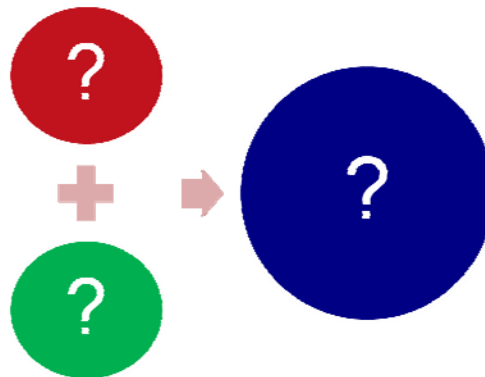


**Beyond the
Recession:**

**What can science
and innovation
partnerships do for
you?**

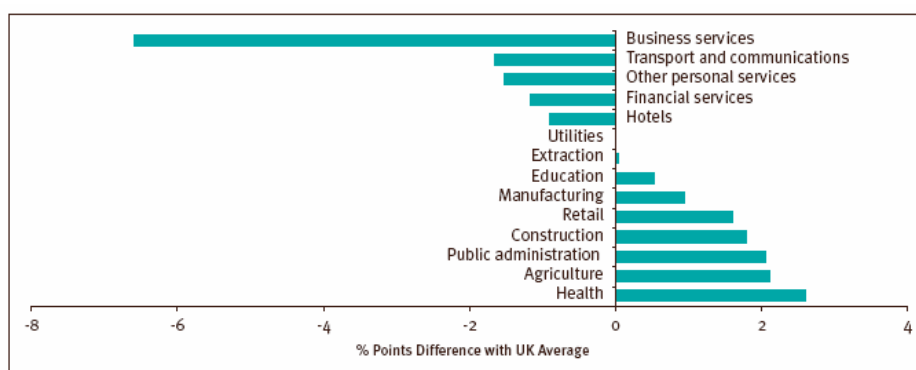


Kamalesh Sharma
Secretary-General of the
Commonwealth

**“Knowledge is now the
currency of the 21st century”**

