Team SKY becomes Team INEOS

INEOS signs agreement with BMW

INEOS inspires a new generation of women
After eight years, we felt it was time for a change. We also felt the new magazine needed to accurately reflect the evolving – and incredibly dynamic – face of INEOS.

In this edition, we focus heavily on investment – and rightly so. INEOS has already invested in some of the most ambitious projects this century – and it is showing no sign of losing its appetite for growth. For change. For taking calculated risks. For taking on fresh challenges.

In this March INEOS was announced as the new sponsor of Sky’s winning Tour de France team – a move championed by Chris Froome, one of the greatest Grand Tour riders in the history of the sport. Just as he shows no signs of slowing down, neither does INEOS.

INEOS is investing in China, in America, in mainland Europe and also in the UK, despite the uncertainty over its future following the EU referendum. Brexit? What Brexit? As far as INEOS is concerned, it’s business as usual.

In this edition, we also look at the plastic waste problem, and what can be done to encourage the public to value the benefits of the material. We explore the concept of the circular economy, and what it means in layman’s terms and review how we can get there if we all work together.

We try to debunk some of the persistent myths surrounding the chemical industry and show that, without us, solar panels, wind turbines, lighter cars and plastic planes simply could not exist.

The Daily Mile – with INEOS’ financial support and founder Elaine Wyllie’s passion – continues to gain an army of supporters.

Through our INEOS Team UK bid for the America’s Cup, we are showing the 1851 Trust to encourage more young people, especially girls, to consider careers in science and engineering. And that’s the message we were successfully spreading during International Women’s Day. We need to attract the very best if our business is to find answers to some of the most complex questions ever faced by society. The challenges are everywhere. But so too are the opportunities.
INEOS has invested in some of the most ambitious projects this century. But it isn’t done yet. Once again, it started the year in a confident mood by announcing a mega-investment of €3 billion – the largest in the European chemical industry for 20 years.

INEOS investments continue to grow the business around the world and this shows no sign of slowing.

USA

In the USA INEOS is adding capacity. Following the start up of its joint venture ethylene oxide and derivatives plant at La Porte in Texas, INEOS has embarked on a series of further expansions including building the world’s largest alkoxylation unit. These expansions are part of a £1 billion investment. INEOS is also planning to increase its cracker capacity to 1,200,000 tonnes of ethylene in 2020.

Europe

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INEOS INVESTMENT

- **Hull**
  - €150 million investment in a new ethylene oxide monomer crystalliser plant at Hull to produce 300,000 tonnes of a chemical widely used in annealed windowglass, toughened glass, adhesives, coatings, films, textiles and carbon fibres. Once up, it will bring production of this important raw material back to the UK.

- **North Sea**
  - £200 million investment to extend the life of one of the UK’s most important pipelines and integrate the 43-year-old Forties Pipeline System which INEOS and Shell operate. The project is expected to last into the 2040’s.

- **UK £1bn**
  - INEOS plans to spend £1 billion in the UK – from the uncertainty surrounding Britain’s departure from the EU.

- **Asia**
  - INEOS has bought its way into the fast-growing high-density polyethylene market in China. The deal between INEOS and China’s SINOPEC gives INEOS a polystyrene production site in Foshan for its first time.

- **Shanghai**
  - INEOS has opened a new office in Shanghai as it looks to work from one base.

- **China**
  - INEOS has secured a deal with SP Energy of China to ship the gas to China. The world’s largest ethane carrier will soon be shipping shale gas to China. INEOS has secured rights to ship liquefied CO2 to China from the UK.

- **Europe**
  - INEOS is in the process of building a £1 billion investment at Grangemouth in Scotland to supply ethylene oxide to INEOS Oxide planning to build an ethylene oxide and derivatives plant at the US Gulf Coast.

- **Germany**
  - INEOS plans to build a gas cracker to break down ethane into ethylene and propylene at a €3 billion investment which INEOS has earmarked for its plants in Antwerp. INEOS Chairman and Founder Jim Ratcliffe said it was “an uncertain moment for the country.”

- **UK**
  - INEOS has confirmed its confidence in the country and is committed to continued investment in manufacturing and highly skilled jobs in the UK.

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  - INEOS is committed to investing in the USA. INEOS has opened a new office in Shanghai as it looks to work from one base.

- **Alabama**
  - INEOS is working with Marathon’s highly skid-proof, white-collar plants in the USA. INEOS is adding capacity at its plant in Alabama.

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- **Chocolate Bayou**
  - INEOS is planning to expand its capacity of its plant in Alabama up to 250,000 tonnes in a year. The plant will retain its own materials from an adjacent linear alpha olefins plant, which has also been built.

- **Köln**
  - INEOS is planning to build a world-scale cumene plant within the integrated Chemiepark in Marl. A 150 hp furnace is being built at its plant in Stenungsund, Sweden to improve efficiency and increase production of ethylene.

- **INOVYN Chlor-Alkali Electrolysis Conversion to Membrane Technology**

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The new energy plant will not only be able to provide steam and power to Petroineos production plants and the INEOS Forties crude oil refinery, INEOS O&P’s petrochemical facility at Grangemouth into a centre of excellence and chemical sciences manufacturing hub.

It is a vision it has shared ever since those first shipments of shale gas began arriving from the US in 2016, and preparations to ensure it happens are already underway.

Old plants and empty buildings are being demolished to make way for future developments and investments. There is a huge lump on the site where the ethane plant from the US is stored, as well as INEOS new four-storey HQ, which has brought together 450 people who work for INEOS O&P.

By 2022 the new power station will be part of the site’s ever-changing skyline.
Europe and into America, China and the Middle East, which manufacture titanium dioxide, a substance used in suncream, cosmetics, toothpaste, paints as well as soap, food colourings and textiles.

"It is no longer competitive," he said. "It is not the moment you live and work for." he said. "This is an investment for an entire generation." He added: "It is not just that the European chemical companies will follow suit, replacing still outdated technology with energy-efficient systems with low emissions. "The world has already been living in America since the shale gas revolution," said John McNally, CEO of INEOS Project One, the INEOS organisation created to realise the project. If it is hoped that the other European chemical companies will follow suit, replacing still outdated technology with energy-efficient systems with low emissions, the world has already been living in America since the shale gas revolution, said John McNally, CEO of INEOS Project One, the INEOS organisation created to realise the project.

