

# Driving Positive Change

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Reflections on impact and contribution



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**£1.7bn**

GROSS VALUE  
ADDED GENERATED  
ACROSS THE UK  
BY THE UNIVERSITY  
AND SURREY  
RESEARCH PARK

**17,300**

JOBS SUPPORTED  
ACROSS THE UK  
BY THE UNIVERSITY  
AND SURREY  
RESEARCH PARK

**4**

ARTS VENUES  
SHOWCASING 81  
PERFORMANCES

**5m**

VISITORS TO  
SURREY SPORTS  
PARK SINCE 2010

**£50,000**

RAISED FOR  
CHARITY BY THE  
STUDENTS' UNION'S  
RAISING AND  
GIVING SOCIETY

**2,300+**

INDUSTRY  
PARTNERS,  
INCLUDING 126  
INTERNATIONAL  
ORGANISATIONS

**£4.5m**

FOR BURSARIES  
AND SCHOLARSHIPS  
SUPPORTING  
STUDENTS WHO  
MIGHT NOT  
OTHERWISE BE  
ABLE TO STUDY AT  
SURREY

**8,495**

BENEFICIARIES  
OF WIDENING  
PARTICIPATION  
AND OUTREACH  
ACTIVITIES

**12,167**

FULL-TIME  
STUDENTS

**120**

COUNTRIES  
REPRESENTED IN  
OUR STUDENT  
POPULATION

2014-15





# Foreword

## from the Vice-Chancellor

Our central mission in higher education is to educate and equip students with the skills and confidence to become future leaders, driving positive change in a world facing increasing challenges.

The University of Surrey is one of the UK's top universities. We believe that to be a leading university means never standing still. 2015 saw the launch of our world-leading 5G Innovation Centre, which houses Europe's first research hub dedicated to next generation communications and digital technologies, and our School of Veterinary Medicine, one of only eight established in the UK. Named as the University of the Year 2016 by *The Times and Sunday Times Good University Guide 2016* and achieving a top five ranking in the *Guardian University Guide 2017*, Surrey has a world-class profile with an outstanding reputation in teaching and research.

This year, we celebrate the 125th anniversary of the founding of Battersea Polytechnic Institute and 50 years as the University of Surrey. While the institution has evolved significantly in that time, we have an unwavering commitment to first-rate academic activity and real-world impact.

The University's economic and social contribution to wider society and the community around us is substantial. We achieve this through our scholarship and community outreach. We have invested in high-quality student accommodation and support services, cutting-edge facilities for learning and teaching, and major research and industry partnerships both within the UK and across the globe. Today, we recognise the vitality of our relationship with our local community, and we encourage our students and staff to immerse themselves in the opportunities Guildford and Surrey has to offer.

Since 2013, the University has worked with independent professionals to carry out Economic Impact assessments of the University's contribution to the national and local economies. We now widen our focus to assess the broader social impact of the University. Our intent is to measure and manage our impacts, positive and negative, such that we grow our overall contribution to society.

**Professor G Q Max Lu**  
President and Vice-Chancellor



LOCAL



NATIONAL



INTERNATIONAL



# Measuring up

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In this section of the report we assess our economic, cultural and social impact on society at a local, national and international level. The intent is to measure these impacts on an annual comparative basis to monitor trends and understand the full effect that we have on our society.

## FINANCES AND PHILANTHROPY



### Our finances

The University is a not-for-profit organisation with charitable status. Our income is generated from a variety of sources including student tuition fees, research funding, government funding grants and income from revenue producing assets such as Surrey Research Park.

2014-15 saw the University achieving its highest ever undergraduate intake, with tuition fee income exceeding £100m for the first time. Research income was also at record levels. Total income for 2014-15 was £240.7m, a ten per cent increase on the previous year.

Our funds are invested across the University, both directly in academic delivery and innovative research projects, and also in maintaining and improving the facilities and support services we provide for our students and staff. In order to deliver sustainable growth at Surrey we need to generate a surplus each year. This provides essential funds for reinvestment in the physical estate, for developing our academic activities and for enhancing the services we offer to students, staff and the local community.

### Funding Summary 2014-15



# £240.7m

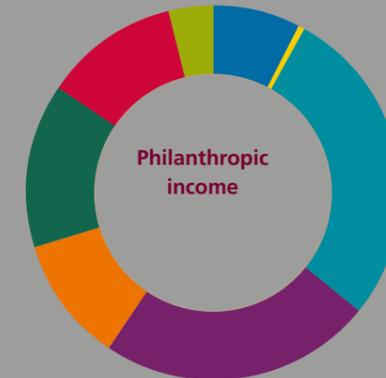
THE UNIVERSITY'S TOTAL INCOME FOR 2014-15

### The role of philanthropic income

Gifts of money, equipment and time play a valuable and important role in helping to increase our impact both locally and internationally.

Philanthropic income, in terms of funds raised, grew to £3.5m in 2014-15 and the number of donors increased by 24 per cent to 1,451. The generosity of our alumni and supporters directly helps to improve our teaching and learning, broaden and deepen our research and enables us to support our most disadvantaged students in coming to Surrey and achieving success in their studies.

### The impact of philanthropy 2014-15



# £3,515,428

PHILANTHROPIC INCOME RAISED 8% INCREASE

Annual Fund, including Battersea Fund  
**£184,602**

Crowdfunding projects  
**£15,029**

Faculty of Engineering and Physical Sciences  
**£666,333**

Faculty of Health and Medical Sciences (including School of Veterinary Medicine)  
**£563,852**

Faculty of Arts and Human Sciences (including GSA)  
**£261,227**

Faculty of Business, Economics and Law  
**£342,025**

Surrey Sports Park, Library, International Relations and other projects  
**£278,509**

Legacy incomes/pledges  
**£91,749**

**Total received £2,403,326**

**Total raised £3,515,428**

# 1,451

DONORS 24% INCREASE

### Impact through capital investment

Capital investments make a significant impact at Surrey and enable us to grow as a top ranking institution. We are continuing to invest in new buildings, equipment and other campus improvements to increase our capacity for research and teaching and to ensure that we provide the facilities needed to deliver a first-class student experience.

In 2015, we opened our new £45m School of Veterinary Medicine on the University's Manor Park campus and launched the £70m 5G Innovation Centre programme on the Stag Hill campus. Other major capital developments since 2000 have included:

# £16m

ON THE NEW LIBRARY AND LEARNING CENTRE

# £130m

ON STUDENT ACCOMMODATION (NEW BUILDINGS AND REFURBISHMENT OF EXISTING ACCOMMODATION)

# £36m

ON SURREY SPORTS PARK

# £12m

ON THE NEW GUILDFORD SCHOOL OF ACTING BUILDING AND IVY ARTS CENTRE

## OUR COMMUNITY

### Our staff

We employ over 2,600 people, 92 per cent of whom are full-time members of staff<sup>1</sup>. Over a third of our employees live in Guildford and another third live in the county of Surrey.

### Our students

Students have an impact on the economy in a number of ways. They provide high quality, part-time labour for local shops and businesses and our student volunteers provide a valuable resource for local charities and organisations.

In the 2014-15 academic year, we had 14,094 full-time and part-time students<sup>2</sup>. The vast majority of these students (86 per cent) were studying full-time.

Our student population is diverse and we have a significant number of international students. In 2014-15 there were almost 5,000 full-time and part-time EU and international students, making up 36 per cent of our student body.

We estimate that through student expenditure, part-time work and the spending of people visiting students, Surrey students supported economic activity in 2014-15 with an estimated value of £134.8 m GVA and 3,210 jobs across the UK, equivalent to eight per cent of the overall impact of the University.

### Our global community

Internationalisation permeates all that we do at Surrey, contributing significantly to our mission to solve global challenges, lead research and innovation, and fuel generations of students with a spirit of curiosity and a desire to improve the world we live in.

With students from over 120 countries, we are proud to be one of the most culturally diverse universities in the UK. During the 2014-15 academic year 36 per cent of students at Surrey came from outside the UK. This demonstrates both the diversity of our student body and the international reputation the University enjoys.

We are proudly partnered with 126 international universities and organisations overseas, and over 50 per cent of our research outputs feature an international co-author. With partnerships and collaborations across the world, our approach to research is truly global.

**120**

COUNTRIES REPRESENTED BY OUR STUDENT COMMUNITY

**126**

INTERNATIONAL PARTNERS

<sup>1</sup>Data from July 2015

<sup>2</sup>Source: BiGGAR Economics Economic Impact of the University of Surrey 2014-15. Student intake increased in the academic year 2015-16 and these figures will inform future reports.



### OUR STUDENTS



**9,888**

UNDERGRADUATE STUDENTS

**4,206**

POSTGRADUATE STUDENTS

**12,167**

FULL-TIME STUDENTS

**36%**

STUDENTS AT SURREY FROM OUTSIDE THE UK

### OUR STAFF



**35%**

LIVE IN GUILDFORD

**31%**

LIVE IN SURREY

**32%**

LIVE IN THE REST OF THE UK

**2%**

LIVE OUTSIDE OF THE UK

### OUR ALUMNI

**7,000+**

ALUMNI LIVE IN THE GUILDFORD AREA

**38%**

OF ALUMNI LIVE IN THE REST OF THE UK

**28%**

OF ALUMNI LIVE IN THE SOUTH EAST OF THE UK

**34%**

OF ALUMNI LIVE ACROSS THE REST OF THE WORLD (172 COUNTRIES)

## A PLACE TO LIVE

### Accommodation

As residents of Guildford, our student population bring numerous benefits to the community and many of our alumni continue to live and work in the local area after they graduate.

