



# Horizon 2020 and Horizon Europe in pre-Brexit UK

Professor Martin Schröder  
Vice President and Dean for the Faculty of Science and  
Engineering

A photograph of a large, ornate Gothic archway in a university building. The archway is made of light-colored stone and features a ribbed vaulted ceiling. Above the arch, the words "UNIVERSITY OF MANCHESTER" are inscribed in white capital letters on a dark stone band. The building has multiple levels of windows, some with blue stained glass. In the background, through the arch, a courtyard with green trees and people is visible. The sky is overcast.

UNIVERSITY OF MANCHESTER

# Heritage

- Britain's first civic university, history dating back to 1824
- 25 Nobel Prize winners
- Rutherford split the atom
- First programmable computer
- Founder member of Russell Group
- 'Merger' in 2004 of UMIST and Victoria University of Manchester to create UK's biggest single campus university





# The University in numbers

**39,000**

Largest student community in the UK

**10,000**

Most international students of any UK university

**£1.01bn**

Annual income

**1,000**

More than 1,000 degree programmes

**£345m**

More than £345m in research income

**100**

More than 100 spin-out companies

**£300m**

£300m bond issue to support Campus Masterplan



# Research Beacons



**Industrial  
biotechnology**

**Advanced  
materials**

**Energy**

**Cancer**

**Addressing  
global  
inequalities**

# Faculty Re-Structure 01/08/2019

## **School of Natural Science:**

- Department of Chemistry
- Department of Earth and Environmental Sciences
- Department of Materials
- Department of Mathematics
- Department of Physics and Astronomy

## **School of Engineering:**

- Department of Computer Science
- Department of Chemical Engineering and Analytical Science
- Department of Electrical and Electronic Engineering
- Department of Mechanical, Aerospace and Civil Engineering



MECD

---

Manchester Engineering Campus Development

---

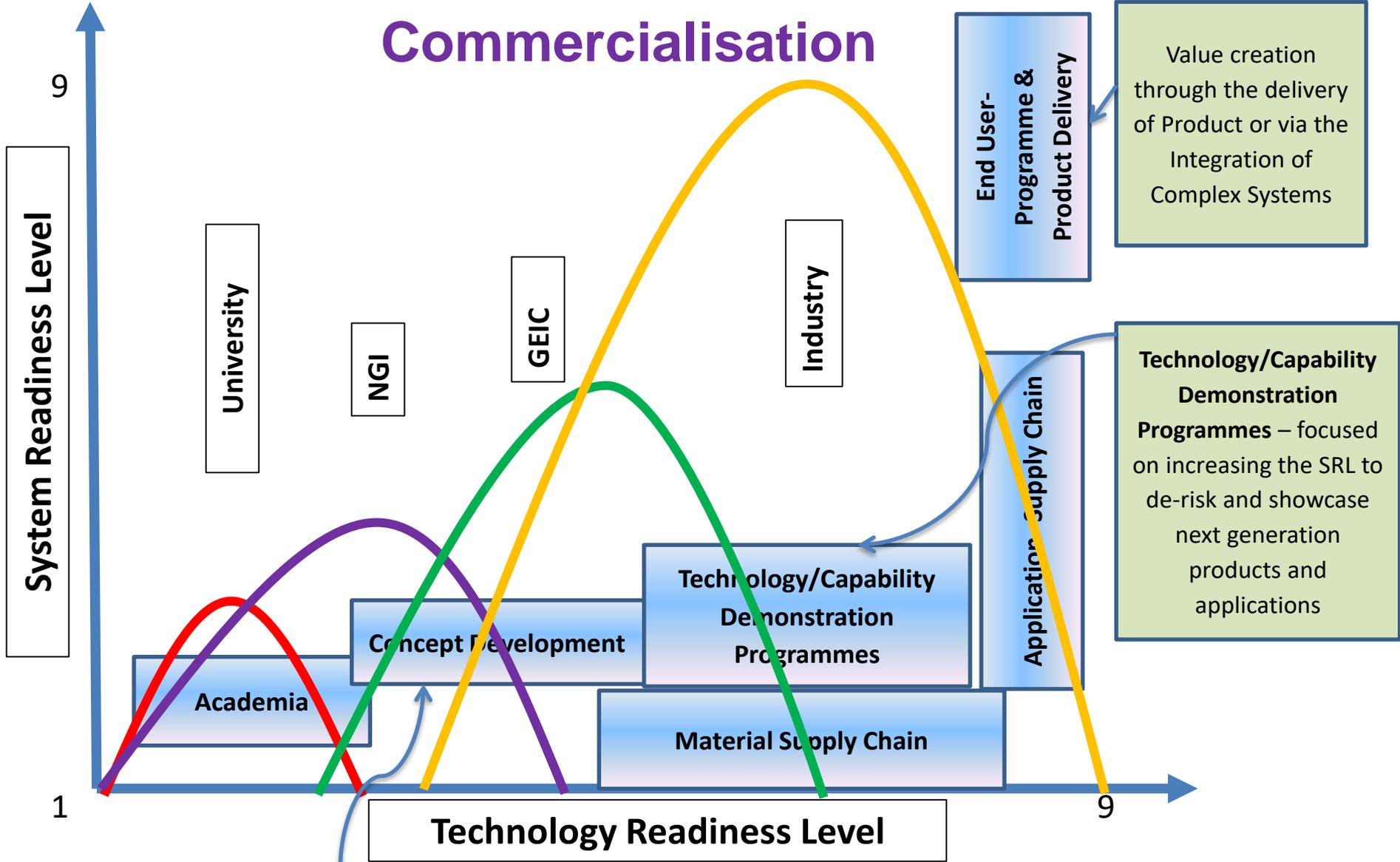
# National Graphene Institute (NGI)



