

# **Workshop**

# **University of Split**

**John Scanlan**

**TT Director**

**National University of Ireland Maynooth**

# Research and Innovation in Ireland

- Science Foundation Ireland
- Irish Development Authority
- Enterprise Ireland
- Knowledge Transfer Ireland

# Knowledge Transfer Ireland

The screenshot shows the Knowledge Transfer Ireland website. At the top left is the KTI logo with the tagline 'Where Research & Business Connect'. To the right are social media icons for Twitter, LinkedIn, and YouTube, followed by a navigation menu: Home | Site Map | Reports | Contact Us | News | Events. Below this is a search bar with the text 'Search the website' and a magnifying glass icon. A secondary navigation bar contains the following links: ABOUT KTI | RESEARCH IN IRELAND | BENEFITS TO BUSINESS | FIND A RESEARCH PARTNER | HOW TO WORK WITH HEIS | GUIDE TO AGREEMENTS.

The main content area features a large banner with the title 'Knowledge Transfer Ireland' and a descriptive paragraph: 'Knowledge Transfer Ireland takes a national perspective on the knowledge transfer (KT) system in Ireland. KTI works with business, investors, universities, Institutes of Technology, State research organisations, research funders and government agencies to maximise State funded technology, ideas and expertise getting into the hands of business to drive innovation.' A 'Read More >>' link is positioned at the bottom right of the banner.

Below the banner are three colored boxes with icons and text:

- Find Your Research Partner** (purple box with lightbulb icon): Find Expertise & Research Partners for Companies in Ireland
- Find a Research Provider** (green box with map of Ireland icon): View the National Research Centre Directory
- How to Engage with HEI's** (purple box with arrows icon): Step by Step Guide on How to Engage with Research Providers

## WHAT PEOPLE ARE SAYING ABOUT KT IN IRELAND



“ Code On is a technology-enabling company that licenses IP from a number of universities. We approached Maynooth University to license the high-quality research coming out of the Hamilton Institute and were impressed with their Technology Licensing Office. Maynooth University's licensing officers are experienced business professionals with a sophisticated understanding of and a focus on commercialising new technologies. As a result, licensing discussions moved quickly and smoothly with the right key issues identified and quickly resolved. We highly recommend working with Maynooth University on both research development and licensing ”

Laila Partridge Code On Ltd



# Knowledge Transfer Ireland

## FEATURED NEWS



### CIT and Tyndall announce licence agreement with ProPhotonix

Unique laser module technology for applications in the food, industrial, medical...

[Read More >>](#)



### Luxcel Biosciences launches game-changing solution for dairy industry

UCC spin-out company set to transform global quality and hygiene in dairy produc...

[Read More >>](#)



### Maynooth University spin-out, Neuromod, launches new treatment device ...

The Minister for Jobs, Enterprise and Innovation Richard Bruton TD today announc...

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### UCD Spin-out Equinome Receives Innovation Award

Equinome announces plans for new jobs and international expansion as company co...

[Read More >>](#)