Today, the University offers proportionately more student accommodation on site than 95 per cent of universities across the UK. We estimate there are around 10,700 full-time students studying on our campus who may require accommodation in Guildford<sup>3</sup>. Over 5,100 of those students live on campus in University accommodation. In the last ten years we have invested nearly £80m in new student accommodation on Manor Park with a similar amount being invested in an additional 1,150 units over the next three years. A shared goal for the Borough of Guildford and its academic institutions should be to attract more purpose built student accommodation providers to the town, providing competition, choice and supply.

Our remaining students live off campus both locally and further afield in a number of different types of accommodation including parental/guardian homes, their own residences, and other private rented accommodation.

Whilst the University and its students bring much benefit to the town, we know that the number of students resident in Guildford has a significant impact on the local community, particularly on housing and transport.

The next section of this report outlines some of the ways in which we are monitoring and addressing the effects of our institution in these areas.

**£80m**

INVESTED IN NEW STUDENT ACCOMMODATION ON MANOR PARK

**5,100**

STUDENTS LIVING IN CAMPUS ACCOMMODATION

**10,700**

APPROXIMATE NUMBER OF SURREY STUDENTS REQUIRING ACCOMMODATION IN GUILDFORD

<sup>3</sup> Figure estimated for the 2014-15 academic year. This is likely to be a maximum number as it does not allow for groups such as students living in their parents' or their own homes in Guildford and students living outside Guildford and commuting in.

### Sustainable impact

Improving sustainability is one of our key strategic objectives and we are committed to embedding it across our day-to-day operations, teaching and research. It is a major consideration in all new builds and refurbishment projects, with recent buildings incorporating low carbon technologies such as electricity generating photo voltaic panels and a biomass boiler. The achievements of our Sustainability team have also been helping us to become more environmentally responsible as an institution.

We have reduced our CO<sub>2</sub> emissions by 8,300 tonnes in total or 1,700 tonnes per annum since the start of our investment programme. We are investing in a second district heating network which will reduce annual carbon emissions by a further 5,600 tonnes per annum.

We continue to invest in behaviour-change campaigns that translate into measurable energy, water and waste savings. We also recognise that sustainability programmes can deliver a number of less tangible benefits. Wellbeing campaigns, such as our participation in the cycle to work scheme, have had a positive impact on staff sickness and absence levels.

Examples of sustainability initiatives in 2015 include:

- £500k investment in new projects designed to lower lifetime reductions in carbon dioxide emissions by 8,300 tonnes
- £20,000 energy savings through The NUS Student Switch Off campaign.
- Second most subscribed UK university to the Switch Off campaign with more than one third of first-year students participating
- Waste to landfill reduced to zero and a 98% recycling rate

### How we travel

We actively monitor the way our staff and students travel to and from the University. Through University-wide campaigns and initiatives we seek to increase the number of people walking, cycling and using public transport to our campus. We also measure and manage the number of car trips to and from campus during peak times, ensuring that the total increase of trips since 1999 is less than five per cent.

**7.5%**

INCREASE IN THE NUMBER OF PEOPLE TRAVELLING TO AND FROM UNIVERSITY BY BUS (2015)

**4,905**

PEDESTRIANS ON THE STAG HILL CAMPUS (2014\*)

**673**

CYCLISTS ON THE STAG HILL CAMPUS (2014\*)

\*data snapshot June 2014

# Living together

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Here we highlight our commitment to monitoring and addressing the effects of our institution in the areas of housing and transport. We also explore how our social and cultural impact is heightened by the activities of Surrey Sports Park, the Library and Learning Centre and Archives and our varied arts and events programmes.



# AN INTEGRATED COMMUNITY

## Housing

In conjunction with our Students' Union, we run a number of initiatives to help our students integrate with and contribute to their local communities.

Recent Students' Union initiatives include:

- **Welcome Home booklet and Know Your Neighbour Campaign**  
Given to students living in rented accommodation, the Welcome Home booklet aims to integrate students into the local community, give them information about living off campus and encourage them to get to know their neighbours
- **Community Representatives**  
The Students' Union Community Officers act as an arm of communication between students living off campus, and the Union's community zone, helping them deal with problems arising in their local area

Recent University activities include:

- **Landlord Accreditation Scheme**  
Launched in 2015, this scheme encourages private sector landlords and letting agents to sign up to enhanced standards of tenancy management. The scheme includes a number of student specific factors and social impact measures and is supported and partly financed by the University
- **Disciplinary procedures**  
The University's Security team and Campus Police Officer (PC Michael Knight) work closely together to deal with complaints and act on problems
- **Head Lease Scheme**  
The professional management of privately owned houses to ensure high quality tenancies and minimum impact on local neighbourhood (38 properties/137 bedrooms currently managed.)
- **Expansion**  
Plans are now being prepared to extend and enhance the current head lease scheme to ensure that the standards of pastoral care and tenancy management currently in place for campus based accommodation are extended to the private sector. This will result in significant reductions in adverse social impact as student related housing complaints will be reduced and dealt with more effectively

## Transport investments and initiatives

Since arriving in Guildford we have made significant investments in local transport infrastructure and services.

We have invested heavily in the road network around the campus, and in improving pedestrian and cycling facilities and safety for the benefit of the whole community. Our Travel Plan helps us to understand the travel habits of our staff, students and visitors so we can monitor our impact on the local traffic network and infrastructure. It also enables us to provide viable and realistic travel choices for our staff, students and the local community. By enabling smarter travel choices we endeavour to reduce congestion, improve the local environment and promote healthier lifestyles.

We estimate that we have invested, directly or indirectly, £10m over a ten year period on local transport initiatives such as:

- Enhancing pedestrian and cycling facilities, helping to improve a modal shift for commuters
- Investing in cycle routes that benefit the whole community and make cycling safer between Park Barn and employment areas to the north of the town
- Creating and subsidising six local bus services in the Guildford Area, providing quick and easy links between all University sites, the Hospital, Guildford train station and Guildford town centre

Today, we recognise the vitality of our relationship with our local community, and we encourage our students and staff to immerse themselves in the opportunities Guildford and Surrey has to offer.

Professor G Q Max Lu  
President and Vice-Chancellor

### 'ZIP IT' CAMPAIGN

We ran our first 'zip it' campaign in collaboration with our Surrey Police Higher Education Liaison Officer, PC Michael Knight, during Freshers' Week 2015. The campaign encouraged students to be alert to and respect local residents by keeping the noise down and avoiding antisocial behaviour



### PARTNERSHIP WITH THE GUILDFORD BIKE PROJECT

The Guildford Bike Project is a social enterprise run by volunteers and job seekers who repair unwanted bicycles for re-sale at very reasonable prices. The University supports the project by donating bikes and parts that have been abandoned on campus and by encouraging as many staff and students as possible to support the project by buying or hiring bikes.



### NIGHT BUS

We recognise both the financial benefit students bring to the Guildford Night Economy and the need to minimise the impact of any adverse behaviour by students in the local community. In partnership with Arriva we launched a Night Bus Service in 2014, providing students and the local public with a safe, economical way to get home after a night out. The bus service and on-board security ensure the safety of all passengers and was funded by the University in 2014-15. This popular service continues to be operated two nights a week by Arriva.



# HEALTHY LIVING



### Surrey Sports Park

Surrey Sports Park is one of Europe's premier sites for sport, health, wellbeing and leisure. It opened in 2010 and welcomed an estimated five million visitors through its doors in the first five years.

The Sports Park provides world class sports facilities, activities and events for University students, staff, elite teams, athletes and the local community.

Elite sports teams and athletes training at Surrey Sports Park:

- Harlequins Rugby Union
- Surrey Storm Netball
- Surrey Scorchers Basketball
- Surrey Smashers Badminton
- Guildford City Swimming Club

High profile events held at Surrey Sports Park have included the 2010 Women's Rugby World Cup and the inaugural Paralympics GB SportsFest. The Park was also the Official Training Base for the Rugby World Cup 2015 and the London 2012 Olympic and Paralympic Games Training Base, hosting 17 nations for training camps.

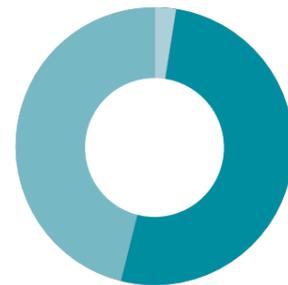
Working with schools and community groups is an important part of our activity at the Sports Park, offering people of all ages the opportunity to try different sports and encouraging them to get active. We also work with local businesses to provide children with special educational needs the opportunity to try new sports. In the academic year of 2014-2015 Surrey Sports Park worked with 102 schools and 5,747 school children.

Surrey Sports Park offers a number of services to schools including:

- Multi-Sport days
- Swimming lessons
- Teacher Training
- Surrey Storm roadshows and workshops
- Surrey Human Performance Institute workshops

We also work closely with partner organisations to provide sporting activities and facilities for school events. Our partners include:

- Active Surrey (Surrey Youth Games, Best Practice Forum)
- England Lacrosse
- AOC Association of Colleges in Sport



### SURREY SPORTS PARK MEMBERSHIP

- 51.5% STUDENTS
- 46% PUBLIC
- 2.5% STAFF

### SPORTSABILITY DAY

Surrey Sports Park hosted the fourth Sportsability Day in April 2016, supported by Pennington Manches LLP. Sportsability aims to increase community participation in sport across Guildford and the surrounding areas. Four local schools who accommodate students with special needs were welcomed to Surrey Sports Park for a day of trying new sporting activities including lacrosse, walking basketball, football and climbing. They were supported by coaches from Surrey Scorchers and Fulham Football Club.



