

NITT SK 2013 – Technology Transfer in Slovakia and Abroad.

Update from Ireland on TT
and the establishment of an Irish
central Technology Transfer Office (cTTO).

Greg Treston
Oct 9th 2013

Drivers of the Irish cTTO approach

- Perceived need by Government for a **greater economic impact** from its investment in research.
- The key stakeholders-(Irish based industry) were unhappy with the **variability** of both the approach and terms **within the TTO system**.
- Nationally, Ireland needs to see a **strong economic return from its public investment in research**,
 - particularly in supporting the **deepening of the roots of the Irish industry base**,
 - including the 1,300 multinationals exporting from Ireland
 - and the creation of new innovative start-up businesses in Ireland.
- A belief that an effective technology transfer office should
 - be **closely aligned with**, and have the support of **the RPO it serves**
 - and have a close relationship with and the goodwill of their related PIs.

Timeline of Irish cTTO Office

- **June 2012** -**Government Decision** to establish cTTO
- **Sept 2012** - Enterprise Ireland sets up transitional cTTO office and recruitment process begins for **cTTO Director**.
- **Sept 2013** -**Dr Allison Campbell** commences as **cTTO Director**.
- The focus of the role is to improve companies' access to the wealth of experience and IP present in the Irish publicly funded research system.

Ireland – The Basics



Size: 70,282 km²
Population: 4.6 million

GDP: €159bn
GDP per Capita: €35k
- Eurozone Average = €28k

Exports: €167bn
Imports: €132bn

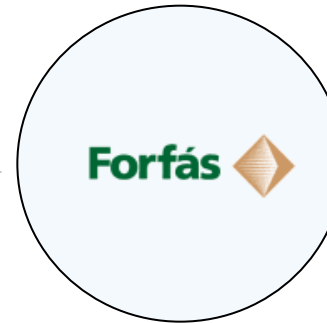
English Speaking
Currency: Euro

EU Member
• **Population 500m**
• **26% of world GDP**



An Roinn Post, Fiontar agus Nuálaíochta
Department of Jobs, Enterprise and Innovation

(€808m
Budget)



Irish Owned
enterprise

World-Class
Research

Policy analysis
and advice

Inward
Investment

€322m

€166m

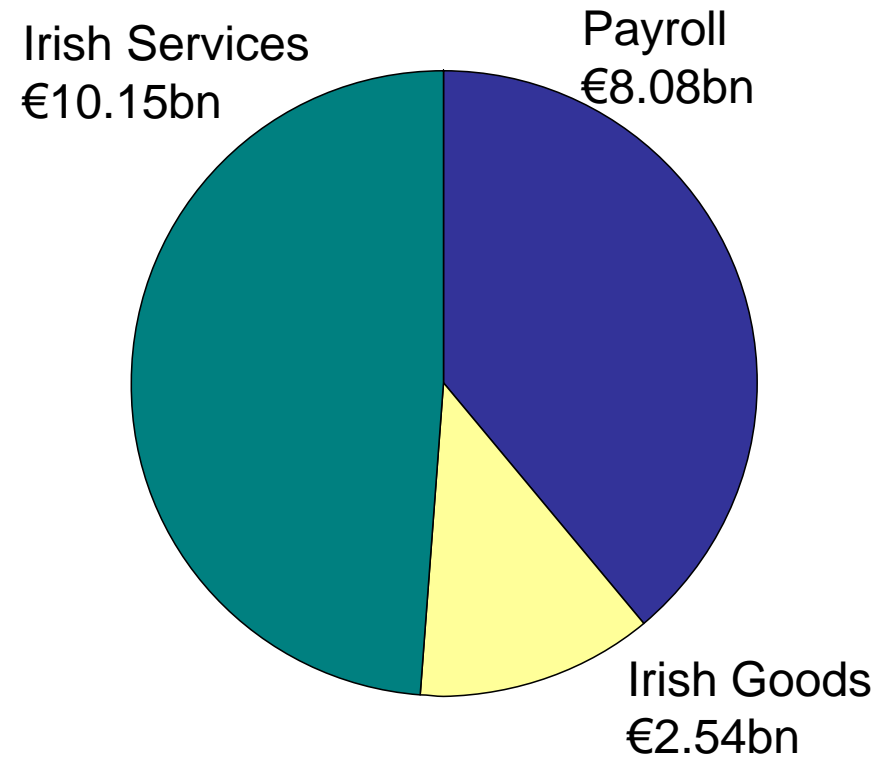
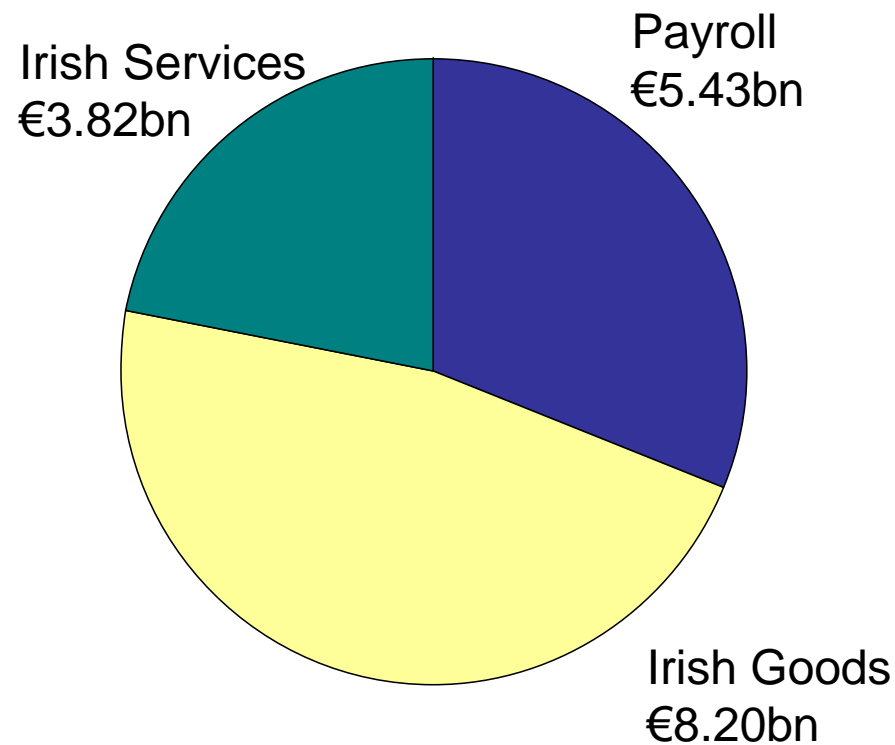
€18m

