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UCC
University College Cork, Ireland
Coláiste na hOllscoile Corcaigh

MAY 2018

THE ECONOMIC AND SOCIETAL **IMPACT** *of* UNIVERSITY COLLEGE CORK

EXECUTIVE SUMMARY



UCC
University College Cork, Ireland
Coláiste na hOllscoile Corcaigh


“UCC creates more value than it consumes, for the moral, cultural and economic benefit of society.”
Professor Patrick G O’Shea, President of University College Cork
UNIVERSITY COLLEGE CORK
ucc.ie



THE ECONOMIC AND SOCIETAL IMPACT of UNIVERSITY COLLEGE CORK

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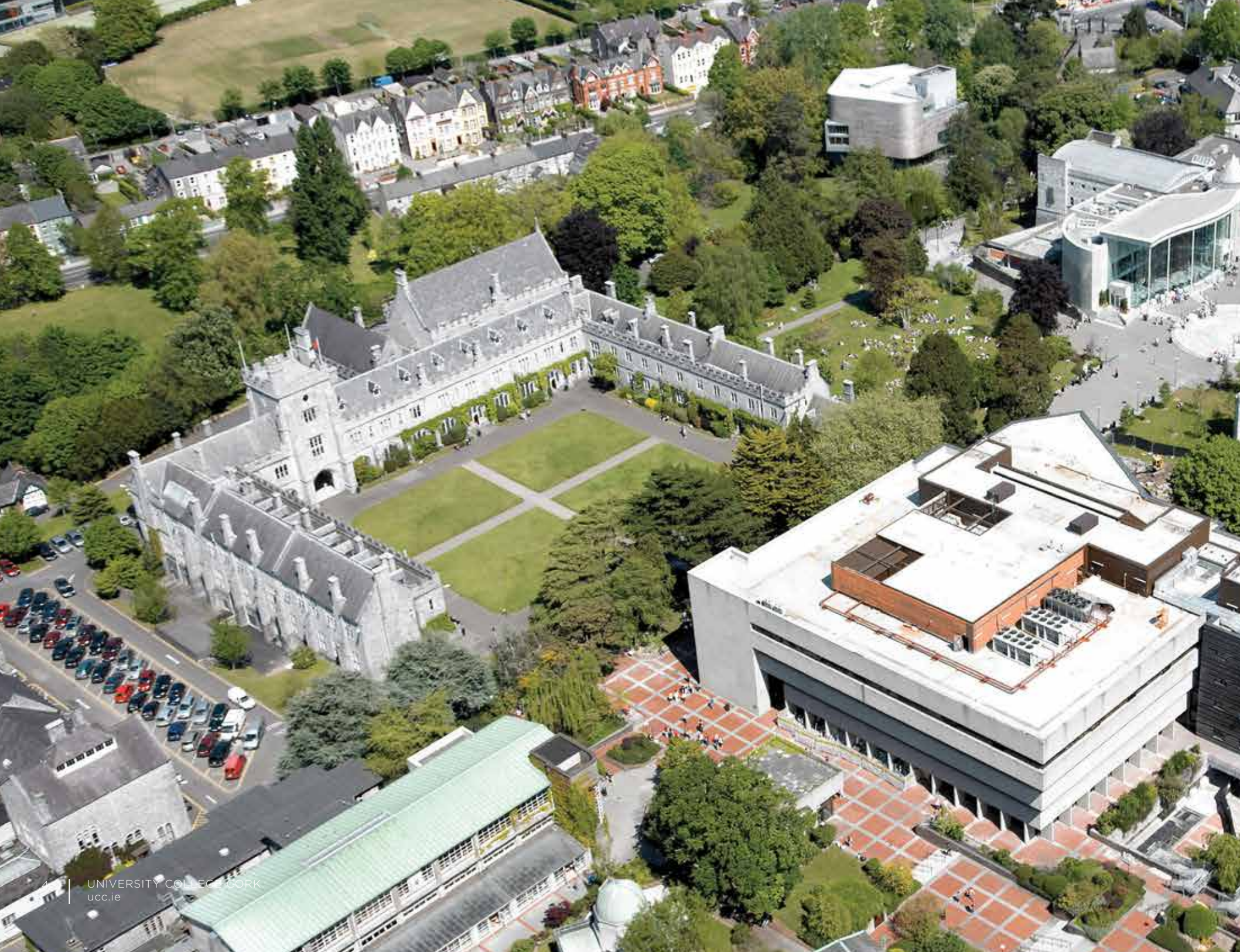
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UCC - A PIONEERING UNIVERSITY

UCC GRADUATES THE **MOST UNDERGRADUATES** OF ANY IRISH UNIVERSITY.

UCC SCHOOLS OF NURSING & MIDWIFERY AND PHARMACY ARE IN THE GLOBAL TOP **100** IN THE QS WORLD UNIVERSITY RANKINGS.

UCC GRADUATES MORE HEALTH & WELFARE PROFESSIONALS AT UNDERGRADUATE LEVEL THAN ANY OTHER IRISH UNIVERSITY.

UCC WAS A LEADING IRISH UNIVERSITY IN THE ADMISSION OF FEMALE STUDENTS (1885) AND THE FIRST TO APPOINT FEMALE PROFESSORS (1910).

UCC WAS THE FIRST UNIVERSITY IN THE WORLD TO BE AWARDED GREEN FLAG FROM THE FOUNDATION OF ENVIRONMENTAL EDUCATION.

UCC'S **€96** MILLION INVESTMENT IN CREATION AND DISCOVERY MEANS THAT IT IS THE LEADING IRISH UNIVERSITY WITH REGARD TO ACTIVELY SEEKING AND SECURING INVESTMENT IN RESEARCH AND DEVELOPMENT.

UCC IS THE ONLY IRISH UNIVERSITY RUNNING A JUNIOR CONFERRING PROGRAMME FOR PRIMARY SCHOOL STUDENTS FROM ALL OVER THE REGION.