"The USA has the world's largest investment ever made by INEOS from the US - into two million tonnes a year of propylene and ethylene for its own businesses in Europe.

ONE of INEOS’ smallest businesses is starting to flex its financial muscles in a big way. INEOS Enterprises has, in just over a year, doubled its turnover to over $3 billion a year.

"It is the most important economic news in a long time," said Frank Beckx, managing director of essenscia Flanders.

Up to 5,000 people are expected to help build the new plants. Once fully operational in about 2024, circa 400 people will be employed to run them.

Hans Cramer, CEO of INEOS Phenol, said it was rather fitting that INEOS has chosen to build the first gas cracker in Europe for 25 years at The Port of Antwerp.

"This is actually the cradle of INEOS," he said, "It is where it all started in 1998." Bart De Wever, mayor of the City of Antwerp, added: "This is actually the cradle of INEOS. This is the moment you live and work for."

Flemish and national governments have, he said, "put their faith in INEOS’ decision. We are happy to see it happen in Europe."

John McNally said 100 new engineers would need to be run the plants, and people – both young graduates and experienced engineers and technicians – were already queuing up.

"We have had a massive amount of interest," he said. "For every opening we have, we must have 20 or more applicants. It’s an exciting time."

Enterprising business reaps rewards of smart thinking

INESOS Enterprises is hoping to finalize the deal with Tronox for two American plants which manufacture titanium dioxide, a substance used in suncream, cosmetics, toothpaste, paints as well as soap, food colourings and textiles.

"It makes things white and it is very good at it," said Ashley.

£3 billion boost

INEOS investment will reverse years of decline in European chemical industry

President Jean-Claude Juncker.

"The USA doesn’t have green taxes but it does base its very high environmental standards on its perceived permits for new builds."

He added: Europe already had laws that were uninviting for employers.

"It is no longer competitive," he said. "And giving it away with green taxes prevents renewal as it frightens away investment. It also punishes manufacturing to other parts of the world that cares less for the environment."

"INESOS’ decision to invest in Europe goes against the grain, but it makes financial sense. For the new cracker and PDH plant in Antwerp, we will be converting huge quantities of shale gas – shipped by INEOS from the US – into two million tonnes a year of propylene and styrene for its own businesses in Europe.

INEOS has built its fortune by buying unloved assets – and transforming them into reliable, productive and profitable companies. The Flint Hills business, which makes purified isophthalic acid, trimellitic anhydride and maleic anhydride at its production facility in Joliet, Illinois, has been renamed INEOS Joliet. The business, which also has offices and distribution centres in America, Europe and Asia, sells its products throughout the world to others who use them to help make clothing, paints and gasoline additives. The deal to acquire Ashland’s entire composites business is expected to be completed soon.

INESOS agreed to pay $1.1 billion in November for 20 manufacturing sites in Europe, North and South America, Asia and the Middle East, which employ 1,350 people. Ashland’s resins are light, strong and fire resistant and, as such, have been favoured by the world’s boat builders for 30 years. The companies are also increasingly replacing the aluminium or steel frameworks in cars because they are lighter. That, in turn, saves on fuel and increases efficiency.

INESOS Enterprises is also hoping to finalize the deal with Tronox for two American plants which manufacture titanium dioxide, a substance used in suncream, cosmetics, toothpaste, paints as well as soap, food colourings and textiles.

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INEOS has bought its very first manufacturing sites in China. The deal between INEOS Styrolution and French company Total for its two polystyrene production sites was finalised in February and could now pave the way for further investments in Asia.

“Asia is a growing market for us,” said Kevin McQuade, CEO of INEOS Styrolution. “We saw the recent acquisition as a platform to build on.”

Historically China has imported raw materials and exported the finished products. That is now changing due to a fast-growing consumer market at home.

About 70% of the future growth for styrenics is expected to come from China, which is home to more than one billion people, many of whom are now demanding modern consumer goods as their standard of living improves.

As the biggest supplier of styrenics in the world, INEOS Styrolution believes investing in China will help it to grow and retain its number one position in the market.

“We not only want to maintain our leadership position in the world,” said Kevin. “We want to strengthen it.”

INEOS Styrolution, which makes plastics for cars, electronics, the toy and construction industries, currently exports products to its customers in China mostly from Korea and Thailand.

But having a manufacturing foothold in China will allow it to better serve its existing core customers, help to develop China’s growing manufacturing industry and build strong, mutually-beneficial relationships across China.

Polystyrene from its new manufacturing sites in Foshan and Ningbo, both of which will be able to produce 200,000 tonnes a year, will be mostly destined for the Chinese electronic, household and packaging markets.

“Asia is a growing market for us, says INEOS Styrolution

INEOS has opened a new office in Shanghai so that all its Chinese sales and business teams can work from one base.

INEOS had three offices in the city. One it inherited when it bought BP Chemicals in 2005, the second followed the merger of BASF and INEOS Styrenics in 2011, and it gained a third when it recently acquired the Chinese styrenics business of Total.

“By creating one new location, we will be able to provide additional opportunities for our staff to develop and progress in a larger co-ordinated team,” said David Thompson, CEO of INEOS Trading & Shipping.

The official opening of the new office was hosted by Kevin McQuade, CEO of Styrolution, and attended by Minhao Zhou, Mayor of Shanghai Municipal People’s Government, Putuo District.

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ALL POWER TO BMW

Projekt Grenadier steps up a gear with world-class engine deal

“We believe BMW builds the best engines in the world.” Dirk Heilmann, CEO of INEOS Automotive

“Simply put, BMW builds the best engines in the world. Its petrol and diesel engines offer great durability and unquestionable quality, not to mention high performance and efficiency. We are building an uncompromising working 4x4 and there is no better choice under the bonnet than a BMW engine.”

“We believe BMW builds the best engines in the world.” Dirk Heilmann, CEO of INEOS Automotive

“Ineos’ ambitious plans to build a no-nonsense, robust 4x4 have turned another corner. It recently announced that its new off-roader will be powered by BMW’s latest generation of TwinPower Turbo petrol and diesel engines. Dirk Heilmann, CEO of INEOS Automotive, commented: “Simply put, BMW builds the best engines in the world. Its petrol and diesel engines offer great durability and unquestionable quality, not to mention high performance and efficiency. We are building an uncompromising working 4x4 and there is no better choice under the bonnet than a BMW engine.”

