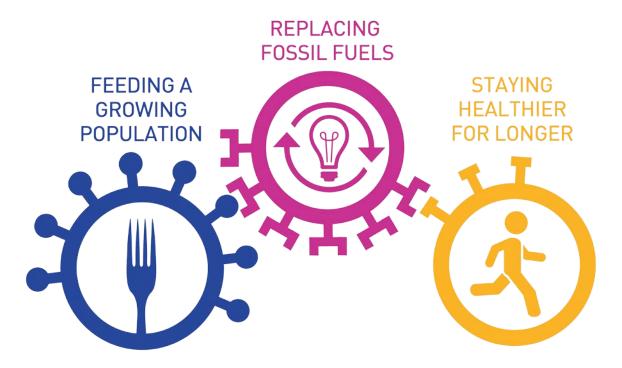


### **BUILDING THE BIOECONOMY**



### Meeting society's challenges

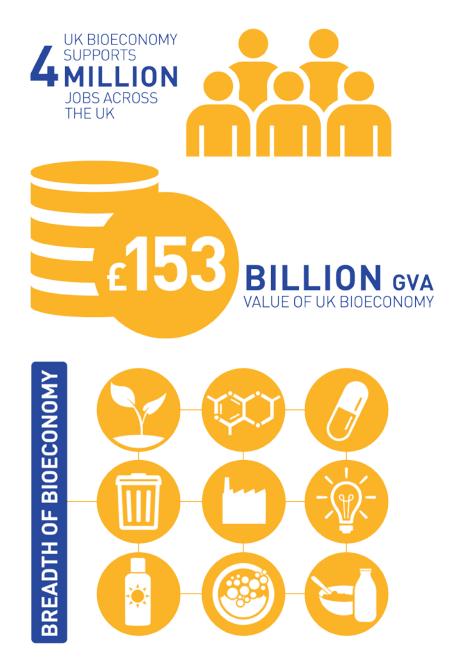


- The world needs to produce 50% more food by 2050
- Food & agri sector in UK already worth £96Bn a year
- Need for low carbon alternatives to fossil fuels
- Demand for energy predicted to grow by 20%
- in 2030 (from 2010)

- 21% of UK population will be aged 60+ by 2050
- Tackling obesity would save wider UK economy £50bn per year by 2050

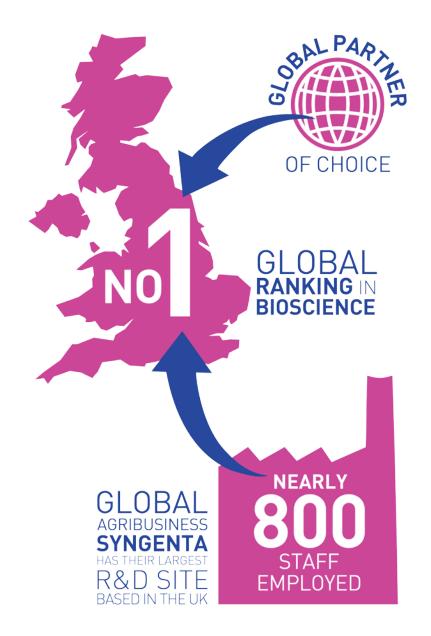


The bioeconomy offers huge potential to support a more productive, prosperous and sustainable UK





UK is world leading in bioscience - bringing benefits to UK society and economy





BBSRC delivers for bioscience and for the UK





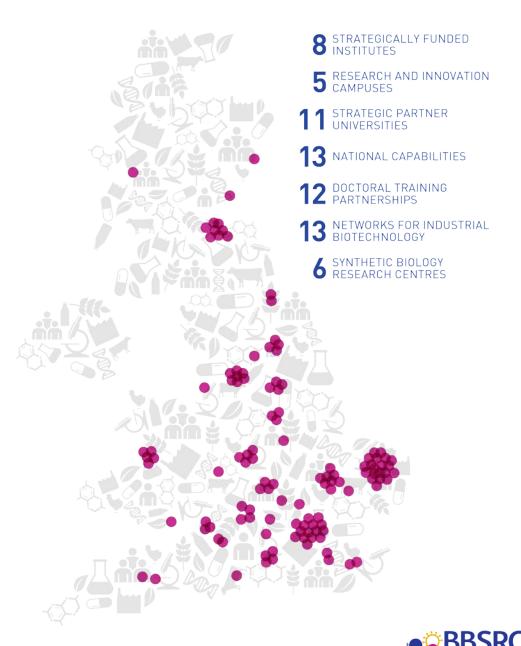




ECONOMIC ACTIVITY AND COST SAVINGS ENABLED BY BBSRC INVESTMENTS (from 2008–2013)



