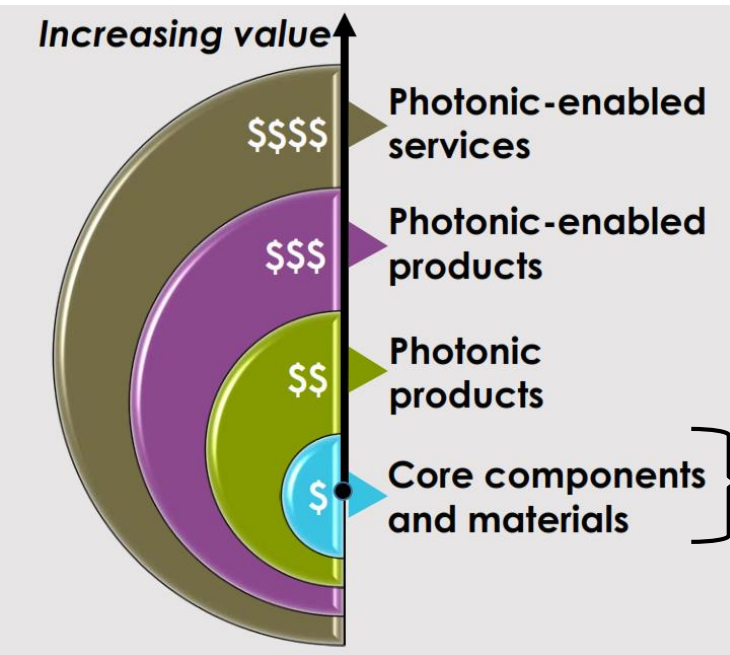


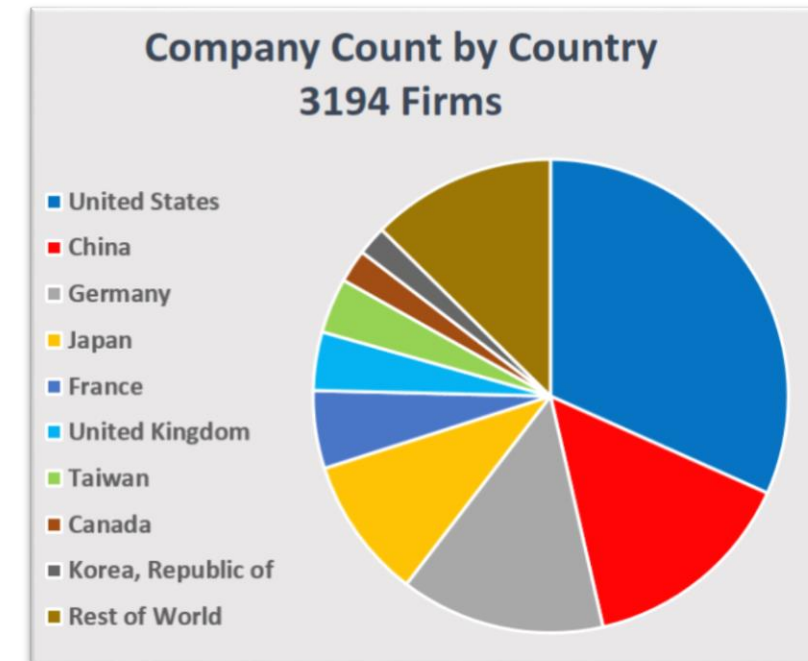
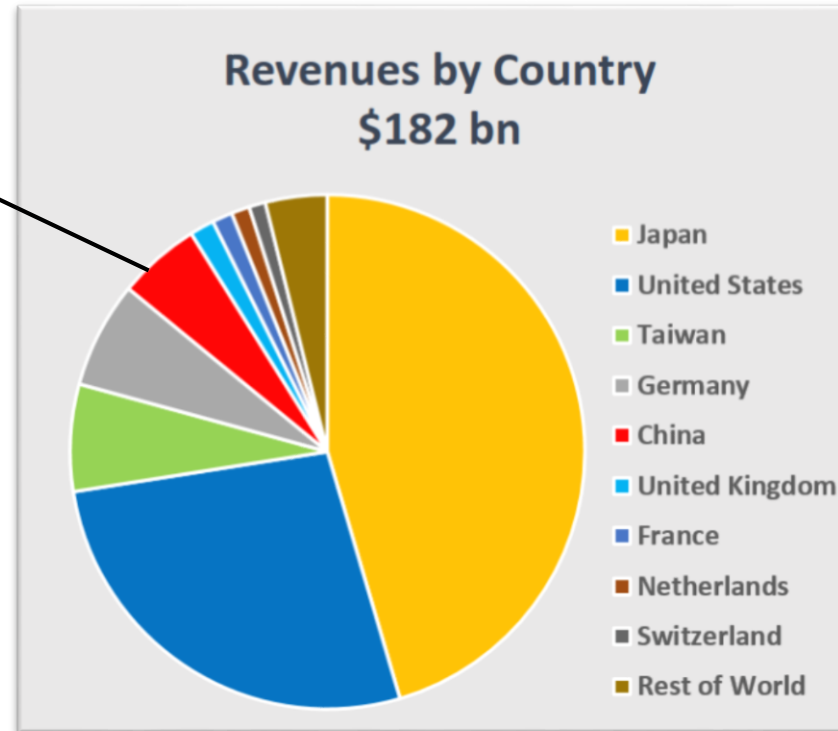
Photonics Industry Update

