



ISCF



Scottish Universities Physics Alliance

15th January 2018

Stephen Taylor, CEO

Industry Association for :- Emerging & Enabling Technology Organisations



Representing industry interests to government



Promoting Scottish technology capabilities within the UK, EU and internationally



Influencing policy at both Scottish and UK government level

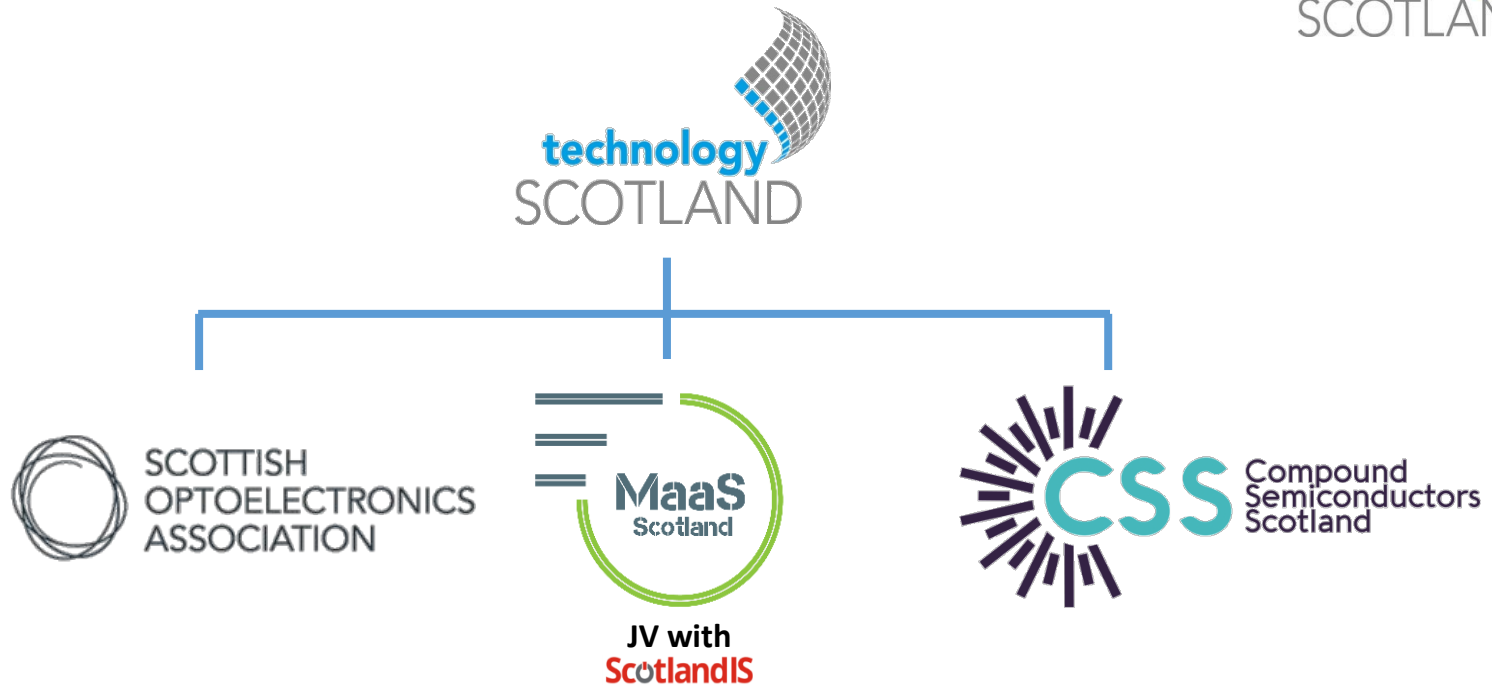


Supporting the community through events, workshops and forums, aimed at funding, networking, skills sharing, collaboration



Interfacing to key national and international stakeholders

Technology Scotland - Three Main Clusters



- 1700 in community
- Representing over 800 organisations
- Almost 100 corporate members
- 40 events / workshops in 24 months – over 1600 participants

Currently evaluating clusters around Design, LiFi, and Smart Energy (eg Smart Grids/Offshore/Wind/Solar)

Emerging and Enabling Technologies

Driving Step Changes in Product and Service Performance

Key Enabling Technologies

- Photonics
- Micro and nano electronics
- Advanced Manufacturing
- Nano Technology
- Advanced Materials

E&E technologies provide a basis for:-

- *significant advancement of product and service performance and capabilities*
- *the modernisation of the global industrial base by unlocking innovation*
- *catalysing step changes in efficiency and productivity*