BBSRC invests in bioscience research, infrastructure and skills right across the UK





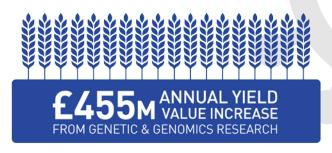
### TRACK RECORD



## Adding £455m a year to the wheat harvest









LEVELS BY FURTHER 50% OVER THE NEXT

15 YEARS



## 90% reduction in Dengue mosquitoes









# Healthier milk on the high street



£16Bn
COST TO UK ECONOMY
OF FOOD-RELATED
CHRONIC III HEALTH

& SET TO RISE TO £50Bn
IN 2050 IF NO ACTION IS TAKEN



MILK HAS BENEFICIAL PROPERTIES, SO CUTTING DOWN ISN'T THE ANSWER



FOR RESEARCH TO ALTER MILK FAT COMPOSITION BY ADDING OILSEED TO COWS' DIETS



Researchers from Reading worked with partners across the food chain to reduce bad fat by up to 25% and increase good fat by up to 50%



MILK
Sold to over 3 million

Sold to over 3 million customers



By altering cows' diets, their milk has a lower carbon footprint than regular milk due to reduced methane emissions

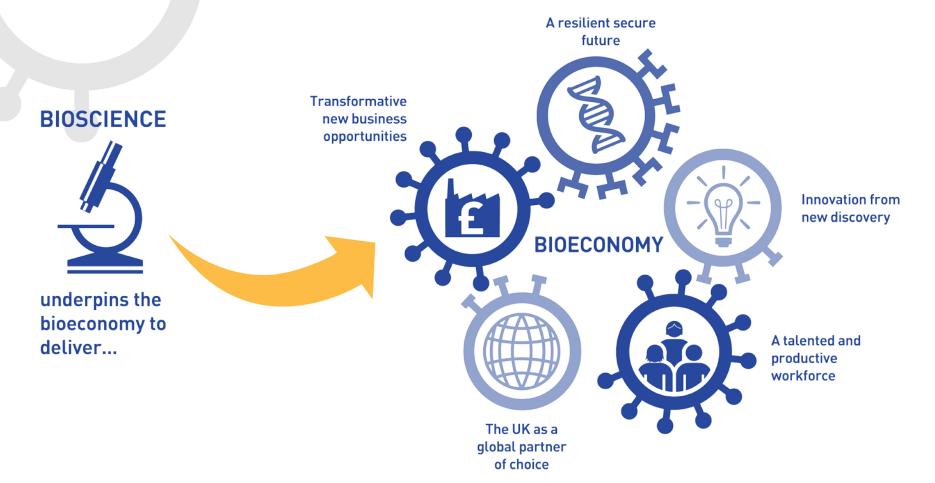




# OUR COMMITMENTS TO BUILDING THE BIOECONOMY



# Grow the bioeconomy for a more productive and prosperous nation

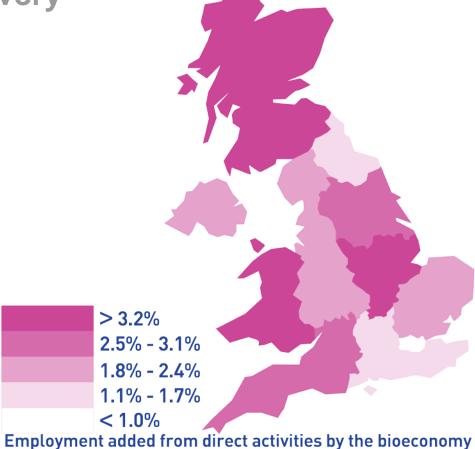




## Drive bioscience discovery and innovation

BBSRC will invest in frontier bioscience across the UK to foster innovation in the bioeconomy





Employment added from direct activities by the bioeconomy in the UK as a share of total employment by region, 2012

Source: Capital Economics and the Office for National Statistics (2012)



## Build a more resilient and secure future

BBSRC investments will equip the UK to respond to the challenges of the future







## **Transform and create**bio-based businesses

BBSRC-funded bioscience will enhance productivity, transform traditional businesses and create new market opportunities



Bioscience produces more patents than any other research area



BBSRC's investments in new technologies, such as big data and synthetic biology, are transforming industries



#### **Develop and attract talent**

BBSRC will invest in the next generation of skilled people for the research base and the wider economy

BBSRC currently invests in

- > 2000 PhD students
- > 5000 researchers & technicians



employers said PHD graduates are business critical



BBSRC will promote inclusion and diversity across the research base



BBSRC will foster collaborations across disciplines



Secure UK as global partner of choice

BBSRC will work with partners to capitalise on UK bioscience to foster new collaborations, inward investment and trade links with emerging economies

