

15th Anniversary High Value
Manufacturing & 4th New Materials &
Graphene Conference 2017
2-3 November 2017
www.cir-strategy.com/events

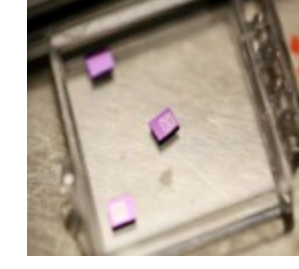
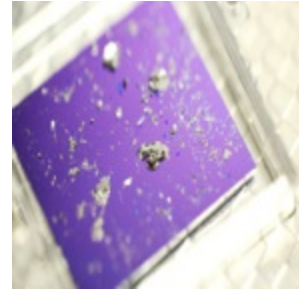
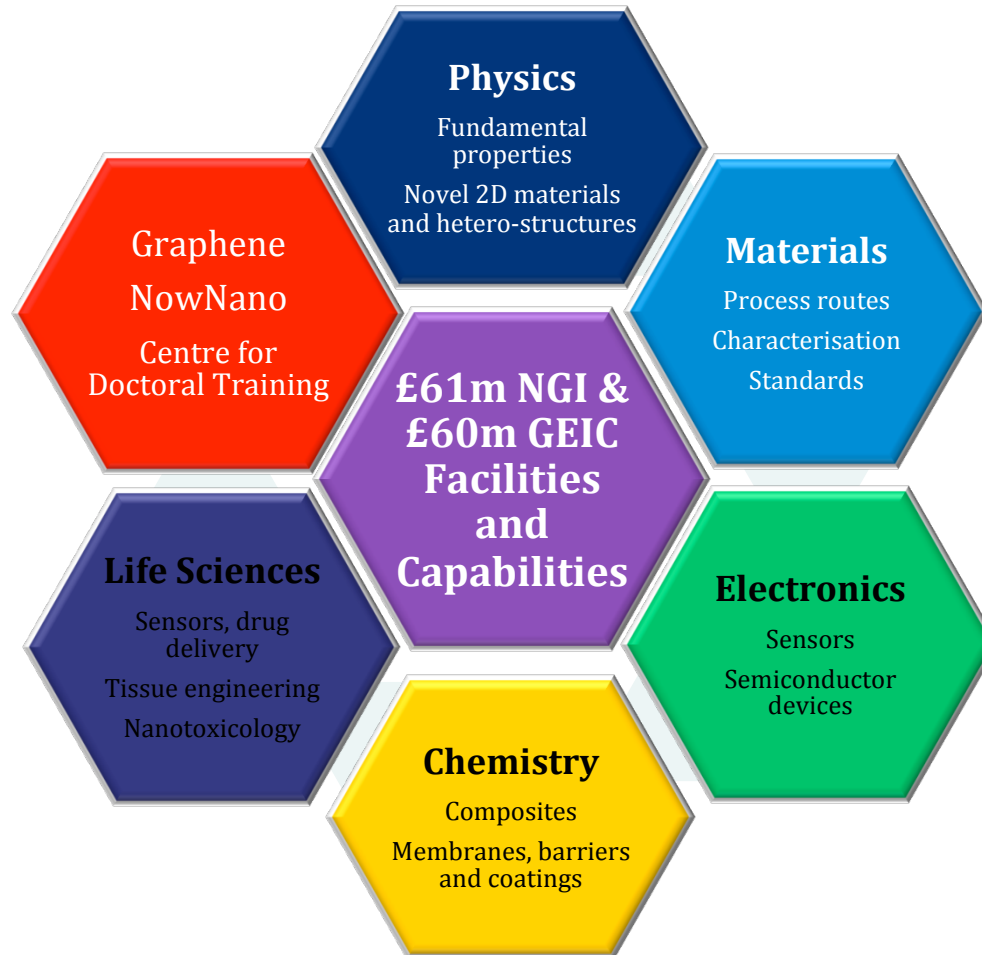
The University Of Manchester

Graphene@Manchester

James Baker

15th Anniversary HVM 2017 & 4th Graphene New
Materials Conference

2-3 November 2017 Cambridge, UK



Over 250 researchers in graphene and related 2D materials across over 30 academic groups

NATIONAL GRAPHENE INSTITUTE (NGI)

**The NGI focus is on academic led research (TRL 1-5) into graphene and related 2-D materials in partnership and collaboration with Industry:
"Explorative Research"**



Demonstration of:

- New concepts/new applications/fundamental studies
- Graphene potential by producing new concept products and processes

Development of:

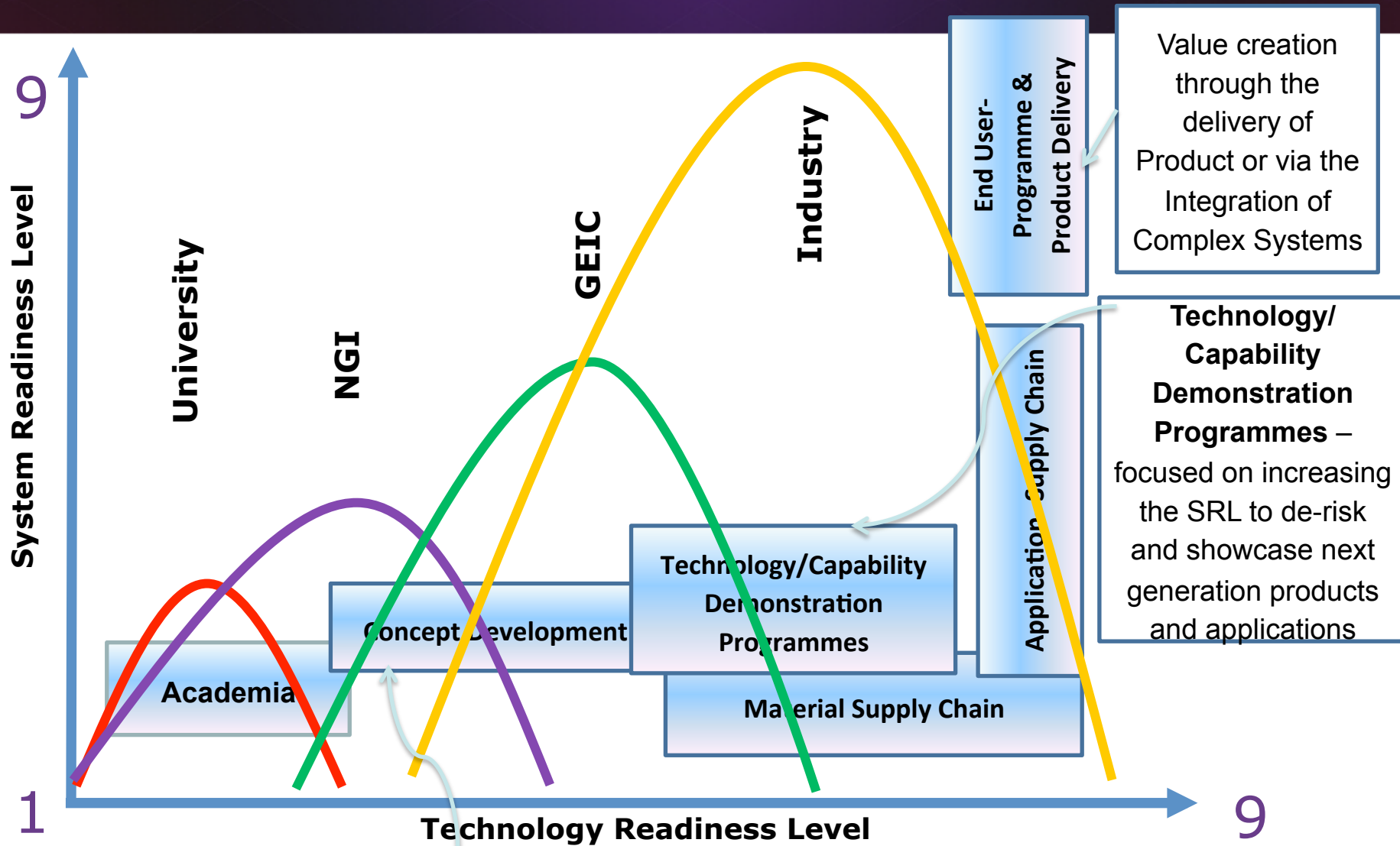
- Low cost and scalable manufacturing methods for high quality graphene
- Process stabilisation, achieving reproducible quality, high manufacturing yields
- Standardisation, Characterisation, Quality Certification and Health and Safety

The GEIC **focus** is on **industry led technology development** (TRL 3-6) in **graphene and related 2-D materials** in **collaboration** with **academia:**
“Exploitative Research”



- Pilot production and process scale-up of graphene and related 2D materials and its measurement and characterisation
- Application development in: Structures and composites, Energy - battery and super-capacitors, Solution formulation, inks & coatings, Electronics, Sensors and Membranes.
- **“Make & break”** prototype development and integration facility

ROUTE TO COMMERCIALISATION



Concept Development – focus is on a) increasing the technology development TRL – manufacturing scale up, characterisation and measurement, b) experiment with the art of the possible future applications and concepts and c) provide inputs to Concept Development.

The Home of Graphene



GRAPHENE

MANCHESTER'S REVOLUTIONARY 2D MATERIAL



EXPLORE

the story of graphene
and its applications



COLLABORATE

with The University
and the National
Graphene Institute



DISCOVER

the latest research
into graphene and
other 2D materials

LATEST NEWS
AND
HIGHLIGHTS



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