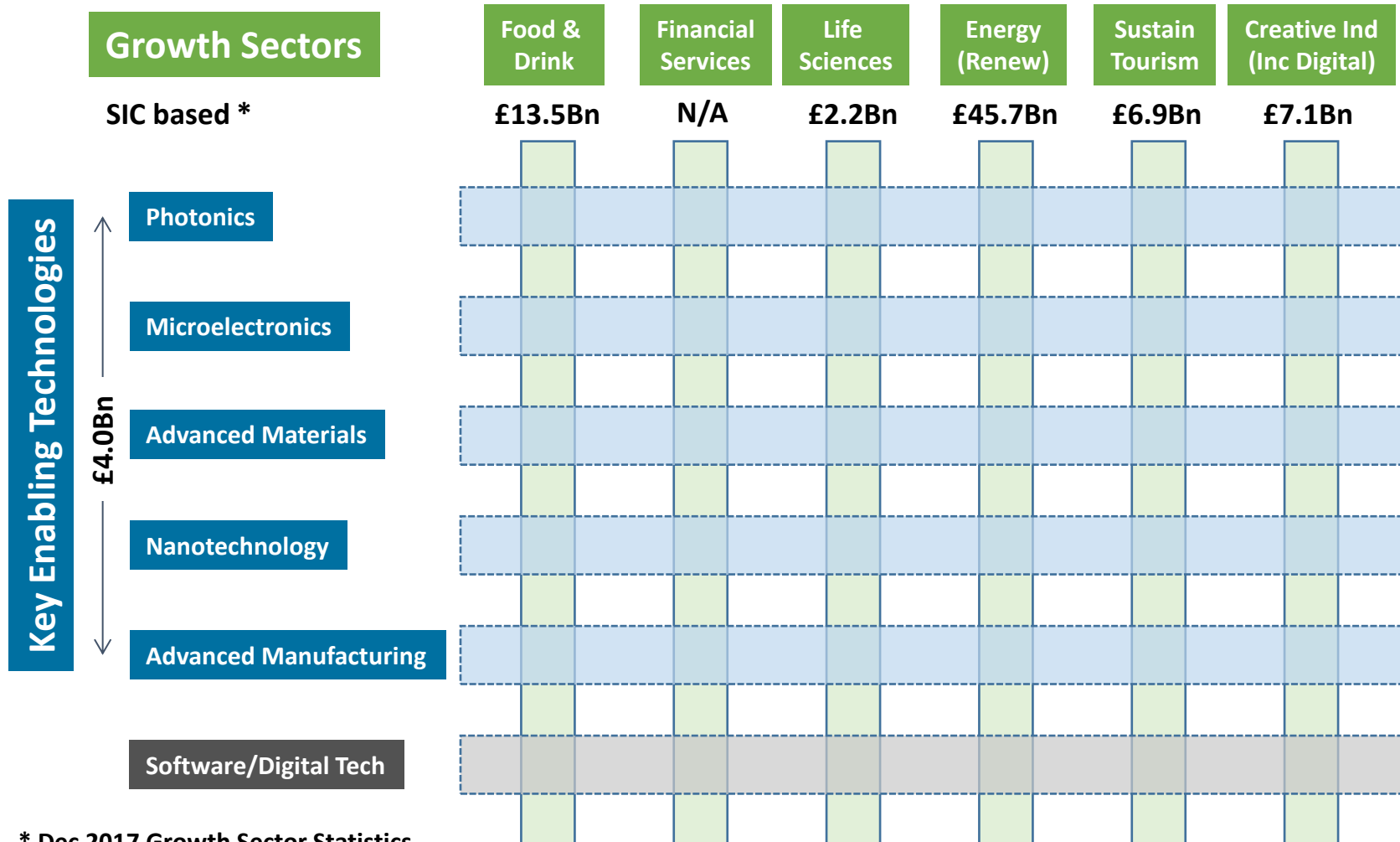
Not intended as complete lists!

Emerging Technologies

- Quantum Technologies
- Advanced sensors
- Cyber security
- FinTech
- Satellite earth observation
- Cloud Computing
- Internet of Things
- 5G Wireless & Mobile
- Artificial Intelligence
- Data Science
- Robotics / Autonomous Systems
- Location Specific Services

Enabling Technology - Horizontal Sectors

Cross cutting and enabling all growth sectors



* Dec 2017 Growth Sector Statistics

Scotland's Enabling Technology Sector

1. Employment

- » 400 Enterprises
- » 15k Employees
- » £36k Average Salary (67% above average)



3. BERD

- » £200m BERD (5% of T/O)
- » A WORLD CLASS figure
- » Sector contributes 1/5th of all Scottish BERD



2. Economy

- » £4bn Turnover
- » £2.5bn Exports, (10% of Scottish Exports)
- » £1.5bn GVA, (1% of Scotland's GDP)



Sector responsible for
1% of GDP and
20% of all BERD in Scotland

10% by
value of all
Scottish
Exports

4. Scotland's Enabling Technology Sector

A precious jewel in Scotland's economic crown

Strong contribution to innovation and exports - and with high salaries!