# 102

SCHOOLS WORKED WITH THE SPORTS PARK IN 2014-15

# 5,747

SCHOOL CHILDREN PARTICIPATED IN SPORTS PARK ACTIVITIES IN 2014-15

# £36m

INVESTED BY THE UNIVERSITY IN THE SPORTS PARK

💡 The Sportsability day is an incredibly important day for our students. The opportunity to try new sports builds their confidence and self-belief. It's fantastic to be supported by the Pennington Manches team too and there is a great feel-good factor around the day. ❤️

**Mark Packham**  
Sports Instructor at The Abbey School, Farnham

## ARTS AND CULTURE

### Heritage and culture

At Surrey, we are always keen to engage with members of the community both on campus and at external public events. From holding lunchtime recitals that are open to the public, to supporting large-scale events such as the Guildford Book Festival and the Guildford International Music Festival, the University of Surrey is at the heart of a range of cultural activities in the local community.

### Events

The University organises and participates in a number of social, community and cultural events throughout the year which are open to the public. We also take part in events in the local and surrounding area including the Surrey County Show and the Guildford Farmers' market.

**3,000+**

PEOPLE ATTENDED  
FREE PUBLIC  
LECTURES

**4,400+**

PEOPLE ATTENDED  
OTHER FREE  
EVENTS

**5,100+**

PEOPLE  
ATTENDED FREE  
PERFORMANCE  
ARTS EVENTS

**25,000**

PEOPLE ATTENDED  
PUBLIC EVENTS

In the 2014-15 academic year around 25,000 people were recorded as having engaged with our formal public events programme including free and chargeable public lectures, performance arts, exhibitions and other community events. This excludes Open Days, Students' Union activity, simple trading activity, sporting events and commercially operated conferences.

To sign up for a regular newsletter via email covering key news and public events taking place at the University of Surrey and Surrey Sports Park, please visit: [surrey.ac.uk/tellmemore](http://surrey.ac.uk/tellmemore)

### Arts

Our year-round public programme includes small-mid scale touring theatre and contemporary dance, professional concerts and exhibitions, research seminars, lectures and conferences. This runs alongside a busy programme of student musical theatre productions, concerts, and theatre and dance presentations.

The internationally renowned conservatoire, Guildford School of Acting (GSA), merged with the University of Surrey in 2008. Their purpose-built building on the Stag Hill campus provides facilities for student tuition and vocational training, as well as hosting the GSA Saturday School and Summer School attended by over 500 students of all ages.

Regular tours of our campus are arranged to showcase highlights from across the University community, including the grounds and sculpture collection. We also support the Annual Architecture Lecture in collaboration with Guildford Society, and the Surrey Sculpture Society's series of lectures.

We are actively involved in the local arts community with representatives on the committee of Guildford Arts. We also support the Yvonne Arnaud Theatre and the University is a partner in the Guildford International Music Festival and the Guildford Book Festival, with several events held on campus.

Over 50 per cent of attendees across all of our arts events (2014-15) were members of the public.

**4**

VENUES (IVY ARTS CENTRE, GSA, LEWIS ELTON GALLERY, PERFORMING ARTS TECHNOLOGY STUDIOS)

**81**

PERFORMANCES

**19**

LEARNING EVENTS

**11**

EXHIBITIONS OVER 250 DAYS

**70**

EXTERNAL PROFESSIONAL ARTISTS ENGAGED

### GUILDFORD INTERNATIONAL MUSIC FESTIVAL

The Guildford International Music Festival, a biannual festival part-sponsored by the University and co-ordinated by the School of Arts, features around 50 events in venues across campus and the local area. The Festival has hosted world-class visiting artists and performances. The international line up is accompanied by performances from the University Chamber Orchestra, University Chamber Choir, the University Big Band, GSA Singers and others.

With many sell out events including a world premiere and a UK premiere, over 3,000 people attended the Festival in 2015 plus many more at partnership events and free events in town.



**51%**

PUBLIC ATTENDEES

**41%**

STUDENT ATTENDEES

**8%**

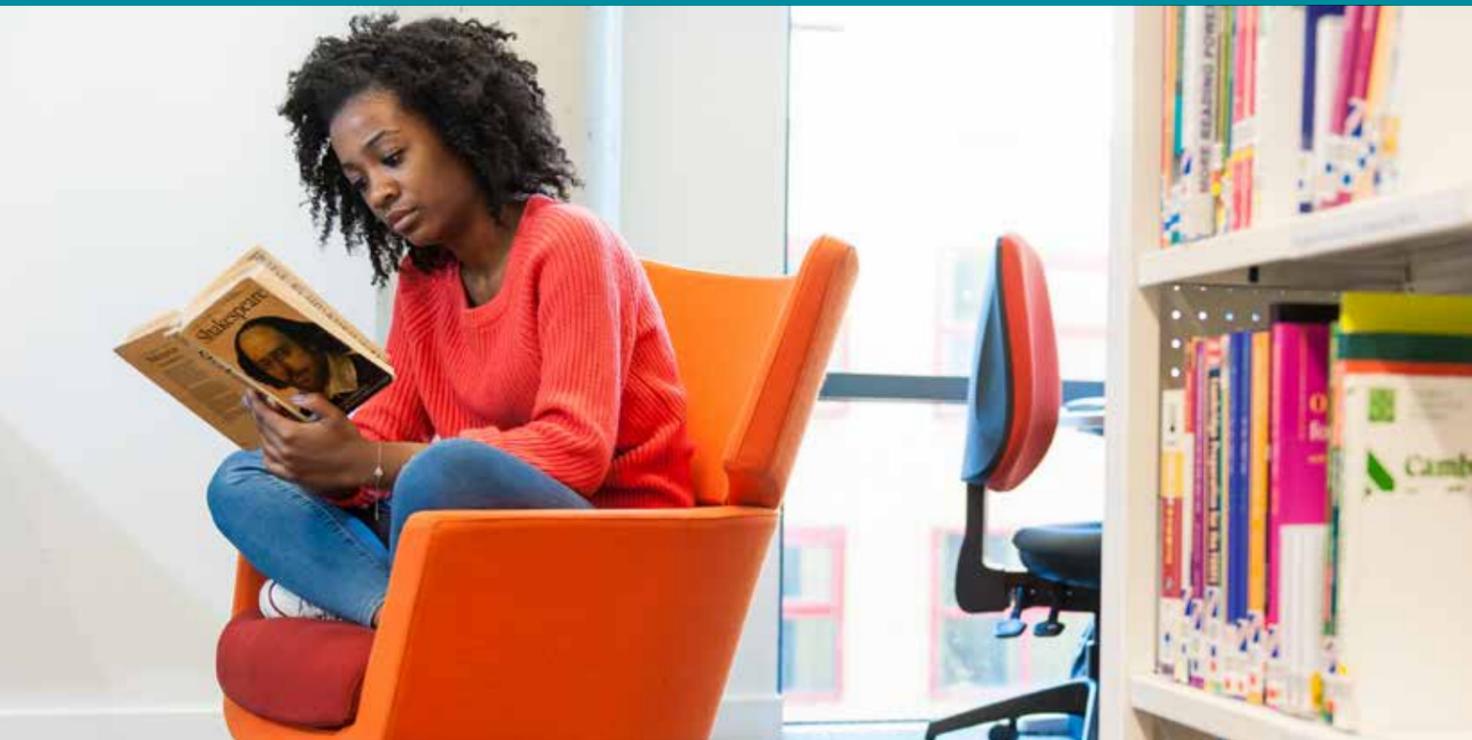
STAFF ATTENDEES

IVY ARTS CENTRE

### JIM MEETS...

The Jim Meets... Series are high profile events for staff, students and members of the general public that prompt thought and debate about the key issues that matter to society. Professor Jim Al-Khalili, one of the leading academics at the University, interviews guests who have included Lord Robert Winston, Sir David Attenborough, Professor Brian Cox, Professor Maggie-Aderin Pockock, Professor Noel Fitzpatrick and Ruby Wax.





## A chat, a coffee, a think... George Edwards meeting space

Sir George Edwards (1908-2003) was an aircraft designer and industrialist who played a leading role in the creation of Concorde. As Pro-Chancellor (1964-1979) he also had a great influence on the University which is still felt today. We think he'd have liked this space.

### Library & Learning Centre

We provide free public access to our Library and Learning Centre through external library memberships. External membership of our library has increased steadily over the last few years and we have nearly 3,000 public members (2015). Membership is free of charge and is available as a day pass, or a renewable three to six month pass.

Although free membership is on a reference-only basis, borrowing rights are also available to individuals, corporate organisations and schools for a membership fee.

Both our free and pay-for memberships also include access to our printed collections for reference use and access to some online resources.

In addition to membership services we also run activities for schools and facilitate school library visits. These are in addition to activities run by our Widening Participation and Outreach Team.

### Archives & Special Collections

A vital research resource, our archives hold over 60 collections of archives and rare books including the works of Ernest Howard Shepard. We are also home to the National Resource Centre for Dance (NRCD). This collection explores the connections between dance, theatre studies, industry, psychology and movement therapy, presenting the personal papers of pioneers in the performing arts.

The rich institutional collections of Battersea Polytechnic and the University of Surrey held within our archive delve into papers and correspondence from key decision makers and reveal insightful details about Battersea students and staff. Resource materials preserved and presented within our archive include: manuscripts; letters; diaries; photographs; artworks; periodicals; rare books; ephemera; music scores; dance notation scores; scrapbooks; costumes; objects; film; music; interviews and business papers. These are used both within the University of Surrey and worldwide to cultivate research, facilitated by our expert archivists and online archive catalogue.