“The technology partnership is a very significant milestone for Projekt Grenadier,” added Mark Tennant, Commercial Director of INEOS Automotive. “It is a partnership that clearly signals our intent. Having BMW alongside us makes a strong statement to the rest of the industry.”

Off the back of this announcement, in early April INEOS Automotive held an open day for suppliers in Stuttgart, Germany, with the aim of introducing the company, its values, and the story of Projekt Grenadier so far. “Following the powertrain decision, we are now moving ahead with the nomination of suppliers for other major components,” said Oliver Felle, Director of Procurement at INEOS Automotive. “This supplier day, attended by our engineering partners, MBtech and Magna as well as BMW, allowed us to showcase the ambition of the project to a room full of world-class potential partners in the automotive supply chain.”

The event was attended by over 300 people from 100 different companies representing all major component areas of the vehicle. As well as sharing the Projekt philosophy and planning assumptions, Tom Crofty, Group Communications Director, was on hand to introduce INEOS Group – leaving the audience with the story of the Dragon Ships as a great example of supply chain partnerships, the INEOS way.

Since the plans to build its own 4x4 were first hatched over a pint in The Grenadier, the London pub close to INEOS’ HQ in 2016, INEOS Automotive has grown into a fully-fledged international company with bases in the UK and Germany.

With a permanent staff of 50 (and growing) at its London base, the team have this April opened a new office in the automotive centre of Böblingen, Germany, to host its design, engineering and procurement teams. The INEOS Automotive office is adjacent to that of MBtech, lead engineering partner for Projekt Grenadier and a former subsidiary of Mercedes Benz. MBtech now has some 200 engineers working full-time on Projekt Grenadier.

With two years to go until launch, much remains to be done but the project is making great advances across a broad front. Says Dirk Heilmann: “Chassis and suspension work is ongoing in Austria using our first ‘mule vehicle’; the exterior design is all but finalised, with the interior now progressing well; following BMW, supplier nominations are now beginning in earnest; and we are now very close to announcing our choice of manufacturing location.”

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“WE BELIEVE BMW BUILDS THE BEST ENGINES IN THE WORLD.”

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WE live in a throwaway society. Food, clothes, electronics and iPhones are all traded in regularly for newer, trendier, smarter goods. But the stark reality of living like that is coming back to haunt us all. For when we throw something away, it simply becomes someone else’s problem. It has to go somewhere.
INEOS is now evaluating technologies capable of turning all plastic waste — no matter how contaminated — back into its original raw material so it could be fed back into INEOS plants to make new, high-quality products.

“The key advantage is that using this approach all plastic waste, even the lowest value mixed waste, can be recycled,” said Peter.

For polyolefins, chemical recycling, as it is known, can be especially effective, because the process causes the polyolefins to de-polymerise, which produces aylene monomer product that can be fed back into the polymerisation reactor.

“Although it’s early days, and the technical challenges are significant, progress is being made,” especially at INEOS Styrolution, where recovered monomer liquids are already being tested in its pilot plants, he said.

Chemical recycling is seen as the holy grail because it will mean the chemical industry reduces its reliance on fossil fuels — oil and gas — to make its products. Waste plastic will be its new, valuable raw material.

Peter said that as well as developing new polymers and new ways of recycling plastics, a large investment is needed by governments around the world in strategically placing the infrastructure for collecting, sorting and recycling advanced polymers.

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PVC IS LABELLED FIT FOR 21ST CENTURY

The world will soon learn just how far PVC — a plastic once demonised by so many — has come. Details of how many tonnes of PVC are recycled this year will be published at the VinylPlus general Assembly in Prague in May this year.

“We are reasonably bullish that yet again VinylPlus will produce another increase in recycled volumes for 2018 but tonnages have yet to be recorded,” said Dr Jason Leadbetter, Sustainability & Corporate Social Responsibility Manager at INOVYN.

That said, he’s confident that the figures will demonstrate that PVC, one of the most widely used plastics in the world, deserves to be at the heart of the circular economy.

Since 2000, Recovinyl – the recycling arm of VinylPlus – has recycled more than four million tonnes of PVC window frames, pipe, tubing, cable, construction and medical devices. PVC is labelled a material of land and ocean litter, each of us — the production industry, governments and other stakeholders — have a very clear vision of how it can be done. But it cannot do it alone.

“We are working with recyclers and our customers to enable plastics to be recycled and incorporated into new products,” said Peter Williams, Group Technology Director.

In 2000 Australian organisers buckled under pressure from environmental groups and banned PVC from the Sydney Olympics. The material was effectively labelled a public menace. Almost 20 years on, PVC has more than proved it is a material fit for the 21st century.

As a result, the material, which can withstand pouring rain, raging seas and blazing sunshine, is heavily used in the construction industry and makes a massive contribution to the world of modern sport.

Every year 640,000 tonnes of PVC are recycled in Europe through the VinylPlus initiative and INEOS anticipates increasing it to 800,000 tonnes by 2020.

Polyolefins — the plastics found in milk bottles, food packaging and medical applications — can also be recycled.

As a result, the material, which can withstand pouring rain, raging seas and blazing sunshine, is heavily used in the construction industry and makes a massive contribution to the world of modern sport.

Polyolefins are already being recycled into many products which have been given permission to display the new VinylPlus Product Label — Vinyl Verified — on their products.

“The label is a differentiator in the market,” said Jason. “It has taken seven years in the making but its rollout, as expected, has been launched and adopted already.”

This initiative, which, almost by definition, is the construction industry, has been developed by VinylPlus, ultimately from INOVYN Global Inc.

The Natural Step, and INOVYN is proud to be part of it.

“The label itself allows companies to raise the bar from a sustainability perspective,” said Jason.

To meet the demanding criteria, INOVYN has also played its part in demonstrating responsible management of the PVC resin itself.

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THE 2012 OLYMPIC STADIUM FEATURES A TENSILE MEMBRANE PVC ROOF

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WHAT IS A CIRCULAR ECONOMY – AND HOW DO WE GET THERE?

IN nature, waste doesn’t exist. Everything that dies returns to the earth and grows again. In short, it goes full circle. Our economy operates in a different way. We make, use and then simply throw things away.

