

Knowledge Transfer Network

Supporting Business Participation in Horizon2020

Thematic brokerage workshops

EU Brokerage Event on Kets in Horizon 2020

Strasbourg, 17th October 2017

Knowledge Transfer Network

- Network Partner for the UK Government's Innovate UK business funding body
- The KTN has a remit to cover all areas of UK funded R&D and to provide support for business
- Your skills and expertise
- Past experience in EU-funded projects (if any)

Skills / Expertise

Agri-food	Biotechnology	Built Environment
Chemistry	Defence and Security	Design
Digital & Creative	Electronics, Sensors & Photonics	Energy
Health	ICT	Industrial Maths
Innovation	Manufacturing	Materials
Space	Sustainability & Circular Economy	Transport

Project Offer

The KTN has two roles within European Programmes

- To support innovation for UK businesses
 - KTN acts to increase collaboration and offers this from the core funding from Innovate UK
- KTN can participate in European projects where the topic is a strategic priority and the project role fits within KTN's remit to facilitate collaboration, networking, dissemination and informing policy

Promethean Particles

- **Who We are:**

- UK Based SME specialising design and bespoke production of nanomaterial solutions for a range of industries.
- Largest multipurpose nanomaterial production facility in the world (SHYMAN FP7)



- **What we do:**

- Demonstrated scale production of a wide range of inorganic nanomaterials from metal oxides and metals to metal organic frameworks
- Patented continuous production route is sustainable and cost effective
- Ability to produce anything from grams to tonnes of nanomaterials

○ **Opportunity:**

- Scale production of Metal Organic Frameworks (MOFs) for Carbon Capture and Storage.
- Application of these materials is hindered by high cost and limited supply.
- Promethean Particles can overcome both of these hurdles using the cost-effective scale production facility.
- Demonstrated ability to produce MOF materials exhibiting huge surface area and robust absorption characteristics which will allow pilot CCS trials to be carried out at a large scale without breaking the bank.

NMBP-20-2017: High-performance materials for optimizing carbon dioxide capture

IQE : Where we are - global footprint

- Founded 1988
- Listed London (AIM)
- Market cap ~ £1Bn
- Global leader
- 11 operations world-wide
- Approx 600 staff
- Sales ~ €150M
- EBITDA ~ €40M

IQE: Compound Semiconductors

- IQE's wafers produce
 - over 10 billion wireless chips per year, powering the smartphone revolution
 - more than 2 billion photonics chips per year helping to power the global broadband internet infrastructure
- Business Unit markets
 - Medical, security, defense, environmental
- New era of laser technology
 - VCSEL epiwafer

Opportunities

- Epitaxy – engineering advanced materials
 - Nanotechnology – atomically engineered epitaxial films of compound semiconductors (up to 300 films)
- Creating high value supply chains and seeking partners in
 - Automotive, robotics, energy efficiency, IoT, communications, healthcare, aerospace, security

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