9

SCHOOL MEMBERS  
(2014-15)

6

CORPORATE  
MEMBERS  
(2014-15)

2,835

INDIVIDUAL (NON-  
UNIVERSITY) MEMBERS  
(2014-15)

71%

INCREASE IN THE NUMBER OF  
EXTERNAL RESEARCHER VISITS TO THE  
ARCHIVES AND SPECIAL COLLECTIONS  
BETWEEN 2013-14 AND 2014-15

217

EXTERNAL RESEARCHER VISITS  
TO THE ARCHIVES AND SPECIAL  
COLLECTIONS SINCE 2012



# Bringing Value

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The value brought by the University, locally, nationally and internationally, is both economic and social in nature. Our value in terms of economic impact is generated by a variety of contributions including the core activities of the University, but also student expenditure and part-time work, enterprise and innovation activities and Surrey Sports Park.

# ECONOMIC IMPACT



### Bringing economic value

We measure our economic contribution through Gross Value Added (GVA) assessments. To evaluate our economic impact an annual assessment is made by independent consultants, BiGGAR Economics, of activities across the University. Their reports provide an important tool for understanding the economic contribution of the University as a whole.

### Our economic impact

In the academic year 2014-15 the University of Surrey and its Research Park generated £1.7 bn Gross Value Added (GVA) and supported 17,312 jobs across the UK.

Over the past two years the increase in the University and its Research Park's contribution measured in terms of GVA has been an average of 8.8 per cent per annum.

The 2014-15 study also found evidence that the University and Research Park generate £6.90 GVA impact across the UK for every £1 received in income and that for each £1 the University generated as a result of its direct operations it supported £8.60 GVA impact across the UK.

### Employment

Companies on Surrey Research Park employ around 4,000 people, a significant proportion of which are highly technical jobs. Employees are recruited from within Surrey and further afield with some coming from the pool of graduates and postgraduates from our courses.

In total, the University and Surrey Research Park directly or indirectly supported 17,312 jobs, including 12,998 in the county of Surrey and 10,644 in the borough of Guildford in the year 2014-15.

We support seven jobs elsewhere in the UK economy for each direct job at the University.

**£1.7bn**

GROSS VALUE ADDED GENERATED ACROSS THE UK BY THE UNIVERSITY AND SURREY RESEARCH PARK

### Technology Transfer and spin out companies

Technology transfer and spin-out companies from the University are also key sources for employment and economic development. On average, we generate one spin-out company each year, and in 2015 University spin-out companies and staff start-ups supported 631 jobs. The total turnover of University spin-outs for 2014-15 was over £110m.

In addition to generating employment, our spin-outs develop new technologies. Over the last five years there have been 81 patents granted relating to 61 new individual technologies or discoveries.

### Supporting a high-growth economy

We have played an important role in transforming Surrey into a successful knowledge-based economy. In 2014-15, the BiGGAR Economic Impact report estimated the economic impact of our activity across Surrey Research Park, the Surrey 100 Angel Investment Club and our SetSquared Incubator Centre to be £583.4m GVA, supporting 6,595 jobs in the UK. Of this, £582.3m GVA and around 6,185 jobs were estimated to be in Surrey and £516.9m GVA and 5,279 jobs in Guildford. The report also noted significant unquantifiable impacts, such as benefits to the local community, diversification of the local economy, and contributions to knowledge transfer.

**17,000**

JOBS SUPPORTED ACROSS THE UK BY THE UNIVERSITY AND SURREY RESEARCH PARK

**£110m**

TOTAL TURNOVER OF UNIVERSITY SPIN-OUTS FOR 2014-15

**631**

JOBS IN UNIVERSITY SPIN-OUTS AND STAFF START-UPS

**20**

UNIVERSITY SPIN-OUTS

**27**

GRADUATE AND STAFF START-UPS

## SURREY RESEARCH PARK

Founded in 1985, Surrey Research Park is one of the few in the UK to be owned and operated by the University that founded it. It is also one of the most successful science and technology parks in Europe. As one of the eight original founders of the UK Science Park Association, the model for our Research Park has been used across the globe, with particular influence in developing countries.

Supporting local businesses is at the heart of our vision for Surrey Research Park. The Park enables smart specialisation and entrepreneurial discoveries through our provision of physical infrastructure suited to the needs of a variety of technology companies, from small start-ups to large scale operations. We also support the creation of local employment in high-tech industries, and by creating industry specific employment we are helping to meet the demands of a changing world.

Surrey Research Park has been praised by the UK Science Park Association for its increasingly important role in the regional economy. Our drive to grow innovation delivers over £500m of economic activity to the region annually, and an estimated 4,000 jobs have been created in the area as a result of the companies that have grown up on the site and graduated to take other space locally.

Companies on Surrey Research Park push forward the frontiers of science, engineering and technology. Their innovations have a real world impact and the potential to benefit global society.

**30**

YEARS OF IMPACT AT SURREY RESEARCH PARK

**4,000**

THE NUMBER OF JOBS CREATED IN THE LOCAL AREA BY SURREY RESEARCH PARK

**100+**

THE NUMBER OF COMPANIES HOUSED ON SURREY RESEARCH PARK

**£100m**

CONTRIBUTED TO UNIVERSITY FINANCES BY SURREY RESEARCH PARK SINCE INCEPTION

**£583m**

THE ECONOMIC IMPACT OF SURREY RESEARCH PARK, INCUBATORS AND 100 CLUB (2014-15)

### SURREY SATELLITE TECHNOLOGY LTD (SSTL)

Located on the Surrey Research Park, Surrey Satellite Technology Ltd (SSTL) has grown from a small University spin-out company to become the world's premier provider of operational and commercial satellite programmes. Professor Sir Martin Sweeting founded SSTL in 1985 to enable the building of two small experimental microsatellites; since then the company has launched 47 small satellites and now employs 500 staff. Acquired by Airbus Defence and Space in 2009, SSTL continues to work closely with the University's Surrey Space Centre to deliver innovations in areas such as space debris and earth observation.



### SATRO SUMMER RESEARCH PLACEMENTS AT THE UNIVERSITY OF SURREY

Surrey Research Park tenant SATRO, an educational charity and social enterprise, has partnered with the University of Surrey since 2012 for their Extended Work-Placement Scheme. Over four weeks, first year A-Level students have worked with academics from our Physics and Nutritional Sciences Departments and our Advanced Technology Institute on live research projects. We have hosted 13 students from Surrey schools and colleges and in 2016 we are taking on another eight students from Surrey and Sussex.

Henry Calver, from Woking College, had his placement with our Advanced Technology Institute (ATI) with Dr Radu Sporea, investigating the properties of semiconductors.

💡 I thoroughly enjoyed my time at the ATI, the project taught me a lot about semiconductor physics which I am very interested by as well as giving me an insight into what academic research is like, something I have ambitions to pursue in the future. I am very grateful to SATRO and Dr Sporea for the opportunity to carry out this project. 💡

**Henry Calver**  
SATRO research placement student, 2015

<sup>1</sup>With and without HEP ownership  
<sup>2</sup>Data snapshot from August 2015

# BUSINESS INNOVATION



♥ UK economic growth and job creation depend on a thriving small business sector. This can only be achieved by harnessing capital, experience, incubation support and ambitious entrepreneurs. At Surrey 100 we combine all of these characteristics and work closely with an outstanding University to give fast growth businesses the best chance of success. ♥

Michael Queen  
Surrey 100 Club President

SURREY  
INCUBATION  
SINCE 2002

165+

BUSINESSES  
SUPPORTED AND  
ACCELERATED

500+

JOBS CREATED

£126m

INVESTMENT  
RAISED BY  
MEMBER  
COMPANIES

OVER

90%

OF INCUBATION  
SUPPORTED  
BUSINESSES  
STILL TRADING  
AFTER THREE  
YEARS

### Supporting innovation

At Surrey, we recognise the value of building strategic partnerships with large corporations, SMEs and start-ups to promote the sharing of ideas, networking and collaboration.

We proactively promote business engagement and knowledge sharing in a range of different ways from the thought-leadership and game-changing research undertaken by academics at the Surrey Business School through to participating in government supported programmes such as Knowledge Transfer Partnerships, with a wide range of external engagement in between. Our approach helps us to develop strong and deep connections between academia and the wider business community and to use the knowledge, technology and skills available within the University to enhance industry competitiveness, productivity and performance.

### SETsquared Surrey

We have been incubating technology businesses here at Surrey since 2002 as a founding partner of SETsquared, the Enterprise Partnership between the Universities of Surrey, Southampton, Exeter, Bath and Bristol. SETsquared is ranked Globally No 1 in the University Business Incubator (UBI) Index and through it we provide world-class business support services to hi-tech start-ups. Surrey's SETsquared Incubation Centre, located on the Surrey Research Park, gives start-ups in the region the vital support they need to flourish in a dynamic environment.

At the incubator we are able to offer exceptional, in-depth business support to entrepreneurs and founders of tech-based companies seeking to achieve rapid, sustainable growth. Over 90 per cent of our incubator companies are still trading after three years.

SURREY 100 CLUB SINCE 2007

£50m+

OF INVESTMENT  
RAISED BY COMPANIES  
WHO HAVE BEEN  
THROUGH THE CLUB

£6.5m+

OF INVESTMENT  
DIRECTLY  
RAISED FROM  
THE CLUB

50%

OF COMPANIES  
PRESENTING AT THE  
CLUB HAVE GONE  
ON TO RECEIVE  
INVESTMENT

We help ventures meet the challenges of running a start-up by offering tailored advice and mentoring from our in-house entrepreneurs-in-residence as well as providing a network of experienced business professionals and industry specialists who provide holistic support from product development through customer acquisition, delivery and back-office business management to our members. We are also able to guide Incubator members towards different sources of funding, from SETsquared investment events to the University of Surrey's own angel investment network, the Surrey 100 Club.