Dr John Lincoln
National Outreach Manager,
The Future Photonics Hub
Chief Executive,
Photonics Leadership Group



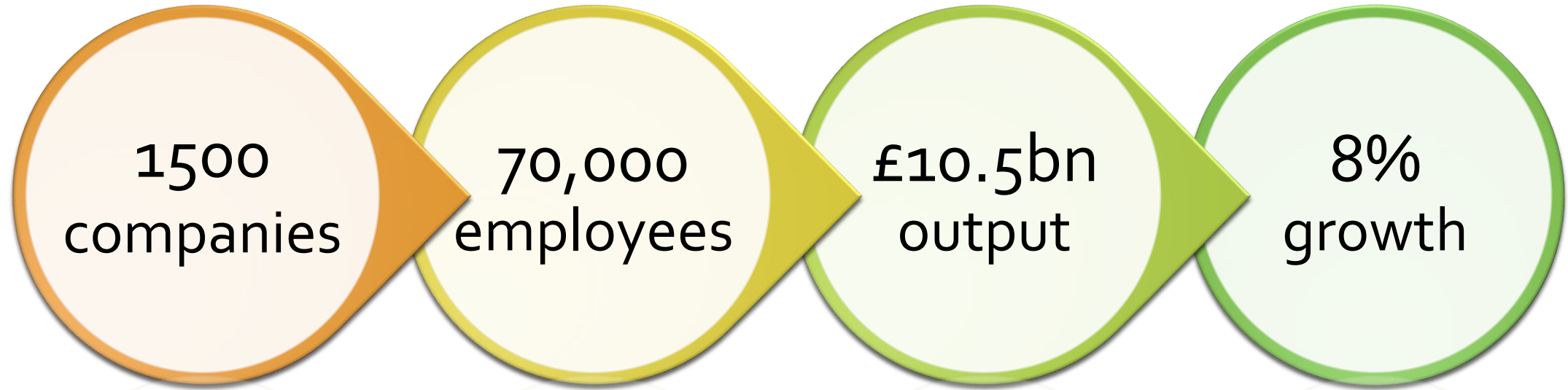


- Components \$182bn globally
 - UK, 6th largest photonics component producer in world
- **Enabled market \$1450bn globally**



