

# News story: Leading business leaders and academics join forces with government to make manufacturing 'smarter'

- first meeting of the Made Smarter Commission includes senior members from Airbus, EEF, BAE Systems and the TUC
- the commission will drive the boosting of productivity, create more highly-skilled jobs in the manufacturing industry
- the meeting co-chaired by Business Secretary and Siemens CEO Professor Juergen Maier follows the Made Smarter Review in November 2017

The commission has been established to drive forward digital developments in British manufacturing to boost productivity, create more highly-skilled jobs and enable more efficient, cleaner production systems, as part of the government's modern [Industrial Strategy](#).

Mr Clark and Juergen Maier will be joined by 8 women and 9 men from the some of the world's leading businesses, and trade bodies and academic institutions.

Key priorities for the first meeting include discussing the North West pilot for adoption of digital technology by manufacturers in the North West and the Industrial Strategy Challenge Fund bid for digital manufacturing in development which aims to bring together the UK's world-leading research with business to meet the major industrial and societal challenges of our time.

The commission will also discuss the how the manufacturing industry can be transformed by new techniques such as 3D printing and other innovative uses of digital technologies as well as the need for stronger and more ambitious leadership.

Business Secretary Greg Clark said:

Britain has a long and proud manufacturing heritage currently supporting 2.7 million jobs across the country, and through our modern Industrial Strategy we are creating opportunities for UK manufacturing to continue to grow. The increased adoption of digital technologies will bring enormous benefits potentially generating £455 billion over the next 10 years – boosting productivity, creating thousands of new highly skilled jobs and enabling more efficient, cleaner production systems.

We need strong partnership between government and industry which is exactly why we have established the Made Smarter Commission. I am proud that leading men and women from industry, business and

academia are working with us to turn the ambition into a reality and enable everyone to reap the rewards.

The commission was formed following the launch of the [Made Smarter Review](#) that brought together input and recommendations from over 200 stakeholders, including companies such as Rolls Royce, GKN, IBM, and Accenture. The review had substantive input from SME's as well as academic institutions including the University of Newcastle and the University of Cambridge.

The Made Smarter Commission is designed to oversee and take forward a plan for the sector, including how manufacturing will help realise the Grand Challenges, putting the industry at the heart of the government's modern Industrial Strategy.

Stephen Phipson CBE, EEF CEO said:

As a society we face huge challenges and manufacturing is going to play an ever more key role in how we tackle them. The establishment of the commission is a bold step in harnessing the expertise right across our sector and companies right across the spectrum should applaud the government for setting it up. We look forward to helping it play a key role in helping unleash the potential of manufacturing as part of the fourth industrial revolution and a modern industrial strategy.

Juergen Maier, CEO of Siemens said:

The Made Smarter Commission promises to deliver our core recommendation of driving digitalisation across UK and invigorating industrial strategy. We need now more than ever to unite business, employees and government behind a strategy that boosts industrial productivity and improves living standards. We will build on our North West Pilot, and look at how we can scale our efforts up across the country. If we get this right I believe we can kick start a new industrial revolution, that puts digital tech at the centre of economic policy making.

The UK sits in top 10 largest global manufacturing economies and is the fourth largest in the EU. In 2017, manufacturing GVA totalled £186 billion, supporting 2.7 million jobs (with estimates of 5 million across the whole manufacturing value chain) and still accounts for 48% of the UK total exports of goods and services.

## **Chairs**

- Co-Chair: Rt Hon Greg Clark MP, Secretary of State, Department for Business, Energy and Industrial Strategy (BEIS)
- Co-Chair: Prof Juergen Maier, CEO Siemens UK