INTRODUCTION

An ambitious, agile university with a modern focus, of rich historic heritage, UCC sits nestled in the western fringes of Cork city as if it has always been there. Reaching out into the community, both locally and globally, there are undeniable educational, financial, developmental, medical, societal and cultural benefits to having a leading-edge, world-class university in the city.

In the same way that UCC's role in society and the community has developed extensively over the past 173 years, the University has also become engrained economically in Ireland and the South West. You will see from our detailed analysis* that UCC is now of vital importance to the national and local economies and to the Exchequer.

** 2016 has been used as the reference year for the financial analysis.*

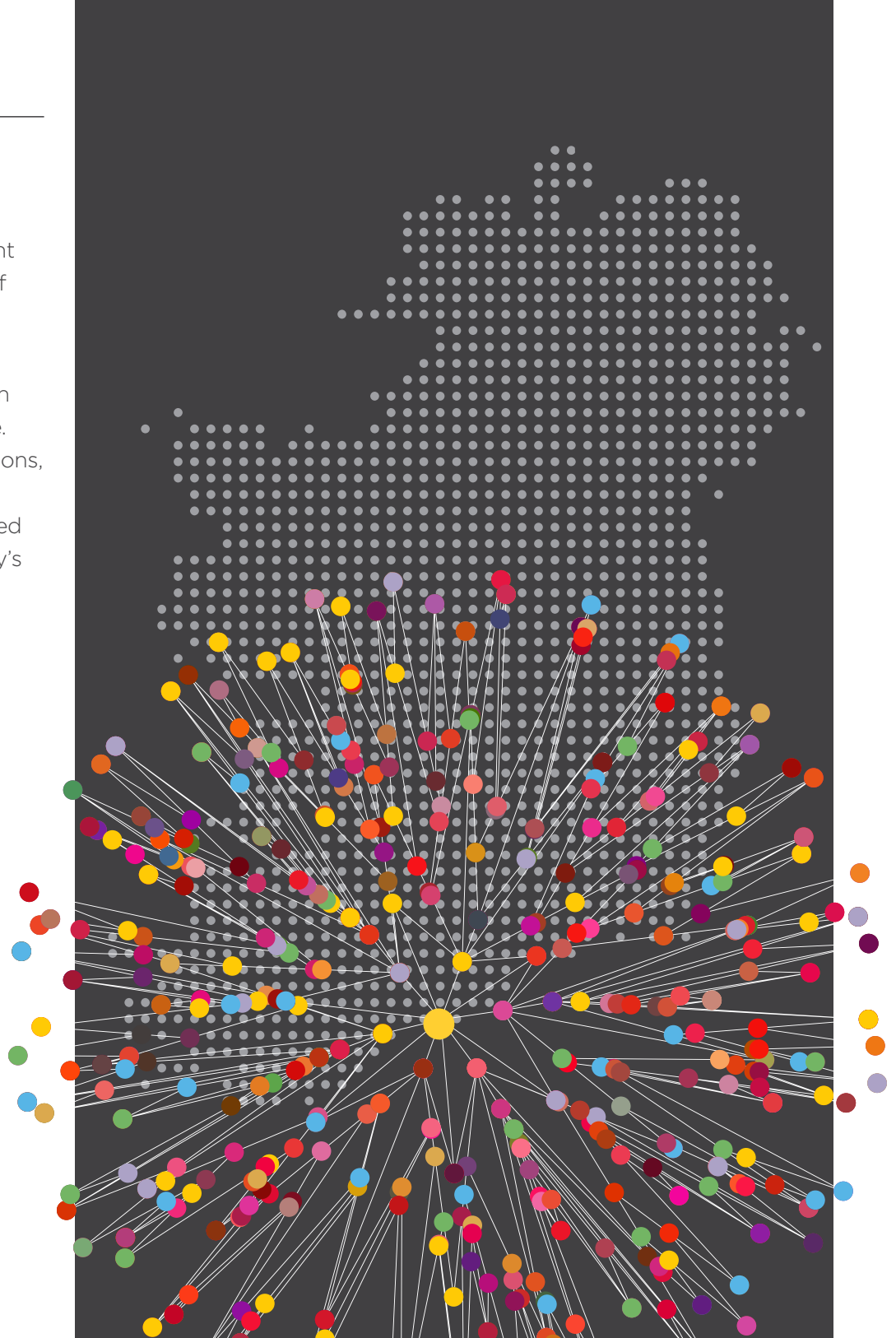
THE IMPACT OF UNIVERSITY COLLEGE CORK

The analysis in this report demonstrates the significant and important impact which University College Cork contributes to the economy of Cork and the South West and the national economy of Ireland.

This is an excellent report. The economic impact analysis on which the report is based is of very high quality, drawing on best practice in similar studies in Ireland, the United Kingdom and the rest of Europe. Unlike many such reports on the impact of higher education institutions, the authors have been able to calculate both economic and wider social impacts. The report covers all of the direct, indirect and induced impacts of the research and teaching at UCC, and also the University's significant impact on the business environment in Ireland, and on society and the local community.

UCC has grown rapidly in recent years to become an engine of growth for the Irish economy, and it has combined this with a major contribution to the public good in its locality. Given this, it's not surprising that UCC has a growing reputation across Europe.

Professor Sir Anton Muscatelli (External Reviewer)
Economist, Principal & Vice Chancellor of the University of Glasgow
Chair of the Russell Group of Universities





AT A GLANCE

€2.3 MILLION GENERATED BY UCC EVERY DAY FOR THE ECONOMY.

TOTAL ECONOMIC IMPACT OF UCC €853 MILLION = €728 MILLION IN EXPENDITURE IMPACT & **€125 MILLION** IN TAX IMPACT (INCL. SOCIAL INSURANCE CONTRIBUTIONS).