The NI Economy

SME economy – 99% of companies employ less than 50 people

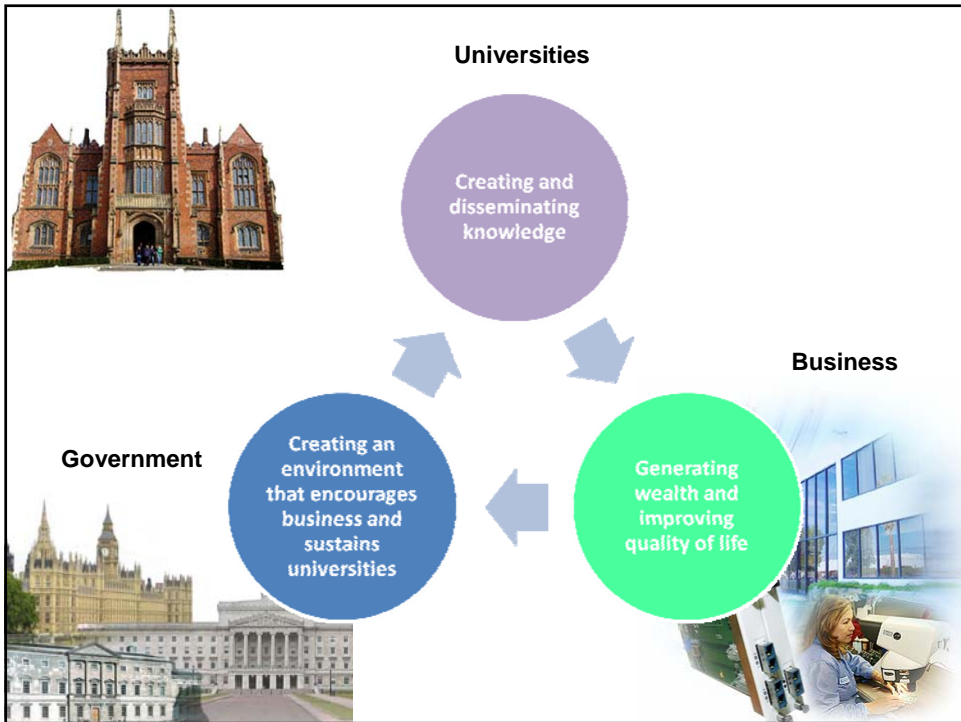
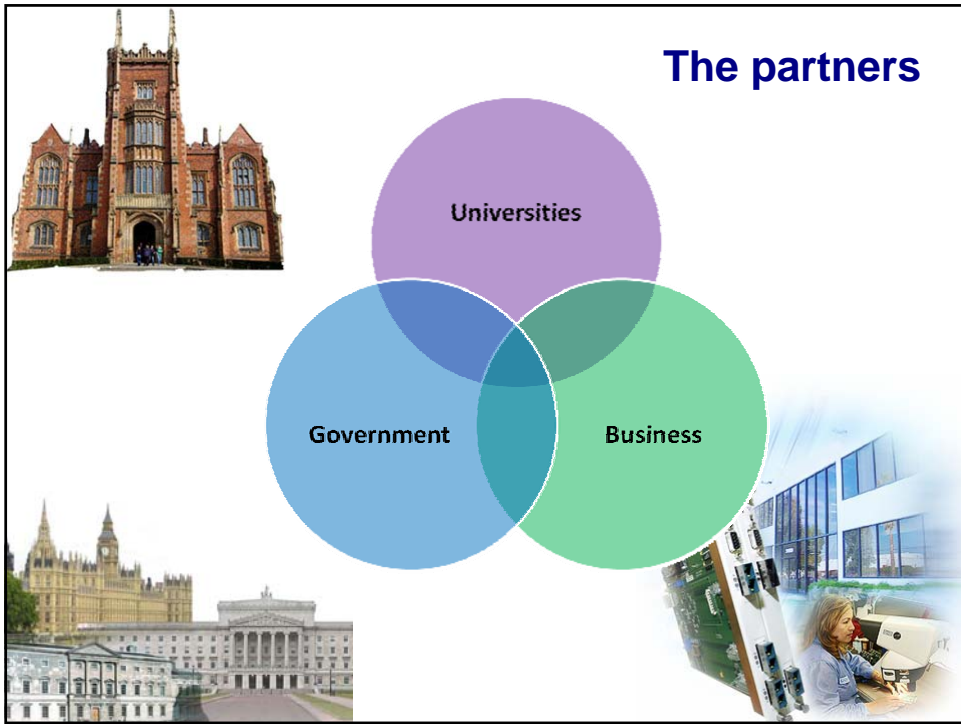


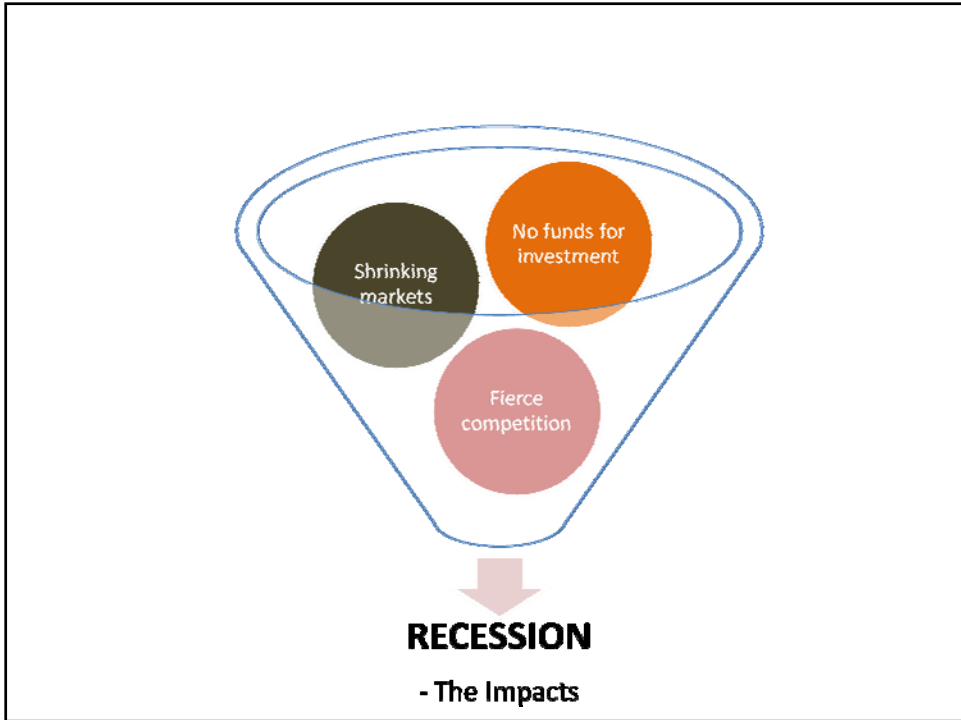
NI Industrial Structure (relative to the UK)