€146m

It's about Jobs and Economic Impact

Irish Owned Companies **EI**
Employment = 145,983
Spend in the Economy = €17.5billion

Foreign Owned Companies **IDA**
Employment = 138,488
Spend in the Economy = €20.8billion



EI works with clients in 5 core areas:



Building leadership and management capability



Entrepreneurship



Exports and Market Intelligence



Competitiveness



Innovation

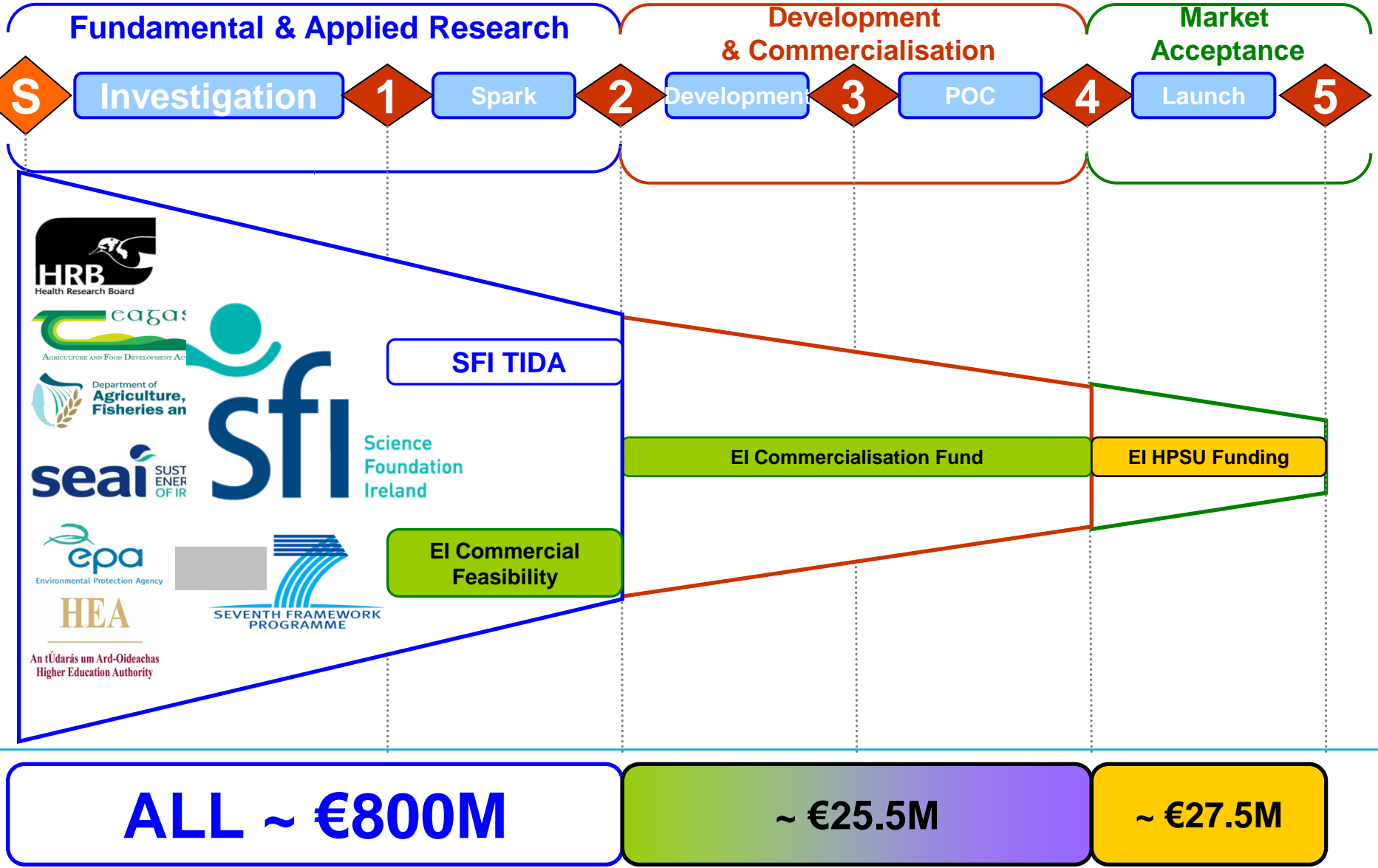
R&I Unit Remit is to:

