TEN YEARS SHAPING THE FUTURE

Innovate UK
2007
› TECHNOLOGY STRATEGY BOARD established as an independent body
› First INNOVATE CONFERENCE
› First COLLABORATIVE R&D FUNDING COMPETITION launched

2008
› IAIN GRAY appointed as CEO
› SMALL BUSINESS RESEARCH INITIATIVE (SBRI) relaunched

2009
› LOW CARBON VEHICLE demonstrator trials 100+ electric cars
› RETROFIT FOR THE FUTURE cuts CO2 in 100 demo homes

TEN YEARS 2007–2017
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LASTING IMPACT

10 years of shaping the future:

› Up to £16BN return to the ECONOMY
› We supported 8,000 organisations
› £7.30 OF GVA for every £1 INVESTED
› Helped create nearly 70,000 JOBS
› Over 8 JOBS created for EVERY BUSINESS invested in
It’s a great pleasure to be able to celebrate the 10-year anniversary of Innovate UK and reflect on the achievements of the businesses that we have supported, specifically the contribution they have made, and will make, to the UK economy.

I am still constantly surprised by the breadth and depth of the innovative projects we support – and how inspiring those businesses can be – against all odds. Some of their stories are featured in this publication; from the highly successful university friends who created Swiftkey and became multi-millionaires, to those like 3D mapping innovator Natvilai Utoomprurkporn, who’s just starting out.

We set out our stall with our first strategy – Connect and Catalyse – funding businesses with innovative ideas to get closer to market. Ten years on, that work has led to an investment portfolio of £2.2 billion.

During our time we have also established the world-class Catapult network, which ensures that UK researchers and businesses have access to state-of-the-art facilities wherever they are in the UK.

This work has never been so important, as the Government continues to develop its Industrial Strategy. Innovation is vital to the UK maintaining global competitiveness and through the Industrial Strategy Challenge Fund (ISCF), we are developing UK industries that are fit for the future, driving progress in technologies where the UK can become a world-leader in their research and commercialisation.

In the coming years, as Innovate UK becomes the business-facing part of UK Research and Innovation, we will be leading on delivering economic impact and creating better jobs, one of our new umbrella organisation’s goals.

We are building on the last 10 years of success but we know we have more work to do. The UK’s productivity, and spend on R&D as a percentage of GDP, has declined, putting jobs, business confidence and inward investment at risk.

In the next 10 years the opportunity is ours. If we get this right – and we must – the world, our economy, and our own quality of life could change for the better in unimaginable ways.
Oxford Space Systems (OSS) launched as a result of the Harwell Launchpad competition in 2013. “The genius part was you could apply as a pre-startup,” says CEO Mike Lawton. “It was a way of breaking the chicken and egg scenario. By securing conditional funding I could attract essential equity.”

Lawton developed his ideas for deployable space structures inside of 12 months after securing significant venture capital funding.

Working with retractable technology, OSS looked towards the Japanese art of origami for inspiration. “It’s not just about sitting around folding paper. There’s mathematics that underpins origami,” says Lawton, who works with Professor Zhong You of Oxford University to apply mathematical models that can be used to reduce the stowage requirements of antennas, boom and solar arrays.

“I’m not particularly interested in long-gestation, one-off missions,” Lawton continues. “We’re developing tech that targets constellations – thousands of satellites in space for internet and other services. I want to make sure our technology is the most contracted presence in these constellations.”

OXFORD SPACE SYSTEMS is using origami models to inspire the next generation of satellites.

FOLDABLE SPACE TECHNOLOGY
COMMUTER’S PARADISE

TRAVELAI’s Andreas Zachariah is behind crowd-sourced, journey-planning project Catch, bringing benefits to commuters and their local authorities.

WHAT IS CATCH? A research project led by TravelAI that’s connecting the public and local transport authorities. The aim is to create a journey-planning app that helps people use their local transport system.

HOW WILL IT WORK? Catch is currently working with 5 authorities: Leeds, Newcastle, Oxfordshire County, Ipswich and Coventry. Data such as overcrowding or a breakdown on the road is captured through the app. Local authorities and city partners can then use this information to make informed decisions about the services they offer.