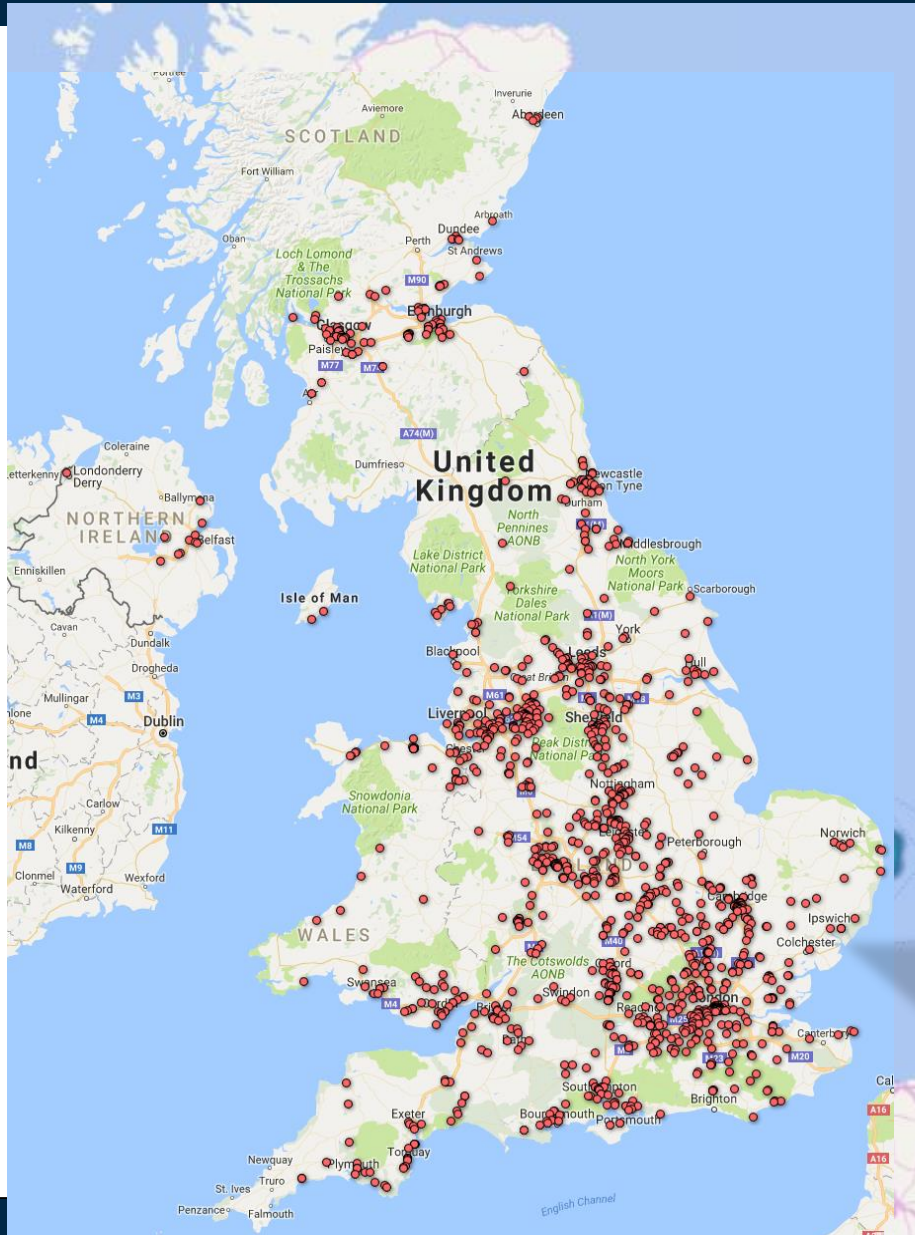
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Source: Steve Anderson, SPIE
<http://spie.org/industry-resources/size-of-the-photonics-market>



- ‘Photonics companies’
 - Output of companies producing Photonics components & products
 - 2010 figures – update due....