1. Drive In-Company R&D
2. Drive Academic Research Outputs into the Commercial World (*“Technology Push”*)
3. Supporting Industry to Collaborate with Academic Institutions and Commercialise the Outputs (*“Technology Pull”*)

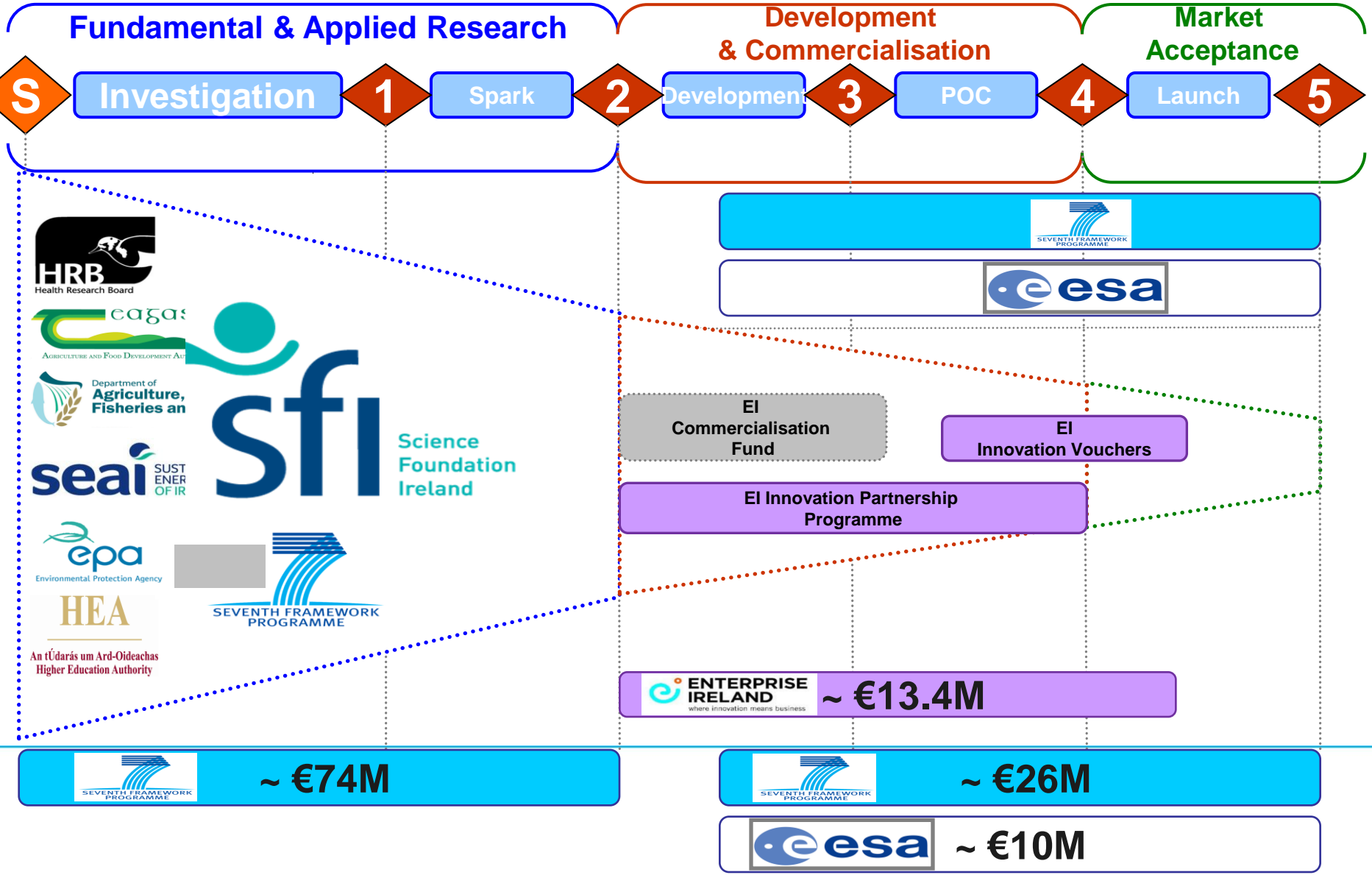
The Irish National technology agenda -key transitions since 2000.

