Presentation by Dr Jim Browne, President, NUI Galway



Regional Assemblies Joint Annual Conference on 'The Contribution of Cohesion and Urban Policy to Economic Recovery'

The Contribution the Higher Education Sector can make to Smart & Sustainable growth



NUI Galway: An Introduction





NUI Galway





OÉ Gaillimh NUI Galway

NUI Galway: An Introduction

- Established in 1845 one of Ireland's 7 Universities
 - Arts, Social Science & Celtic Studies
 - Science
 - Medicine, Nursing & Health Sciences
 - Business, Public Policy & Law
 - Engineering & Informatics
- 105 hectare campus
- Located in medieval town on the Atlantic Coast





NUI Galway in figures

Our Students

Undergraduates	c. 12,500
Postgraduates	c. 3,600
Other Students	c. 1,200
Total	c. 17,300

Our Staff

Academic Staff	1,078
Administrative / Support	
Staff	1,015
Research	448
Total	2,541



NUI Galway in figures

Student Fees €101m

State Grants €53m

Research Income €58m

Other income €10m

Total Income €222m

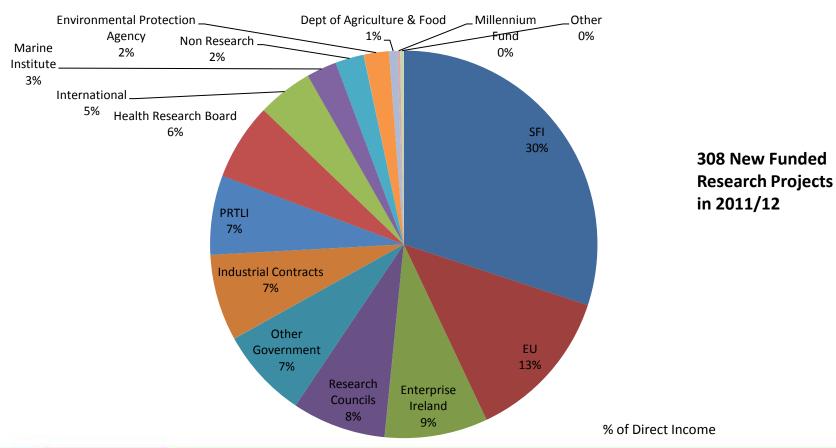
2011-12 Figures



NUI Galway in figures

Research Income 2011/12 by funding agency

Total Income: €59,516,561 - Direct: €50,292,576 Indirect: €9,223,985

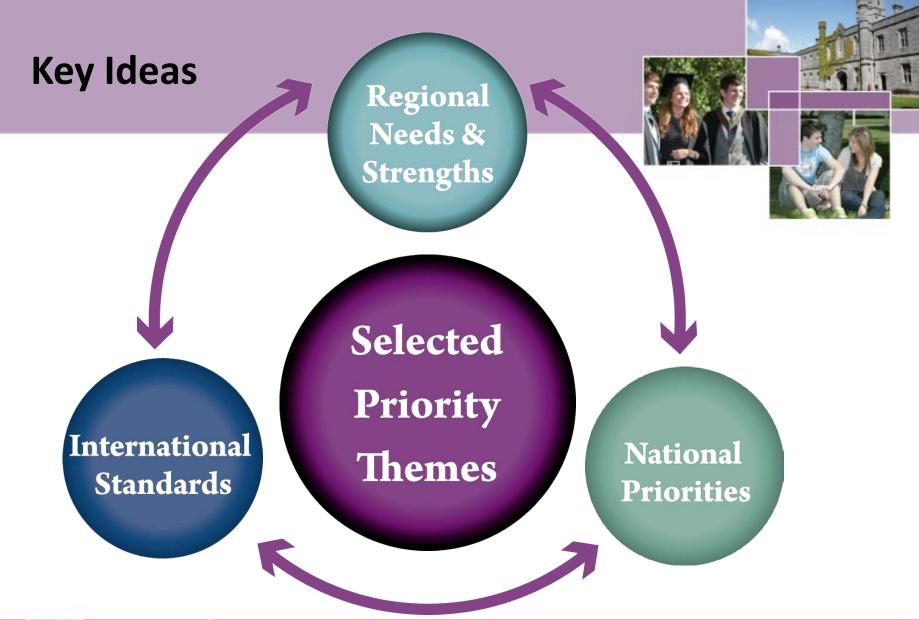




Our Vision

- A holistic educational and cultural experience for all students
- Recognised internationally in key areas which contribute to national priorities, build on the strengths and address the needs of our region
- A commitment to Gaeltacht regions and the Irish language
- Through effective strategic partnerships with regional, national and international stakeholders







OÉ Gaillimh NUI Galway

Our Priority Themes

- Biomedical Science and Engineering
- Environment, Marine and Energy
- Informatics, Physical & Computational Sciences
- Applied Social Sciences and Public Policy
- Humanities in Context



Research Centres in Biomedical Engineering Sciences



- 400 members: academic staff, full-time researchers and post-graduate students
- 4 major research themes:
 - Biomedical Engineering
 - Cancer
 - Neuroscience
 - Regenerative Medicine.