# Graphene Engineering Innovation Centre (GEIC)



# Routes 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.

# EU Funding at Manchester

- 39 ERC Fellowships
  - ERC Synergy Grant
  - 60 MSCA Individual Fellowships
- 
- Over 3000 EU students of 11,000 non-UK students
  - 2000 non-UK staff
  - 490 academics who are EU nationals
  - 266 PS staff who are EU nationals
  - 438 research staff who are EU nationals

# University of Manchester and Innovation

- 1<sup>st</sup> in UK for research income from UK industry
- 2<sup>nd</sup> for contract research from UK and international industry
- 8th in Europe in Reuter's Most Innovative Universities
- 1<sup>st</sup> in England for number of KTP (Knowledge Transfer Partnership) projects
- 1<sup>st</sup> in Europe (3<sup>rd</sup> in the world) for Social and Economical Impacts

# EU Funding at Manchester

- Collaboration
- Fundamental research (ERC)
- International excellence
- Industrial and social impact
- Movement of researchers (visa status)
- fees for UK vs EU vs non-EU students
- Post-qualification visas
- Freedom of movement of people

# EU Funding with Brexit Deal

UK institutions and universities want to apply for EU/H2020 funds as a full partner/beneficiary after Brexit

UK leaves with a deal: withdrawal agreement would lead to an association agreement, including access to EU research funding programmes (H2020 and Horizon Europe).

# EU Funding without Brexit Deal

UK leaves without a deal: third country status in EU and entitled to participate in H2020 collaborative projects under a multi-beneficiary grant agreement

But, UK would not be entitled to participate in ERC or MSCA agreements under a mono-beneficiary grant agreement. Only Members States or Associated Countries are allowed to participate in these projects.

# The Next Deadline 31<sup>st</sup> October 2019

Relationship of UK to EU is critically important

EU projects currently funded will be honoured by UK funding if UK leaves with no deal.

Up to 31<sup>st</sup> October 2019:

*“In the event we leave without a deal, the Government will ensure any Horizon 2020 applications stuck in the approval process when the UK leaves, will instead be automatically assessed by UKRI - with successful applications provided with funding.”*

## Current Position

It is estimated that that ERC calls worth over €3bn will be pending funding decisions as of 31 October 2019

Given past UK success rates in the ERC, UK applicants would therefore expect to win up to €600m from these calls.

# Critical Questions

- How will UKRI assess the applications that have been submitted?
- How much funding will be made available and how will it be allocated across the different calls?
- Will the same review process be used?
- Will UKRI receive application data directly from the ERC or will researchers have to resubmit application?
- Will it replicate the same set of pan-disciplinary panels that the ERC uses?
- Can researchers expect the same terms and conditions to apply to these grants as for ERC grants?

# Critical Issues

UK's future relationship with the Horizon Europe programme, due to begin on 1 January 2021, remains unclear

UK influence on EU research panels and a seat at the table during Commission discussion of future research programmes

Continued funding of ERC

Recruitment/visas/immigration and freedom of movement

Status of EU students and academics

Universities need to be clear to the public and to all stakeholders about:

- what they do and why
- their value to society
- their ability to create value, jobs and growth
- their ability to do good