- **Nationally funded research investment primarily within Universities,** and to a much lesser extent in applied research institutes.
- **Science Foundation Ireland (SFI) established in 2003**
- **Doubling of Irish Government investment in R&D -**
-Strategy for Science, Technology and Innovation (SSTI) **2006–2013,** -
€8.2 billion was allocated for scientific research.
- **“The Innovation Task Force” 2011.**
- **“Research Prioritisation Initiative” 2012**
- **Establishment of cTTO office 2013**

Commercialising Research - Academic Push



Commercialising Research - Enterprise Pull



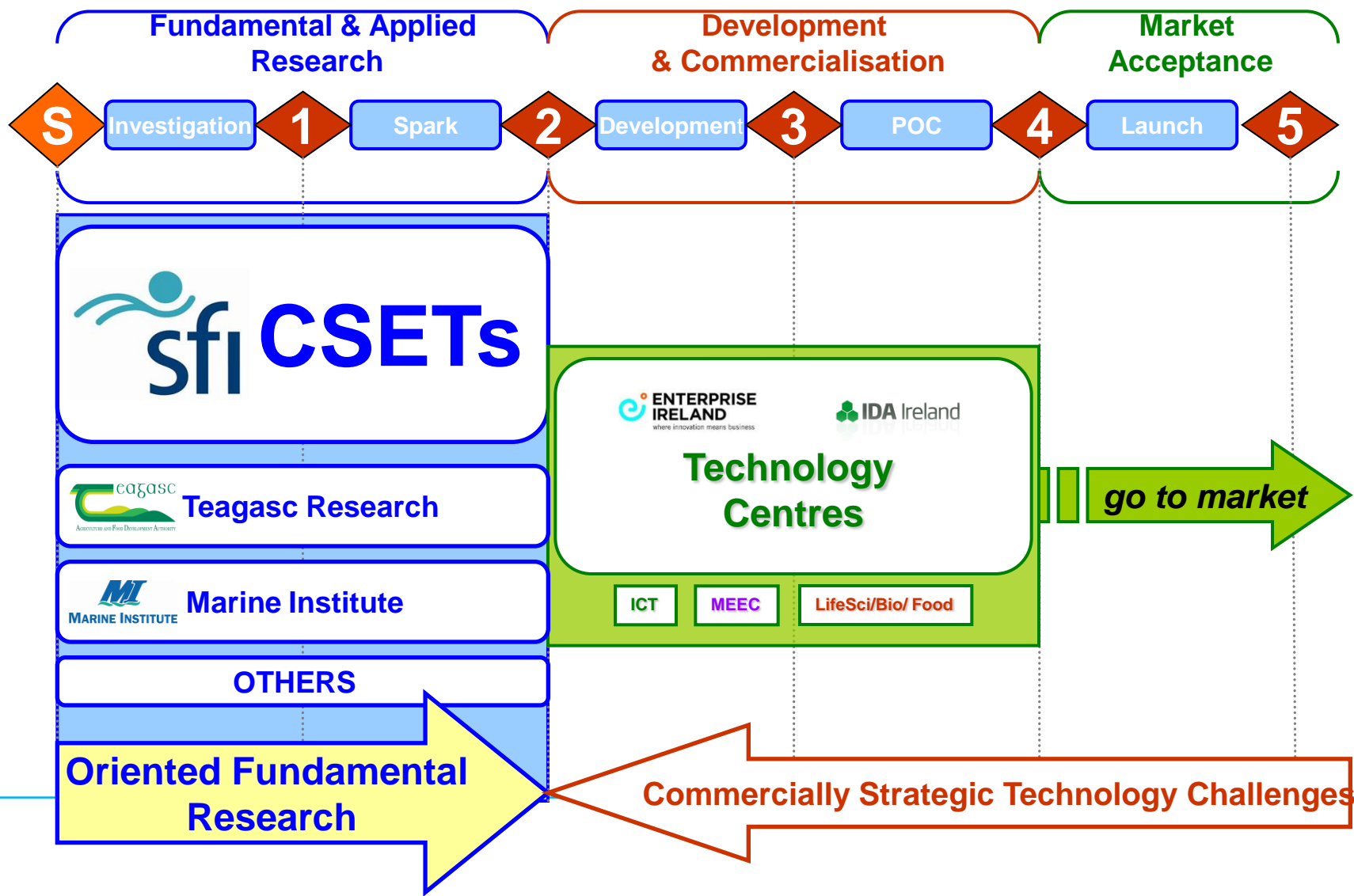