WHAT’S THE GOAL OF THE PROJECT? Insights that lead to better services. The idea is to demonstrate what’s possible when you improve engagement between commuters and transport system operators.
VIRIDIAN CONSULTANTS’ Kym Jarvis is on a mission to reduce the time and cost of decommissioning nuclear sites.

THE CHALLENGE Current testing restrictions at nuclear sites mean samples need to be sent offsite to labs for analysis, with results often taking many months to come through.

THE SOLUTION Being able to take measurements and analyse them in situ would drastically speed up the process. A one-year study demonstrated it was possible to use a laser system to analyse samples onsite. Now, Viridian has a 3-year research grant from Innovate UK to produce a new tool, which it’s calling ViridiScan.

SO, HOW DOES IT WORK? ViridiScan turns nuclear samples into liquids that can be analysed quickly, efficiently and safely on site.

WHAT’S NEXT? A further £1 million project under Innovate UK’s ‘first of a kind’ scheme, where the company will deploy this equipment to 5 nuclear sites across the UK.

SAFER
POWERING
A NEW
BUSINESS
MODEL

RIVERSIMPLE’s Rasa is stylish, efficient, lightweight – and powered by hydrogen fuel-cells. But the innovation isn’t just in the technology, it’s also in the sales model.

Riversimple has created a highly sustainable car that will never be sold. Instead, it will make the Rasa available via a subscription model that covers the car and associated running costs, including fuel. This reduces the cost and makes uptake of an energy efficient vehicle more attractive for users.
“Fuel cell tech is so different to combustion engines that you’ve got to start again with a clean sheet of paper. You’ve got to build it in a different way with different materials, different facilities and a different business model supplying to the customer.”

Hugo Spowers, Riversimple

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2000
› OSCAR Automotive starts the journey towards bringing hydrogen fuel cell cars to market

2005
› Awarded a grant by the Technology Strategy Board to develop the Morgan LIFEcar – a high-performance sports car with a small hydrogen fuel cell

2007
› Changes name to Riversimple

2008
› The LIFEcar is shown at the Geneva Motor Show

2009–10
› Develops the HYBRAN car, a technology demonstrator from LIFEcar research programme

2013–15
› Produces the RASA. It weighs just 580kg and features a low-powered (8.5kW) hydrogen fuel cell

2016
› Begins work on an Innovate UK-funded Carbon Fibre Braiding Project into low-cost volume production

2016/17
› Customer Trials scheduled for the Rasa
Lighter, cheaper, more effective: Sabrina Malpede, CEO of ACT BLADE is preparing to introduce the next generation of wind turbine.

The demand for greener energy is on the rise, which means the wind energy industry faces a challenge. Extending turbine blades can harness more energy, but they are heavier and more expensive to produce. ACT Blade’s textile-based composite blades are different. They’re lighter, leaner and cheaper to manufacture, making wind energy an easier choice for the UK.

Over £1 MILLION IN INNOVATE UK FUNDING has helped ACT Blade:

› COLLABORATE with organisations in the wind energy industry
› DEVELOP new technologies, materials and processes
› ACQUIRE the talent needed to progress these technologies
› ATTRACT financial support from corporate investors
PEAK ENERGY

Dr Graham Oakes, founder of UPSIDE ENERGY, used the Internet of Things to connect everyday household items. The National Grid is now using the technology to balance supply and demand to improve efficiency.

THE PROBLEM  Renewable energy comes from multiple sources, which makes it difficult for power stations to generate electricity consistently and efficiently. This leads to volatile energy prices and higher greenhouse gas emissions.

THE SOLUTION  Connecting everyday household items like backup batteries and hot water tanks using the Internet of Things, Upside Energy has reduced pressure on the National Grid and balanced electricity supply and demand.
What companies or innovations have you found most inspiring over the last 10 years?
One of my early favourites was Fuel3D, a leading 3D capture and imaging innovator. More recently, at the Women in Innovation event, I’ve been really impressed by the number of standout ideas, from building energy generating pathways along the Thames, to innovative designs that increase lorry capacities, potentially saving 10,000 journeys a day in the UK.

