

# Transferring Technology Transfer

## Ramping Knowledge Transfer

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# Introduction

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- The National Context and Our Consortium
- Our Partners Needs
- How we do our job
- What works and what doesn't
- Examples of how it has worked so far
- The Future ...

# The Irish National Context

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- Technology Transfer Strengthening Initiative (TTSI) 1 and 2
  - State funded TT system hosted by the Universities.
  - Initiated in 2007-2012 (€30m) and renewed in 2013-2016 (€22m)
- National IP Protocol
  - Developed by a broad cross-section of stakeholders
  - Introduced in 2012 to cover the use of IP from state funded research
  - Bring clarity to all stakeholders as to who owns and how access is granted
- Department of Jobs and Innovation
  - Post downturn into recovery: emphasis on Impact through Job Creation.

# TTSI 1 to TTSI 2 to ...

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- TTSI 1 programme delivered through Enterprise Ireland was to build TT capacity and capability within the HEI sector
- TTSI 2 aims to develop of a fast, flexible response to industry's requests for access to intellectual property and give spin-out companies the best possible start.
  - Formation of regional clusters of RPO's sharing of resources, expertise and broadening capability
- Post TTSI 2 is currently being reviewed.

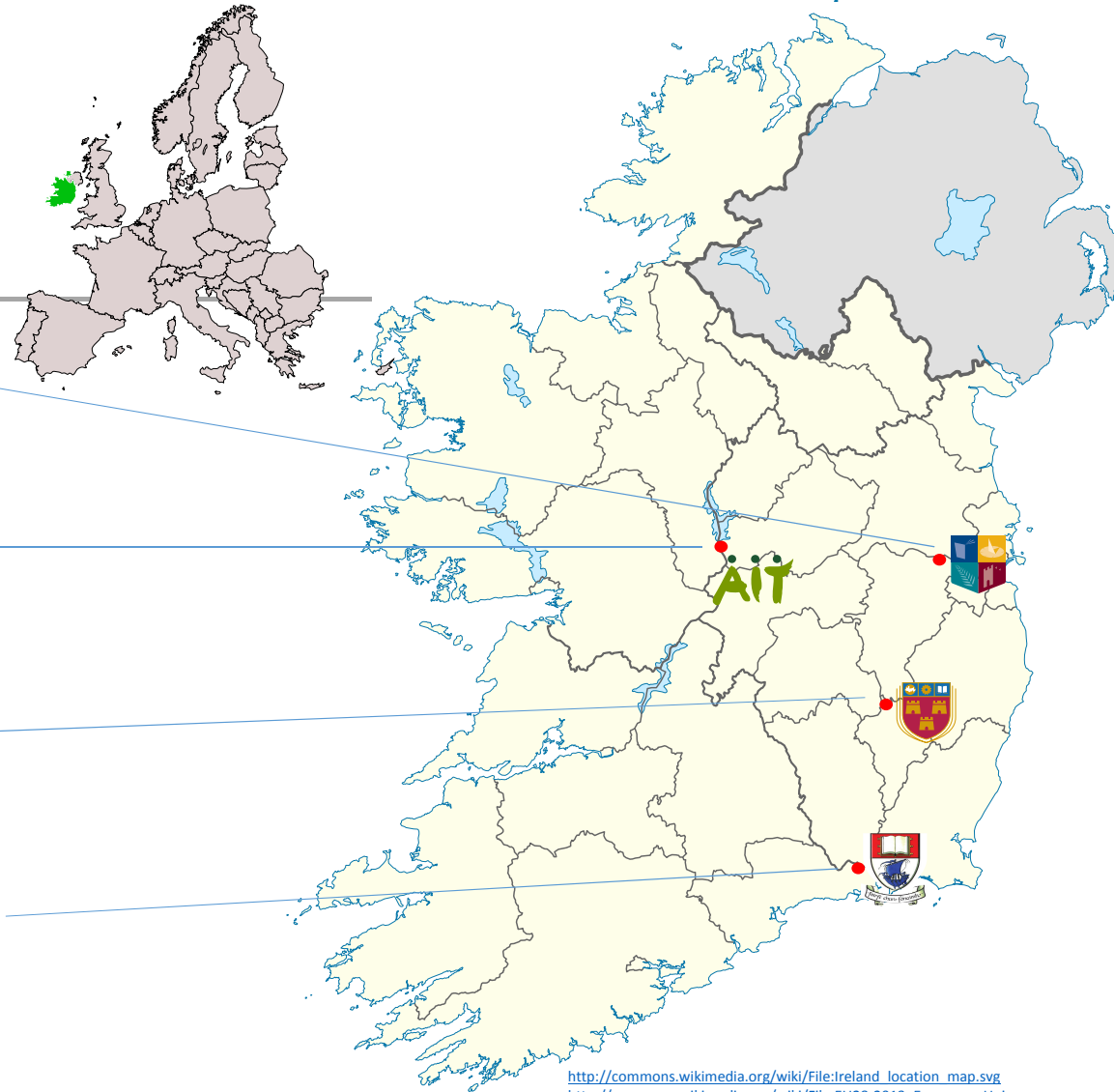
# Our Consortium

Maynooth University (lead)

Athlone Institute of Technology

Institute of Technology Carlow

Waterford Institute of Technology



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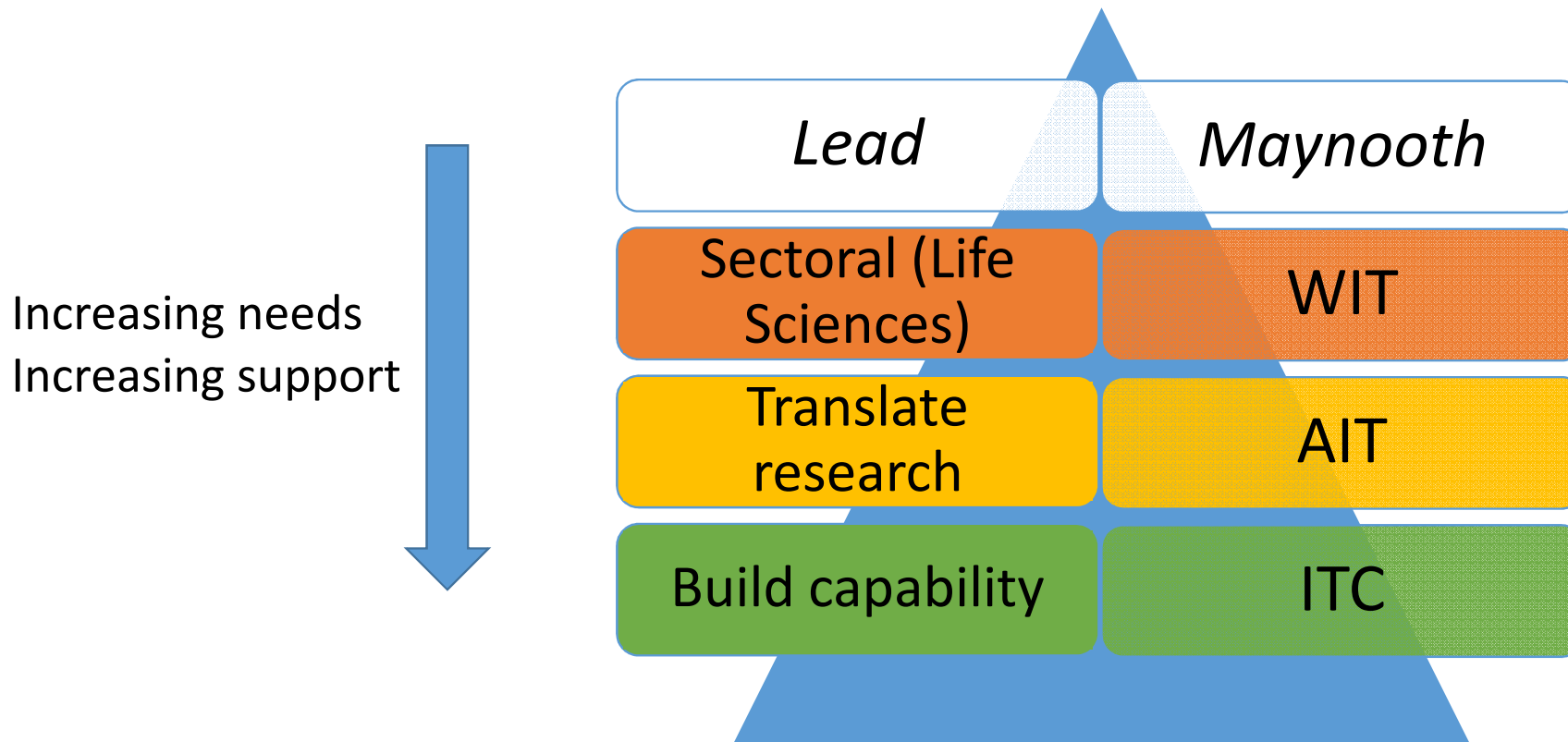