But a shift in global thinking could help us to create a circular economy. An economy, in which we reuse products, sell them to consumers, and then return them so that the components can be reabsorbed into new products.

“Recycling won’t eliminate all litter,” says Peter Williams, Group Technology Director. “Stopping littering needs better waste management in many parts of the world, but it also needs a collective behavioural change. We need to think about what is required in different parts of the world, then engage on plastic that is plastic built, which benefits us in many ways.”

Peter said there was no silver bullet.

“The recycling technology of today is too limited,” he said. “New technologies and a mix of approaches will be needed, but we don’t yet know what the right mix will be. Legislators and regulators need to understand that, and not favour one technology over another. If we need a framework to encourage the development of different approaches from which the most effective ones will emerge,” he said.

The same applies to NGOs, which he says are at their best when they deal directly with industry, so that challenges and practicalities could be shared and understood before any plans are revealed.

“They play an important role in raising questions, but usually the answers have to come from elsewhere, and especially from the industries concerned. Stakeholders who refuse to engage are approaching the issue with one eye closed.”

INEOS believes that efforts to create a circular economy – and keep keep plastics out of the ocean – needs industry-wide participation if they are to succeed.

“Everyone has a role to play in helping to tackle this issue,” said Peter Williams, Group Technology Director for INEOS.

“INEOS is working closely with others, businesses from across the world, to make our economy into one where plastics are designed to be used over and over again.”

Unfortunately, The Ellen MacArthur Foundation, which recently launched its Global Commitment programme as part of its New Plastics Economy, will not be a partner.

INEOS was told late last year that some of the foundation’s stakeholders did not want to be associated with an industry that extracts raw materials from the earth.

“I was surprised, because we had worked hard on a meaningful pledge,” said Peter.

INEOS and the foundation had agreed ambitious recycling targets, which were due to be included in the foundation’s Global Commitment.

“The foundation was seeking commitments to the circular economy, in the form of hard targets, from all participants in the polymers value chain,” he said. “So I was disappointed to find us being excluded at the last minute. It makes a circular economy, which we all believe in, our industry has to be engaged. It has that volume, the know-how and the capability to make a difference.”

The foundation told INEOS, which is one of the biggest polymer producers in the world, that it had been a difficult decision but it was only a ‘temporary hold’. INEOS, which is one of the biggest polymer producers in the world, did not want to dwell on the disappointment, though. INEOS quickly launched its own global pledge to move towards a more circular economy for plastic packaging.

“We think it is possible – through innovation and partnership – to retain the value of our polymers by rethinking the way we produce and recover them at the end of their life,” said Peter.

WE ALL HAVE A ROLE TO PLAY, SAYS INEOS

INEOS and its members have set ambitious targets to meet by 2025.

1. OFFER A RANGE OF POLYOLEFIN PRODUCTS FOR PACKAGING APPLICATIONS IN EUROPE CONTAINING 50% OR MORE RECYCLED CONTENT

2. USE, ON AVERAGE, 30% RECYCLED CONTENT IN PRODUCTS DESTINED FOR POLYSTYRENE PACKAGING IN EUROPE

3. INCORPORATE AT LEAST 325KT/A OF RECYCLED MATERIAL INTO PRODUCTS

4. ENSURE 100% OF POLYMER PRODUCTS CAN BE RECYCLED

Our Pledge

PLASTICS: WASTE NOT WANT NOT
Our world is changing. And no one is immune. Dwindling natural resources, a growing population, poverty and climate change are forcing us to face up to some of the most complex questions ever asked of mankind.

The public very often does not see a role for the chemical industry in creating a sustainable economy. It is seen as a sunset industry. An industry that’s had its day. Fossil fuels – gas and oil – are in the past. What the world needs is renewable energy.

“It can be frustrating,” said Peter Williams, INEOS’ Group Technology Director. “People don’t see a link between the chemical industry and solar panels, wind turbines, lighter and more fuel-efficient transport. But we can’t just sit and complain about that.”

Wind turbines, solar panels, electric and lighter, more fuel-efficient cars would simply not exist without the chemical industry.

“We all have to up our game on communication of what we do, where materials come from, why they are used and the benefits they bring,” he said. “To us, the measure of a sustainable economy is one that leaves the environment untouched or improves it, that creates affordable and sustainable products, and that provides employment in communities.”

As the world’s population continues to rise, it is estimated that 0.1 billion people will need food and water by the year 2050. Plastic packaging which is often perceived as unnecessary, extends the shelf life of fresh fruit and vegetables and, in doing so, dramatically reduces food waste.

The Environmental Protection Agency in America recently revealed that food rotting in landfills releases methane, a greenhouse gas 21 times more potent than carbon dioxide. The UN estimates that every year 30% of food produced throughout the world is wasted.

The cost is the retail equivalent of $1 trillion – twice the GDP of Norway.

One major UK supermarket recently stopped selling loose fruit and vegetables because so much was going to waste.

The Food and Agriculture Organisation said nature was also bearing the cost, with $172 billion of water wasted producing the unwanted food.

“The products we produce and supply to other industries and society enable significant resource and energy savings,” said Petra Inghelbrecht, INEOS Styrolution’s Global Sustainability Manager.

INEOS also manufactures chemical products that are used to make insulation for people’s homes. As it stands, poorly-insulated homes produce tonnes of greenhouse gases.

But INEOS isn’t just focused on its customers. It is always looking for new ways of doing things that keep its own business one step ahead.

Saving energy has always been

### WHY WE MATTER

Our products enhance almost every aspect of modern life. Without us, society, as we know it, wouldn’t function.

We are helping to create the path to a lower carbon economy, starting with our processes and products.
And we are doing all we can to work towards a circular economy.

### HOW WE WORK

We operate in a responsible, safe & efficient way.
We talk to local communities and support them where we can.
We work with other industries to try to share processes, natural resources.
We recruit the best so that together we can find the best solutions to society’s greatest challenges.
SOLAR PANELS

INEOS makes many of the raw materials that go into solar panels including the materials for the active layer and coating. And all the inside using gas. In fact, solar cell production is quite chemical and gas intensive. Manufacturers use a whole load of gas and chemical products, including ammonia, methanol, sulfuric acid, hydrofluoric acid, phosgene and diborane. Many believe the growth in the solar cell market could actually show a renewed wave of growth for the gases industry.