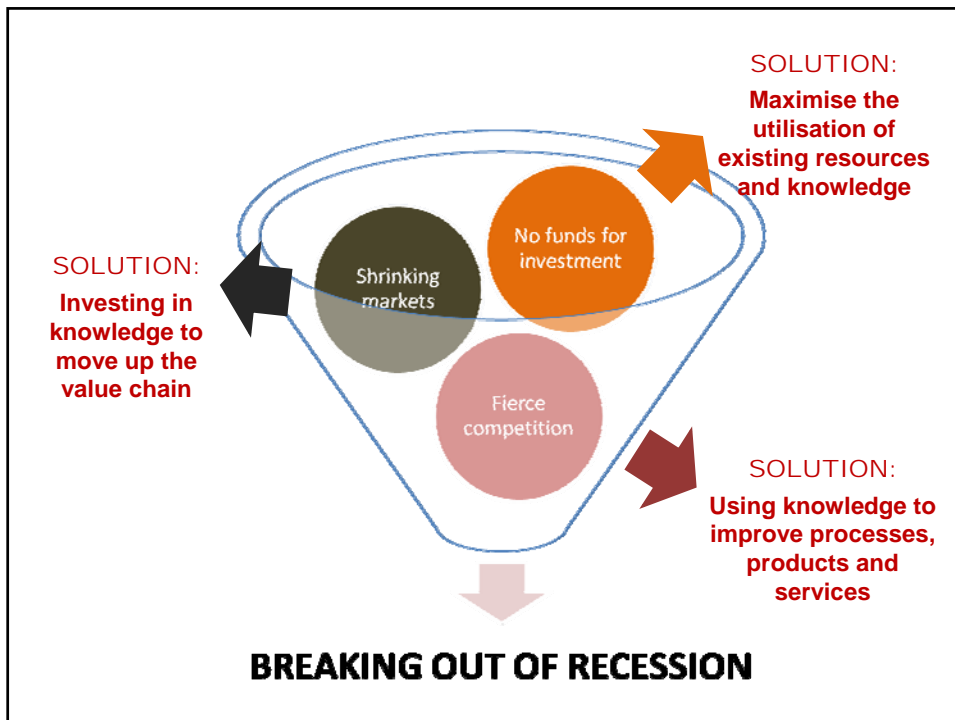
The NI Economy

THE KEY CHALLENGES

- Rebalancing the economy and reforming public administration
- Maintaining and developing the strong manufacturing base – e.g. Bombardier, Wright Bus, FG Wilson, Caterpillar
- Addressing new and emerging markets – e.g. in ICT, personalised medicine, and sustainability
- Building a strong value-added agrifood sector with a continuing emphasis on exports







Partnerships at work

In BUSINESS:

- Collaboration
- Joint marketing
- Joint ventures and mergers

SOLUTION:
Maximise the utilisation of existing resources and knowledge

No funds for investment

Aero Engine Controls
A Rolls-Royce plc and Goodrich Corporation joint venture

BOMBARDIER

AIRBUS

Partnerships at work

In UNIVERSITIES:

- White Rose Consortium
- QUB/TCD/UCD Innovation Academy
- NICENT



UNIVERSITY OF DUBLIN
Trinity College



No funds for investment

SOLUTION:
Maximise the utilisation of existing resources and knowledge

Partnerships at work

In GOVERNMENT:

- DEL All-Island research projects
- HEA and PRTL
- Science Foundation Ireland (CSETs)
- Support for cross-border initiatives (e.g. InterTradeIreland's FUSION and INNOVA programmes)



No funds for investment

SOLUTION:
Maximise the utilisation of existing resources and knowledge

Partnerships at work

In BUSINESS:

Establishing access to new knowledge

- QUB Malaysia Ionic Liquids Laboratory
- Seagate/QUB Technology Centre
- Rolls-Royce University technology Centres