How have the challenges facing small innovative businesses changed since 2007?
Well, obviously today’s small businesses are operating in a much more complex global economy. Brexit increases that further. So we need to do a lot more to help small companies, scale up to large businesses, enabling them to create more value for the country. On the plus side, funding has never been better than it is today.

Is there anything about the way the UK innovates compared to the rest of the world that sets it apart?
Our ability to survive and thrive in the ‘grey zone’. I’ve experienced this across the hi-tech industry. UK teams have the willingness to take risks and the ability to absorb new innovative technologies at a much faster pace than peers. These traits will come in quite handy...

What do you see as the priorities for the next 10 years?
New trading, building on our strengths of innovation and invention, and returning to our industrial past. The UK Industrial Strategy must be a real focus – ensuring the UK manufacturing economy avoids becoming low cost, low value, but rather a highly digitised industry reaping high value with high productivity.

What innovations coming over the horizon excite you the most?
With the advent of augmented intelligence, from Siri to Alexa, combined with advanced robotics, I see enormous opportunity and potential for these new digital technologies to greatly assist people in their work. I think that’s going to be an amazing breakthrough, freeing us up to do the real value work, like providing more patient care.

PHIL SMITH
Phil Smith is Chairman at Innovate UK and Chair of Cisco UK & Ireland.
We believe that the most disruptive innovation comes from a place of diversity. However, when we commissioned a report by Ebiquity in 2016, we discovered that 1 in 3 women feel that their gender has negatively affected their ability to succeed in business.

To encourage more women to apply for funding, we held the first infocus Women in Innovation Awards in 2016, a £200,000 funding competition offering investment and mentoring support to women. The response was astounding. 15 winners were selected, each receiving a £50,000 grant. Additionally, 19 more were awarded a tailored package of business support and mentoring.

To support the campaign, photographer Amelia Troubridge created a series of shots featuring award holders, which were shown at London’s Getty Images Gallery.

As part of the ongoing commitment to inspire the next generation of female entrepreneurs, 37 teens took part in a Girls in Innovation workshop and Innovate UK has also sponsored pre-teen inventors the WGCMicrobots to compete in an international robotics competition.
INTELLIGENT TRANSPORT SYSTEMS

Design and technology company red ninja is testing an intelligent transport system to help emergency crews save lives by improving response times.
After discovering ambulances weren’t hitting their response times because of increased congestion, the Liverpool-based company designed a system to clear routes for emergency calls.

Using big data, Red Ninja tested a system that could manipulate traffic in near-real time using artificial intelligence and the integration of ambulance route-finder apps and city traffic management systems.

The company received funding as part of the life first emergency traffic control project which helped it progress quickly: “It might have taken us another 10 years to get to where we are now otherwise,” said founder Lee Omar.
VIRTUAL PARKING BAYS

GRID SMARTER CITIES’ Neil Herron discusses KERB and DASH – projects that aim to make the management of inner-city kerb space more intelligent and environmentally friendly.

“First, we’re planning a dynamic app and web-based system that will allow us to manage the use of parking bays. For example, we’ll work with local authorities to identify problems like poor air quality, and lift parking restrictions in that area for zero or low emission vehicles.

“Second, we’re aiming to give the last mile of goods delivery a low-carbon approach. By setting up micro consolidation centres where an electric vehicle fleet could pick up items for delivery at more convenient times, we can reduce congestion and pollution in central locations. Small businesses could also plug in to this system to offer delivery of their own goods”
THE NEXT GENERATION OF MAPPING IS 3D

Natwilai describes GetTrik as ‘Google Maps for large structure inspection’. The tool uses drones to scan structures and create interactive 3D maps. Where manual inspection would take days to complete and cost thousands of pounds, GetTrik’s software, TRIK, can complete the process in a few hours, at a fraction of the cost.

Women in Innovation award winner, GETTRIK’s Natwilai Utoomprurkporn, grew up and studied in Thailand, before receiving a scholarship to study global innovation design at Imperial College London and the Royal College of Art.
My recommendation to other female entrepreneurs and innovators is to believe, to dream big, and to ask for help. You don’t know what you can do unless you try, but remember that there is no need to try it alone.
The company recently completed a study proving it can cut the time it takes to create terminals for space telecommunications from 3 years, to just 9 months... by making them smaller.