Fundamental & Applied Research

Development & Commercialisation

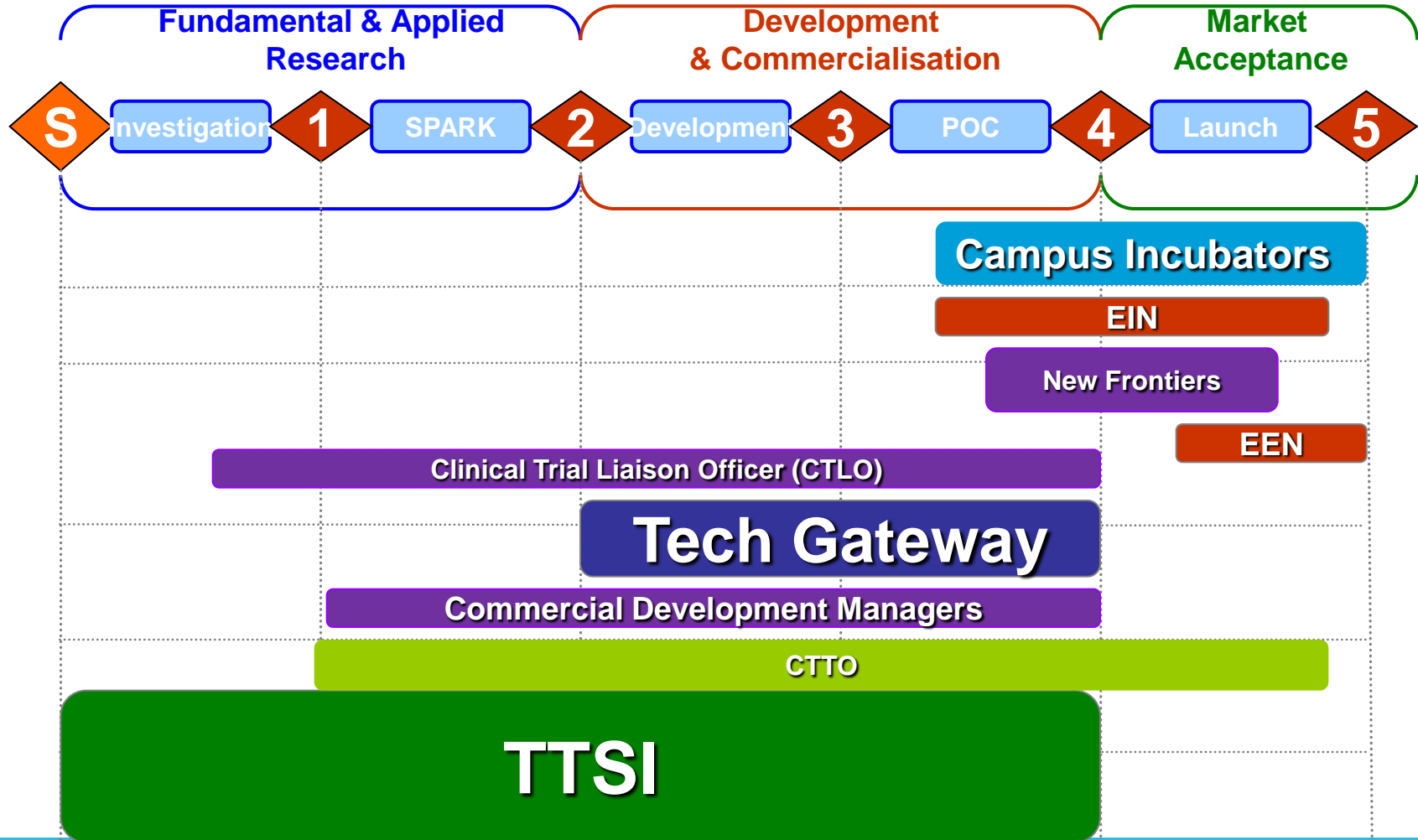
Market Acceptance



Research & Technology Development Centres



Infrastructure & Support



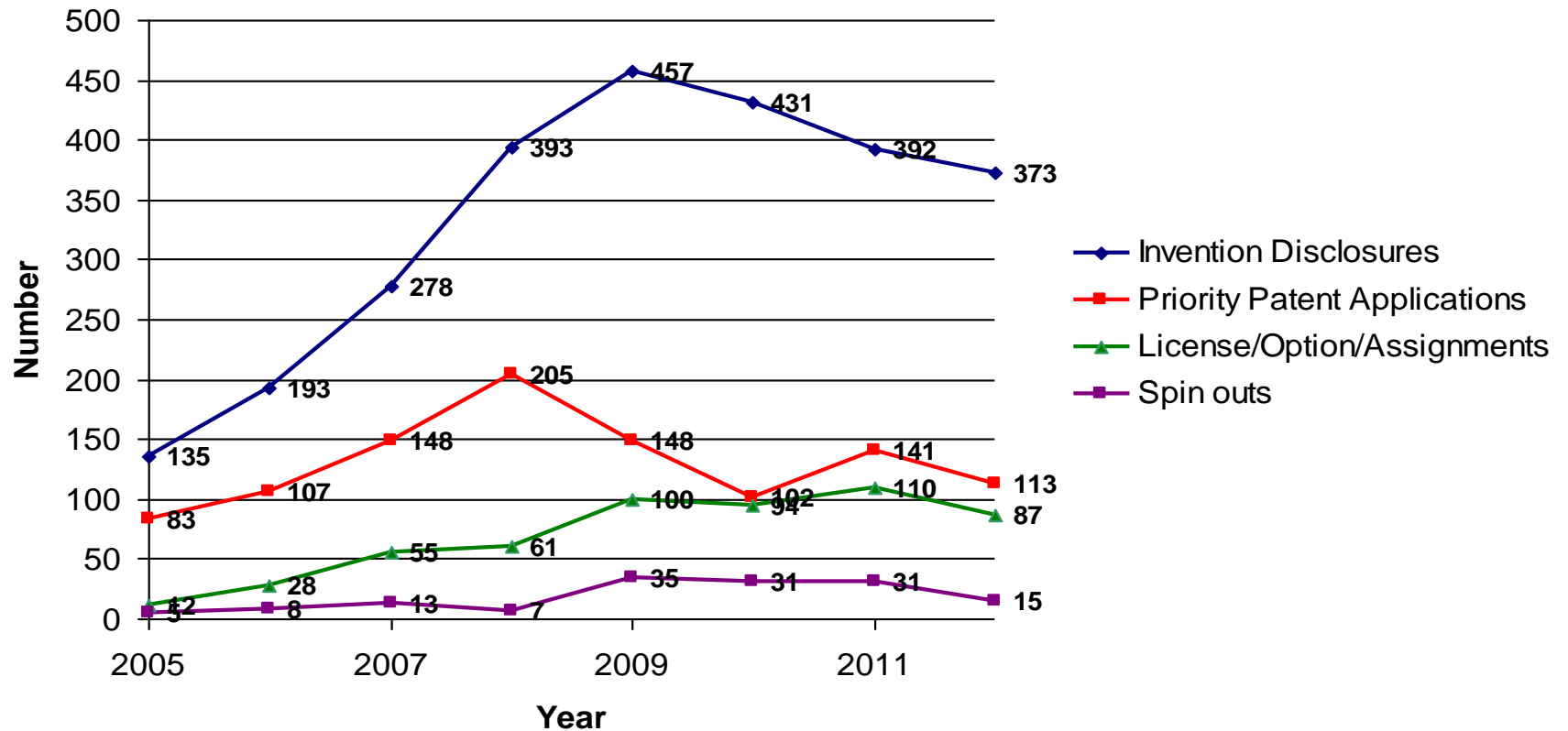
-Infrastructure resources within the Irish system for TT has been put in place

