




**ROYAL
ACADEMY OF
ENGINEERING**

Industrial strategy

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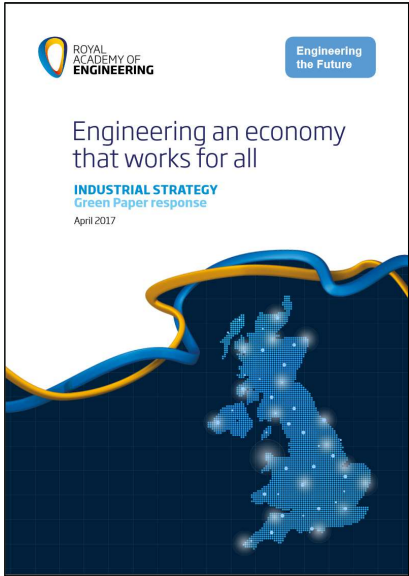
*Foundation for Science and Technology
10th May 2017*



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A response from the engineering community

- To reflect the views of the whole profession, the Green Paper response was produced by all 38 professional engineering organisations, representing 450,000 engineers
- 10 workshops were held across the whole of the UK
- A survey was carried out that received over 1,300 responses



**ROYAL
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ENGINEERING** Engineering the Future

Engineering an economy that works for all

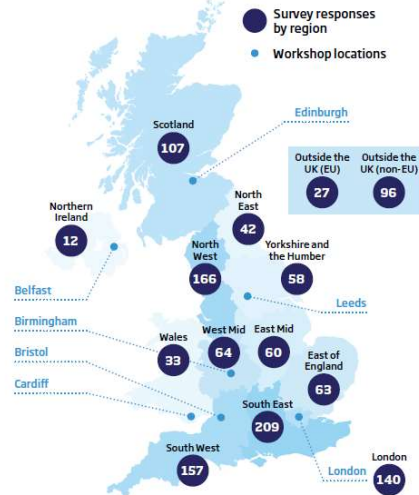
INDUSTRIAL STRATEGY
Green Paper response
April 2017

Engineering an economy that works for all
<http://www.raeng.org.uk/policy/engineering-policy/industrial-strategy>



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Key messages

Address

- **Vision**
- **Education and skills**
- **Innovation**
- **Place**
- **Infrastructure**



Clearly articulate a bold, global and ambitious vision for the UK

- **Outward looking leading trading nation**
- **Top destination for international talent**
- **Long-term, stable policies that endure beyond a single parliamentary term**
- **Partnership with industry/business**
- **Promote UK industry and academia on the global stage**
- **Promote a positive image of industry and modern engineering**



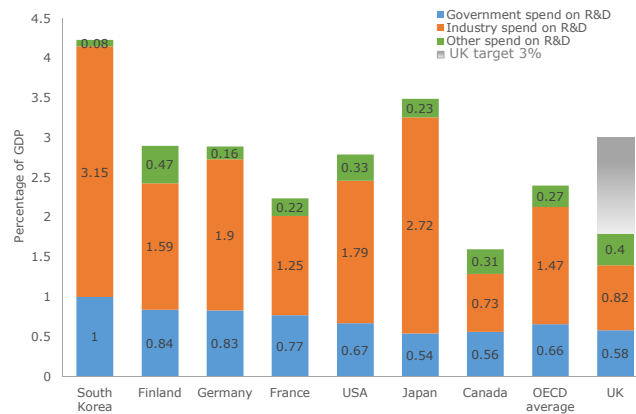
Focus education on unlocking UK talent

Develop a coherent, integrated approach to develop people for the jobs of the future

- **Facilitate through life learning**
- **Inspire young people about the creativity of science and engineering**
- **Address STEM teacher shortage**
- **Involve industry and universities in giving real life context to school science**
- **Value and improve vocational training**
- **Broaden the post-16 academic route**
- **Promote STEM subjects and careers to under-represented groups, including girls and people from black and minority ethnic communities**

Support innovation

- **Set a target of 3% of GDP combined public and private R&D investment**



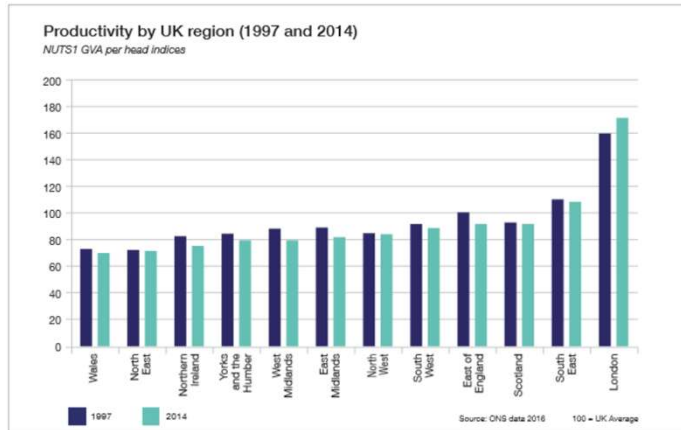
Reference: OECD Main Science and Technology Indicators

Support innovation

- **Set a target of 3% of GDP combined public and private R&D investment**
- **Encourage mobility and research collaborations between universities and businesses/industry**
- **Promote National Innovation Assets**
- **Be more willing to accept risk of failure in innovation**
- **Raise awareness of advice and support available to SMEs**
- **Celebrate companies who have scaled up successfully**



Spread the benefits across the UK



Reference: Building our Industrial Strategy: Green Paper, January 2017

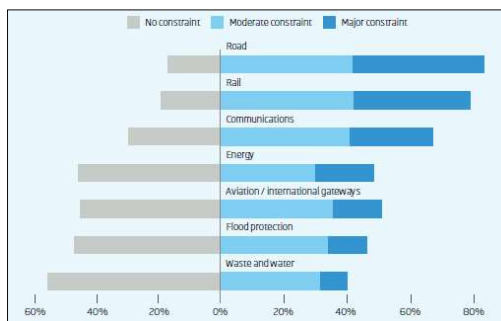


Prioritise supporting infrastructure

- **Develop a clear, long-term strategy for infrastructure to provide industry with the confidence to invest**
- **Regional plans that understand local needs need to be integrated with national strategies through the National Infrastructure Committee.**

Responses to survey question

'To what extent do the following types of infrastructure constrain economic growth in your region?'





Key messages

- **Define and clearly articulate a bold, global and ambitious vision for the UK**
- **Focus the education and skills system on fully unlocking UK talent and potential**
- **Support innovation**
- **The benefits in terms of economic growth and social advancement must be spread across the UK**
- **Prioritise world class supporting infrastructure**