UCC IS CHANGING THE PHYSICAL LANDSCAPE OF CORK CITY FOR THE BETTER. **UCC'S €241 MILLION DEVELOPMENT PLAN IS THE LARGEST PLANNED BY ANY ORGANISATION IN CORK.**



UCC HELPS SHAPE THE MINDS, PERSPECTIVES AND FUTURES OF 25,000 PEOPLE ON A DAILY BASIS = STUDENTS, FULL-TIME AND PART-TIME STAFF.



UCC SUPPORTS 1 IN EVERY 15 JOBS IN CORK CITY & COUNTY.



UCC'S €96 MILLION INVESTMENT IN CREATION & DISCOVERY

= LEADING IRISH UNIVERSITY WITH REGARD TO ACTIVELY SEEKING AND SECURING INVESTMENT IN RESEARCH AND DEVELOPMENT.

23% UCC IS A LEADER IN ACCESS TO THIRD LEVEL EDUCATION. OVER 23% OF UCC'S UNDERGRADUATE INTAKE ARE MATURE STUDENTS, STUDENTS WITH DISABILITIES OR NON-TRADITIONAL COLLEGE-GOERS. REFLECTING THE ETHOS OF EQUALITY, DIVERSITY AND INCLUSION FOR ALL.

UCC IS A LEADER IN COLLABORATION WITH INDUSTRY.

€10 MILLION IN R&D SECURED AND INVESTED BY UCC'S INDUSTRY PARTNERS MAKES IT THE LEADING UNIVERSITY BY A DISTANCE WITH REGARD **TO R&D COLLABORATIONS WITH INDUSTRY.**



EMPLOYMENT RATES OF UCC GRADUATES ARE AT HISTORIC **HIGH LEVELS AT 94% FOR UNDERGRADUATE LEVEL AND 95% AT POSTGRADUATE LEVEL.**



BOOK OF THE YEAR ATLAS OF THE IRISH REVOLUTION PUBLISHED BY UCC PRESS.



UCC'S PLAN TO **BUILD A NEW STATE-OF-THE-ART BUSINESS SCHOOL IN CORK CITY CENTRE** IS EVIDENCE OF ITS ON-GOING COMMITMENT TO ENHANCE CORK AS A CITY IN WHICH TO DO BUSINESS.



UCC HAS A PROUD SPORTING TRADITION. THE **FIRST CLUB FOUNDED WAS THE RUGBY CLUB IN 1872** WITH THE **SKULL AND CROSSBONES BEING INTRODUCED IN 1880**. TODAY UCC HAS **58 CLUBS** FOR ITS ATHLETES OPERATING FROM THE RENOWNED **MARDYKE ARENA**. IN ADDITION UCC HAS **103 DIFFERENT STUDENT-LED INTEREST SOCIETIES** RUNNING AN AVERAGE OF **40 EVENTS PER WEEK**.



UCC IS THE PRIMARY ACADEMIC PARTNER SUPPORTING NINE HOSPITALS IN THE SOUTH SOUTH WEST HOSPITAL GROUP. UCC IMPACTS THE PHYSICAL HEALTH OF THE NATION AS MUCH AS IT IMPROVES THE FISCAL HEALTH OF THE CITIZENS.

€30 MILLION ANNUAL INVESTMENT

TYNDALL NATIONAL INSTITUTES €30MILLION ANNUAL INVESTMENT IN CREATION AND DISCOVERY IS IN ITSELF GREATER THAN THAT OF THE ENTIRE R&D INVESTMENT IN 2 OF THE 7 IRISH UNIVERSITIES. **ITS FINANCIAL IMPACT GOES FAR BEYOND THE 250 HIGHLY SKILLED JOBS AND 200 PHD STUDENTS ON ITS CAMPUS.**



UCC'S IRISH STUDENTS GENERATE €135 MILLION FOR THE LOCAL ECONOMY THIS EXPENDITURE SUPPORTS **3,675 JOBS** IN THE IRISH ECONOMY.

UCC'S INTERNATIONAL STUDENTS GENERATE €52.5 MILLION FOR THE LOCAL ECONOMY THIS EXPENDITURE SUPPORTS **1,421 JOBS** IN THE IRISH ECONOMY.

€24.8 MILLION

IN ADDITIONAL ECONOMIC IMPACT GENERATED IN THE FIRST YEAR AFTER GRADUATION BY UCC GRADUATES.



€5.68 RETURN FOR EVERY €1 OF STATE INVESTMENT IN UCC.

This study provides an in-depth analysis of University College Cork's impact across five key areas, as well as considering the context in which UCC operates. The report is an executive summary of larger impact report and examines the following:

1 UCC's **economic impact** at a national and regional level, by the expenditure of UCC, the spending of those employed by UCC, those who study there, those who have graduated in the past year, as well as those who visit UCC on an annual basis. We evaluate the national taxation impact, the employment impact in Cork and the South West, both as a result of direct and indirect jobs, the impact of current and future capital projects, and the impact of visitors and exports. We note that the impact of international students is particularly important from an expenditure and job creation perspective.

2 UCC's **workforce development impact** in the region and beyond, including the ability to graduate high calibre 'world-ready' and 'work-ready' individuals. We look at the investment into, and the output from, a UCC graduate's education in financial terms. We examine the subsequent effect on the salary of UCC graduates in the first year after graduation vis a vis non-graduates and what this might mean financially over the lifetime of a professional career.

3 UCC has a significant **business impact** and contribution to the wider Irish and international economy. This stems from the University's leading position in relation to research and development activities, it's role in attracting foreign direct investment and indigenous investment, as well as UCC's impact on innovation and entrepreneurship and its pivotal contribution to local business in Cork and the surrounding region.

4 UCC's **impact in relation to creation and discovery**. UCC is clearly driving growth nationally, particularly for the South West region, through its significant research and development capabilities. It has a crucial role to play in knowledge creation and discovery, technology and knowledge transfer as well as a key role in commercialising that knowledge. Furthermore, UCC's role in creation and discovery has a real impact on society and the community. Work emanating from UCC impacts the lives of millions of people around the globe.