Regenerative Medicine Institute (REMEDI)

Alimentary Glycoscience Research Cluster (AGRC)

Network of Functional Biomaterials (NFB)







- •Ireland's largest **School of Engineering** opened in 2011
- A new Biosciences Research Building will open in 2013
- A new Translational Research Facility opens in 2014
- A Clinical Research Facility opens in 2014



MedTech sector and the West of Ireland

The MedTech Sector in Ireland

- One of 5 emerging global hubs for Biomedicine
- Leading cluster for medical device and diagnostic products globally
- Europe's second largest exporter of medical products
- C.250 companies involved
- 17 of the world's top 25 biomedical companies have a major presence in Ireland
- Exports in excess of €7.9 billion annually
- Over 25,000 people employed, over 10,000 in Galway

Med Tech – Facts and figures – April 2013

There are over 250 medical technology companies in Ireland, 100 of which are indigenous.

Nearly 1,500 jobs and €200 million in investments been publically announced over the past 2 years.

Ireland is home to 17 of the top 25 global med-tech companies with exports in excess of €7.9 billion annually.

64% increasing spend on R&D over the same period.

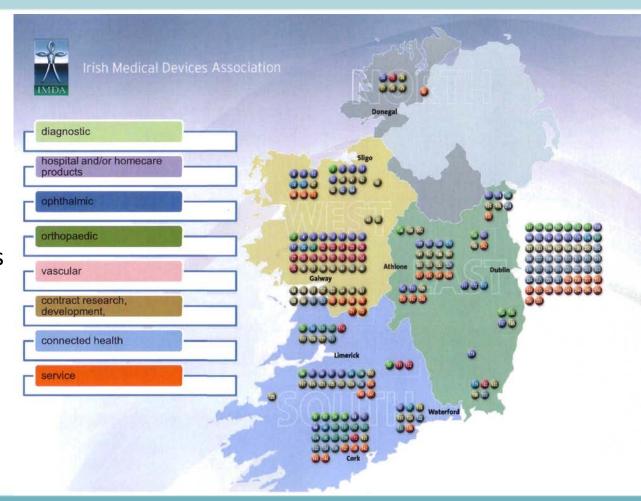
42% expect to recruit additional employees during the second quarter of 2013.

Over 68% of companies expect to increase their customer base,



Medtech Sector

- Regional distribution of MedTech sector in Ireland
- Correlation with location of HE institutes





NUI Galway and MedTech

Our unique distinguishing features in biomedical engineering science:

- Leading Clinical, Research and People infrastructure
- Well-developed, dynamic relationships with the medical devices industry, both multinational and indigenous
- A strong co-operative relationship with HSE West
- A proven track record of R & D cooperation and industry partnership
- Disposition and commitment to collaboration and innovation

NUI Galway's Partnership with MedTech sector

- Successful bids to national and international funding agencies
- Targeted recruitment of the best researchers
- Strategic allocation of University resources towards Biomedicine
- Very significant investment in research infrastructure, including Clinical and Translational facilities
- A complementary range of interdisciplinary research centres within the National Centre for Biomedical Engineering Science (NCBES): REMEDI, AGRC, NFB, CCB
- BioInnovate Ireland & MeTRIC Ireland





- A specialist training programme based on BioDesign programme at Stanford University
- Graduates with knowledge of innovating medical technologies
- A catalyst for product development research and spin-outs
- A unique pathway for knowledge transfer and building enterprise