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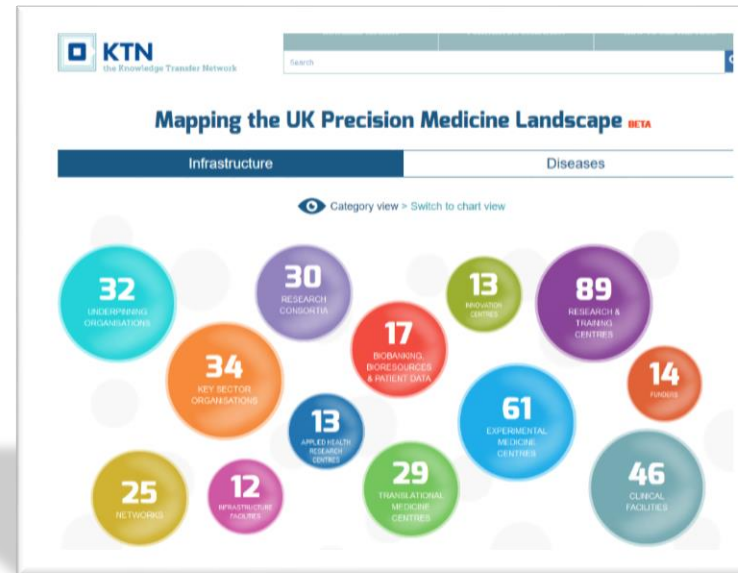
- Clustering mirrors industrial centres

• Future

- Update UK photonics figures
- Detailed mapping & segmentation

- Based on master list of companies in map
- **Make sure you are on the map.**

<https://photonicsuk.org/2016/04/22/map-of-photonics-in-the-uk/>



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- Innovate 2016-17 budget £561m
- Focus on four sector groups
 - Emerging and Enabling Technologies
 - Health and Life sciences
 - Infrastructure (energy, smart cities)
 - Manufacturing and Materials
- Two 'broad' competitions / area + two open / year - £15m each
- Plus
 - Targeted competitions
 - **Compound semiconductor, quantum tech, energy, aerospace, sensing...**
 - New 'finance products' piloted
 - Merger with Research UK, Reorg KTN's

<https://www.gov.uk/government/collections/innovation-grants-for-business-apply-for-funding>

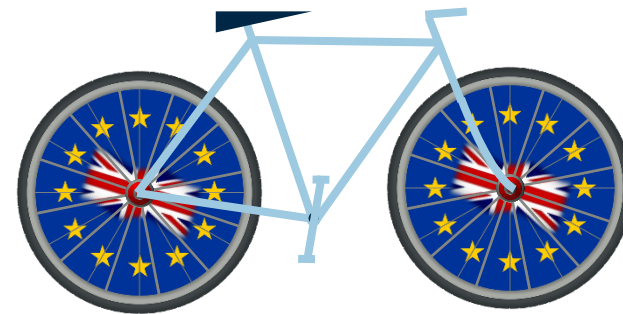
	Opening	Closing + 3 months
Manufacturing/ materials	May 2016	
Open	June 2016	
Infrastructure	July 2016	
Health & Life	Sept 2016	
Emerging & enabling	Oct 2016	
Manufacturing/ materials	Nov 2016	
Open	Dec 2016	
Infrastructure	Jan 2017	
Health & Life	Feb 2017	
Emerging & enabling	Mar 2017	

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- **UK organisations remain full qualified to apply for EU funding**
 - Even if Brexit occurs before end of project
 - “Horizon research funding granted before we leave the EU will be guaranteed by the Treasury after we leave” Hammond 13/8/16



- **Horizon 2020 funding**
- **SME instrument funding**
- **Eranet+ sensing**
- **Eurostars**



- **Input into Photoincs21 defining 2018-2020 calls welcome**
 - Currently in early draft
- **Future focus**
 - ‘Digitising industry’

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- Focus groups on
- **UK Broadband IR imaging supply chain development**
 - Edinburgh, Wed 28 Sep. 13:30 – 15:00
 - See John Lincoln / Anke Lohmann for details
 - <http://doodle.com/poll/7ma7n4hai3yntpa3>
- **UK datacentre opportunities**
 - Report in preparation for publication
 - Focus on location sensitive opportunities- speed and security

In collaboration with Photonics Leadership Group, KTN, the Future Photonics Hub and all interested groups and organisations.

A future manufacturing research hub

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