## Members

- EEF: Dame Judith Hackitt, Chair
- GSK: Regis Simard, President Pharma Supply Chain
- GE Digital: Deborah Sherry, Chief Commercial Officer
- Renishaw Plc: William Lee OBE, CEO
- Royal Academy of Engineering: Dr Hayaatun Sillem, CEO
- ICW: Margaret Wood MBE, Chair
- Lambert Engineering: Mike Lewis, Associate Sales Director
- Confederation of British Industry (CBI): Carolyn Fairbairn, CEO
- ABB limited: Ian Funnell, CEO
- Nestle UK and Ireland: Dame Fiona Kendrick, Chair and CEO
- Rolls Royce Plc: Hamid Mughal OBE, Director for Global Manufacturing
- TUC: Frances O'Grady, General Secretary
- Accenture: Oliver Benzecry, Managing Director
- Airbus UK: Katherine Bennett OBE, Senior Vice President
- BAE Systems Plc: Nigel Whitehead CBE, Chief Technology Officer
- AT Engine Controls: Andrea Hough OBE, Managing Director
- Jaguar Land Rover Ltd: Grant McPherson, Executive Director (Deputy attending, Graham Jones, Advanced Manufacturing Engineering Director)

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## [News story: Es Devlin OBE to design UK Pavilion at Expo 2020 Dubai](#)

Award-winning British artist Es Devlin OBE is set to design the UK Pavilion at [Expo 2020 Dubai](#). The Pavilion will be the centrepiece of the UK's presence at the Expo – highlighting UK expertise in artificial intelligence and the space sector.

The UK Pavilion at Expo 2020 Dubai will be produced by the London and Dubai based global brand experience agency Avantgarde. The Department for International Trade will lead the UK government's presence with cross-government support.

The Expo will be visited by an estimated 25 million people in the six months from October 2020 to April 2021. World Expos offer the UK a significant opportunity to communicate directly with millions of people, strengthening British soft power and enhancing the UK's reputation on a global stage.

Expos also offer more tangible benefits – they give the UK a platform to attract investment, grow trade, increase tourism and encourage people to study in the UK.

Es Devlin OBE is known for creating stunning large-scale performative sculptures that fuse technology and poetry, including the interactive Fifth Lion sculpture installed in Trafalgar Square. Her dramatic design for the UK

Pavilion is an illuminated sculptural message to which each of the Expo's anticipated 25 million visitors will be invited to contribute.

Explaining her inspiration for the project and what she hopes it will achieve, Es Devlin OBE said:

The idea draws directly on one of Stephen Hawking's final projects, 'Breakthrough Message', a global competition that Hawking and his colleagues conceived in 2015 inviting people worldwide to consider what message we would communicate to express ourselves as a planet, should we one day encounter other advanced civilisations in Space.

What if the UK Pavilion at Expo 2020 became a place where visitors from all over the world chose to take part in a collective global project that showcases British expertise in AI technologies and poetry while transcending national identities.

The Pavilion's 20 metre high glowing LED façade will beam out a collective AI-generated global message

International Trade Secretary Dr Liam Fox MP said:

The quality of design proposals we received for the UK Pavilion were testament to the UK's world leading creative talent and I'm confident that Es Devlin OBE and the team will help us take advantage of this unique opportunity to showcase the very best of British to a truly global audience.

Over six months, my international economic department will help the UK connect with more than 25 million Expo visitors – that's 25 million potential buyers for our products, partners for our firms, tourists for our cities and students for our universities.

This announcement follows a competitive tender process which saw a number of leading designers and firms form consortia to bid for the multi-million-pound contract, and we are grateful for their submissions.

Devlin and Avantgarde will join forces with Manchester-based structural engineers Atelier One and sustainability experts Atelier Ten.

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**[Press release: New UKRI system needs](#)**

# community input on Horizon 2020 grants

A new system is being rolled out today (27 September 2018) as a first step towards supporting the continuity of funding for UK organisations which have been awarded grants from the European Union's flagship programme for science and innovation, Horizon 2020.

UK Research and Innovation (UKRI) is asking recipients of Horizon 2020 grants to input basic information about their awards into a bespoke portal. This will ensure that UKRI can keep UK researchers and businesses informed of the next steps if the government needs to underwrite Horizon 2020 payments.

The UK and the EU's intention is that UK researchers and businesses will continue to be eligible to participate in Horizon 2020 for the remaining duration of the programme.

