

ECONOMIC IMPACT OF THE ROSLIN INSTITUTE

Executive Summary

by **BiGGAR Economics**

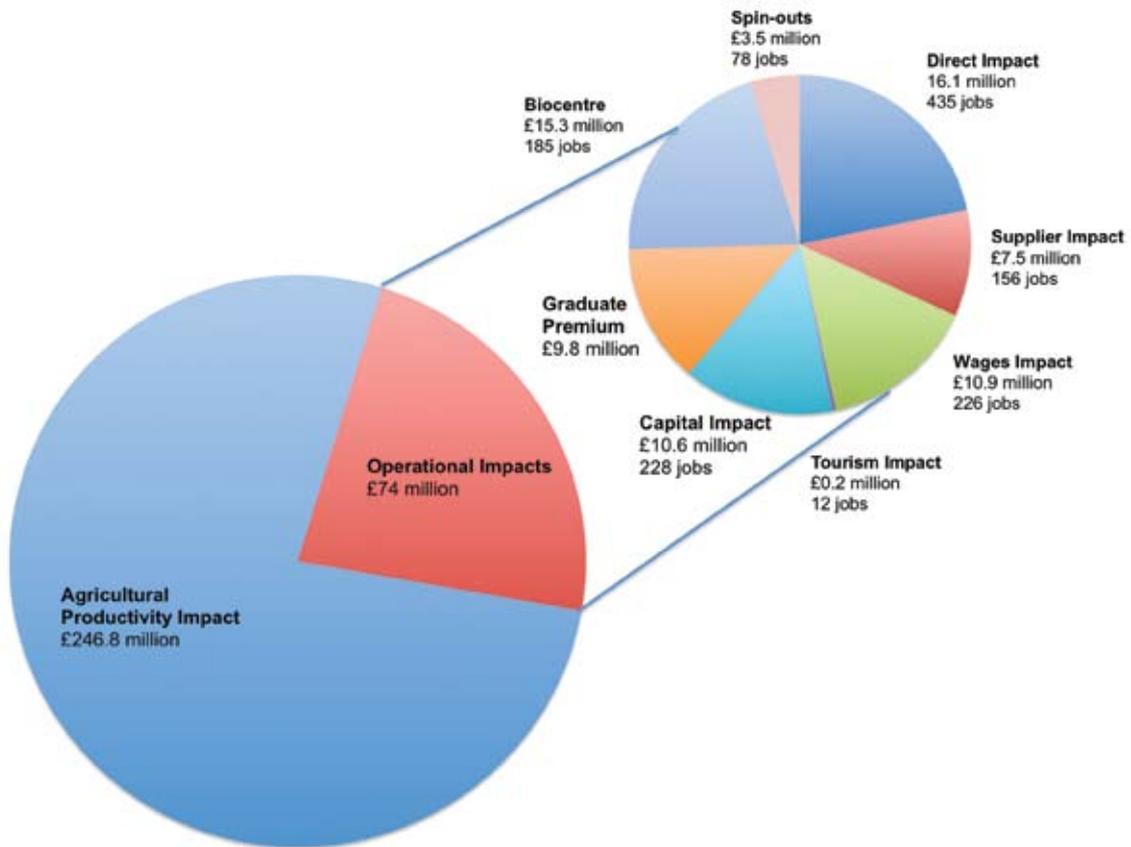


EXECUTIVE SUMMARY

ECONOMIC IMPACT OF THE ROSLIN INSTITUTE 2011/12

293 staff	142 post-graduate students	£25.4 million funding
Each year The Roslin Institute generates a total economic benefit to the UK of over £320 million GVA and supports 1,321 jobs		
For every £1 of public funding, The Roslin Institute generates £12.87 GVA for the UK economy.		

UK IMPACT BY SOURCE



The Roslin Institute also...