“Our industry may be energy and carbon-intensive, but it is highly efficient,” said Peter. “If we use fewer raw materials and less energy to make something, there are fewer emissions. Good business and the circular economy are in this sense well aligned.”

And it’s happening at many of INEOS sites around the world.

In Thailand, water is recycled from the centrifuges so it can be reused in the production process.

In India, Namco harvesting facilities have been built to conserve namesake for reuse onsite.

In the UK, household waste is now diverted from a landfill site to INEOS site in Runcorn where it is incinerated in a combined heat and power plant to produce electricity and steam.

In short, INEOS never stops looking for ways to do things more efficiently.

That’s why you will often see its businesses on some of the largest integrated chemical sites in the world, like it in Belgium, Germany, Sweden, China or France, where they can share ideas and resources with other companies.

Last year INEOS was chosen to head up a four-year project to help different industries understand how energy, materials and services could be shared more efficiently. The idea is that one man’s waste is another man’s treasure.

“To me the project is all about thinking creatively about how to build a more sustainable future,” said Hélène Cervo, a research engineer and PhD student at Lavera Research.

Sustainability efforts include a broad range of projects which are focused on improving process efficiency at all our production plants,” said Petra.

She said INEOS always sought to get ‘more for less’ by cutting down on the amount of raw materials and energy it used to make products – and limiting the amount of waste and water by-products, such as CO2.

It makes sense to INEOS as a business to keep down costs, and nowadays its customers who want and expect all measures to be taken to minimize negative impact on the environment.

CARS

INEOS makes about 1.4 billion car components on the road. As regulations demand greater and greater fuel efficiency, plastic is increasingly the material of choice for dashboards, bumpers, body panels, engine parts, and even the doors and lights of cars. It can be recycled and it doesn’t corrode. Demand for better fuel economy and better-performing engines has also led to an increase in the interest in low viscosity engine oil. INEOS Oligomers provides the manufacturers of synthetic oils and additive suppliers with the highest quality base oils that help to improve a car’s overall efficiency. And PVC is used to coat the wires of electrical components in cars because it is flame resistant and, unlike rubber, doesn’t perish. It is also used as car wiring of electrical components in cars.

At Runcorn where it is incinerated in a combined heat and power plant to produce electricity and steam. But despite that, there are still 97% of the demand for district heating in Sweden met by traditional energy sources.

PLASTIC PIPES

Plastic pipes are now carrying fresh water to people living in some of the poorest parts of the world. Unlike steel pipes, they are cheaper, easy to make, barely leak and can last up to 100 years. For the millions without access to clean water, they are proving a godsend.

“A four-year project to help different industries understand how energy, materials and services could be shared more efficiently. The idea is that one man’s waste is another man’s treasure.”

“Many believe the growth in the solar cell market could actually show a renewed wave of growth for the gases industry.”

“INEOS is a company involved in helping to solve Europe’s ‘plastic plague’ off the ground. Being predominantly plastic, the 787 is much lighter than Airbus’ 380 and, as a result, travels much further with the same amount of fuel. By using Boeing’s new commercial jet has flourished. Airbus’ jalouise – the world’s largest passenger record – has been scrapped due to lack of demand. The 787 is the first commercial jet with a carbon fibre wing and wing. Acrylonitrile from INEOS is essential for the production of carbon fibre for this and also for many other uses. The advanced materials are known as ‘composites’, which can confer higher output powers and high-occupancy than traditional aluminium and steel planes, thus reducing the weight, cost and operating costs that are far lower.”

“INEOS believes that a circular and sustainable economy is achievable. And the chemical industry, with the incentive, know-how and capability to make a difference, is key.”

ARCTIC

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INEOS inspires a new generation of women

WOMEN’S voices have been heard at INEOS for years because the company values their contribution to science and engineering. INEOS just wants to hear more of them.

As part of International Women’s Day, one of INEOS’ charities, The 1851 Trust, harnessed the power of sport to excite the imaginations of 120 young girls – and help bring science to life.

The girls had been invited to the Portsmouth home of INEOS Team UK, the team behind Britain’s bid to win the world’s oldest and most coveted trophy, The America’s Cup.

“Using the excitement around The America’s Cup was a great way to bring children in,” said Amelia Gould, Chief of Staff at BAE Systems, who was at the event to help show schoolgirls that STEM (science, technology, engineering and maths) subjects are not just for the boys.

During the day the girls, aged 11 to 13, were shown how the INEOS team has been using science and technology to design and build a ‘flying’ boat capable of 60mph and powered only by the wind.

The girls also met young women apprentices and graduates working in STEM industries, and remarkable women sailors Dee Caffari MBE and 1851 Trust Ambassador Annie Lush, who have both sailed around the world.

The 1851 Trust, which is the official charity of INEOS Team UK, used the occasion to launch its Next Generation Roadshow for Girls programme.

The programme, which is aimed at inspiring a new generation of female STEM role models, will be rolled out across the UK this year thanks to funding from the UK Government’s Department for Transport.

Research throughout the world has shown how young women regularly shun careers in science, technology, engineering and maths.

“We want to change that because we understand completely the need to bring new and diverse talent into the chemical industry,” said Anne-Gret Iturriaga Abarzua, Head of Communications at INEOS in Köln, who flew in from Germany to attend the UK event.

INEOS in Köln has successfully addressed the interest in science among all young people for the past 11 years through the TuWaS! Programme, which encourages primary and secondary school children to ask questions rather than receive ready-made answers.

Its champion is Anne Greit and INEOS in Köln is the biggest financial supporter in the Rhineland where it sponsors 34 schools.

In the UK though, young women represent just 22% of those in STEM careers. However, with an estimated 174,000 STEM roles due to be unfilled next year, it is vital that the gender imbalance is addressed to plug the gap.

Ben Cartledge, CEO of The 1851 Trust, said it had been wonderful to see a new generation of girls inspired to explore the possibility of a STEM career – and INEOS Team UK’s base had been the perfect place to do it where cutting-edge technology is being employed to design and build the fastest sailing boat in the world.

“STEM has already played such a crucial role in The America’s Cup campaign,” said Anne-Gret. She added: “We are now exploring ways of bridging the efforts in the UK and Germany by learning from each other.”
The Daily Mile

One woman’s vision to improve children’s fitness has now spread all over the world. INCH looks back at what has been achieved so far ...