### The Surrey 100 Angel Investment Club

Operated by the University, the Surrey 100 Club has been successfully helping businesses raise angel investment since 2007. The Club helps start-ups seek angel funding and gives potential investors access to some of the highest quality ventures in the UK today.

Companies who have presented to the Surrey 100 Club have gone on to raise over £50m either from the Club itself or from other investment opportunities. The Club is a unique catalyst for venture growth as it is able to leverage the University of Surrey's wealth of resources and its contacts in the local entrepreneurial and investment community. Importantly, it enables Surrey 100 Club members to take an active role in tomorrow's success stories, helping to boost the region's economy.

### Surrey Clinical Research Centre

Surrey Clinical Research Centre (CRC) facilitates the growth of medical and drug-development research in a range of therapeutic areas. In 2015, Surrey CRC was re-accredited by the Medicines & Healthcare products Regulatory Agency (one of only 16 accredited UK research centres), confirming the high quality and safety of our clinical research.

## GIVING BACK

We see significant social changes being driven by the University across a number of areas. We add value to society through the impact of our research, the engagement and outreach programmes run by the University and the social contributions of staff and students in volunteering roles, charitable giving and on their educational placements around the world. The global social benefits generated by our research activity are also discussed later in this report (see page 42).

### Volunteering

Surrey students and staff are actively involved in our local community, taking part in a wide range of volunteering activities throughout the year.

Our Students' Union Community Zone brings the student community together, integrating them into the local community, and ensuring that there are volunteering opportunities available for all students.

University-wide volunteering and charitable campaigns take place throughout the year with staff, students and societies volunteering and raising donations for charities. Surrey Technology Centre, based on Surrey Research Park, also offers local registered charities free meeting rooms during evenings and weekends.

The University partners with the British Heart Foundation and Guildford Borough Council on a large-scale annual campaign to recycle unwanted items as students move out of their university accommodation. Students and staff from the University donate more than 9,000 bags of unwanted clothes and electrical goods per year. Since 2012, the appeal has raised in excess of £400,000 to fund the British Heart Foundation's life-saving work.

### Staff volunteers

In addition to our student volunteers, teams of University staff have been swapping their desks for a day volunteering with local organisations and charities since 2011.

Organisations we have worked with include:

- The Samaritans in Guildford
- The Mane Chance rescue horse sanctuary in Compton
- Bells Piece, a Leonard Cheshire care home in Farnham
- Clockhouse social centre for older people in Milford
- SeeAbility centre for the blind in Denecroft



### STUDENTS' UNION SOCIETY, SURREY MARROW

Student society Surrey Marrow fundraise on behalf of the Anthony Nolan charity, helping save the lives of people with blood cancer by recruiting people to join the stem cell transplant register.

Since their establishment in 2010 Surrey Marrow have recruited 1,223 people to join the stem cell transplant register. In 2014-15, they ran six fundraising events and eleven recruitment events, inspiring 263 people to sign up as donors.

Surrey Marrow and their team of volunteers hold events on campus and in the local community to raise awareness of blood cancer and stem cell donation. They have also focused events on finding a match for individuals in need. During World Cancer Week they ran a recruitment event at the University as part of the successful worldwide Anthony Nolan #Match4Lara campaign in 2016.

💡 Being a part of Surrey Marrow means volunteering as part of the wonderful Anthony Nolan charity. The feeling when you find out that as a group, you have helped find a match for someone with blood cancer and hopefully saved someone's life, is indescribable. Everyone should have a second chance at life, and Anthony Nolan gives people that chance. 💡

Emily Curtis-Bennett,  
Secretary for the Surrey Marrow Committee 2015-16



💡 The University understands that culture is important if we are to be successful community builders. 💡

Angie Cousins  
Head of Equality and Diversity

3,721

ITEMS OF FOOD DONATED TO THE SALVATION ARMY AND NORTH GUILDFORD FOOD BANK THROUGH THE USSU THROUGH #GETGIVINGFOOD CAMPAIGN 2016

£400K+

RAISED FOR THE BRITISH HEART FOUNDATION BY STAFF AND STUDENTS SINCE 2012

£134K+

RAISED BY STAFF AND STUDENTS FOR SPORT RELIEF SINCE 2006

£50K+

RAISED FOR CHARITY BY SURREY STUDENTS' UNION RAISING AND GIVING SOCIETY IN 2014-15

## PROFESSIONAL TRAINING

### Professional Training and community placements

Professional Training has been an integral part of our undergraduate degrees since 1955, going back to when the University was a polytechnic in London. Our Professional Training placement programme is also one of the largest in the world. We have over 2,300 Professional Training partner organisations that offer placements to our students in the UK and overseas. Many more offer placements to our postgraduate and research students as part of our innovative non-traditional programmes and knowledge-transfer initiatives. Such placements offer a huge boost to our students but they also provide a fresh, talented workforce for local, national and international enterprises across a wide range of sectors.

Our placement students work across a wide range of sectors and organisations including corporate and financial services, hospitality, animal welfare, healthcare, mental health and care services, charities, non-profit organisations, arts charities, government offices and agencies, schools and higher education providers.

# 6,000+

STUDENT PLACEMENTS SINCE 2009-10

💡 I worked here [in Guildford] at the National Centre for Domestic Violence, meeting local people and helping to make a difference to the lives of others. 💡

**Katy Sawyer**  
Law LLB and VP for Community in the Students' Union 2015

Examples of charities and NPOs where our students have worked include:\*

- Cancer Research UK
- Citizen's Advice Bureau
- National Trust (Knole Park)
- Prisoners, Families and Friends Charity Service
- Royal National Lifeboat Institution
- Whale & Dolphin Conservation Society
- Centre for Crime and Justice Studies
- National Centre for Domestic Violence
- Amnesty International

Examples of our Healthcare and Mental Health placement providers include:\*

- Brain Injury Rehabilitation Trust
- Great Ormond Street Hospital NHS in partnership with Institute of Child Health
- Hounslow Addiction Services
- Royal Surrey County Hospital NHS Foundation Trust
- West London Mental Health NHS Trust Broadmoor Hospital

Examples of Arts Charities where our students have worked include:\*

- London Symphony Orchestra
- Surrey Arts
- The Royal National Theatre
- English National Ballet
- English National Opera
- European Union Youth Orchestra

Examples of government departments, agencies and services where our students have worked include:\*

- Surrey County Council
- Department of Energy and Climate Change
- HM Treasury
- Home Office
- Public Health England
- Surrey Police
- The Metropolitan Police
- Foreign and Commonwealth Office

\*2015-16 placements

### PROFESSIONAL TRAINING PLACEMENTS 2015-2016



💡 Since my first day working in a hospital I realised nursing was my calling. I have been in awe of the colleagues I have worked alongside, learning our teams' weaknesses and strengths, and adapting myself to work well alongside every member.

**Rachel Parsons**  
BSc (Hons) Child Nursing

## WIDENING PARTICIPATION

### Widening Participation and Outreach

Our Department of Widening Participation and Outreach (WP&O) delivers an important dimension of the University's work in raising aspirations and attainment for students from a wide range of backgrounds, particularly those from under-represented groups.

We invest £5 million annually in WP&O activities. With a growing number and range of events and activities taking place we have seen an important increase in the number of schools and students attending these events. However, whilst there has been an increase in the participation rate of 18 year olds from disadvantaged backgrounds entering higher education nationally, there is still a significant difference in the progression rates of those students from more advantaged backgrounds to those from disadvantaged backgrounds entering higher education. Our task is not yet complete.

### Inclusivity

2015 saw the launch of our new Equality, Diversity and Inclusion Strategy (2015-17), highlighting our innovative approach to promoting equality, diversity and inclusion in all of our activities by working with local, national and international communities.

We continue to work in partnership with Employment Works and EmployAbility, delivering a scheme which gives young people with disabilities a chance to gain vital work experience at the University. We also work with local schools and independent young people living in the local area.

💡 We would like to thank the University and its staff for their continued support of the Employment Works scheme and ensuring that students get the most out of their work placements. This has helped them to learn vital new skills for their future employment and demonstrates the University's commitment to the disability agenda, not only at Surrey, but across the wider community 💡

**Angie Cogbill**  
Employment Development Officer at EmployAbility



### EMPLOYMENT WORKS

Over the last five years, the Equality and Diversity team has worked with EmployAbility to provide 51 young people with the opportunity to develop their vocational skills and gain hands on experience in the workplace. 19 of those who have taken part have now secured paid work, four are in long term voluntary work, 14 are in further work placements and twelve are currently at College or will be going to College this year. Placements have taken place in Transaction Support, Human Resources, Catering (including Hillside, Wates House, Starbucks, Lakeside Restaurant and Lakeside Coffee Shop), the Library, Central Distribution, Housekeeping and Porters, Accommodation, Applesed Books & Print, and the Simply Fresh shop on campus.



£4.5m

UNIVERSITY FUNDING FOR BURSARIES AND SCHOLARSHIPS SUPPORTING STUDENTS WHO MIGHT NOT OTHERWISE BE ABLE TO STUDY AT SURREY (2014-15)

8,495

STUDENTS WERE BENEFICIARIES OF WP&O ACTIVITIES IN 2014-15

72

ACTIVITIES WERE ATTENDED BY 345 PARENTS/CARERS

46

WORKED WITH LEAs

536

WORKED WITH TEACHERS/ TEACHING ASSISTANTS



### IN2SURREY

The Department's national scheme, In2Surrey, supports students with the potential to succeed at university but whose circumstances mean they may find it difficult to achieve the required grades.