"Size, weight, and power – the less it is, the better it is," says e2E CEO Barry Ross. "Our vision is to make satellite communications more affordable."

The company is set to launch its first terminal mid-2018, and expects the communication node – called NEAT access – to feature on smaller systems like CubeSats. It then plans to sell the technology to other organisations that could never afford the high airtime prices that come with traditionally-sized satellites and communications systems. "For example, water utilities companies will be able to use it for flood monitoring," Ross added.
Autolus is a clinical-stage biopharmaceutical company that’s revolutionising cancer treatment through advanced cell programming and manufacturing. “CAR-T cell therapies offer potentially life-changing benefits for patients,” says Autolus Chief Operating Officer Christopher Vann. “Autolus re-engineers the patient’s own T-cells so that they more effectively target and combat cancer.”
CITIES FOR THE FUTURE

Cities across the UK have seen more than £250 MILLION public and private investment in solutions to improve urban living.
Innovate UK awarded £50,000 each to 30 cities and challenged them to show how they could work with businesses and partners on new technologies in areas such as transport, housing, health, energy and pollution.

The best package was put together by Glasgow, which won a further £24 million to become a demonstration future city. Bristol, London and Peterborough also won £3 million, while others received additional public and private funding to pursue their best ideas.

The initial funding enabled the cities to attract multi-million pound investments from the private sector. Glasgow has developed a state-of-the-art operations centre that has improved traffic management and safety and security, installed intelligent street lighting, piloted smart energy schemes, used digital technologies to make the city more cycle and pedestrian friendly and opened up large sets of civic data to business and the public.

› **GLASGOW** develops state-of-the-art operations centre
› **MILTON KEYNES** trials autonomous vehicles
› **LEEDS-BRADFORD** set up digital health enterprise zone
› **GLASGOW** intelligent street lighting could save **£24 MILLION** over 18 years
› **GLASGOW** business incubator to add **£53 MILLION** to economy
› **City-wide DATA HUBS** set up across UK
› **BRISTOL IS OPEN** develops ‘smart city’
IBD affects over 4 million people in Europe and the US. In severe cases patients are required to undergo surgery to create an ileal pouch-anal anastomosis – known as a ‘pouch’ – but this in itself can cause problems; around half go on to get pouchitis, which like all IBD conditions can be debilitating and leave patients house-bound.

Atlantic Healthcare is developing a new class of drug – called alicaforsen – to treat pouchitis and other forms of IBD. Early trials have shown potential to significantly improve patients’ lives. A phase 3 trial is underway, which will recruit 138 patients in 40 centres across the world.

NEW HOPE FOR PATIENTS

Dr Janette Thomas is part of the team at ATLANTIC HEALTHCARE developing a revolutionary new drug for pouchitis, a rare but serious form of inflammatory bowel disease (IBD).
INNOVATE UK has set up and now oversees 10 CATAPULT centres. These independent centres bridge the gap between research and commercial success by providing state-of-the-art facilities for innovation.

CATAPULT centres are designed to support future economic growth and transform the UK’s ability to innovate in the following areas:

- Cell and gene therapy
- Compound semiconductor applications
- Digital
- Energy systems
- Future cities
- High value manufacturing
- Medicines discovery
- Offshore renewable energy
- Satellite applications
- Transport systems
› Operate facilities worth £850 MILLION
› More than 3,000 academic and industrial collaborations so far
› Active in 24 COUNTRIES
› More than 600 PROJECTS completed
› 900 APPRENTICES trained in ONE YEAR
› Worked with 4,700 TECH BUSINESSES in ONE YEAR
› HVM Catapult attracted £70 MILLION INVESTMENT from BOEING and MCLAREN AUTOMOTIVE
3D FARMING REVOLUTION

SATURN BIOPONICS’ Saturn Grower is the world’s first three-dimensional crop growing system.