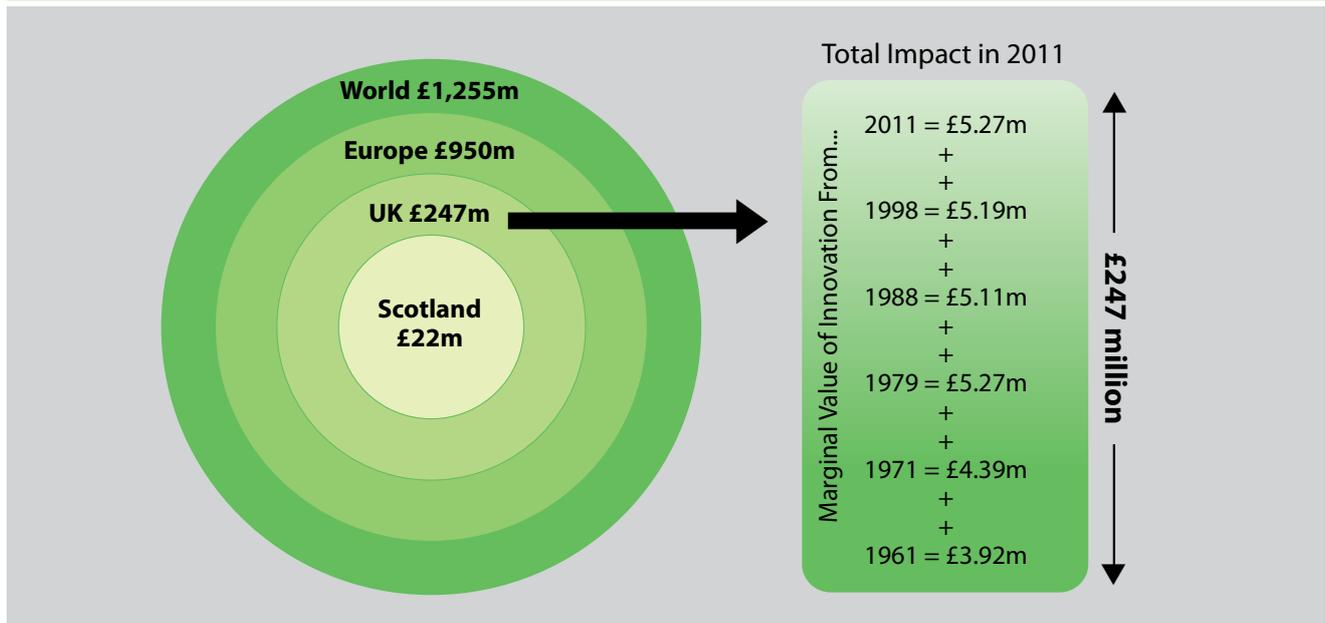
- Contributes to global food security
- Enhances the competitiveness of the UK animal sciences sector
- Improves animal welfare
- Enables scientific advances in human health care
- Supports environmentally sustainable agriculture

AGRICULTURAL PRODUCTIVITY

Global livestock production relies on small nucleus populations of breeding animals from a handful of large breeding companies. **The Roslin Institute** works closely with breeding companies to help them improve agricultural productivity through genetic selection.

Genetic productivity improvements like disease resistance and improved feed efficiency are permanent and cumulative so scientific innovations made decades ago continue to generate impact today. Each year, as scientific innovation increases, **The Roslin Institute's** total agricultural productivity impact gets larger.

By 2011, the annual productivity gain attributable to The Roslin Institute amounted to around £247 million. This annual impact is currently increasing by around £5 million per year.



<p>£5.3 MILLION marginal increase in agricultural productivity generated by The Roslin Institute in 2011</p>	<p>£247 MILLION total cumulative contribution to agricultural productivity made by The Roslin Institute in 2011</p>
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UK ANIMAL HEALTH SECTOR

The Roslin Institute has a strong culture of industrial collaboration that enables it to play a key role in supporting the UK animal health sector.

<p>The Roslin Institute contributes by:</p> <ul style="list-style-type: none"> • Undertaking collaborative research with industry • Commercialising intellectual property • Participating in knowledge exchange programmes • Training scientists • Hosting conferences and events 	<p>In 2012...</p> <ul style="list-style-type: none"> • 67% of principal investigators had a collaborative project ongoing • 83% of principal investigators were involved in knowledge exchange and commercialisation activity • The Roslin Institute had active relationships with more than 50 different companies.
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<p>6 SPIN-OUT COMPANIES combined turnover of £3.6m & 48 employees</p>	<p>15 BIOCENTRE TENANTS combined turnover of £31.5m & 226 employees</p>	<p>53 GRADUATES PER YEAR annual additional life time earnings of £9.8m</p>
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FUTURE IMPACT

On-going research at The Roslin Institute is expected to generate significant impacts in the future. The Roslin Institute also has extensive plans for future campus development, which will generate wealth and support additional employment.

The Roslin Institute's £60 million building was completed in 2011. Construction of the new National Avian Research Facility, next to The Roslin Institute began in late 2012. The £14 million facility will provide a one-stop-shop for poultry researchers in the UK and overseas. Future developments include:

- an Incubator Hub for Animal Biosciences (£32 million), which will enable SMEs and major industry partners to co-locate with The Roslin Institute;
- investment in campus infrastructure and services (£5 million);
- a multispecies research facility for large animals (£20 million) that will enable location of sophisticated imaging equipment in high-quality research facilities to study livestock for both animal health and human biomedical research;
- Centre for Comparative Pathology (£15 million), which will unify human, companion animal, livestock and experimental animal research together with the infrastructure for development of molecular diagnostics; and
- major equipment (£5 million) that will be available to the UK animal biosciences community.