-Total employment in technology transfer offices, 2007 – 2012

Category	2007	2008	2009	2010	2011	2012
Technology Transfer professionals			39.4	44.4	43.1	41.1
Administration staff	11.5	14.5	17.5	15.2	13.4	14.0
Operational Staff			5.5	6.1	4.0	2.8
Legal Staff			2.0	3.0	3.0	2.3
Business Development Staff	5.2	7.3	13.6	6.3	8.0	6.6
Other			15.8	0.4	12.9	14.1
Other (2007/8)*	31.6	46.4				
Total	48.3	68.2	93.8	78.4	84.4	80.9

EI Funding €5m- €6m per annum under TTSI

outcomes



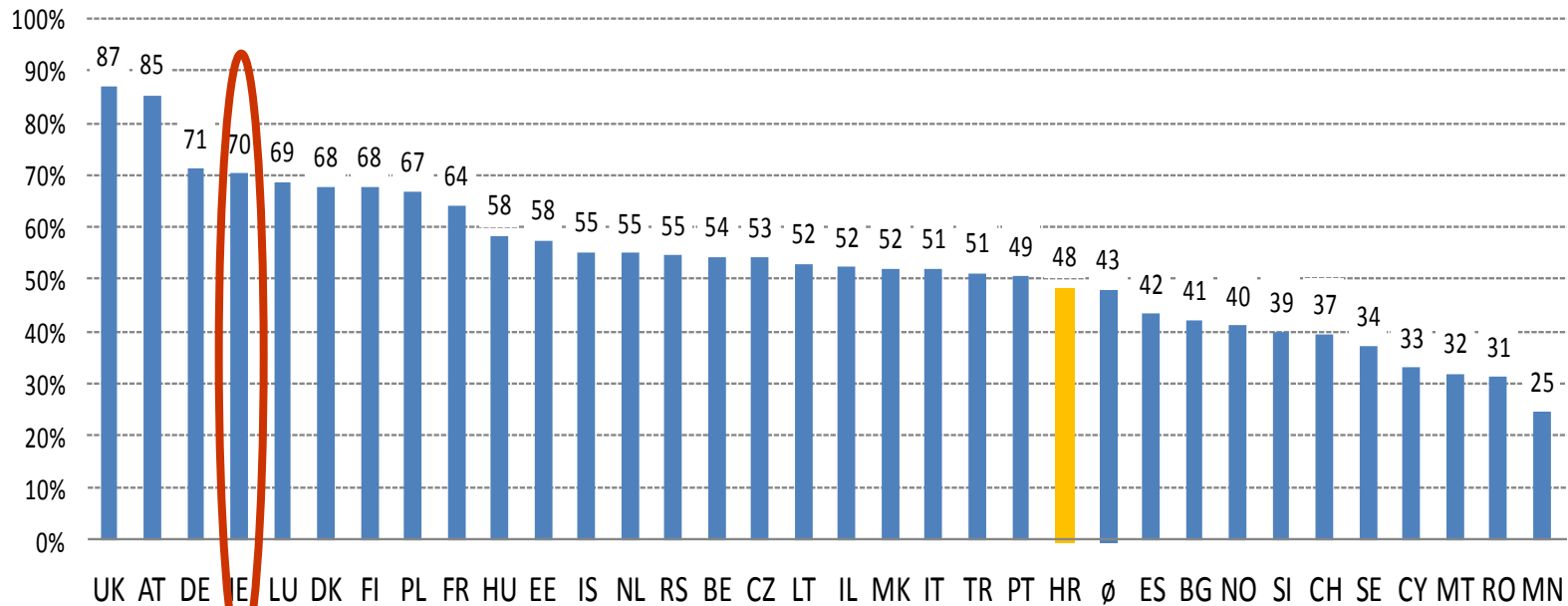
LOAs 2009 – 2012

-Impacting primarily on Spin-outs and SMEs

Of the LOAs executed, what percentage were to	2009	2010	2011	2012
Higher Education Institute Spin Outs	28	42	31	32
Small to Medium Enterprises	34	41	49	43
Other organisations, e.g. another HEI	3	2	1	6
Multinational Companies (Irish Based and non Irish based)	35	18	19	19

Results expressed as percentage (%)

Landscape of implementing the European Commission's knowledge transfer Recommendation from 2008 in EU