This is set out in the Financial Provisions of the draft Withdrawal Agreement, which has been agreed by both UK and Commission negotiators, and was welcomed by the other 27 EU countries at March European Council.

As a responsible government, however, the UK government is planning for all eventualities to ensure that cross-border collaboration in science and innovation can continue after EU exit.

Science Minister Sam Gyimah said:

It is imperative that we support our world-class researchers, businesses and scientists to continue to collaborate with EU partners after exit.

While we do not want nor expect no deal, it is right that we plan for every eventuality. The launch of the new UKRI portal today is the next step in our commitment to the recipients of Horizon 2020 funding that we will guarantee funding for the duration of the programme.

The UK government announced 2 years ago that it would [underwrite UK funds](#) for all EU-funded projects successfully bid for while the UK is still a member of the EU.

In July of this year an [extension to that guarantee](#) said that funding for UK participants successfully bid for from exit day until the end of 2020 would also be guaranteed by the UK government, in a no deal scenario.

Last month the UK government announced that if the underwrite needs to come into effect, UKRI is the partner of choice to deliver it.

To ensure UKRI is ready for that eventuality, specialist teams have developed a bespoke portal designed to capture basic information about recipients'

grants and identify a relevant contact at the participating organisation for the project, likely to be the LEAR (Legal Entity Appointed Representative), so that they can be informed of the next steps in the process.

Those in receipt of Horizon 2020 grants need to input their information into the system as soon as possible.

UK Research and Innovation Chief Executive, Professor Sir Mark Walport, said:

It is extremely important that, if required, the underwrite guarantee for Horizon 2020 funding is administered effectively and UKRI is committed to putting in place the mechanisms that will support this. I urge our partners in research and business to work with us to capture the information we need via this portal.

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## [News story: New study shows positive impact of genetic code on TB treatment](#)



Public Health England (PHE) scientists have been part of a UK-wide collaboration which found that our understanding of tuberculosis (TB) genetic code is now detailed enough to predict a person's response to TB treatments. With rapid DNA sequencing technologies available, it will be possible to give the correct drugs to more patients, improving cure rates and helping to stop the spread of drug-resistant strains.

This study was led by the international [CRyPTIC consortium](#) based at the University of Oxford and facilitated by the UK government's 100,000 Genomes Project in partnership with PHE. It is by far the largest of its kind, covering over 10,000 TB genomes from 16 equal partner countries around the globe.

Professor Derrick Crook, Director of the National Infection Service at PHE, said:

We are delighted by the results of this study which suggest that we will be able to treat patients with the right treatments more quickly. This is particularly important in an infection like TB where we know that many people who have the infection may be homeless or not have good access to the health system. Being able to choose the most effective drugs when starting treatment should lead to a quicker reduction in the infection being passed on to others.

This comes after [new data published yesterday, Tuesday 25 September 2018, by PHE](#) revealed that the number of people in England diagnosed with tuberculosis is at its lowest level since 1990, raising the hope that it will soon be consigned to the history books.

## Background

1. The paper, 'Prediction of susceptibility to first-line tuberculosis drugs by DNA sequencing', was published on Wednesday 26 September by the New England Journal of Medicine, and its findings announced at the [United Nations General Assembly high-level meeting on tuberculosis](#).
2. This international research was led by the University of Oxford and supported in the UK by the Department of Health and Social Care through the National Institute for Health Research, Public Health England and the 100,000 Genomes Project. The research also received support from the EMBL's European Bioinformatics Institute (EMBL-EBI), the Medical Research Council, the Wellcome Trust, and the Bill and Melinda Gates Foundation. The University of Leeds, Imperial College London, and the London School of Hygiene & Tropical Medicine were involved in the research.
3. Tuberculosis remains the world's biggest infectious disease killer, claiming 1.7 million lives in 2016. The number of drug-resistant cases is rising, meaning new strategies and interventions are urgently needed if the World Health Organization's (WHO) target to end the global TB epidemic by 2035 is to be met.
4. PHE's [TB in England 2017 annual report](#) is available online.