Some Photonics Companies in Scotland



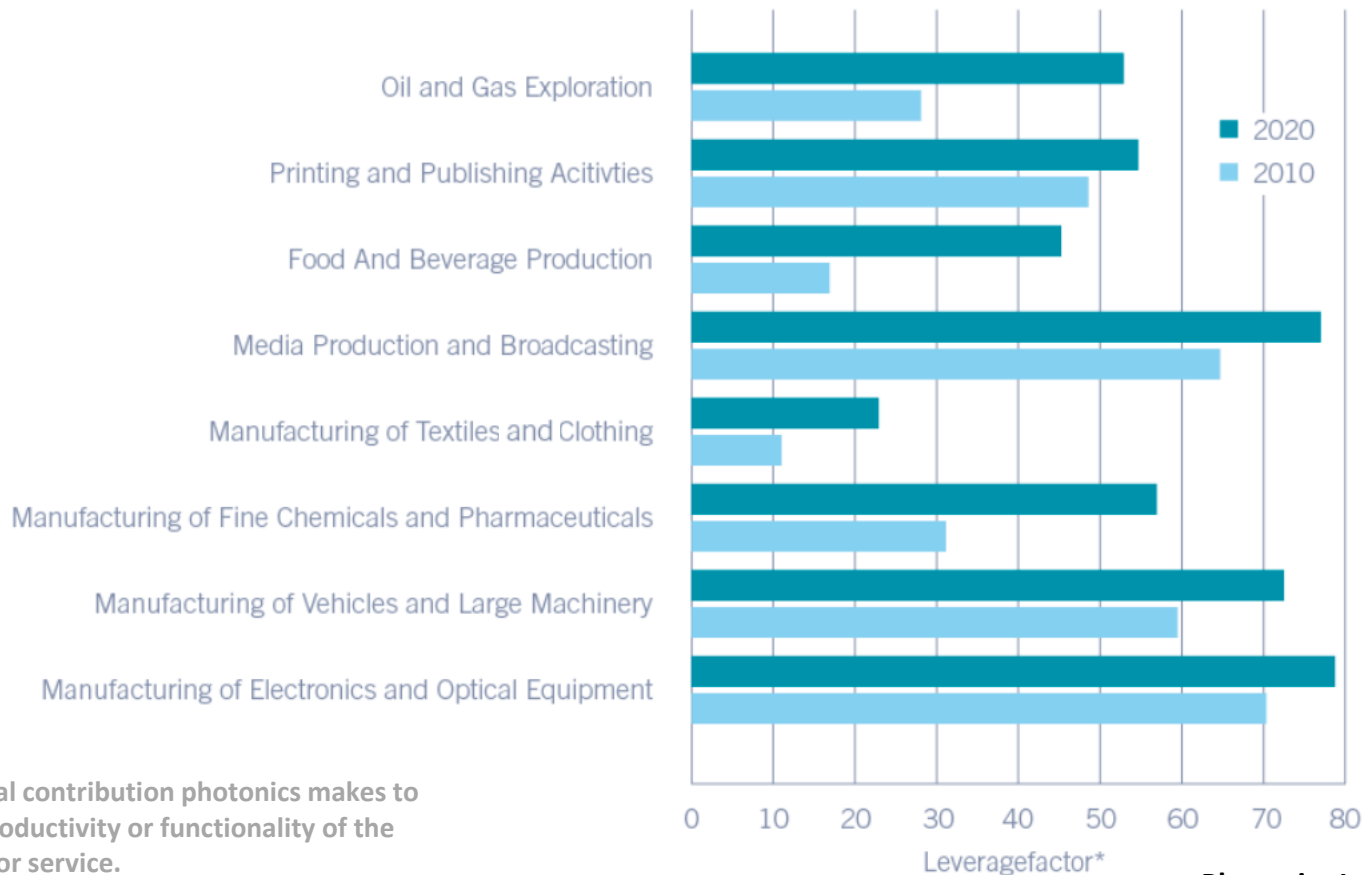
Thin Film Solutions



Leverage Effect of Photonics

Impact On Key Enabled Manufacturing Industries 2010 vs. 2020

Leverage Effects Of Photonics On Enabled Manufacturing Industries 2020 vs. 2010



* Proportional contribution photonics makes to enhancing productivity or functionality of the end product or service.

Enabling Tech - Addressing Global Challenges

Scotland's Growth Sectors



Global Challenges





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