5 UCC's **impact on our society and in our community**. UCC's societal impact is as wide as its fiscal impact is deep. We examine UCC's impact on social responsibility and the promotion of responsible processes, the physical environment impact, socio-cultural impact and the leading role UCC has taken with regard to widening participation in higher education. We look at the impact of consistent engagement with the community, impact on the health of our citizens and conclude by looking at UCC from an environmental and sustainability impact perspective.



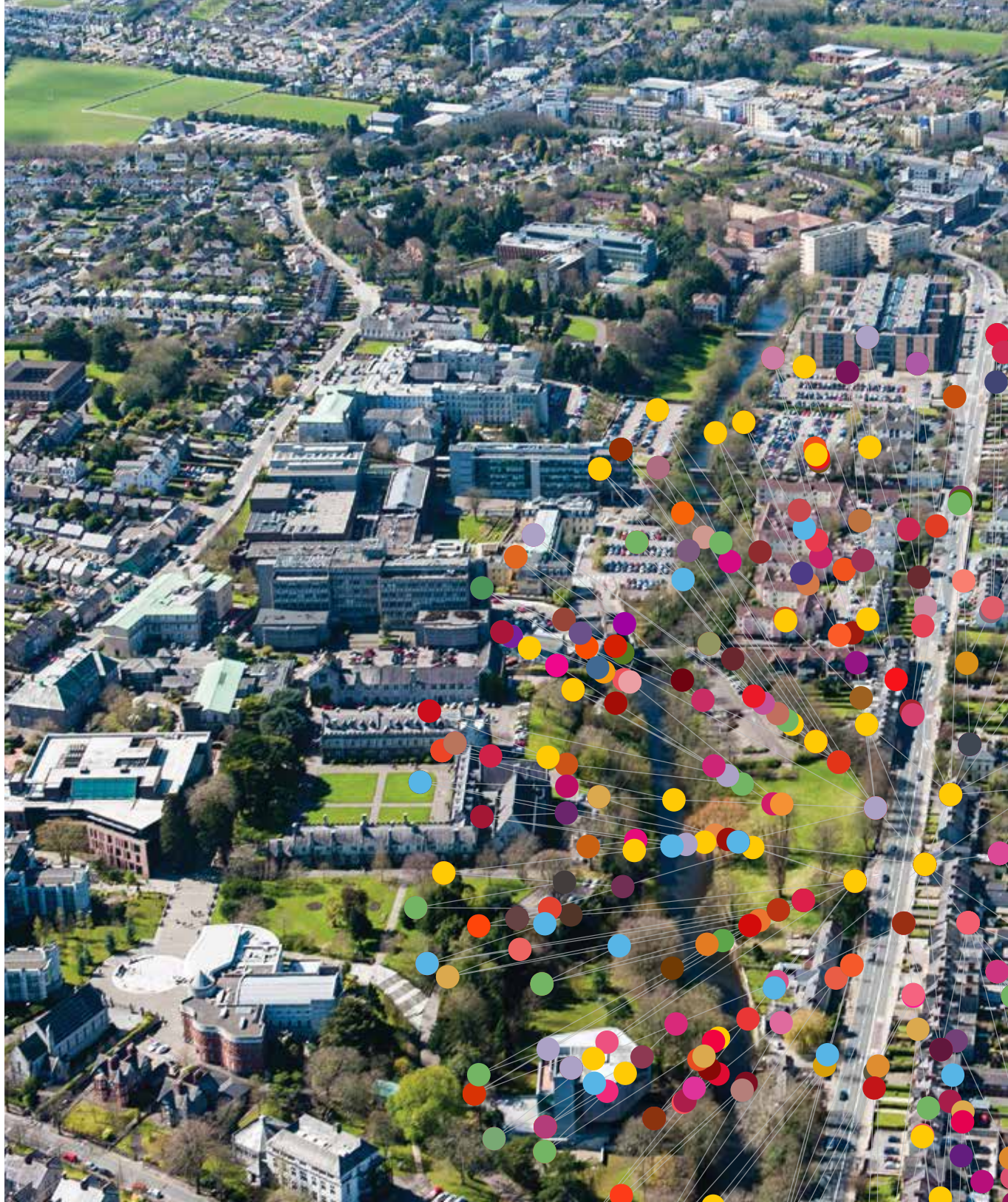
ECONOMIC IMPACT

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UCC SUPPORTS 1 IN EVERY 15 JOBS IN CORK CITY & COUNTY.



THE ECONOMIC IMPACT OF UCC IS EXTENSIVE

- Overall, **the total economic impact (Gross Value Added) of UCC is €853m per annum**. That output means that UCC generates **€2.3m per day for the Irish economy**. The impact generated by **expenditure is €728m** annually and the **fiscal contribution including taxes and social insurance contributions amounts to a further €125m each year**.

- Taking 2016 as a representative year, UCC produced €853m in output for a €151m state investment. That is a **return of €5.68 to the Irish Economy for every €1 of state investment in UCC**.

This compares favourably with the Leading European Research Universities (LERU Group), where their return is estimated at €5 for every €1 invested.

- **UCC's turnover is €350m** per annum, of which 43% (€151m) is invested by the state. UCC secures the remaining 57% of the investment from non-Exchequer sources. In 2016, **for every €1 invested by the state in UCC**, the state directly got approximately €0.83 cent in return in the form of VAT, payroll taxes including employee contributions.

- Furthermore, **UCC supports 14,708 jobs on an annual basis**, which equates to approximately **1 in every 15 jobs in Cork City and County**.

In addition, an estimated further **11,482 FTE jobs** will be supported over the lifetime of **UCC's €241 million capital development plan**. The approved development plan alone (which excludes key strategic projects such as the new business school), is the largest planned by any organisation in Cork and will **impact positively on the economy of the South West to the tune of €446m** including all direct, indirect and induced effects.

WORKFORCE DEVELOPMENT IMPACT

UCC GRADUATES THE
MOST UNDERGRADUATES
OF ANY IRISH UNIVERSITY.