Published 26 September 2018

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## [Speech: PM speech to the UN General Assembly: 26 September 2018](#)

On behalf of the United Kingdom let me begin by paying tribute to an outstanding leader of this United Nations, who sadly passed away this summer.

Kofi Annan was one of the great Secretaries General, a tireless campaigner for peace and progress, and a champion of human rights and human dignity – whose influence will continue to be felt around the world for years to come.

Over the course of his lifetime he witnessed the extraordinary progress that we as a community of nations have made since this organisation was founded.

Progress in which we have more than halved the number of people living in extreme poverty in this century alone.

Progress in which the number of people killed in conflicts has fallen by three quarters in just over three decades.

And progress in which millions of our citizens lead healthier and longer lives and where – thanks to advances in human knowledge – in medicine, in science and in technology – we are presented with huge opportunities in the years ahead.

Yet today – many are concerned about whether this progress will continue, and fearful about what the future holds.

For the end of the Cold War did not – as many once believed – lead to the inevitable supremacy of open economies and liberal democracies co-operating on the global stage for the common good.

Today instead we face a loss of confidence in those very systems that have delivered so much.

The belief in free markets has been challenged by the financial crisis of 2008, by the concerns of those feeling left behind by globalisation, by the anxieties about the pace and scale of technological change and what that will mean for jobs, and by the unprecedented mass movements of people across borders with all the pressures that can bring.

And after the military interventionism at the beginning of the century, people question the rationale – and indeed legitimacy – of the use of force and involving ourselves in crises and conflicts that are not ours. While at the same time being repelled by the slaughter in Syria and our failure to end it.

These doubts are entirely understandable. So too is the demand for leadership. So those of us who believe in inclusive societies and open economies have a duty to respond: to learn the lessons of the past, to meet people's concerns with practical actions not beguiling illusions and to renew our confidence in the ideas and values that have done so much to benefit so many for so long.

For be in no doubt, if we lack the confidence to step up, others will.

In the last century – whether in the rise of fascism or the spread of Communism – we have seen those on the extreme right and extreme left exploit people's fears, stoke intolerance and racism, close down economies and societies and destroy the peace of nations. And today once more we see



worrying trends in the rise of these movements in Europe and beyond.

We have seen what happens when countries slide into authoritarianism, slowly crushing the basic freedoms and rights of their citizens.

We have seen what happens when corrupt oligarchies rob their nations of the wealth, resources and human capital that are so vital to unlocking a brighter future for their citizens.

We have seen what happens when the natural patriotism which is a cornerstone of a healthy society is warped into aggressive nationalism, exploiting fear and uncertainty to promote identity politics at home and belligerent confrontation abroad, while breaking rules and undermining institutions.

And we see this when states like Russia flagrantly breach international norms – from the seizing of sovereign territory to the reckless use of chemical weapons on the streets of Britain by agents of the Russian GRU.

We have to show there is a better way to meet the concerns of our people.

That way lies in global cooperation between strong and accountable states based on open economies and inclusive societies.

That ensures strong nation states provide the bonds that bring citizens together and ensures power remains accountable to those it is there to serve.

That celebrates free markets and has the confidence to reform them when they need to work better.

And that demonstrates that delivering for your citizens at home does not have to be at the expense of global cooperation and the values, rules and ideals that underpin this.

Indeed cooperation and competition are not mutually exclusive.

Only global cooperation based on a set of agreed rules can ensure competition is fair and does not succumb to protectionism, with its certain path to lost jobs and international confrontation.

And it is only global co-operation which can harness legitimate self-interest towards common goals, producing agreements on global challenges such as climate change, proliferation and increasing inclusive economic growth.

We see this cooperation here today at this UN, as we also saw it at the Commonwealth Heads of Government meeting earlier this year.

