1\) BRES (2013). The total number of employee jobs in September 2012 was 692,516.

\(^2\) 2013 Northern Ireland GVA amounted to £32.8 billion. (ONS 2014)
Figure 14: Summary of total employment generated, 2012–13 (university and students together)

<table>
<thead>
<tr>
<th></th>
<th>Direct employment (FTEs)</th>
<th>Knock-on impact on UK*</th>
<th>Of which accruing to the region</th>
<th>Total UK impact (direct &amp; knock-on)</th>
<th>Total impact on the region (direct &amp; knock-on)</th>
</tr>
</thead>
<tbody>
<tr>
<td>University</td>
<td>2,573</td>
<td>2,467</td>
<td>1,887</td>
<td>5,040</td>
<td>4,460</td>
</tr>
<tr>
<td>Plus non EU-students</td>
<td>0</td>
<td>298</td>
<td>238</td>
<td>298</td>
<td>238</td>
</tr>
<tr>
<td>Subtotal</td>
<td>2,573</td>
<td>2,765</td>
<td>2,125</td>
<td>5,338</td>
<td>4,698</td>
</tr>
<tr>
<td>Plus EU students</td>
<td>0</td>
<td>322</td>
<td>257</td>
<td>322</td>
<td>257</td>
</tr>
<tr>
<td>Subtotal</td>
<td>2,573</td>
<td>3,087</td>
<td>2,382</td>
<td>5,660</td>
<td>4,955</td>
</tr>
<tr>
<td>Plus RUK students</td>
<td>0</td>
<td>142*</td>
<td>142</td>
<td>142</td>
<td>142</td>
</tr>
<tr>
<td>Subtotal</td>
<td>2,573</td>
<td>3,229</td>
<td>2,523</td>
<td>5,802</td>
<td>5,096</td>
</tr>
<tr>
<td>Plus NI students</td>
<td>0</td>
<td>2,883*</td>
<td>2,883</td>
<td>2,883</td>
<td>2,883</td>
</tr>
<tr>
<td><strong>Total combined impact</strong></td>
<td><strong>2,573</strong></td>
<td><strong>6,112</strong></td>
<td><strong>5,406</strong></td>
<td><strong>8,685</strong></td>
<td><strong>7,979</strong></td>
</tr>
</tbody>
</table>

Source: Viewforth Consulting modelling system analysis

RUK = Rest of UK

* Because of the wider displacement effects of domestic student expenditure, the knock-on impact of domestic student expenditure only on the UK as a whole is defined to be identically equal to the estimated impact on the region.

** Totals may not sum due to rounding.

Figure 15: Summary of total contribution to regional GVA (university and students together)

<table>
<thead>
<tr>
<th></th>
<th>Direct (£ million)</th>
<th>Secondary</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>University</td>
<td>137.3</td>
<td>80.5</td>
<td>217.8</td>
</tr>
<tr>
<td>Plus non-EU students</td>
<td>0.0</td>
<td>11.3</td>
<td>11.3</td>
</tr>
<tr>
<td>Subtotal</td>
<td>137.3</td>
<td>91.8</td>
<td>229.1</td>
</tr>
<tr>
<td>Plus EU students</td>
<td>0.0</td>
<td>12.2</td>
<td>12.2</td>
</tr>
<tr>
<td>Subtotal</td>
<td>137.3</td>
<td>104.1</td>
<td>241.4</td>
</tr>
<tr>
<td>Plus RUK students</td>
<td>0.0</td>
<td>6.7</td>
<td>6.7</td>
</tr>
<tr>
<td>Subtotal</td>
<td>137.3</td>
<td>110.8</td>
<td>248.1</td>
</tr>
<tr>
<td>Plus NI students</td>
<td>0.0</td>
<td>137.2</td>
<td>137.2</td>
</tr>
<tr>
<td><strong>Total combined impact</strong></td>
<td><strong>137.3</strong></td>
<td><strong>248.0</strong></td>
<td><strong>385.3</strong></td>
</tr>
</tbody>
</table>

Source: Viewforth Consulting modelling system analysis

RUK = Rest of UK

* Totals may not sum due to rounding.
CHAPTER 5
CONCLUSIONS

This report presents an analysis of the economic impact of Ulster University as an enterprise generating economic activity, jobs and output and contributing to GDP.

Universities are frequently regarded as ‘anchor institutions’ attracting and retaining business and investment in a region. Ulster University acts as an anchor institution in many different respects, generating economic activity across its campuses in different parts of Northern Ireland. A further important aspect of universities forming part of a region’s ‘core’ economy is that they tend to be countercyclical – while they may not grow as fast as other enterprises during a boom time, they tend to remain stable or contract less than other enterprises in times of recession. Therefore they provide stability in the local economy.