— actually implemented policy measures only

European Knowledge
Transfer Report 2013

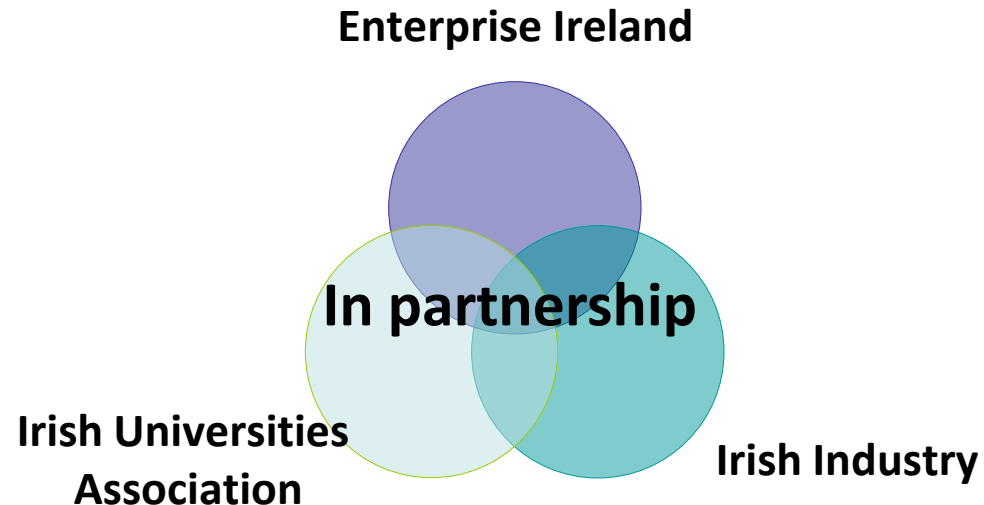
Forward Targets

- Heavy Focus on more commercialisation, better collaboration with industry and greater impact on the economy.
- Increase the share of publicly performed R&D financed by enterprise to €180m over the 2013 to 2017 period
- By 2017 increase the number of spin-out companies by 50%

Technology Transfer – a national strategy “Putting Public Research to Work in Ireland” 2012

Objective

- -To maximise the Irish economic benefits arising from State investment in research.
- To facilitate and streamline the process for commercial entities seeking specific expertise in higher education institutions



http://www.djei.ie/publications/science/2012/Intellectual_Property_Protocol_Putting_Public_Research_to_Work_for_Ireland.pdf

cTTO & RPO's Roles

- cTTO is an independent office within Enterprise Ireland with additional reporting relationships to the Minister and the Irish University Association ensuring that the interface between industry and the research community is effective and that the technology transfer system in Ireland is leading edge.
- The Universities' TTOs will continue to carry out their current commercialisation mandates, and continue to deal directly with all their commercial clients.

An independent cTTO office but within Enterprise Ireland?

- *The resources for the new cTTO office are primarily drawn from Enterprise Ireland's existing pool.*
- *Enterprise Ireland has decided to merge with the cTTO office, its **Technology Transfer Strengthening Initiative resources** which oversees the funding of the Universities' TT activities at €5.5m per annum for the period 2013-2016.
- This brings strength to the cTTO office while avoiding duplication.*
- *The **cTTO office** is set up to act as a **collaborative venture**, between the Government through Enterprise Ireland, The Universities through the Irish Universities Association, and the wider industry in Ireland.*
- *Its success will contribute to Enterprise Ireland's overall mission of increasing economic prosperity in Ireland*

The purpose of the cTTO is to develop and act as the overall custodian of the National IP framework & to work closely with the individual Technology Transfer Offices of each Irish RPO

Objective of cTTO

- To provide **leadership for the TTO system in Ireland** and drive the adoption of best practice within the system.
- To ensure the delivery of **a consistent and predictable approach to IP** across all RPOs in order to make engagement with the public research system attractive to Industry,
- To **enhance industry interaction** and facilitate knowledge transfer.
- To **drive change and to ensure consistency** between different elements of the TT system - **Maintain standard documents, definitions, criteria, terms, and templates**; in particular those associated with further developing the National IP Management Requirements and standard terms associated with multi-party collaborations
- To Monitor and **Benchmark the performance** of individual RPOs in relation to their TT performance, and their operation of the national IP protocols.
- To work closely with these TTO's to **share best practice** and to ensure the consistent adoption and interpretation of National policy.
- It will **not act as a TT office itself** or become directly involved in the transfer of specific IP.

Calibre and standing of the cTTO appointed is critical to the success of the office.

- *Dr Allison Campbell OBE comes to this role following an outstanding leadership career in TT and with an exceptional mix of private and public sector experience.
She was most recently Managing Director of Kings College London Business Ltd*

The cTTO office will be judged by it's impact in Ireland on:-

-Jobs, and the Economy.

-The productive engagement by Irish based industry with the research community will be a critical early measure of its success.

***NITT SK 2013 – Technology Transfer in
Slovakia and Abroad.***

Thank You!

Greg Treston
Oct 9th 2013