SOLUTION:

Using knowledge to improve processes, products and services



Partnerships at work

In UNIVERSITIES:

- Enhancing articulation with Industry and Business
- Creating spin-out companies



SOLUTION:

Using knowledge to improve processes, products and services



Partnerships at work



In GOVERNMENT:

- Catalysing and supporting research and innovation partnerships

Technology Strategy Board
Driving Innovation



SOLUTION:
Using knowledge to improve processes, products and services

Partnerships at work

In GOVERNMENT:

- Investment in infrastructure and services linked to a shared vision
- Supporting international collaborations for innovation

SOLUTION:
Investing in knowledge to move up the value chain



Partnerships at work

SOLUTION:
Investing in
knowledge to
move up the
value chain



Shrinking
markets



In UNIVERSITIES:

•Aligning resources to add value
and support the shared vision

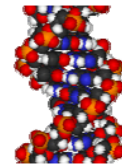


Partnerships at work

SOLUTION:
Investing in
knowledge to
move up the
value chain



Shrinking
markets



In BUSINESS:

Creating new products and
processes to address emerging
markets

- Personalised medicine
- Clean energy
- Technologies for sustainability

Partnerships at work

An example from Northern Ireland

GOVERNMENT: (Health)

- £80 MILLION investment in a new Cancer Care Centre at Belfast City Hospital as core element of major programme of change and development in cancer services across Northern Ireland



Partnerships at work

An example from Northern Ireland

UNIVERSITIES:

- £25 MILLION investment in the Centre for Cancer Research and Cell Biology
- Cross-Faculty, interdisciplinary research centre with over 300 clinical and basic researchers from across the world that is committed to the highest quality of research excellence.
- Developing the highest quality clinical and basic science research programmes. Translating research from the bench to the bedside.



Partnerships at work

An example from Northern Ireland

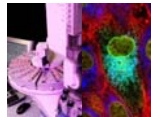
BUSINESS:

•£200 MILLION investment to create new drug and personalised medicine programmes

•Industry priorities supported by University Investment - aligning of Industry and University research strategies



- Diagnostics
- Sciences
- Clinical Services
- Clinical Technologies
- Pharma Services



- Centre for Cancer Research and Cell Biology
- Analytical Chemistry
- Biomedical Informatics
- Medicinal Chemistry



Partnerships at work

An example from Northern Ireland

GOVERNMENT: (Economic Development)

•DEL All-Island projects in Medicinal Chemistry and Novel Therapeutics

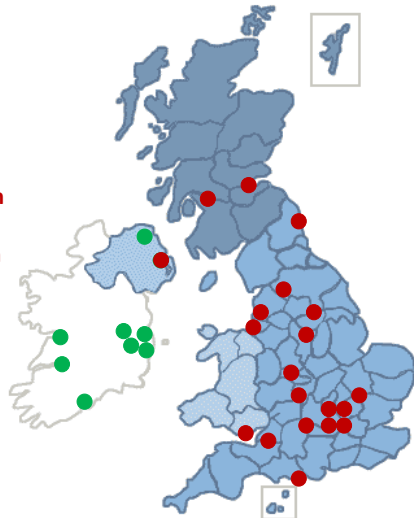
•Future support for major industry-university collaborative research programme in drug discovery and personalised medicine



Partnerships – local and global

If knowledge is now the currency of the 21st century then universities are in a pivotal position to support business-led science and innovation partnerships