EMPLOYMENT RATES OF UCC GRADUATES ARE AT HISTORIC HIGH LEVELS AT **94%** FOR UNDERGRADUATE LEVEL AND **95%** AT POSTGRADUATE LEVEL.



UCC GRADUATES PLAY A KEY ROLE IN THE DEVELOPMENT OF THE IRISH WORKFORCE

- Graduates of UCC who remain and work in Ireland **create extra economic value** for the economy of up to **€24.8 million in the first year after graduation**, when compared to non-university graduates.
- UCC's **progression rate from 1st year to 2nd year (93.4% in 2017/18) is superior to the third level national average** of 85% and is also ahead of some of America's elite universities.
- In 2016, **UCC graduated more undergraduates (4,097) than any other university in Ireland**.

Furthermore, and crucially for the economy, UCC is developing graduates in the **sectors that have an economic need** and which are 'hot' in terms of graduate intake. Per 'Grad Ireland' research published in 2017, the greatest availability of jobs was in banking and financial services 32%, accounting related 16%, IT and telecoms 14%. At undergraduate level UCC leads the way in terms of graduate numbers for business administration and law, science mathematics and computing, **addressing this economic need**.

- **Employment rates of UCC graduates** (which include those in further study) are at **historic high levels at 94%** for undergraduate level and **95%** at postgraduate level.
- In pure financial terms, **the additional earning potential** (output) from being a graduate of UCC as opposed to a non-graduate is **10.2 times the cost** (input i.e. annual student contribution plus living costs combined) to that undergraduate degree.

DEVELOPING **WORK READY** & **WORLD READY** GRADUATES

BUSINESS IMPACT

UCC'S IRISH STUDENTS GENERATE €135 MILLION FOR THE LOCAL ECONOMY THIS EXPENDITURE SUPPORTS **3,675 JOBS** IN THE IRISH ECONOMY.

UCC'S INTERNATIONAL STUDENTS GENERATE €52.5 MILLION FOR THE LOCAL ECONOMY THIS EXPENDITURE SUPPORTS A FURTHER **1,421 JOBS** IN THE IRISH ECONOMY.



THE UCC OWNED IRISH MANAGEMENT INSTITUTE (IMI) SIGNIFICANTLY ENHANCES THE UNIVERSITY'S RESOURCES FOR ITS DELIVERY OF EXECUTIVE EDUCATION IN IRELAND.

UCC'S PLAN TO **BUILD A NEW STATE-OF-THE-ART BUSINESS SCHOOL IN CORK CITY CENTRE** IS EVIDENCE OF ITS ON-GOING COMMITMENT TO ENHANCE CORK AS A CITY IN WHICH TO DO BUSINESS.

UCC IS AN INNOVATIVE UNIVERSITY, AND CONTRIBUTES SIGNIFICANTLY TO BUSINESS AND INDUSTRY NEEDS

- UCC acts as an **attractor of Foreign Direct Investment** (FDI) and indigenous investment into the South West region. The growth of FDI employment in the region is highly correlated with that of UCC. The growing reputation of UCC's creation and discovery environment has helped to facilitate world leading clusters such as pharmaceuticals where **7 of the top 10 pharma companies in the world are located in the environs of UCC**, where there is a highly skilled graduate population readily available.

- UCC's research and development capabilities contribute greatly to the overall impact that the University has on the region. Through proactive collaboration, UCC has forged partnerships with many global names including Dell EMC, Intel, Pfizer, and Eli Lilly; these partnerships have remained strong through various economic climates. **UCC facilitates the industry sector in expanding their R&D capabilities in the region**, with resulting economic impact through enhanced importance, expanded roles, and anchoring employment in Ireland.

- UCC has a huge impact on local business through the expenditure of the University itself, its staff, Irish students, recent graduates, international students and visitors alike. These expenditures impact right across the economy and right throughout the entire region.

For example **UCC's international students** support total expenditures (direct & indirect and induced) in the Cork region of **€52.5m per annum**. This expenditure supports an estimated **1,421 jobs** in the Irish economy each year.

Similarly, **UCC's Irish students** have direct expenditure of **€135m in the local economy** and this expenditure supports an estimated **3,675 jobs** in the Irish economy.

- The business innovation impact of UCC is plain to see. UCC has created a bespoke entrepreneurial ecosystem comprising **'Blackstone LaunchPad', 'Ignite' and 'Gateway' as business incubators, often providing the bridge between education and business**.

- UCC provides world-class training for business people. Business talent is nurtured and developed at UCC and this commitment to the business community is reflected in UCC's plans for the **new state-of-the-art Cork University Business School in the centre of the city**.