52 per cent of students who applied for the In2Surrey programme in 2014-15 were offered a place at Surrey for 2015-16 entry.

“ Many changes took place in my A-Level years and I was worried how much the disruption was affecting my attainment. The In2Surrey Scheme was a good way of the University acknowledging my circumstances. I felt as if they really took the time to look at my specific circumstances in detail before making any decisions. Getting into the University of Surrey encouraged me to become a student ambassador and also give back to other prospective students the welcoming environment that I received when I attended an Open Day. I am currently working towards becoming a Clinical Psychologist, and I hope to stay on at the University of Surrey to complete my Masters degree. ”

Zara Ampong-Appiash  
Psychology BSc

### YEAR 8 EXPLORING HIGHER EDUCATION WEEK

The Widening Participation and Outreach Department (WP&O) held its third Year 8 Exploring Higher Education Week for widening participation students in Surrey schools in February 2016. The week was attended by 92 students from eight local schools, along with 113 parents/carers and 27 of our Student Ambassadors.

“ Thank you for giving our son a fantastic opportunity this week. It has inspired him and us as a family to support him and his higher education choices. ”

Parent  
Year 8 student



240

STUDENTS  
ATTENDED (2015)

25

ACADEMIC  
STAFF DELIVERED  
SESSIONS (2015)



#### Activities

We run a range of activities both on and off campus for:

- Students and mature learners from year groups 6 to 13
- Teachers and teaching assistants
- Parents and carers
- University of Surrey staff
- University of Surrey students

#### Events and activities run by WP&O

- In2Surrey
- Young Persons' University
- Surrey Skills Fair
- Revision conferences
- Years 7-10 Information Advice and Guidance (IAG) days
- Year 8 Exploring Higher Education Week
- Year 12 and 13 Higher Education Progression days
- Mature Learners' Pre-entry day
- Coding Hub activity
- Year 7 Christmas event
- Year 6 Transition summer schools
- Teachers Professional Development (TPD) events
- Taster days
- Access to Higher Education Mature Learners' event
- SPRINT programme
- Ambassador training

### YOUNG PERSONS' UNIVERSITY

The WP&O Department hold four day residential summer school programmes for Year 12 widening participation students. This programme gives students the opportunity to attend lectures, seminars and tutorials, take part in theoretical and practical work, prepare for making an application to university, develop transferable skills in team working, communication, presentation and research skills and find out about university life from our current students.

53%

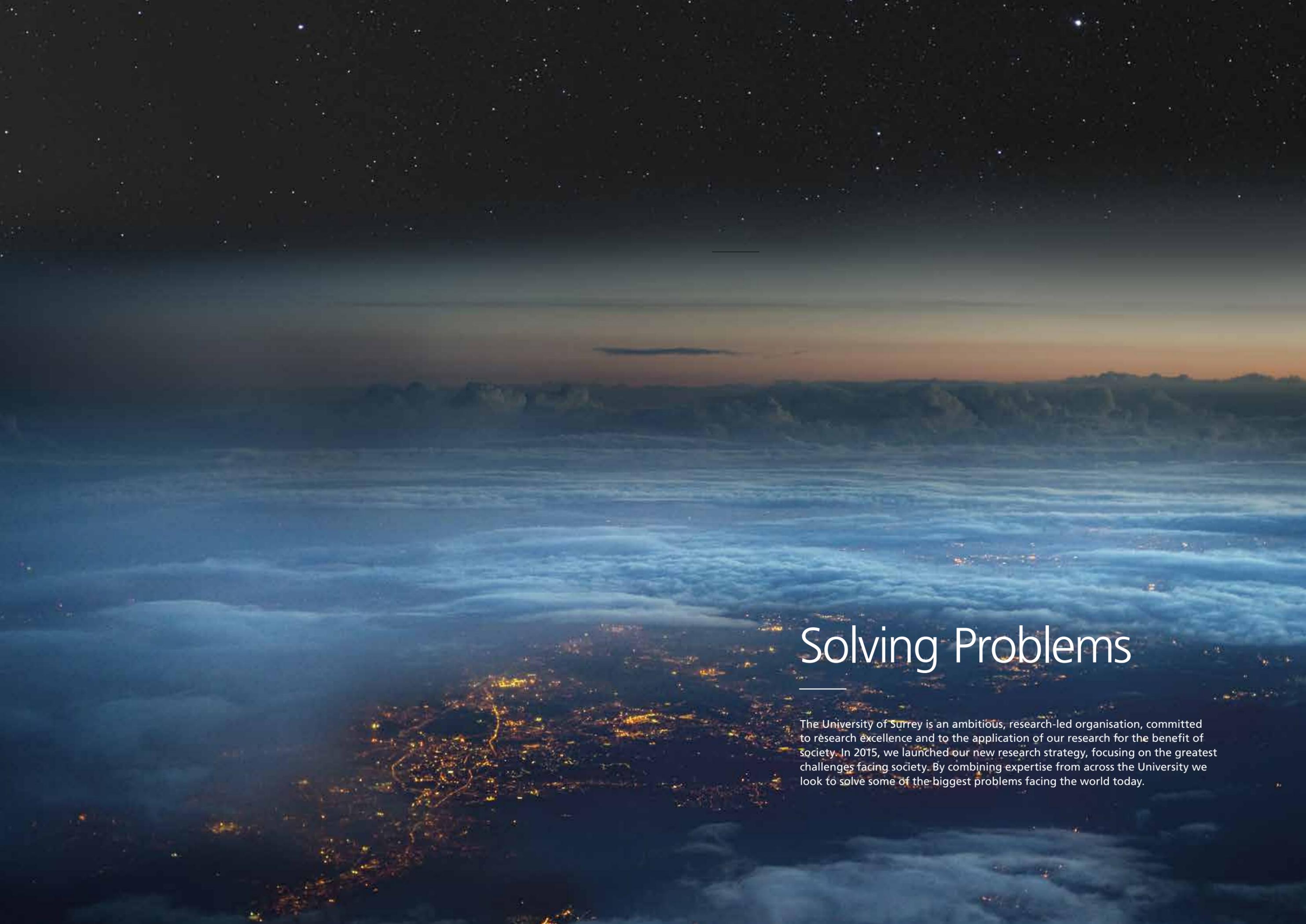
OF STUDENTS  
FROM 2013-14  
YPU APPLIED AND  
RECEIVED OFFERS  
TO STUDY AT  
SURREY

65%

OF STUDENTS  
WHO TOOK PART  
IN 2013-14 YPU  
MADE SURREY THEIR  
FIRM CHOICE FOR  
UNIVERSITY

36

STUDENT  
AMBASSADORS  
SUPPORTED THE  
EVENT (2015)



# Solving Problems

The University of Surrey is an ambitious, research-led organisation, committed to research excellence and to the application of our research for the benefit of society. In 2015, we launched our new research strategy, focusing on the greatest challenges facing society. By combining expertise from across the University we look to solve some of the biggest problems facing the world today.

## GLOBAL CHALLENGES

We are actively seeking to provide real-world solutions to these challenges and engage with non-academic stakeholders including businesses, government and the healthcare sector. By developing innovative technologies as well as new ways to inform policy and professional practice, research at Surrey continues to generate impact.

### Research

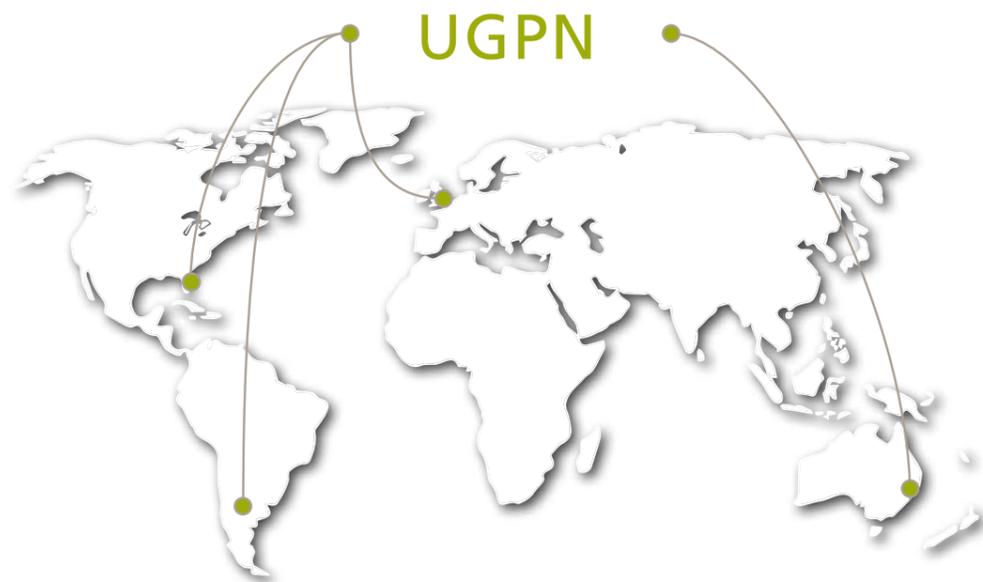
Pioneering research at the University of Surrey is having a positive societal benefit across multiple sectors including health, communications, business and the environment on a local, national and international scale. In 2015, our research activities spanned the globe with over 1,500 international co-authorships. Our global research impact has developed through international relationships with organisations and institutions in Australia, Brazil, China, Japan, Africa, the USA and across Europe. We also work closely with local partners including The Royal Surrey County Hospital, Ashford and St Peter's Hospital's NHS Trust, Frimley Health NHS Foundation Trust, Surrey and Borders Partnership NHS Foundation Trust and NHS Surrey.