North/South and UK wide

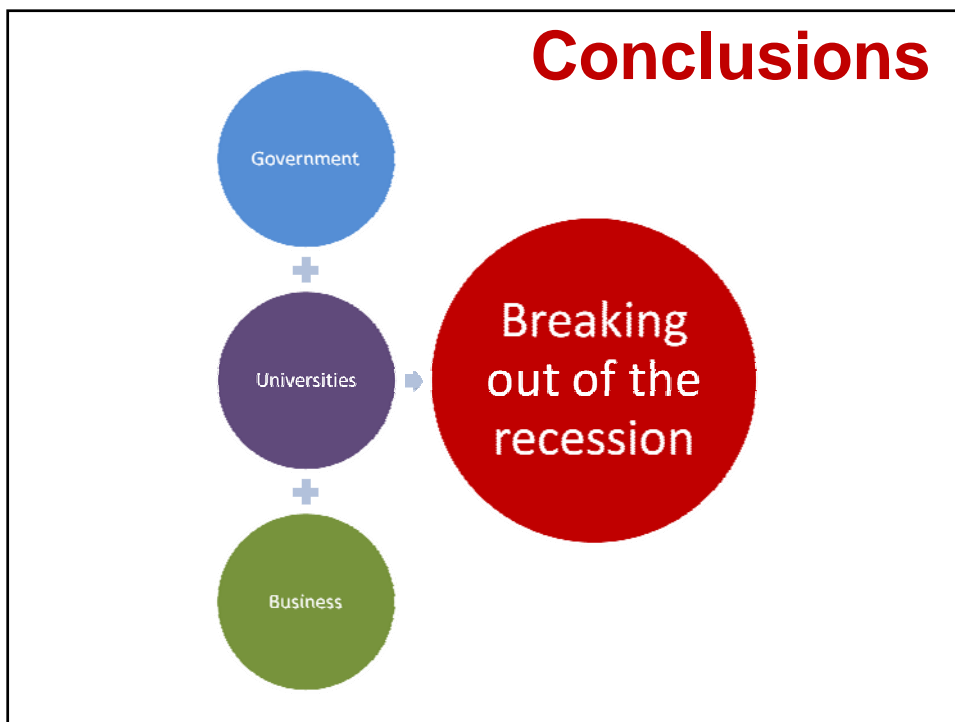
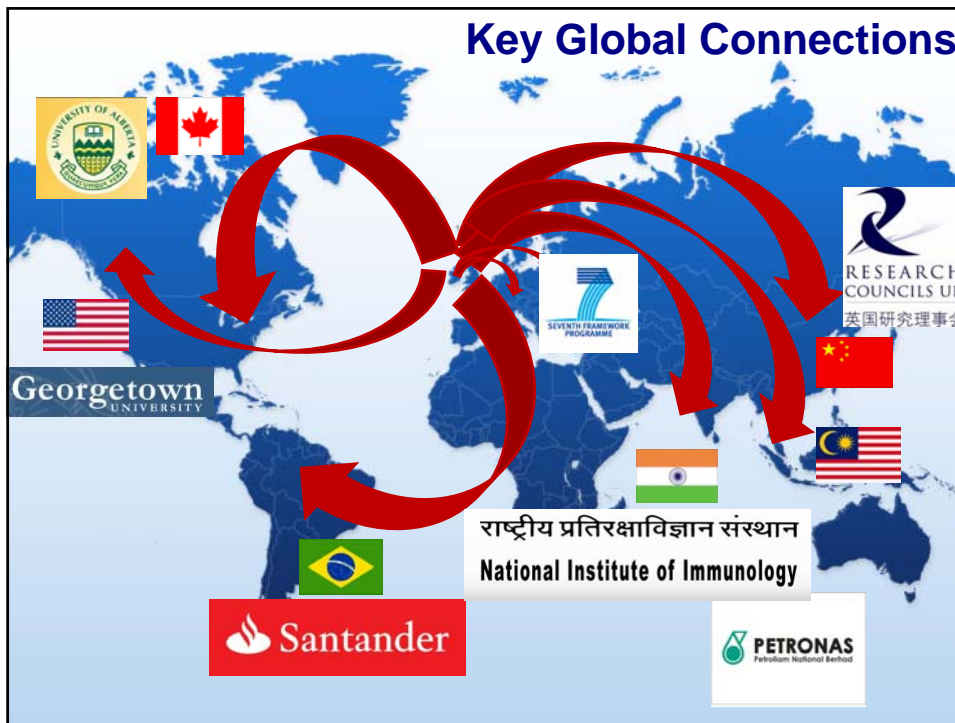


North/South research collaboration

NI is an interface and stimulus for East/West research collaboration

Links to the highest standards of UK and Global research, education and knowledge transfer

Logos of partner institutions: Queen's University Belfast, University of Dublin Trinity College, UCD, U, UCC, National University of Ireland Galway, NUI MAYNOOTH, University Limerick, DCU, and Rg.



Conclusions

**If knowledge is now the currency of
the 21st century then science and
innovation partnerships will be the
banking system of the future**