Specific Clinical Focus Each Year

Year 1 – 2011/12: Cardiology

Year 2 – 2012/13: Urology & Radiation Therapy

Year 3 – 2013/14: Gastro-Intestinal & Orthopaedics



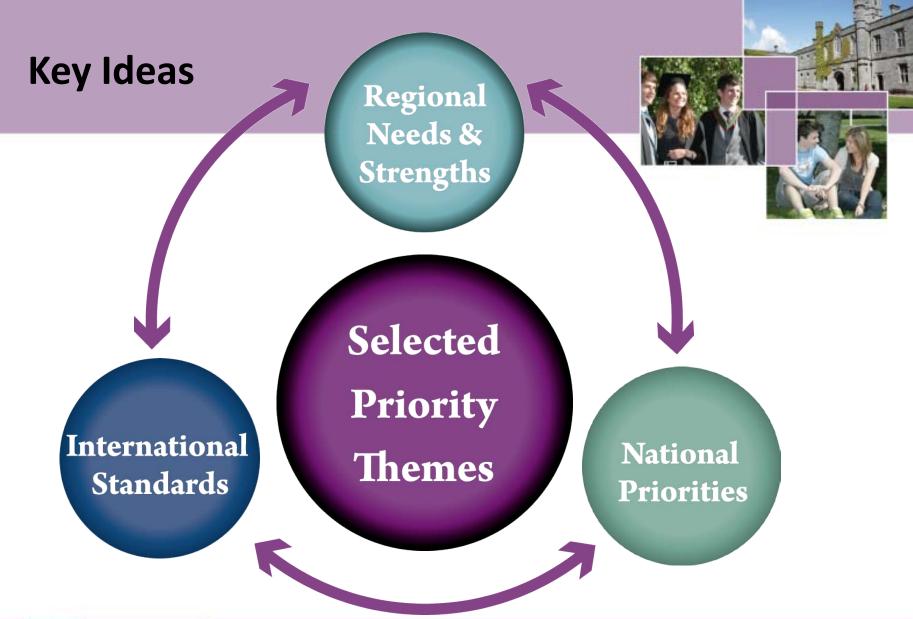


- Research and innovation consortium involving 5 HEIs
 - NUI Galway
 - UL
 - AIT / GMIT / IT Sligo
 - + BMW Regional Assembly and Georgia Tech Ireland (GTI).
- Mission is to provide rapid and effective access to the capacity and capabilities within the consortium, the associate members and the broader HEI sector for enterprises.



NUI Galway - Technology Transfer Metrics

Year	2007	2008	2009	2010	2011	2012	Total
IDFs	34	55	58	70	47	42	306
Patents	22	29	17	10	15	6	99
Licences/Options	24	9	16	10	11	15	85
Spin-outs	4	0	7	6	4	3	24
Industrial Collaborations	40	26	36	31	30	31	194





OÉ Gaillimh NUI Galway

International Ranking



5 star rating in the 2012 QS Global University rating for:

- Research
- Teaching
- Internationalisation
- Innovation
- Facilities
- Engagement



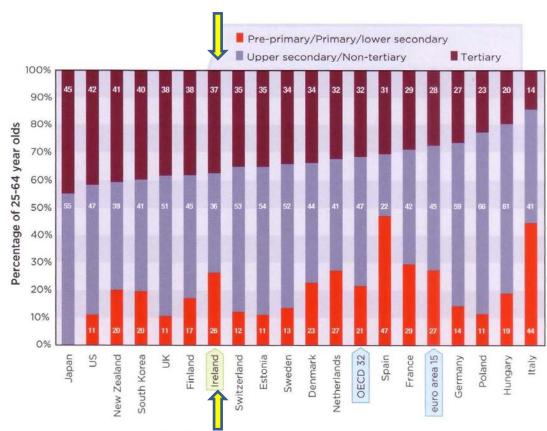
Smart & Sustainable Growth – Some Positives

- 37% University education
- 36% Secondary education
- 26% Primary education



Figure 24:

Educational Attainment of Population aged 25-64 by Highest Level of Education, 2010





Source: OECD, Education at a Glance, 2012

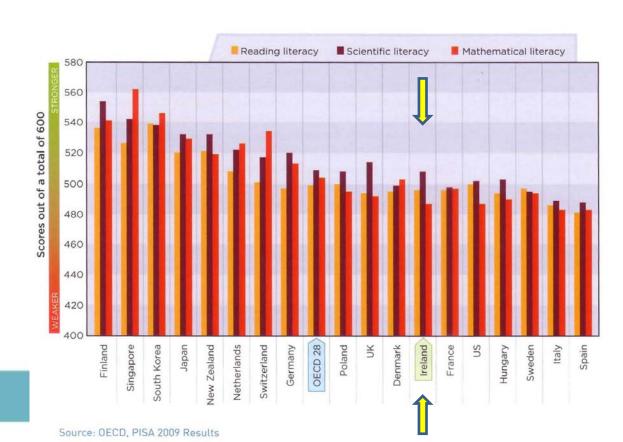
Smart & Sustainable Growth - Some Concerns

- STEM investment
- Proficiency in Maths & Science

FORFÁS IRELAND'S COMPETITIVENESS PERFORMANCE 2013

53

Figure 25:Scientific, Mathematical and Reading Literacy of 15 Year Olds, 2009





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