## INTERESTING FACTS **ABOUT** KT IN IRELAND



1st

In Europe for Knowledge Transfer in Public Research Organisations



10th

In the Global Innovation Index 2013



€782M

Higher Education Expenditure on R&D in 2013



122

Licence Agreements in 2013



€42M

Invested to Support Technology Transfer



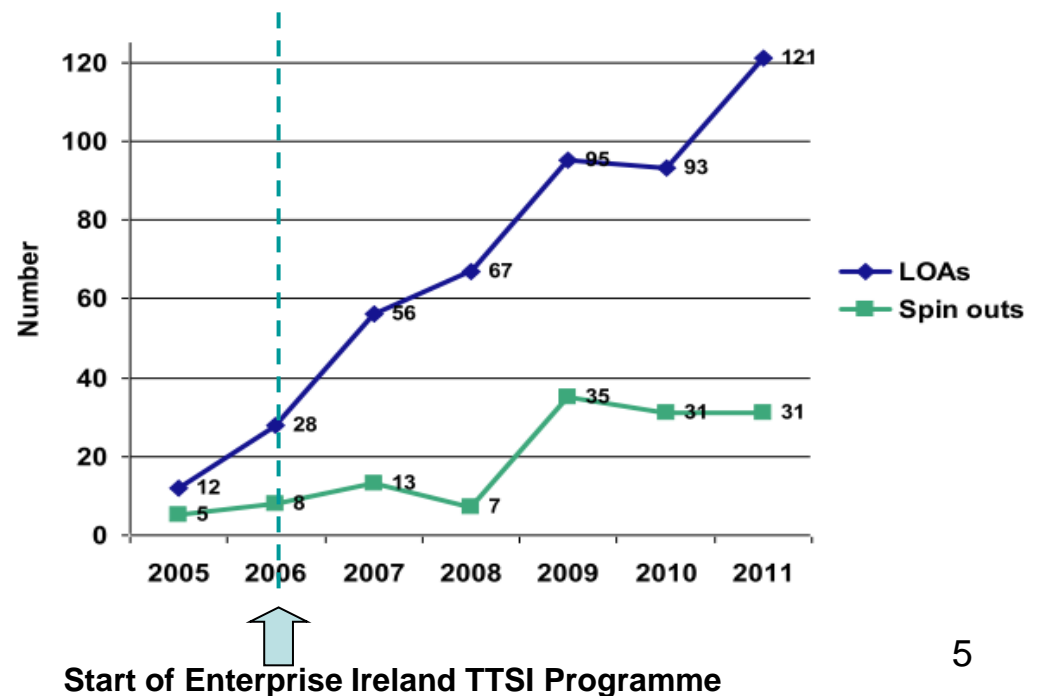
435

New Inventions Disclosed

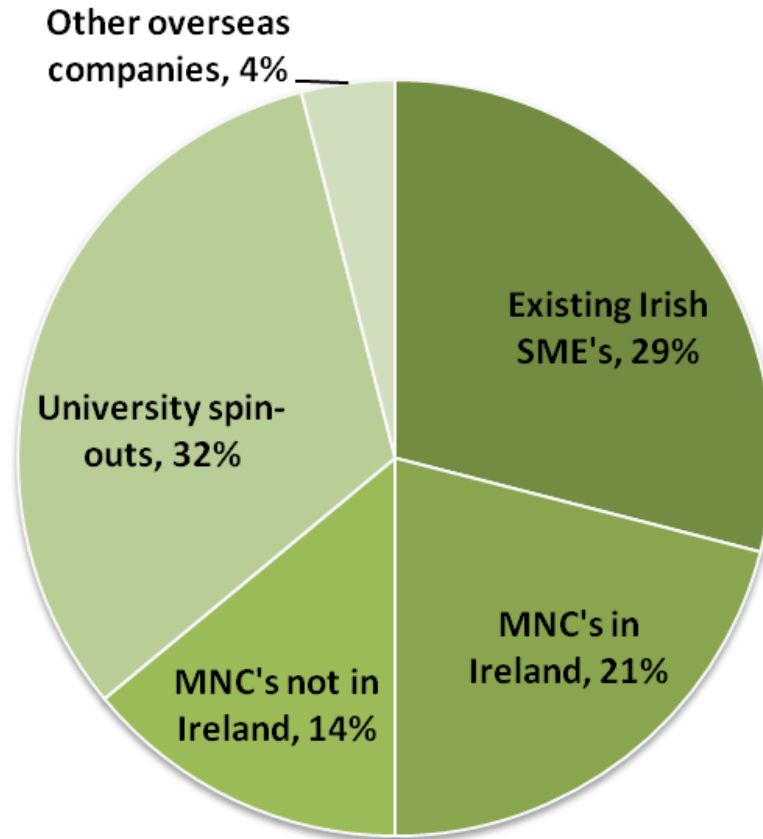
# Overview of TT in Ireland

- TT firmly established in Irish universities in 2006 with EI funding (TTSI)
- TTSI phase 2 to run 2013-2016
- Universities partner with IoTs in consortia (e.g. NUIM + 3)