NEXT 5 YEARS...

Construction impact of almost £30m & 570 jobs

BY 2025...

Further construction impact of almost £32m & more than 600 jobs

+

Annual operational impact of - £343m & more than 6,000 jobs

SCIENTISTS AT THE ROSLIN INSTITUTE HAVE DEVELOPED...

a new method for combating flu, a disease that currently costs the UK economy about £1.35 billion each year

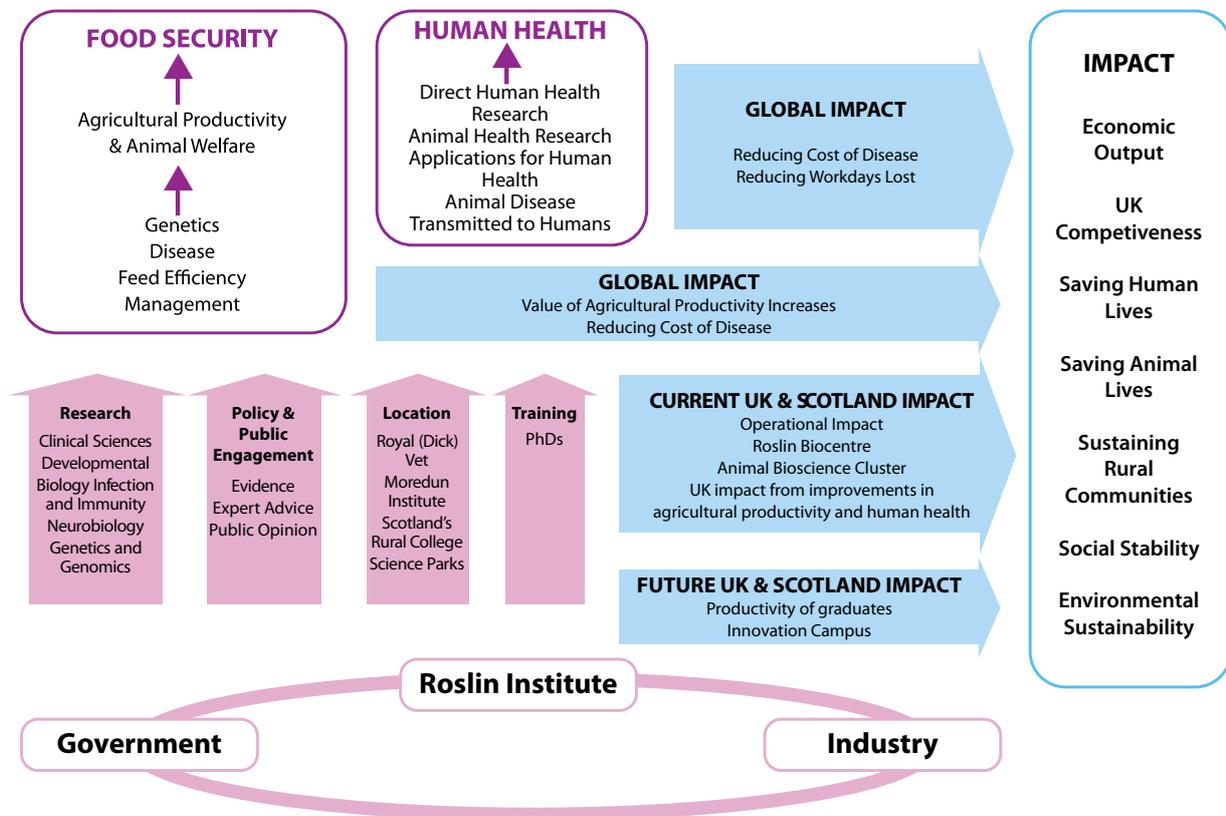
genetically modified chickens that do not transmit avian influenza virus to other chickens. This could stop bird flu outbreaks spreading within poultry flocks, which would not only protect domestic poultry but could also reduce the risk of new flu virus epidemics in the human population

a genetic test that is being used by pig breeding companies around the world to select animals that are not susceptible to a disease that costs UK pig farmers up to £3.7 million each year

FOOD SECURITY AND HUMAN HEALTH

The Roslin Institute works closely with government and industry to address the challenges of food security and human health by:

- Undertaking world-class research
- Providing policy advice to public agencies
- Supporting a highly successful animal health cluster
- Training scientists



Since 2011 **The Institute** has been co-located with **Scotland's Rural College, The Royal (Dick) School of Veterinary Studies** and **The Moredun Research Institute**. Together these organisations make up the **Easter Bush Research Consortium (EBRC)**, one of the largest animal health research groups in the world.

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