The University publishes detailed reports on the impact made through its research. These are available on request.

### University Global Partnership Network (UGPN)

We are a founding member of the University Global Partnership Network (UGPN). Through collaboration with our core partners, Universidade de São Paulo, North Carolina State University and The University of Wollongong, we aim to benefit our global society through the development of sustainable world-class research, education and knowledge transfer.

Together, we have researched air quality, climate change, global public health, sleep, nuclear physics and translation. Since its establishment in 2011, the UGPN has generated more than 30 research outputs in high-impact journals, twelve of which were published in 2015.



Our core partners, Universidade de São Paulo, North Carolina State University and The University of Wollongong

## GRAND CHALLENGES

### Sustainable cities, communities and economies

The world will need to be able to support a population of nearly ten billion by 2050, with over 60 per cent of people living in cities or urban areas. In order to sustain this growth and the security of vital food and water supplies, cities will have to become more energy and resource efficient, communities more interactive, and economies more able to respond effectively to global economic pressures.

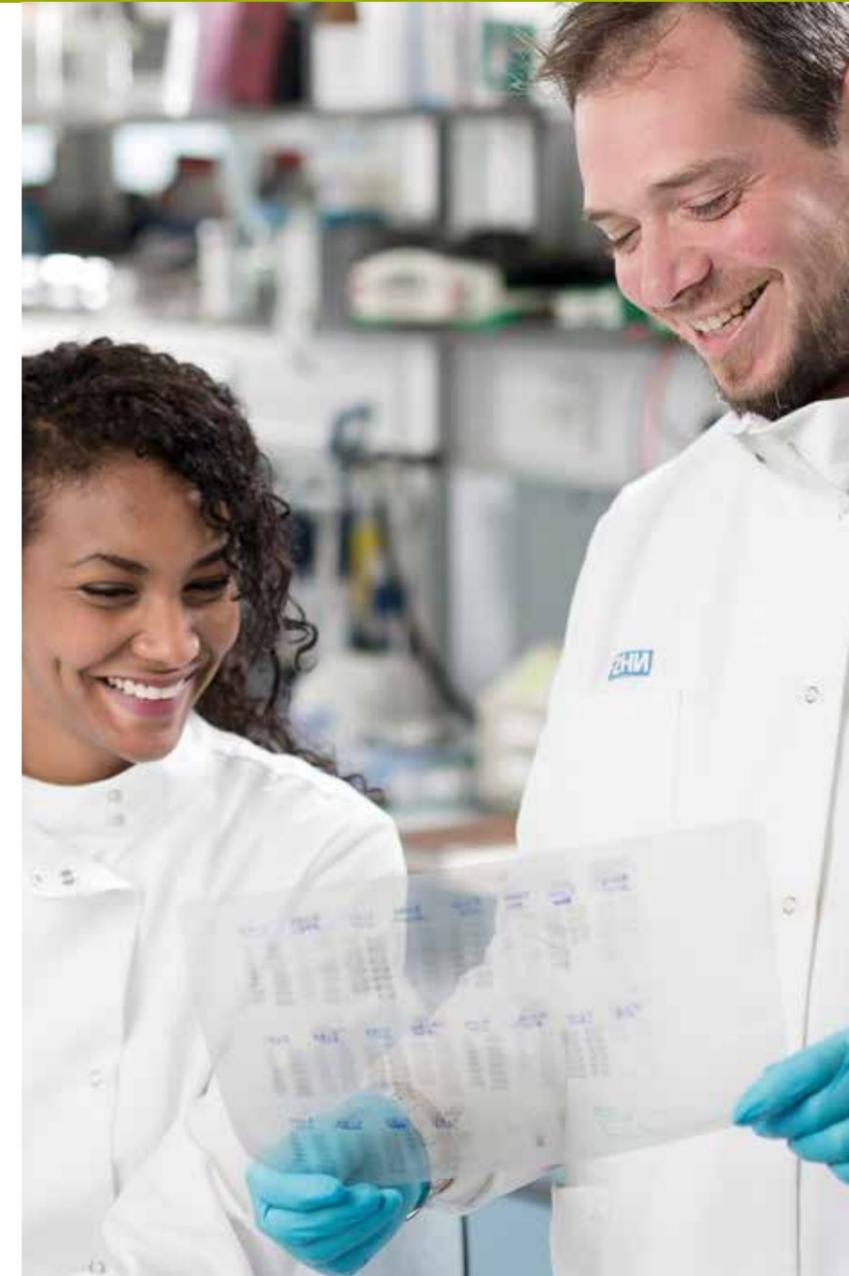
At Surrey, we are addressing these challenges through multidisciplinary research in areas including sustainable tourism and enterprise, earth observation and understanding climate change impacts, innovations in health, and issues such as water sanitation and sustainability.

#### » Disaster monitoring from space

The Surrey Space Centre is a world-leading centre of excellence in space engineering and its research is having far-reaching consequences. One striking example of its achievements is the launch of the first international satellite constellation dedicated to monitoring natural and man-made disasters worldwide. The global imaging service provides critical and timely information for international disaster assessment and relief agencies. This earth observation technology has had an impact on hundreds of thousands of lives and has been adapted further to provide scientific information on land and water resources, agriculture, pollution, urban development and deforestation.

#### » Centre for the Understanding of Sustainable Prosperity (CUSP)

At the start of 2016 the new Centre for the Understanding of Sustainable Prosperity launched its multidisciplinary programme to explore the complex relationship between the prosperity of human beings and the ecological and resource constraints of a finite planet. Working closely with international collaborators and non-academic partners, the Centre aims to engage business, government and civil society to formulate pragmatic steps and supportive policies towards achieving sustainable prosperity. The team are already feeding into policy debates and have taken the key role as secretariat for a newly launched All-Party Parliamentary Group on Limits to Growth.



#### » Centre for the Evaluation of Complexity across the Nexus (CECAN)

The Centre for the Evaluation of Complexity across the Nexus (CECAN) is a national research centre launched on the Surrey campus in 2016 to develop better ways of measuring the effectiveness and impact of energy, water, environment and food policies. Collaborating with the Department of Environment, Food and Rural Affairs, the Department of Energy and Climate Change, the Environment Agency and Food Standards Agency, the Centre is working on new ways to evaluate policies in complex settings such as when social and environmental problems are intertwined. The work is expected to have substantial future impact on how public policies are formulated, monitored and evaluated.

### Connecting societies and cultures

Over the last 20 years, we have experienced a revolution in the way individuals and societies communicate with each other.

Surrey is establishing itself as a telecommunications leader with research in key areas such as e-health and the Internet of Things, as well as two recently launched centres focusing on 5G technology and digital innovation in animal health. The influence and opportunity of greater connectivity among cultures is being realized through our priorities in performance, visual and audio analysis and languages and culture, all of which will impact on new ways of living in the digital age.

### » Enhanced neighbourhood policing

Working collaboratively with Surrey Police, the Police Foundation and the Home Office, researchers in Surrey's Sociology Department have been instrumental in evaluating Reassurance Policing models nationally and improving the quality of life for citizens in the UK. Examining signal crimes (criminal incidents that change public behaviour and/or beliefs about security), reassurance and neighbourhood policing, Surrey research has helped to shape the philosophy and organisation of policing at local and national levels. With a strong partnership between the University and local police service, police practice has been successfully reoriented resulting in increased self-reporting of victimisation, greater confidence in the police and improved public perceptions of crime locally.

### Science delivering global wellbeing

Scientific discoveries have had a dramatic impact on our lives. At Surrey, we are contributing to this grand challenge through our research on the management of complex diseases, understanding the genetic make-up of species through whole genome analysis and tackling antimicrobial resistance.

### » Cancer treatment modelling

Researchers at Surrey have developed a suite of mathematical models for use within the NHS, using evidence-based decision trees based on UK clinical practice and local cancer incidence data. One of these models, MALTHUS, predicts demand for radiotherapy across England and Wales and has been instrumental in the purchasing and management of radiotherapy services nationally. The model has been adopted across the UK and has made a significant impact upon health service treatment to cancer patients, improving efficiency, accuracy and service delivery.

### » Developing new health tests

A team of Surrey researchers have developed a rapid, non-culture-based diagnostic test for meningitis and septicaemia. This test is now routinely used for diagnosis of meningococcal disease worldwide, resulting in more reliable and efficient laboratory diagnostics and the subsequent halving of adult mortality rates from meningitis across the globe. Supported by the World Health Organisation, the test has positively benefited health and wellbeing on a global scale and has also influenced the development of other PCR-based diagnostic tools.

## 5G INNOVATION CENTRE

### 5G Innovation Centre

The 5G Innovation Centre (5GIC) is the largest UK academic research centre that is considering the future of wireless communications infrastructure. The Centre brings together leading academic experts and key industry partners, including some of the largest telecommunications companies in the world and high growth and technology start-ups in the Greater Thames Valley 6 LEP Area. With a state of the art test-bed covering 4km<sup>2</sup>, this technology is being designed to deal with future demands on data transfer through the collection of Big Data from individuals but also the intra-communication between everyday electronic items, supporting future technologies such as the Internet of Things. Research at the 5GIC has the potential for significant impact through the direct creation of business opportunities for telecoms companies and the catalytic impact of enhanced telecommunications infrastructure. By developing more energy-efficient and cost-effective technologies, this research is underpinning the way we will be able to communicate, work and live in the future.