And here today – as Chair-in-Office of the Commonwealth – I deliver a clear statement on behalf of the Heads of Government of its fifty-three equal and independent member states. We reaffirm our shared commitment to work together within a rules based international system to address shared global challenges and foster a fairer, more secure, more sustainable and more prosperous future. This commitment takes account of the special requirements of least developed countries, and of small and otherwise vulnerable economies, and it

benefits all our citizens and the wider world.

But it is not enough for us merely to make the case for cooperation. We need action, at home and in the community of nations, to show how our ideas and values can deliver practical benefits for all our people in all parts of the world.

We must recognise the legitimacy of people's concerns and act to build a global economy that works for everyone.

We must invest in the patient work of building open societies in which everyone has a stake in the future.

And we must act to uphold the international rules based system – and stand up for our values by protecting those who may suffer when it is violated.

Let me take each in turn.

First, we must respond to those who feel that the global economy is not working for them.

The pace of globalisation that has left too many people behind.

The fear that our children and grandchildren may lack the education and skills to secure the jobs of tomorrow.

And the risk that technological change could become a source of inequality and division rather than the greatest opportunity in history.

In the UK we are driving investment in industries of the future to create new jobs – from low carbon technologies to Artificial Intelligence.

We are investing in education and skills so that workers are ready to make the most of the opportunities that lie ahead.

And we are making sure people play by the rules – so that business and innovation is celebrated for creating jobs not demonised because of grievances over tax not paid or rights not respected.

And while we strive to make our own economies work for all our people – we should do the same at a global level.

In an increasingly global economy, it is not enough to ensure people play by the rules at home.

We need global co-operation to set and enforce fair rules on trade, tax and the sharing of data.

And these rules need to keep pace with the changing nature of trade and technology.

So we need to give the World Trade Organisation a broad, ambitious and urgent mandate to reform. This must address the areas where it is not functioning effectively; deal with issues that are not currently covered; and maintain

trust in a system which is critical to preventing a return to the failed protectionism of the past.

Fair and respected rules are essential for business to flourish and drive growth. But recent history shows that this cannot be sustained without deeper partnerships between governments, business, international financial institutions and civil society to ensure that growth delivers for everyone.

That is why I recently visited Africa – along with British businesses – to promote trade and investment, and encourage a new partnership based on shared prosperity and shared security.

It is why at this General Assembly I co-hosted an event with Prime Minister Trudeau, Prime Minister Kagame and President Akufo-Addo calling for more support for investment and job creation for young people in the continent.

It is why the United Kingdom will maintain our commitment to spend 0.7 per cent of gross national income on official development assistance. And we will put our development budget at the heart of our international agenda, and do more to create jobs, improve skills and increase investment in emerging economies – in both our interests and theirs.

For the best way of resisting protectionism is to ensure that this century is defined by open markets that really deliver for all our people.

Second, we must build countries, not only economies, that work for everyone – inclusive societies where every citizen has a stake in the future.

These are the firm foundations on which strong and accountable nations are built. And history has consistently taught us that giving people a stake in society is the best way to ensure stability, security and economic growth.

There is no one right way to do this.

Every country must choose its own path.

But the basic tenets are common across the world.

They include a government that is transparent and accountable.

An independent judiciary to enforce the rule of law.

Free and fair elections and a free and open media.

The freedom of expression, a right to redress and property rights that are reliably enforced.

And equality, freedom of thought, opinion, religion and conscience – all found in the United Nations Universal Declaration of Human Rights, signed 70 years ago.

Those of us who believe in these tenets must set an example in defending and strengthening them at home and abroad.

That is why we must call out hate speech, anti-Semitism, Islamophobia and all forms of prejudice and discrimination against minorities wherever we find it.

Like many leaders, I suspect, I do not always enjoy reading what the media in my country writes about me. But I will defend their right to say it – for the independence of our media is one of my country's greatest achievements. And it is the bedrock of our democracy.

So too will I defend objectivity and impartiality in the face of those who treat truth as just another opinion to be manipulated.

This challenge has only become more complex with the rise in social media, and online information. That is why we agreed at the G7 Summit in June to step up our efforts to respond to disinformation. And why, together with our partners, and with tech companies, we are leading efforts to reclaim the internet from terrorists and others who would do us harm.