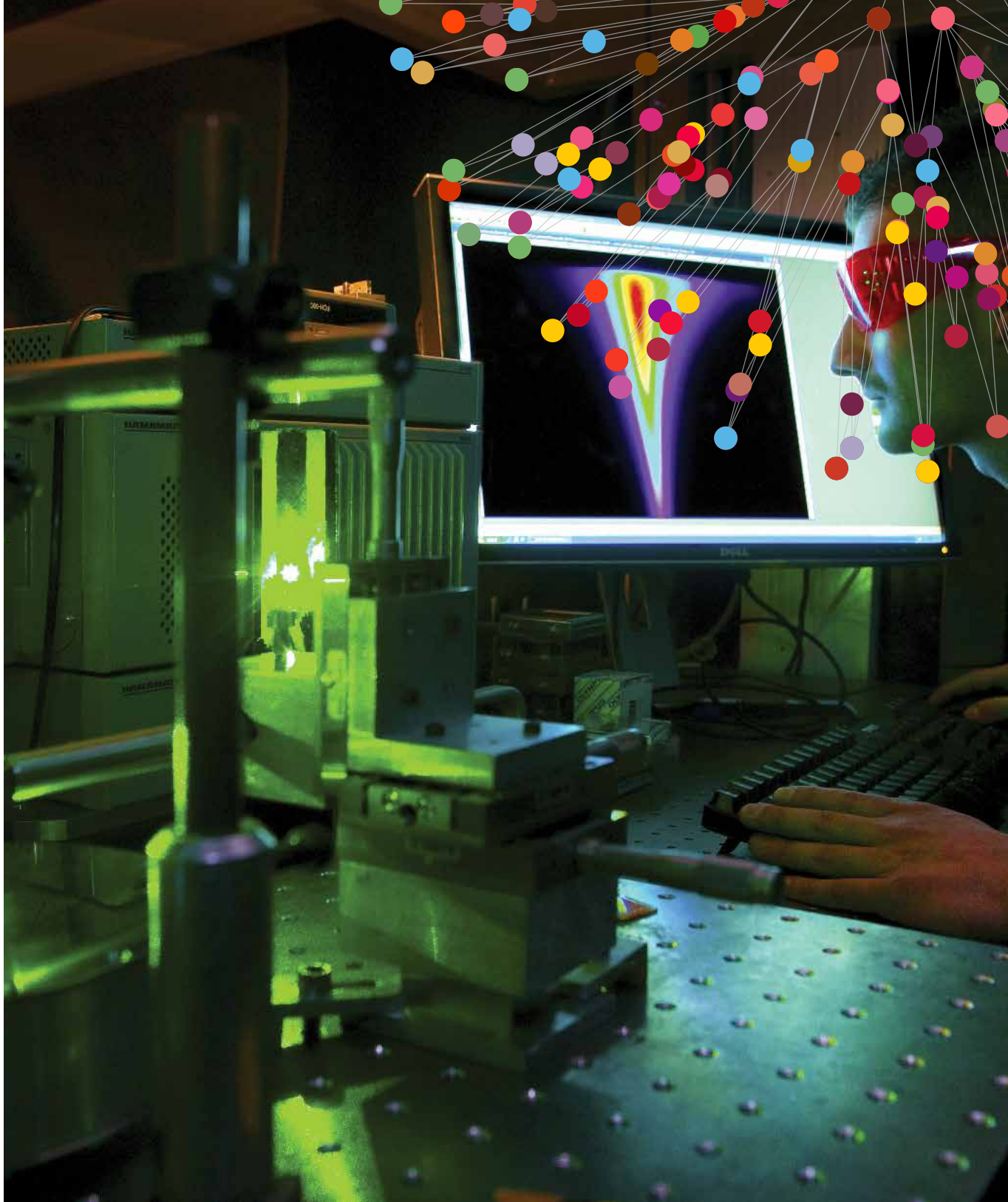
- The UCC owned **Irish Management Institute (IMI) significantly enhances the university's resources for its delivery of executive education in Ireland.**

CREATION & DISCOVERY IMPACT

€10 MILLION IN R&D SECURED AND INVESTED BY UCC'S INDUSTRY PARTNERS MAKES IT THE LEADING UNIVERSITY BY A DISTANCE WITH REGARD **TO R&D COLLABORATIONS WITH INDUSTRY.**

UCC'S **€96 MILLION INVESTMENT** IN **CREATION & DISCOVERY** = LEADING IRISH UNIVERSITY WITH REGARD TO ACTIVELY SEEKING AND SECURING INVESTMENT IN RESEARCH AND DEVELOPMENT.

UCC'S APC MICROBIOME IRELAND IS RANKED **NUMBER 1 FOR** RESEARCH IN **ANTIMICROBIALS AND IN PROBIOTICS** (CWTS BIBLIOMETRIC, LEIDEN).



UCC IS DRIVING THE CREATION AND DISCOVERY AGENDA IN IRELAND

- UCC's **€96m investment (Financial Year end 2016)** in creation and discovery means that it is the leading Irish University with regard to **actively seeking and securing investment** in research and development. Similarly, the **€10m** secured and invested by UCC's industry partners makes it **the leading Irish university by a distance** with regard to research and development investment collaborations with Industry.

- UCC hosts several of Ireland's elite research centres including the Alimentary Pharmabiotic Centre (APC) now known as **APC Microbiome Ireland**, recognised as world leaders in the area of food and health. Such centres are home to brilliant scientists and their inter-disciplinary work impacts the lives of millions of people around the globe. Four of UCC's top most cited researchers include Paul Ross in Food & Health Science, Elke Arendt in Food and Nutritional Sciences, John Cryan in Anatomy & Neuroscience, and Catherine Stanton in the area of food, health and nutrition. In relation to **how often APC's ground-breaking work is cited**, APC has a normalised citation score of 1.83 which is **almost twice the world average**.

- Tyndall National Institute (TNI) through its **€30m turnover** each year, 250 staff and 200+ PhD researchers is the only institute of this scale nationally. It contributes to the impact of the nation at a level which is unmatched in smaller scale research and innovation centres.

TNI **represents 30% of UCC's annual investment in creation and discovery**; its international reputation is second to none. Indeed TNI's investment in research and development each year **is in itself greater than that of two of the seven Irish universities**.

- Beyond science and technology other recent outstanding achievements of scholarship include the production of **Atlas of the Irish Revolution**, published by Cork University Press and edited by John Crowley, Donal Ó Drisceoil, Mike Murphy and John Borgonovo, which was awarded the Irish Book of the Year 2017. Incidentally, **UCC is one of only two** Irish universities with its own publishing house.

- The **creative voices** of the UCC community are internationally known – **Sean O Riada, Sean O Faolain, Frank O'Connor, Aloys Fleischmann, John Montague, Sean O Tuama**, amongst others. UCC academics frequently participate in national documentary series, as well as working as consultant **academic advisors** on major films.



BOOK OF THE YEAR ATLAS OF THE IRISH REVOLUTION PUBLISHED BY UCC PRESS.

€30 MILLION ANNUAL INVESTMENT

TYNDALL NATIONAL INSTITUTES €30MILLION ANNUAL INVESTMENT IN CREATION AND DISCOVERY IS IN ITSELF GREATER THAN THAT OF THE ENTIRE R&D INVESTMENT IN 2 OF THE 7 IRISH UNIVERSITIES. ITS FINANCIAL IMPACT GOES FAR BEYOND THE 250 HIGHLY SKILLED JOBS AND 200 PHD STUDENTS ON ITS CAMPUS.