This report highlights the important contribution of Ulster University to the Northern Ireland economy as an enterprise in itself. The employment generated by Ulster University and its students is significant: equivalent to around 1.1% of all Northern Ireland employment. The university’s activities generated over £700 million of output in Northern Ireland in 2012–13 and £385 million of Northern Ireland GVA, equivalent to nearly 1.2% of 2013 Northern Ireland GVA. Decisions affecting the university’s business operations therefore have implications that go beyond the university itself and will consequently have a knock-on effect on the wider economy and the other Northern Ireland businesses that depend on the university.

13. The importance of the higher education institutions in Belfast as large enterprises was highlighted in the 2013 report The Impact of Anchor Institutions in Belfast (CLES 2013).
14. BRES (2013). The total number of employee jobs in September 2012 was 692,516.
15. 2013 Northern Ireland GVA amounted to £32.8 billion (ONS 2014).
ANNEXE A
METHODOLOGY AND DATA SOURCES

The primary focus of the study was the higher education sector in Northern Ireland as an industry and the impact generated by the sector’s activity during the academic and financial year 2012–13.

The study utilised a two-stage approach to the estimation of the economic impact of the higher education sector. The impact of the higher education institutions on the UK economy was modelled, using a purpose-designed economic model of the UK. Analysis was then undertaken, using a Location Quotient approach, to estimate the share of the institutional impact on the UK likely to have accrued to Northern Ireland.

The model used was a ‘Type II’ input-output model based on actual UK data derived from the UK Input-Output Tables (Office for National Statistics) together with Labour Force Survey and Annual Business Inquiry data and the 2008 UK Blue Book. The modelling system was updated in 2013 to reflect productivity increases and related economic changes. Additional data sources include the Producers’ Prices Index, ONS Regional Accounts and Local Area Data from the ONS including the Business Register and Employment Survey and other regional labour market data from nomisweb.co.uk. The core modelling system is based on SOC 2000 and SIC 2003 classifications and this has been used for the 1 digit aggregate presentation of results. The modelling system used was purpose-designed for UK higher education institutions and is the most recent version of the Universities UK modelling system. The technical specification for the model is included in The impact of universities on the UK economy (Universities UK, 2014).

Other data sources

The main source of higher education data used was the Higher Education Statistics Agency (HESA) publications on higher education finance, staffing and students. Domestic student expenditure data was drawn from the most recent survey undertaken by BIS (for 2011–12) and uprated using the consumer price index. International (ie both non-EU and rest of EU) student off-campus expenditure was estimated by drawing on the detailed analysis of international student expenditure carried out by BIS for the HM Government International Education Strategy Paper International Education: Global Growth and Prosperity (July 2013) [these figures were also uprated by the CPI]. The BIS figures are the only extant estimates of international (rather than domestic) student expenditure in the UK. Hence we have assumed that international students studying in Northern Ireland will have similar expenditure patterns to international students in other parts of the UK. The BIS figures had taken account of any UK-source monies spent by international students [eg from grants or part-time work] and hence all of the international student expenditures included can be regarded as export earnings. Overall student spend figures were adjusted downwards to reflect an estimated amount likely to have been spent on campus [for residence, catering etc] and therefore paid to the universities. This was to avoid double counting. Amounts spent on campus are already included in the university impact.

In relation to student expenditure it is worth noting that the last Northern Ireland-specific student expenditure survey was conducted for 2004–05. However, when the survey findings are uprated to 2011–12 using the consumer price index to match the same time period of the 2011–12 survey of students in England, the figures turn out to be remarkably similar, with the minor differences in the uprated Northern Ireland expenditure figures and the recent England expenditure figures being within the same order of magnitude as the difference between the 2004–05 Northern Ireland expenditure survey and the 2004–05 England expenditure survey.

The final total expenditure figures for students were derived separately for each of the four groups of students of interest, reflecting the characteristics of the 2012–13 cohort of students. For instance there were a relatively high number of part-time postgraduates among the group from the rest of the UK.

It was not possible within the resources of this study to fully explore the characteristics of a relatively new group of Ulster students: those who may be wholly based at the recently established London or Birmingham branch campuses. To the extent that there may be a number of students wholly based outside Northern Ireland, their personal expenditure should be excluded from impact analysis as it would not be spent in Northern Ireland. However, these students cannot currently be identified from HESA data and the available information from elsewhere does not map to HESA categories or definitions. At present the effect is likely to be relatively small. For
instance even if all the students originating from the rest of the UK studied at the university’s English campuses and none in Northern Ireland (which is unlikely), the overall effect would be to reduce the total university impact on Northern Ireland by about 1.8%. However, this is an issue that may need to be addressed in any future studies if the numbers involved become greater.

ANNEXE B
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To download this report and its sister analysis of Ulster University, plus accompanying infographics, visit www.universitiesuk.ac.uk/highereducation
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