And just as we must stand up for the values that we adhere to, so we must support countries and leaders who choose to take the often difficult steps towards a more inclusive society.

The United Kingdom will use all the levers at our disposal to do so.

Through our aid budget and commitment to the Sustainable Development Goals we will not only protect the most vulnerable but also bolster states under threat and help others sustain their progress.

Through global campaigns we will help countries to end scourges such as modern slavery and sexual violence in conflict.

And we will mobilise wider support through our alliances and membership of multilateral organisations – not only the UN, but also international financial institutions, the G7, the G20 and NATO.

And just as there is no single recipe for an inclusive society, so there is no single model for balancing the democratic demands of our public with the imperative to co-operate internationally.

The vote by the British people to leave the European Union was not a rejection of multilateralism or international co-operation. It was a clear demand for decisions and accountability to lie closer to home.

I believe the role of leadership in these circumstances is clear: it is delivering on the democratic wishes of our people and international cooperation working with allies and partners in pursuit of our shared values.

Third, we must have the will and confidence to act when the fundamental rules that we live by are broken.

This is not about repeating the mistakes of the past by trying to impose democracy on other countries through regime change.

But we should not allow those mistakes to prevent us from protecting people

in the face of the worst violations of human rights and human dignity. We should not allow those mistakes to paralyse the international community when its long-established norms are violated. And we should not let our inability to prevent some of the worst conflicts today stop us from making every effort to ensure they do not happen again in the future.

For if we stand back, we allow the world to become divided into spheres of influence in which the powerful dominate the weak, and in which legitimate grievances go unaddressed.

This is not just a moral imperative. It is also a matter of self-interest. For when barbarous acts and aggression go unchecked – dictators and terrorists are emboldened.

So, we must have the confidence to act.

When the Syrian Regime used chemical weapons on its people again in April, it was Britain together with France and America who took military action to degrade the Syrian regime's chemical weapons capability and deter their use.

And when earlier this year, Russia used a toxic nerve agent in a sickening attack on the streets of Salisbury, the UK with our NATO, EU and other allies took action, expelling over 150 Russian intelligence officers: the largest collective expulsion ever.

In Burma, following the damning report of the United Nations fact-finding mission, we should show the same confidence to hold accountable those responsible for the appalling atrocities repeatedly inflicted by the Burmese military on the Rohingya, Shan and Kachin peoples since 2011.

Similarly we should gather evidence of Daesh's crimes worldwide, so ensuring justice for their victims and deterring those who might conduct such crimes in the future.

But accountability alone is not enough. We must do more collectively to prevent such atrocities in the first place, and address the causes of instability that can give rise to them.

The United Nations has a critical role to play. And it has a wide range of levers to do so from sanctions – which show the leaders of Iran and North Korea that they cannot act without consequence – to peacekeeping missions such as that in South Sudan, which is helping to prevent suffering and the collapse of law and order.

But to be able to draw effectively on these levers, the Security Council must find the political will to act in our collective interest. The UN's agencies must deliver the reforms that the Secretary General has started – to become more agile, more transparent and better co-ordinated on the ground. And to support these reforms, we must also ensure proper funding is targeted specifically at those parts of the UN that deliver results.

70 years ago the General Assembly agreed the Universal Declaration of Human Rights. Today we must renew the ideals and values on which that Declaration

was founded.

In doing so, we must learn the lessons of the past and show through our actions how co-operation between strong and accountable states with open economies and inclusive societies can best deliver security and prosperity for all our people.

As Kofi Annan said at the start of his second term as Secretary General: "I have sought to turn an unflinching eye to the failures of our recent past, in order to assess more clearly what it will take for us to succeed in the future."

In that spirit, let us show unflinching resolve to renew the promise of freedom, opportunity and fairness.

A promise which has delivered for more people, in more places than at any other period in our history.

And let us ensure that promise can be fulfilled for our children and grandchildren – and for every generation to come.

Thank you.