» The ethos of the 5GIC is not built on competition but co-operation. 5G will be achieved through global collaboration so that everyone will benefit from working to a single standard. This technology will then be commercialised from 2020, driving economic development and research that will impact the world. »

Professor Rahim Tafazolli

Head of the Institute for Communication Systems



## SCHOOL OF VETERINARY MEDICINE

Our School of Veterinary Medicine, which was officially opened by HM The Queen in October 2015, is only the second Vet School in the UK to open since 1965. We have eleven joint staff appointments with leading veterinary practices and have developed relationships with over 70 partners including veterinary practices, specialist referral centres, government agencies and more. In collaboration with our partners, we are delivering Professional Training from the very start of the curriculum.

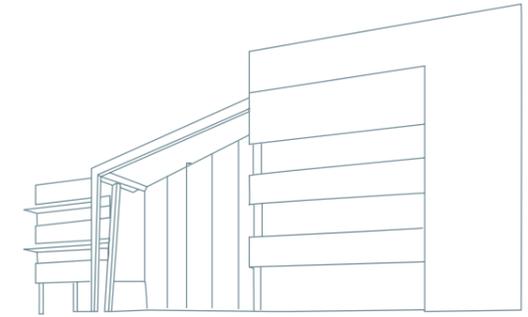
By working in partnership with veterinary practitioners, along with regional world-leading veterinary research institutes, this forward-thinking approach to veterinary education will provide our students with the necessary skills, knowledge and experience to answer the global needs of the 21st Century vet.

Our partners include:

- Fitzpatrick Referrals
- Liphook Equine Hospital
- Westpoint Veterinary Group
- BBSRC Pirbright Institute
- Surrey Wildlife Trust
- Animal Health and Veterinary Laboratories Agency
- Marwell Zoo
- Zoetis
- Universidade de Sao Paulo
- University of Wisconsin
- University of North Carolina
- University of Calgary

The School also makes a major contribution to the local economy. The £45m development is expected to create around 100 new jobs including 65 new posts within the University and joint academic posts with partner institutions, as well as numerous support staff roles.

The development will facilitate the clustering of pioneering veterinary and health initiatives around the campus and neighbouring Surrey Research Park, with the aim of stimulating private sector investment, continued economic development and the generation of jobs. In addition, being in close proximity to the Royal Surrey County Hospital in Guildford, the Centre will offer a unique opportunity for engineers, physicists and material scientists to work in collaboration with veterinary surgeons and clinical scientists.



SCHOOL OF VETERINARY MEDICINE  
OPENED BY HM THE QUEEN IN  
OCTOBER 2015



Our extensive network of partners in clinical practice, industry and research opens up unique learning opportunities for our students and for industry-relevant research. Our global outlook ensures an international perspective on all aspects of veterinary science

**Chris Proudman**  
Head of School of Veterinary Medicine

# Reflections

Here we look back over our 125 year history, showcasing a tradition of social impact from the foundation of the University of Surrey as Battersea Polytechnic as a vehicle for social improvement, to the advancements of the present day. We also look to the future and reflect on our ongoing commitment to measuring, monitoring and addressing the significant impact we have as a University.

## 1891

### FOUNDING OF BATTERSEA POLYTECHNIC

The Polytechnic was founded to provide greater access to further and higher education for the 'poorer and artisan' inhabitants of London. It was officially opened in 1894 by The Prince of Wales, later King Edward VII.



## 1909

### PIONEERING EVENING CLASSES

The Polytechnic offered new evening lectures in Chemical Engineering, the only ones in the UK at the time.

## 1914-18

### KEEPING THE HOME FIRES BURNING

Battersea undertook valuable research on explosives and the manufacture of shells, machine parts and tools and ran courses for engineers and workers in munitions factories. The Domestic Science Department gave special courses on first aid and home nursing.

## 1939-45

### THE WAR YEARS

Battersea took part in a number of initiatives to help the war effort during the Second World War including:

- **Bringing in the harvests** – Battersea staff and students joined forces with other London-based schools and colleges to help bring in crop harvests vital to the war effort. The scheme was repeated in 1944 and 1945
- **Fighting fit** – In 1940, the Domestic Science Training College at Battersea ran the National Food Education Campaign. Later in the war, the Polytechnic hosted the local 'Londoners' Meal Service' providing midday meals to the public
- **A workforce fit for war** - The Polytechnic also introduced a number of training courses to skill people up for the war effort, including analytical chemists, anti-aircraft teams and wireless mechanics

## 1957

### CREATION OF BATTERSEA COLLEGE OF TECHNOLOGY

Battersea Polytechnic became one of the new colleges of advanced technology in 1956 and was renamed the following year.

## 1966

### CREATION OF THE UNIVERSITY OF SURREY

The University was established with the grant of Charter by Her Majesty Queen Elizabeth II.



### 125 years of change

We are proud of our rich history as Battersea Polytechnic and the University of Surrey. In 2016, we celebrate the 125th anniversary of our foundation and 50 years as the University of Surrey. While the institution has evolved significantly in that time, our commitment to first-rate academic activity and real-world solutions has remained constant.

## 1971

### A NEW CHAMPION FOR WOMEN IN SCIENCE

This year saw the appointment of Daphne Jackson – a pioneering researcher in nuclear physics, as Professor of Physics. The only female Professor of Physics in the country until 1989, Professor Jackson was a champion of women taking up careers in science and engineering.

## 1973

### COMMUNITY SPIRIT

Surrey University Social Action Group was formed to support students in doing voluntary work in the local community. Today, University-wide volunteering and charitable campaigns take place throughout the year with staff, students and societies volunteering and raising donations for charities.

## 1978

### EDUCATION AT LARGE

The University took over responsibility for adult education for the county of Surrey.

## 1985

### FOSTERING INNOVATION

The opening of Surrey Research Park by HRH Duke of Kent. Now one of the most successful science and technology parks in Europe with 140 tenants and around 4,000 employees, the Research Park facilitates the growth and development of companies delivering innovations with real-world impact and bringing global benefits.

This year also saw the founding of:

- DelAgua, designers, manufacturers and distributors of low-cost water testing and treatment products for use in the developing world. A collaboration with Oxfam, the company was spun out of the University of Surrey in 2006. Its water test kit is used by all the major International NGOs and other Aid Agencies in over 130 countries around the world.

## 1986

### A NOVEL IDEA

Professor of Physics, Alf Adams, invented the strained-layer quantum-well laser which is used in billions of optoelectronic applications including optical fibre communications. It was chosen as one of the Top Ten UK scientific discoveries of all time in Eureka UK (2006).



## REFLECTIONS ON IMPACT AND CONTRIBUTION

## 1991

## MUSIC TO THE EARS

The inauguration of the first Guildford International Music Festival, established and organised in collaboration with Guildford Borough Council. The biannual Festival hosts visits from world-class artists with public performances and workshops both on campus and in the wider local community and is still going strong today.

## 2011

## AN ARTS HUB FOR STUDENT AND COMMUNITY USE

The opening of the £12m new Guildford School of Acting (GSA) in 2010 and the £4.5m Ivy Arts Centre a year later in 2011 saw the retention of a world-class drama and music conservatoire for Guildford and the provision of a dynamic, diverse programme of cultural entertainment for the local community.

## 2015

## A MORE CONNECTED SOCIETY

The opening of the £70m 5G Innovation Centre (5GIC) programme by HRH Duke of Kent. The 5GIC is the largest UK academic research centre dedicated to the development of next generation mobile and wireless communications.



## 2010

## WORLD-CLASS SPORTING FACILITIES FOR ALL

The opening of the £36m Surrey Sports Park. One of Europe's premier sites for sport, health, well-being and leisure. Home to a number of elite sports teams and official training base for international sports teams for the 2012 Olympic and Paralympic Games and Rugby World Cup 2015, the Sports Park is also a regional hub for community sports activities for people of all ages and abilities offering everything from squash, swimming and tennis to basketball, gymnastics and rock climbing.



## 2015

## ONE HEALTH/ONE MEDICINE

The opening of the £45m School of Veterinary Medicine by HM The Queen. Working with local, national and global partners, the new School provides world-class veterinary education to answer the global needs of the 21st century vet and a research programme with a focus on the relationship between human and animal health.

## 2015

## TOP TEN

Surrey ranks in the top ten of all major national league tables and is awarded *The Times* and *Sunday Times* University of the Year 2016.

## 2016

## ANNIVERSARY

The 50th Anniversary of the University's move to Guildford.



*Driving positive change* marks the broadening of our ongoing commitment at Surrey to measuring, monitoring and addressing the significant impact we have as a University.

We are committed to driving change both within our institution and in a global society facing increasing challenges. By measuring and reflecting on the recent advancements we have made as an institution, we aim to demonstrate our strong social values and our role in contributing to social well-being and cohesion, economic growth and in solving some of the world's most challenging problems.

As a key economic player in Guildford we contribute £943.3m to the local economy, supporting 10,664 local jobs through our activities at the University and Surrey Research Park. However, the value we bring to the local community goes beyond a contribution to the economic growth of the town. By encouraging the integration of our students within the wider community, taking part in volunteering activities and placing our students in community-focused organisations during their placements, we aim to foster a sense of civic pride and responsibility throughout the University and beyond. Meanwhile, our research has a national and global impact and we continue to strive towards solving some of the world's greatest challenges whilst also focusing on issues closer to home.

This report further highlights significant areas of future impact, such as the 5G Innovation Centre. The impact of the 5GIC, alongside other current and future advancements at the University of Surrey, will be observed and evaluated in order to provide a holistic understanding of how we are driving change and advancing our future contribution to society in a socially conscious manner.

This is the first time the University has reported on its social, cultural and economic impact in this way, and this report marks the first step towards developing an ongoing strategy for driving positive change internally and externally. Our strategy and methods will develop over time though annual observation and measurement. In this way we will be able to report, reflect and act on changes brought about by developments at our University.



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