The Daily Mile articles
1. Fitter, leaner, healthier, happier
2. Movie stardom
3. Focus on academic achievement
4. £1.5 million provides solid foundation for The Daily Mile
5. Royal blessing
Fitter, leaner, healthier, happier

To date, over 1.7 million children in 61 countries now regularly run The Daily Mile, a simple initiative dreamed up by a Scottish headteacher who was worried about her unfit pupils.

“I can hardly believe it myself,” said founder Elaine Wyllie.

Since that day in 2012, when Elaine witnessed her own pupils wilt after attempting to run around the school field without stopping, her simple campaign has won worldwide recognition and backing from the likes of Wimbledon champion Sir Andy Murray, athlete Sir Mo Farah, Manchester United footballer Jesse Lingard and Hollywood film-makers. The trailer of The Kid Who Would Be King was released on ITV just a few days before the film (which is about a modern-day schoolboy who finds King Arthur’s legendary sword) opened at cinemas throughout the UK.

Research has shown that children who run it are not only fitter, leaner, healthier and happier, but they are also more eager to learn when they return to their desks.

In short, it has been absolutely phenomenal. Yet, few had heard of Elaine until 2015 when she was named Teacher of the Year in the Pride of Britain awards. At that star-studded awards ceremony in London, Elaine was so shy she was seen gazing at theLike, a little overwhelmed by all the attention. Her husband must have learned a bit about her running habit because he brought her seven pairs of running trainers as part of her award.

But that was just the start of it. Since that day, other schools started taking notice of what she was doing, as did INEOS Chairman Sir Jim Ratcliffe.

He had founded a similar initiative, GO Run For Fun, and decided to meet Elaine to see if INEOS could help financially to roll out the programme. It was a meeting of minds. INEOS was on board.

Studies were being carried out into the effects of a child taking a quick active break from their desks every day.

Children from a primary school in Surrey in the UK revealed they had ran 58,522 miles since The Daily Mile was launched in their school. That’s effectively running to the moon and back. That’s running around the world twice.

In May last year UK Prime Minister Theresa May praised The Daily Mile in the House of Commons as an “excellent programme” and called on schools to sign up.

Two months later the Government’s Childhood Obesity strategy was published and included the ‘fantastic Daily Mile initiative’ as a way to ‘improve the physical, social and mental wellbeing of our children regardless of age, ability or circumstance.’

Last year, ITV partnered with The Daily Mile, launching its first-ever ad campaign and offering editorial coverage.

The result was amazing. The number of schools signups increased 150%.

This year Hollywood film-makers 20th Century Fox have helped to launch an innovative new ad campaign to encourage children to rise up and run The Daily Mile.

A spoof trailer of The Kid Who Would Be King was released on ITV just a few days before the film (which is about a modern-day schoolboy who finds King Arthur’s legendary sword) opened at cinemas throughout the UK.

Hollywood Knights Lay Down the Gauntlet to Children Everywhere.

A SPOOF trailer of The Kid Who Would Be King has been made – to encourage children to rise up, take charge of their health and run The Daily Mile.

The trailer was released, with 20th Century Fox’s blessing, on ITV just a few days before the film (which is about a modern-day school boy who finds King Arthur’s legendary sword) opened at cinemas throughout the UK.

It features all the main stars, including Angus Imrie (Merlin the wizard), Louis Ashbourne Serkis (the boy who finds King Arthur’s legendary sword) and Rebecca Ferguson (an evil sorceress and old enemy of Merlin).

In it, Angus tells pupils from the fictitious Dungate Academy: “You must gather your team of knights. Your quest is to join The Daily Mile and get fit for life. Who will swear allegiance and run with us?”

Every day a school, wanting to adopt The Daily Mile, gets in touch with the team at The Daily Mile Foundation, who are based in INEOS’ Hans Crescent, London, office.

For Elaine, who was awarded an MBE in this year’s New Year’s Honours List, it doesn’t get much better than this.

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Focus on academic achievement

THE university, which has given the world penicillin, synthetic dyes and holography, is now exploring the merits of The Daily Mile.

London’s Imperial College has agreed to work with The Daily Mile Foundation to collate all the research that has already been published or is due to be published over the next three years. It will then build a structured study to test the impact of the initiative on children’s mental and physical health, which can be more widely adopted across the world.

The research will include the UK Government-supported National Childhood Measurement Programme (NCMP) as a secondary data set.

Over the years there has been plenty of anecdotal evidence about the benefits to a child’s health and well-being of running – or walking – The Daily Mile every day. It seems like common sense.

Studies and surveys have shown children are more energized, confident, and do better in the classroom after a 15-minute break from their desks.

The initiative has also won praise from the likes of Sir Mo Farah, Sir Andy Murray and Paula Radcliffe.

What’s been lacking is the scientific proof.

“We’re very excited with the growing body of research looking at The Daily Mile around the world,” said Emily Carson, Research Coordinator for The Daily Mile Foundation.

From next month, a strategic lead and two part-time staff will be working in the London Marathon offices to encourage every primary school in London’s 32 boroughs to run The Daily Mile.

Sir Mo Farah, who will be running this year’s London Marathon on Sunday April 28, said The Daily Mile was a brilliant and easy way to get kids moving.

“I am a die-hard fan and encourage my kids to be active every day,” he said.

London Marathon Events Ltd has also joined forces with the Foundation.

SPORT England has pledged £1.5 million of National Lottery funding to spread the word about The Daily Mile.

Its new partnership with The Daily Mile Foundation will pay for 11 local, one northern and one national coordinator to encourage more school children in England to run – at their own pace – for 15 minutes every day.

But that’s not all.

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So far, about 3,000 schools in England take part in The Daily Mile, the vision, though, is for every school – all 20,000 of them – to be involved.

“The Daily Mile is simple to get children outside for 15 mins every day to run or jog at their own pace, making them fitter, healthier, and improving concentrations in the classroom – The Duchess scolled about its benefits with PE teacher Mr Higgins @ChildrensMentalHealthWk,” Sport England CEO, Tim Hollingsworth, said.

For more information about The Daily Mile, visit www.dailymile.org.uk

£0.78m

Number of children running The Daily Mile around the world

£0

The cost of joining The Daily Mile is free! It’s free, simple and easy.

£15

The number of minutes children should spend outside running, or walking, The Daily Mile at their own pace

2030

The UK government wants to halve childhood obesity by 2030 and believes The Daily Mile will be key to helping to achieve that.