- **THE SATURN GROWER** has spent **6 YEARS** in development
- The Grower uses **20%** of the water used in traditional crop production
- Reducing disease yields almost **100% USABLE PRODUCE**
- Less downtime between crops boosts yearly cycles by **25%**
- Yield has been increased by at least **3 TIMES** in every crop Saturn Bioponics has tested

These hydroponic towers can produce three times more crop in the same space as traditional two-dimensional farming. This enables anyone, anywhere in the world to grow fresh produce, regardless of soil quality. A crop that’s been harvested can also be replanted almost immediately, and quality traits including shelf-life can be enhanced.

“The primary food system is broken, and it needs to evolve. Right now, it’s not working for anyone, including the consumer.”

ALEX FISHER, CEO OF SATURN BIOPONICS
ONE STEP AHEAD

Cambridge graduates Jon Reynolds and Ben Medlock started SwiftKey in 2008. Last year, SwiftKey was acquired by Microsoft for a reported $250 million.

SwiftKey’s flagship mobile app, a ‘clairvoyant’ keyboard, was born when founders Ben and Jon realised how much time they were wasting correcting their text. SwiftKey is now used by over 300 million users in 100 languages.

“From day one, we were obsessed with innovating and making sure our product became better and better over time.”

JON REYNOLDS

› 10 TRILLION keystrokes saved
› Across 100 different languages
› 100,000 years of reclaimed typing time
CEO and Founder Jenny Griffiths describes Snap Fashion as a ‘discovery engine’, rather than a search engine. “The whole point of a search engine is that you find exactly what you were looking for. What we’re trying to do is allow people to use the real world as inspiration, then let you discover your own style in your own way.”
RECIPE FOR SUCCESS

When Paul Lindley couldn’t find the food he wanted for his young family, he created it. **ELLA’S KITCHEN**, producer of 100% organic baby food, is transforming the market and improving children’s enjoyment of healthy food.

**WHO?** Ella’s Kitchen  
**WHEN?** Launched in 2006, from his home in Reading  
**HOW?** 3 Knowledge Transfer Partnerships with the University of Reading, plus an Innovate UK grant in 2016  
**WHERE ARE THEY NOW?** Offering a range of organic baby and toddler food in the UK and globally  
**WHERE NEXT?** To eventually use only ethically and sustainably sourced materials and services

“I set up Ella’s Kitchen because I passionately believe that Ella, my daughter, along with her generation, should have the opportunity to eat better food.”

Every product is **100% ORGANIC**  
Sold in **40 COUNTRIES** around the world  
**NUMBER 1** baby food brand in the UK  
Global turnover of over **$100M**
OXIS ENERGY first received funding in 2005 to create a prototype for a lithium-sulfur (Li-S) rechargeable battery cell.

Since completing the prototype the battery’s capacity has improved 20-fold, and seen the company achieve compelling growth. Their work on developing a Revolutionary Electric Vehicle Battery (REVB) led to interest from European car manufacturers and demonstrated crossover with the aerospace, defence, and energy storage markets.

OXIS is about to complete an Innovate UK-funded project for powering autonomous submarines, following high-pressure testing in Norway.

“We are entering into negotiations to establish Li-S cells manufacturing plants. This will result in cells being produced in their millions 5 years from now,” says Oxis CEO Huw Hampson-Jones.
HIETA TECHNOLOGIES has developed an innovative waste heat recovery system that can generate power from an engine’s exhaust stream.

Manufactured using a highly advanced form of 3D printing, the firm’s ultra-lightweight heat exchanger cools exhaust gases. The air-to-liquid heat transfer device can generate 1kW of power from the exhaust stream of a conventional engine, and could deliver up to 5% in fuel savings.

The pioneering additive manufacturing company is on the verge of scaling up production at Bristol and Bath Science Park, following a series of Innovate UK supported projects.

“These have been key to HIETA moving from a single hot-desk to a design and manufacturing facility with 35 people in all,” says Ben Farmer, strategy and programme lead at HIETA.
PLUGGED IN: 
LOW CARBON FUTURE

These projects have been developed with the support of Innovate UK and funding partners; the OFFICE FOR LOW EMISSION VEHICLES and the AUTOMOTIVE PROPULSION COUNCIL.