- Average 5 TT staff per office
- Deal with industry contracts, TT, incubation, entrepreneurship



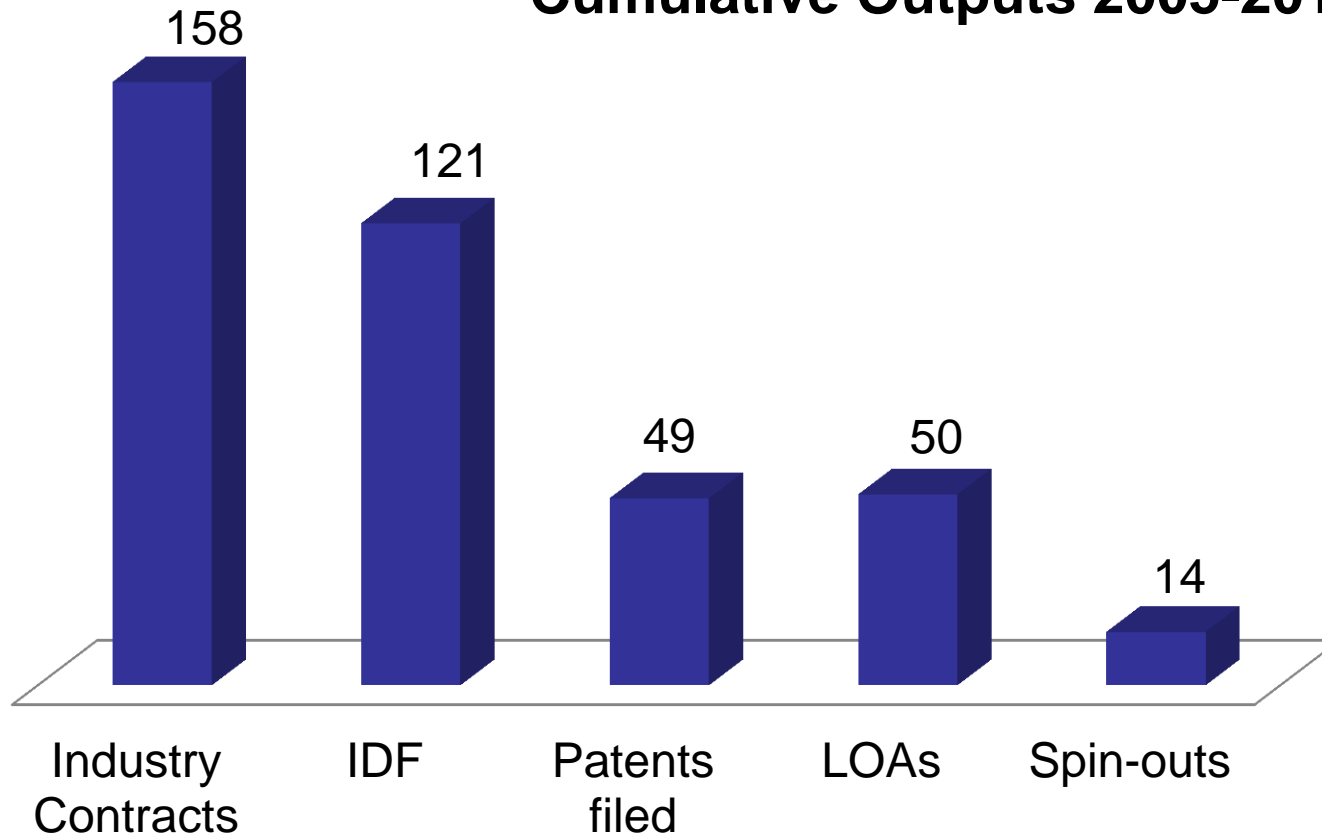
# Irish TT system



**CASE STUDIES**  
**Maynooth University**

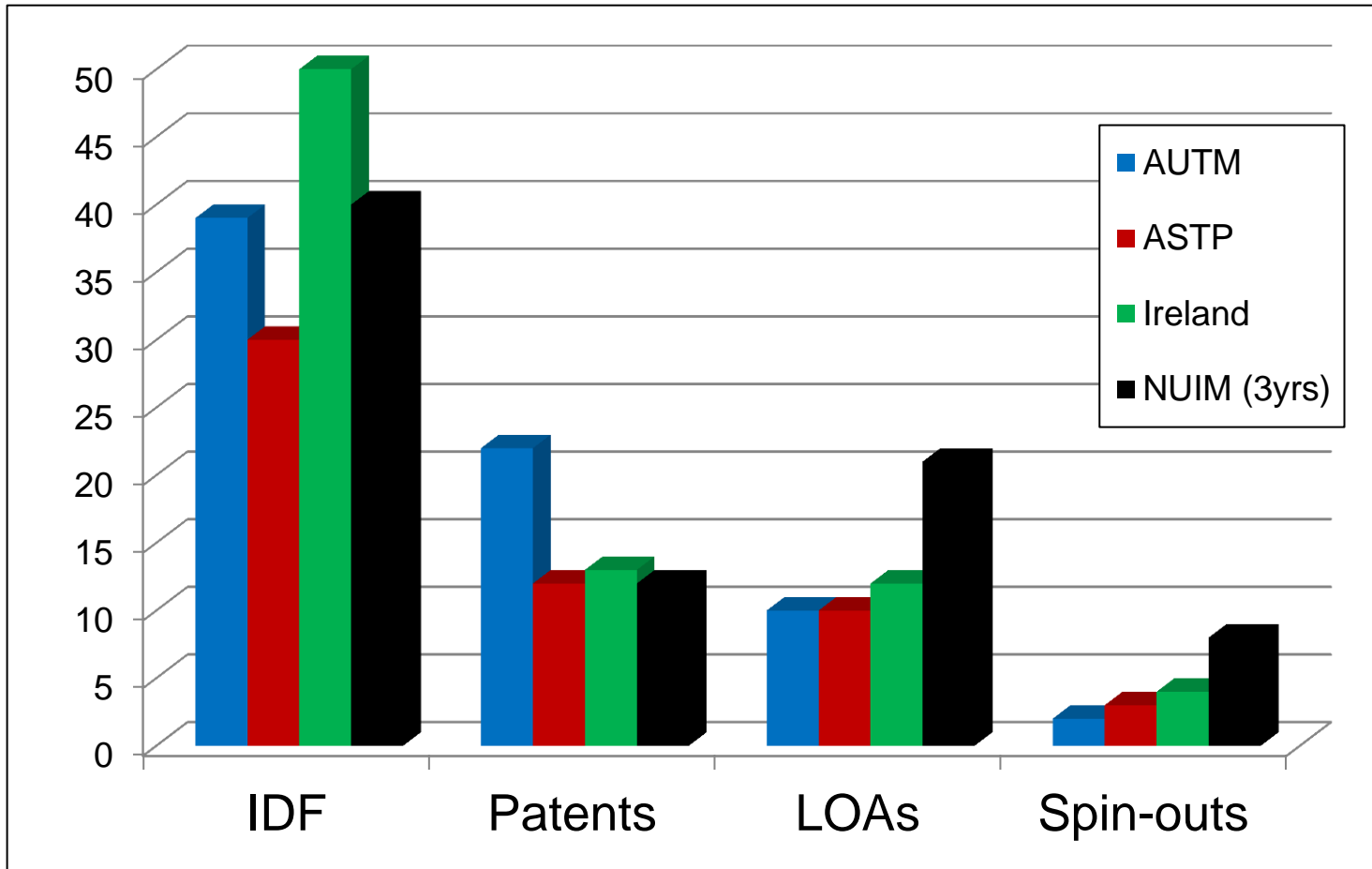
# TT Impact outputs

Cumulative Outputs 2005-2013





# TT Impact outputs



**Average annual outputs per \$100m dollar research spent**

# Industry Links (examples only, more than 150 in total)



# License Agreements



# Existing Spin-Outs



Metric Capture Technologies

# Case Study 1 – NUIM spin out



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health  
and vitality  
for bees



## Welcome to the Beemune home page

Our business is founded on bee health and vitality.