SOCIETAL IMPACT

UCC IS CHANGING THE PHYSICAL LANDSCAPE OF CORK CITY FOR THE BETTER. **UCC'S €241 MILLION DEVELOPMENT PLAN IS THE LARGEST PLANNED BY ANY ORGANISATION IN CORK.**

23% UCC IS A LEADER IN ACCESS TO THIRD LEVEL EDUCATION. **OVER 23% OF UCC'S UNDERGRADUATE INTAKE ARE MATURE STUDENTS, STUDENTS WITH DISABILITIES OR NON-TRADITIONAL COLLEGE-GOERS,** REFLECTING THE ETHOS OF EQUALITY, DIVERSITY AND INCLUSION FOR ALL.

UCC HAS JUST PUBLISHED ITS **FIRST CIVIC ENGAGEMENT PLAN** FOR THE PERIOD 2017 TO 2022.

UCC IS THE **PRIMARY ACADEMIC PARTNER** SUPPORTING NINE HOSPITALS IN THE SOUTH SOUTH WEST HOSPITAL GROUP.



THE SOCIETAL IMPACT OF UCC IS AS WIDE AS THE ECONOMIC IMPACT IS DEEP

- UCC **shapes and impacts the physical landscape of Cork as much as its' heritage and culture**. UCC's €241m development plan (2017 to 2022) is the largest planned by any organisation in Cork. Developments such as the new Cork University Business School are a further testament to UCC's commitment to the city and region.

- UCC significantly impacts on our society and in or community. **UCC's impact on social responsibility and the promotion of responsible processes is noteworthy**. UCC helps shape the minds, perspectives and futures of 25,000 people on a daily basis including students, full-time and part-time staff. This is a population equivalent to the size of Kilkenny City. As influencers, responsible processes garnered on campus by the patrons of UCC, reflecting the ethos of UCC, are promoted locally and globally.

- UCC is a **truly international university**. Circa 17% of the student population and 30% of the staff originate from overseas. This is equally true of UCC's **'Quercus'** talented student programme, which currently has three global teen leaders, two outstanding young people of the world winners, and three of Times Magazine's most influential teenagers in the world. UCC invests approximately €600,000 a year on talented students right across the spectrum including sports, citizenship, entrepreneurship, academic and the performing arts.

- UCC impacts positively on the health of Ireland's citizens. In 2016, **UCC graduated more primary degree health and welfare professionals (almost 24%)**, than any other Irish university, a hugely significant contribution to our health service. UCC was the first university in Ireland to be recognised as a health promoting university in 2015. 'UCC Health Matters' is a student-staff collaborative group, working to promote university-wide health and well-being.

- UCC has a **tradition of promoting equality, diversity and inclusion for all**. UCC was the first Irish university to admit female students (1885), the first to appoint a female professor (1910);in 2017 it built on this heritage and established an Equality, Diversity and Inclusion unit on campus. Moreover, UCC has become a designated Sanctuary University;2018 will see UCC awarding seven scholarships to people from the refugee and asylum seeker community.

- UCC considers itself to be **in the community and for the community**. From 'real' research engagement through interdisciplinary projects such as En-trust, to UCC's series of public lectures and seminars, UCC's CARL initiative (over 70 community projects have been delivered by students through CARL), UCC open days, visitor days and the wonderfully successful cultural night, UCC is open to all.

- The University has in its care collections, artefacts and archival material which are of **national and international significance**, including the Sean O Riada Collection; the George Boole Archive; the Bantry House Archive; a collection of Gaelic manuscripts (including the **Torna Collection**) and the **Great Book of Ireland**.

- UCC was the **first university in the world** to be awarded a Green Flag from the Foundation of Environmental Education. Over ten years on, UCC continues to lead the way in relation to impact on the environment and sustainability and through its actions and leading-edge work at the Environmental Research Institute (ERI) and Marine & Renewable Energy Institute (MaREI), UCC continues to champion action in relation to climate change and sustainability.

- UCC has a very proud **sporting tradition** and the first university club founded was the Rugby club back in 1872 with the famous skull and crossbones being introduced in 1880. Today UCC has **58 sports clubs with local, regional, national and international athletes operating from its fantastic Mardyke Arena base**. In addition UCC has 103 different student-led interest societies which run an average of 40 events per week.

MAKING AN IMPACT - CASE STUDIES

INFANT

The 'Irish Centre for Fetal and Neonatal Translational Research' or INFANT as it is appropriately referred to, is an example of a UCC Research Centre, which is having a global impact. Funded by the SFI, it operates in the critical area of maternal and child health.

Approximately 130 million babies are born worldwide each year: 300,000 mothers die, 2.6 million babies are stillborn and another 2.8 million babies die in the neonatal period. These are frightening, real life numbers and highlight the magnitude of this global issue. Added to that is the fact that perinatal disease accounts for 10% of the global health burden and we can begin to understand why INFANT was established in 2013.

Founded by Professor Louise Kenny from the Department of Obstetrics and Gynaecology and Professor Geraldine Boylan, a Professor of Neonatal Physiology, Paediatrics and Child Health, the Centre has a dual approach. It uses a unique blend of bio-medical research and clinical application to tackle problems during pregnancy and after birth.

INFANT is Ireland's first and only perinatal research centre. It is an active member of the World Health Organisation's partnership for maternal, new-born and child health. INFANT advances, advocates and influences national and international healthcare policy. In doing so, it is creating leaders and future champions in maternal care for the betterment of the healthcare industry, while cementing is position as a major international force for innovation in maternal and child health.