LIGHTWEIGHT VEHICLES
Britain’s largest automotive manufacturer JAGUAR LAND ROVER is using up to 50% recycled aluminium in new cars and aims to have 75% by 2020.

Somerset sports car maker ARIEL MOTOR COMPANY worked with CAGED LASER ENGINEERING, of Frome, and Birmingham-based REYNOLDS TECHNOLOGY to develop a titanium chassis as strong as some steels but 45% lighter.

IMPRESSION TECHNOLOGIES and fellow Coventry SME PAB COVENTRY devised a new aluminium forming technique that is producing lightweight and strong material for leading car manufacturers.

CARBON REDUCTION
GORDON MURRAY DESIGN drew from Formula One to create iStream®. This technology allows car manufacturing to be set up with 80% lower investment and for cars to be produced using 60% less energy.

Clean-and-old power business DEARMAN devised a novel engine that can deliver zero emissions power and cold for refrigerated food transportation.

ELECTRIC MOTORS
Gateshead company SEVCON developed an electric motor controller that could have applications in a variety of electrified vehicles from a fork-lift truck to a sports car.

VEHICLE EFFICIENCY
Additive manufacturer HIETA TECHNOLOGIES developed a waste heat recovery system that could deliver a 5% fuel saving in a conventional engine.

STORING ENERGY
Silverstone-based FLYBRID SYSTEMS used Formula One expertise in kinetic energy to develop a flywheel and transmission that is particularly suited to storing and releasing kinetic energy on bus journeys.
BATTERY TECHNOLOGIES
Culham-based OXIS ENERGY developed a groundbreaking lithium-sulfur rechargeable battery cell that is lighter, more efficient and has less environmental impact than the lithium-ion cells currently used in electric vehicles.

POWERTRAINS
AVID developed a number of powertrain systems for electric and hybrid vehicles that have contributed to improving vehicle efficiency.

TRANSMISSIONS
DRIVE SYSTEM DESIGN developed control software for hybrid and electric vehicle transmissions including the first 3-speed transmission system for electric vehicles on the market.

Sheffield University spin-out MAGNOMATICS developed a contactless, frictionless, magnetic gearbox for hybrid vehicles.

ADVANCED
FORD MOTOR COMPANY’s latest EcoBlue 2.0L diesel engine was built with the help of technologies developed in Innovate UK-funded projects.

AUTONOMOUS VEHICLES
University of Oxford spin-out OXBOTICA developed an award-winning ‘brain’ for driverless cars that can work on any vehicle including forklifts and cargo pods.

RANGE EXTENDERS
DELTA MOTORSPORT built MITRE (Micro Turbine Range Extender), a low-carbon engine that delivers electricity to allow electric vehicles to go further on a limited battery pack.
Engineering firm **OXSENSIS LTD** has grown from just 4 people to a 26-strong team, with an annual turnover of more than £2 million.

**Oxsensis Ltd** manufactures dynamic pressure sensors that operate at extreme temperatures. The firm has recently concluded a deal with aero engine instrumentation partnership Parker Aerospace.

CEO Ian Macafee commented: "This deal with Parker Aerospace was successful as a direct result of an Innovate UK programme – it was instrumental in forming this relationship."
VERSARIEN grew from a 2-person garage start-up to a multi-million-pound advanced materials manufacturing firm in just 3 years.

Versarien now employs 105 people out of 4 sites in the UK. In 2017 it received "one of, if not the biggest, graphene orders in the world," according to founder and chief executive Neill Ricketts. The order came via Versarien's connections at the government-supported National Graphene Institute.

"Graphene is coming of age, moving out of the lab and into the real world," says Ricketts. "It'll be in almost everything that we use from rubber bands to structural components in aircrafts, consumer goods and clothing."
Innovate UK drives productivity and growth by supporting businesses to realise the potential of new technologies, develop ideas and make them a commercial success.

Innovate UK is the trading name of the Technology Strategy Board, which is an executive non-departmental public body sponsored by the Department for Business, Energy and Industrial Strategy and incorporated by Royal Charter in England and Wales with company number RC000818. 

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