£1.5 million

provides solid foundation for The Daily Mile

2018

Lives Survey 2018 – which showed that more than 2.3 million children in England do less than 30 minutes of physical activity a day.

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The cost of joining The Daily Mile is free! It’s free, simple and easy.

£15

The number of minutes children should spend outside running, or walking, The Daily Mile at their own pace

2030

The UK government wants to halve childhood obesity by 2030 and believes The Daily Mile will be key to helping to achieve that.

£1.5 million

provides solid foundation for The Daily Mile

2018

Lives Survey 2018 – which showed that more than 2.3 million children in England do less than 30 minutes of physical activity a day.
The Wind in their Sails

INOVYN trio help sail 125ft tall ship across the Irish Sea

Rob Raven, 25
Jacob Dossett, 24
Josh Murray, 24
NEOS has arguably cornered the market when it comes to offering its graduates the experience of a lifetime on land (see In Nam Challenge, p27).

So it was only a matter of time before it looked for an equally exciting adventure to show them what they were truly capable of – at sea. The challenge was the chance to race 16 other vessels from Liverpool to Dublin on board a 125ft tall ship.

The Merseyside Adventure Sailing Trust’s Apprentice Ship Cup is billed as a life-changing adventure, one that strengthens character, fortitude and self-confidence – and with thrill-seeking Jim Platoff at INEOS helm, that was always going to appeal to the company.

"Climbing the 95ft masts while the ship is at sea certainly gets the blood pumping," said Jacob Dossett, one of the three INOVYN graduates who competed in the race.

To give its graduates a taste of what might be expected in the race, INOVYN had arranged for them to meet the captain of a tall ship berthed at Liverpool Docks.

"We wanted them to see for themselves the vessel that they would be spending the best part of a week on," said Brian Turner, INOVYN Learning & Development Manager.

When they got back to the office, all were keen to join the ship’s crew for the challenge.

"Unfortunately, the timing meant some of our graduates already had commitments that couldn’t be changed," said Brian. "But three of our graduates signed up."

For almost a week Rob Raven, 25, Jacob Dossett, 24 and Josh Munsey, 24, with the other crew members worked in shifts around the clock to steady the ship, remain on course and stay motivated.

"It was good fun pulling together especially when the weather was challenging," said Jacob. "All three of us worked a 12-hour stint to keep on course when many other members of the crew were down with sea sickness." For Rob, adapting to working with a team of mixed abilities and motivation was the biggest challenge.

"It was hard but being thrown into such a mixed team helped me to develop team working, networking and leadership skills," he said.

All three are now back on dry land – and have done themselves and INEOS proud.

"It was amazing to win," said Jacob. "But we could not have done this without INOVYN support. It was said by organised and driven by the INOVYN team."

The three also shared the award for the best trainee on board.

"Normally there is only one award but the captain and professional crew could not distinguish between them, so they got one each," said Tony McCrory, INOVYN HR Director.

But the good news did not end there. The Merseyside Adventure Sailing Trust weren’t only impressed with the quality of INEOS’ graduates. They rather admired the company’s ethos too – and at the recent awards ceremony at Liverpool’s Merseyside Maritime Museum, INOVYN was awarded the Apprentice Ship Cup for 2018. "That was a big surprise," said Brian.

"It is starting to set us apart from other companies," said Brian. In May this year INEOS will once again take a group of its 3rd year graduates to Africa to embark on a 200km run and cycle through the untouched Namibian desert.

"We love challenges like these because it is an opportunity to take the graduates into a very different environment and test their ability to adapt quickly," said Brian. "These opportunities also help them to discover what unique qualities they have and show them what they can achieve by working as a team."

Not only has the experience on board the TS Morgenster shown INOVYN’s graduates the importance of communication and teamwork, they have also learned a thing or two about sailing and that the best way to a happy crew is to keep everyone fed and watered.

"The whole experience has definitely brought us all closer together," said Josh. "And that’s really useful given that we share an office."

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After two successful cohorts of the IN-Nam challenge, another group of INEOS graduates are heading for a week in the Namibian desert this May to run, cycle and hike their way across 335km of unforgiving landscape and take on Namibia’s highest mountain, The Brandberg.

The 29 graduates selected will be the largest group yet, and have been training hard over the past year to ready themselves for the adventure. Spread across Europe and North America, the team have encountered a variety of conditions in their training—particularly this winter—but will be guaranteed to face 7 days of intense heat and wind as they battle the sand, the rock and the elements.

The journey began a long time ago, however. Preparation has been thorough, with each graduate having completed at least two training marathons and two mountain biking events—alongside months of running, gym, strength and conditioning. The graduates have been supported by John Mayock, INEOS’ Head of Sports and mentors from last year’s event, as well as nutritionists CorePerformance and African guides Gregg Hughes and Phil Steffny, who will lead them through the desert. This year, the group will also be supported by senior managers Hans Casier (CEO INEOS Phenol) and Gordon Milne (Operations Director INEOS Grangemouth) who will take part in each kilometre of the challenge alongside them.

BACK TO THE DESERT

This spring, INEOS Phenol in Gladbach have been eagerly following the progress of apprentice Mohamed “Momo” Chahine on “Deutschland sucht den Superstar”, the top German TV talent show, where he has qualified for the live show voting rounds.

A talented singer, Momo only really started singing seriously at 18, and has surprised both himself and his colleagues by making it so far in the tough competition. He has a very large fan club at work, where INEOS has produced t-shirts for his many friends and family to support him in the spotlight.

He says, “I am incredibly grateful to INEOS – the company has supported me in every possible way. In particular I would like to thank my trainer Christian Schulte and my manager Benie Marotz, who have both always been there for me and supported me. We’ll be watching him kick and cheering him on through the live rounds.”

GO TEAM MOMO

As spring comes around and the weather gets warmer, running season has arrived. And the INEOS GO Run For Fun schools run event tour is kicking off for another year, bigger and better than ever.

Look out for events in schools around your area, many of which will be asking once more for the assistance of INEOS and local volunteers, to marshal and cheer the children around their 2km runs. This year’s tour will take place in the same international locations as previous years, with participation numbers still growing, and will feature new events in Tavaux, France (24th May) and Steineggen in Norway (24th September).