For more information please refer to **www.infantcentre.ie**

APC Microbiome Ireland

APC Microbiome Ireland links Irish Science with industry and society through excellence in research, education and outreach in the crucial area of gastrointestinal health. This SFI Research Centre is built on the premise of people working together across the boundaries of traditional research sectors. It has created a lively trans-disciplinary environment with clinicians, clinician-scientists and other scientists from diverse backgrounds working in teams, sharing ideas and resources. Although focused on the magic and mysteries of the gastrointestinal bacterial community, (the microbiota), the scale and scope of the work has become one of the fastest moving areas of biology, of relevance to all branches of human medicine and veterinary science, and is of growing importance to the economic welfare of society.

In broad terms APC Microbiome Ireland has impact across the key areas of: Human Capital, Scientific, Economic, Societal as well as other miscellaneous impacts. As we have seen in this report APC Microbiome Ireland is home to some brilliant academics and indeed its work is ranked number 1 for research in antimicrobials and in probiotics (CWTS bibliometric, Leiden).

The APC is a national institute and resource, which continues to serve as an agent of change; creating an environment conducive to innovation and challenging obstacles and outdated concepts in education. It is outward looking with an international reputation as a leading global microbiome institute, with a broad range of academic and commercial partnerships. The APC Microbiome Institute is building on many success stories of it's earlier years and looks to the future with energy, enthusiasm and confidence.

For more information please refer to **www.apc.ucc.ie**

ERI

The Environmental Research Institute (ERI) is a flagship research institute at UCC that carries out research in relation to the environment. The Institute brings together 315 world-class environmental researchers from 14 UCC schools and departments and incorporates a number environmental research centres including the Centre for Marine and Renewable Energy (MaREI), Centre for Research on Atmospheric Chemistry (CRAC), Aquaculture and Fisheries Development Centre (AFDC), the UN Environment GEMS/Water Capacity Development Centre, Centre of Law and Environment, and Cleaner Production and Promotion Unit.

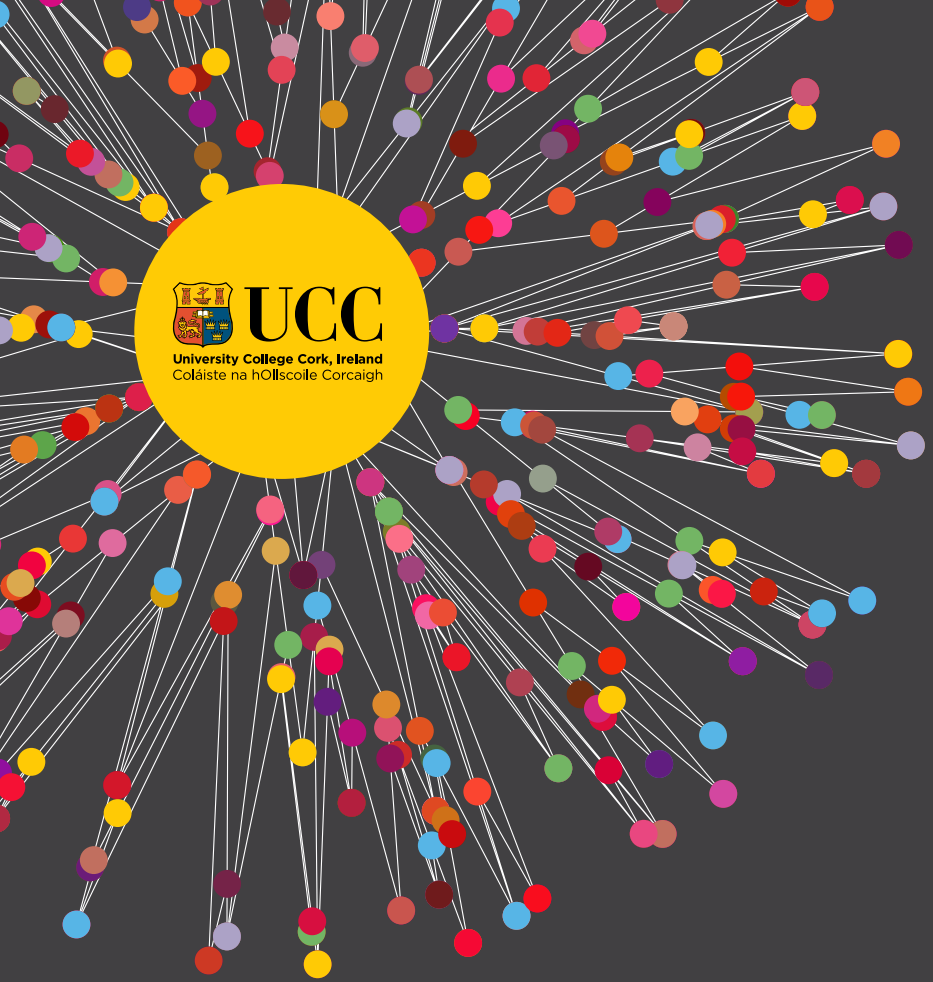
The Institute fosters a comprehensive approach to environmental research that ranges from "blue skies" research aimed at new knowledge creation, to applied research designed to generate solutions to specific environmental challenges through to contract-based work for industry and Government bodies. The ERI has some unique and outstanding physical space for conducting environmental research which includes offices, laboratories, workshops and incubation suites for industry, as well as the Beaufort Building in Ringaskiddy which houses Ireland's National Ocean Test Facility. This state-of-the-art wave tank and electrical rigging allows for scaled testing in a controlled environment across the offshore renewable energy sector.

ERI has a multidisciplinary approach to research. It works with all stakeholders trans-disciplinary at UCC but also public, NGO, Local Authority, and Private Corporations. ERI is unique in that it brings experts and world leaders together across disciplines in order to add value. It is delivering on its mission which is to generate new research knowledge for the understanding and protection of our natural environment, and develop technologies, tools, services and policy knowledge to facilitate a transformation to a zero carbon, resource efficient, and sustainable society. In doing so it continues to provide clear national leadership, while enhancing its renowned international reputation.

For more information please refer to **www.ucc.ie/eri/**

These, and other case studies which reflect the depth and breadth of UCC's impact, are discussed in more detail in the full Economic and Societal Impact Report.





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