It has been estimated that honeybees contribute over \$200 billion to the global economy through production of honey and crop pollination. But bee diseases have been of growing concern over the last 20 years. Between 1987 and 2006 the number of managed bee colonies has dropped by 45 per cent and so-called Colony Collapse Disorder has become prevalent. This is believed to be caused by a number of factors including environmental stress from the spread of mono cultural farming and loss of habitat, use of pesticides and viral infections. Existing treatments have proved to be inadequate.

Our purpose is to develop and market products to safeguard the health and wellbeing of bees, thereby ensuring their continued productivity in crop pollination and honey production.

So if you are working with honeybees or selling products to those who are, click on the links to find out more about what we do and how we can help you.

[Home](#) [About us](#) [About bees](#) [Our approach](#) [Partnership opportunities](#)  
[Contact](#)

# Case Study 2 – NUIM spin out

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## products

### mutebutton™ by NMD

The mutebutton™ system offers a revolutionary treatment for subjective tinnitus. Tinnitus, which is often described as a persistent 'ringing in the ears' or perception of illusory sound, is estimated to effect 10% of the population. mutebutton™ offers a non-surgical, neuromodulation treatment designed for home use, which gradually aids the brain in distinguishing between real and illusory sounds.

mutebutton™ was developed in collaboration with teams of leading neuroscientists, ENT surgeons and clinical audiologists who are based in Irish universities and hospitals. The product is due to launch in Ireland in December 2014 and in the UK in early 2015.

For more information on mutebutton, please visit [www.mutebutton.ie](http://www.mutebutton.ie)



### NMD platform technology

Neuromod Devices has developed a stable platform technology which it can use for rapid development and evaluation of neuromodulatory interventions. By working in partnership with our established network of clinical partners and Universities, the company can rapidly prototype, evaluate and refine new technologies. This enables us to de-risk new products early, increasing their investment potential.

### future products

Neuromod Devices is working with leading clinicians, scientists and biomedical engineers at Irish universities and hospitals to evaluate a number of high-value opportunities for innovative therapeutic products targeting globally under-served markets.

The company is currently investigating a number of potential applications for their technology inclusive of a new non-surgical neuromuscular rehabilitation treatment.

# Case Study 2 – NUIM spin out

profector  
IFF SCIENCES

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*Spraybase®*



Respirefactor®



Sprayfactor®



Spraycell®



PRESS RELEASE 05 JANUARY 2015

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The Profector®'s biofabrication and delivery platform technology enables spraying, electrospraying and electrospinning processes. These processes create highly uniform nano scale particles and fibres that have application in healthcare and disease. The technology enables the delivery of molecules to cells and the production of biological scaffolds.

The Profector® team is focused on developing the spray technology's potential therapeutic applications. We have identified significant potential in gene and cellular therapy as our lead Sprayfection® product achieves highly efficient levels of transfection of a broad range of biological materials into hard-to-transfect cells without the risk of immunogenicity, toxicity or carcinogenicity.

Our Respirefactor® local delivery medical device will be validated in a first-in-man study of the device in confirmatory lung cancer diagnosis, anticipated early in 2015. Our Spraybase® bio-fabrication and encapsulation instrument is in-market and used by leading academic and industry clients in the US and around the world. Our SprayCell® technology facilitates the delivery of cells and drugs to 3D scaffolds for use in regenerative medicine.

**Thank You**