Some of the events this year will have record numbers of participants. In France, the INEOS GO Run For Fun Sarralbe event on 28th May will have over 4,000 children running, while over 3,000 children will take on a fun run course - and attempt to set a warm-up dance world record. A few weeks before, the GO Run For Fun team in Italy will have celebrated the 300,000th participant at an event in Rosignano.

Amidst this continuing success, the charity is next looking to increase the reach of participation by trialling an “Event in a Box” programme, allowing schools to host their own GO Run For Fun runs. INEOS GO Run For Fun has also partnered with the Solomon Trail Running Festival to pioneer youth trail runs across the UK.

More information and the full schedule of events can be found on www.gorunforfun.com

INEOS GO RUN FOR FUN BACK ON TOUR

June and September. On 20th June, the annual flagship event will be held at London’s Battersea Park, where over 4,000 children from across the capital and further afield will take on a fun run course - and attempt to set a warm-up dance world record. A few weeks before, the GO Run For Fun team in Italy will have celebrated the 300,000th participant at an event in Rosignano.

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IN JUST SIX OVER 3ST MONTHS

GENERAL STORIES ALLAN LOST 1 4ST (89KG) IN THREE improving children’s health through INEOS’ Energy Station

Mely Scheidegger and Allan Slater. Both have lost weight thanks to INEOS’ Energy Station.

Allan lost 1 4st (89kg) in three years; Mely almost over 3st (22kg) in just six months. “We are proud of both of them because change takes time and determination and perseverance,” said John Mayock, who founded The Energy Station.

But Mely’s goal was never to lose weight, despite being about 3st (18kg) overweight. “I had been thin when I was younger, so I had no problem being fat,” she said. “I felt fine the way I was.”

But her mind changed after a disastrous trip to Machu Picchu in the Andes Mountains in Peru with her daughter and niece. “When I got there I realised how unfit I was,” she said. “I was so out of breath I almost had to pay to be flown back down to Lima.”

I was the wake-up call mine needed. At 63, and with plans already for once she’d retired, she realised she needed to be fitter.

Energy Station coach Bram Boeve, who also works for INEOS Football SA, stepped in to help. “I saw through the eyes of the angels,” said Mely and Allan. To blame was Mely’s lifestyle. Although she didn’t smoke, rarely drank alcohol, and didn’t know throughout the day, she was eating too much — much too much of the wrong foods at the wrong time.

“I didn’t want to bother with breakfast and then I would eat food that was quick and easy and my waistline would go out of hand,” she said.

Mely gave her life on how to balance her diet: cut down on the amount of carbohydrates such as pastas and refined potatoes, cut fewer proteins and choose more greens.

She also worked with chefs three times a week for 30 minutes at the INEOS gym in Rolle, Switzerland, where she is a senior financial accountant for INEOS Group.

The advice and exercise programme, put together for them, worked. Within months Mely started to crave healthier food instead of pastas, and was burning, cooling and enjoying fresh food from local farms, sharing her feelings with women who would listen.

Other benefits followed. Her health, fitness and outlook on life improved, and old clothes, which she’d worn when she was slimmer, had come back into fashion. “Her transformation was huge,” said Bram.

Meanwhile, Allan embarked on his quest to lose weight in 2015. First he looked at how much he was eating and decided to cut out salt and sugar.

But his new junk food habit was a bad habit. “I had been thin when I was younger, so I had no problem being fat,” he said. “I felt fine the way I was.”

But Allan realised he needed to be fitter. He had gone to the doctors complaining of backache after the Ironman Wales Triathlon and was told he had seven years to live.

“I just didn’t see it coming,” he said. “I had no history of illness. And even to this day, I look at myself in the mirror and acknowledge that on the surface, all may look in hand but beneath my skin, there is a battle going on. My body is attaching itself.”

The disease has affected 41-year-old Pete’s immune system.

PETE McLeavey must find a blood stem cell donor who matches his mixed, unique Chinese-Portuguese heritage if he is to survive.

“Everyone has a genetic twin somewhere out there,” he said. “I am just looking for mine.”

Pete, who lives in the Cheshire village of Bunbury, which is also home to INEOS’ Communications Director Tom Croft, was diagnosed with myeloma in March 2017 – just six months after he had completed one of the toughest triathlons in the world.

He had gone to the doctors complaining of backache after the Ironman Wales Triathlon and was told he had seven years to live. “I just didn’t see it coming,” he said. “I had no history of illness. And even to this day, I look at myself in the mirror and acknowledge that on the surface, all may look in hand but beneath my skin, there is a battle going on. My body is attaching itself.”

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But a donor’s healthy stem cells could be transplanted into his body to give him a new one – and effectively change his life.

“What you realise is that we all have a connection, not just to our immediate circle of friends, but to each and every person on this planet,” he said. “We have so much more in common with one another than not.”

Anyone between the ages of 18-55 and in general good health can become a potential blood stem cell donor.
A TEAM of winning cyclists, who have dominated the Tour de France for years, will soon be riding under INEOS’ banner. For Team Sky is to become Team INEOS.

From May 1, INEOS will become the sole owners of the team, who have enjoyed unprecedented success and inspired millions of people to cycle regularly.

In a tweet, Chris Froome, who has won Tour de France four times for Team Sky since 2013, said: ‘So excited that we as riders and staff will be able to continue on together for 2020 and beyond. Looking forward to continued success as Team INEOS.’

INEOS Chairman Jim Ratcliffe said INEOS was delighted to take on the responsibility of running such a professional team, who have amassed 327 victories, including eight Grand Tours.

That responsibility will pass to INEOS ahead of the Tour de Yorkshire, which starts in Doncaster on May 2.

Team Principal Sir Dave Brailsford said it heralded the start of a hugely-exciting new chapter for the team.

“In INEOS, I know we have found the right partner whose vision, passion and pioneering spirit can lead us to even greater success on and off the bike,” he said.

Over the past few years INEOS has been running its own Tour de France Challenge for staff.

Each year teams of up to 20 are invited to complete each stage of the world’s most famous cycle race.

The only difference is that as the real riders chase each other through the French countryside for the coveted title, INEOS’ teams squeeze in their mileage before, during or after work. Now they will also have a vested interest in a team on the road to watch as well.

Well that’s it for this edition of INCH.

If you have a question, comment or story you’d like featured, please contact inch@ineos.com