# Institute of Technology

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- Key focus on Teaching
  - Closely match the needs of local/national employers
- Staff employed to teach
  - Research could be seen as a hobby.
- “Research” responds to needs rather than driving innovation
  
- Change is happening
  - Focus on building research capability

# Hierarchy of Needs



# Roles and Responsibilities

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- Governed SLA developed through clear understanding of needs
  - WIT - 1 day pw
  - AIT – 2 days pw
  - ITC – 1.5 days pw
- Case managers assigned by institution not area of expertise
  - Expertise can be leveraged
- Constrained by absorptive capacity
  - Can't move too fast!



# Case Management Support - outbound

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- Defining the technology
- Shaping the Commercial Case
- IDF review
- Project strategy – start with clear goals
- Patenting Strategy
- Contract Negotiations
- Post-deal management
- Clinics, seminars delivered on site

# Find the "low hanging fruit"



# What Works ...

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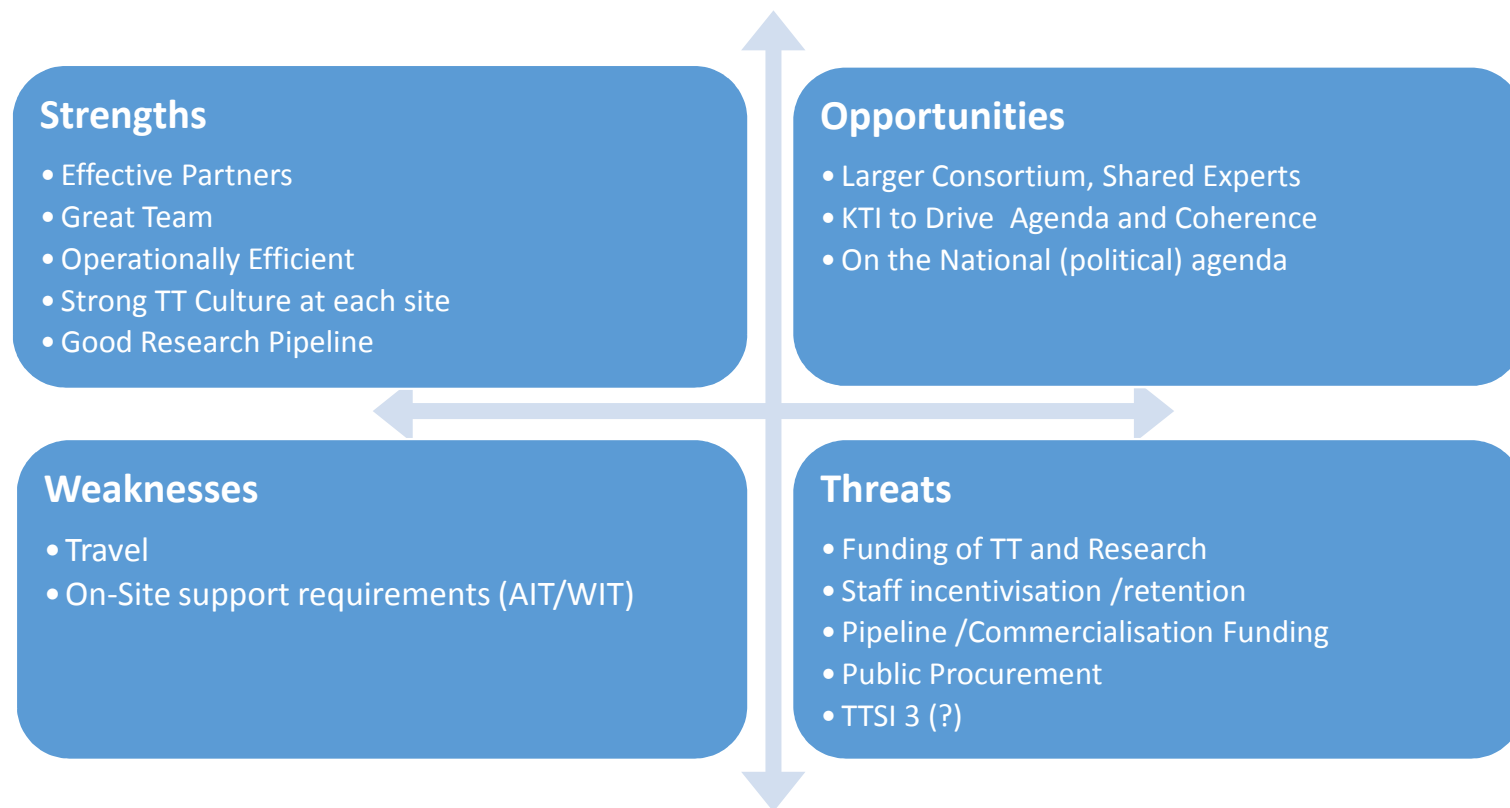
- Know your customer
  - What works for them?
  - Establish strong relationships
  - Know what makes the researchers successful; know what will make the business successful
  - Being an outside resource can be politically more honest
- Find project “sponsors”
- Be non-competitive
- Create a cluster of opportunities
  - Build capacity and capability
  - Create/Hire full time researchers

# ... and What Doesn't

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- Not agreeing up front what SLA should be
  - Learn from a long 'engagement'
- Driving TT only by reaching metric targets
- Driving a level of activity that can't be sustained
  - What is the absorptive capacity of the cluster members?
- Not carefully managing expectations

# SWOT – How we think we are performing



# Some Examples

# Example 1 – Medical Device (ITC)

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- Start-up needed innovative product design
  - ITC DesignCORE
  - Enhancement to existing Sleep Apnea devices (CPAP/BiPAP)
    - Added patient monitoring etc.
- What is actually required -> Design, electronics and software
- Construct Innovation Project that leverages existing skills
  - ITC Dean of Teaching Quality -> experience of developing and implementing Med Dev QMS
  - Plastics/materials available in AIT
- Key aim: “Learn how to deliver a med dev project”

# Example 2 – Establish Baseline (WIT)

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- Convergent Technologies Research Group (CTRG)
  - multi-disciplinary research cluster within the School of Engineering,
- Research activities include:
  - infrastructural technologies (water, energy and the environment),
  - materials development (polymer processing and super-critical fluid technologies)
  - passive and active medical devices (mock cardiovascular loops, catheter technologies and implantable platforms).
- Good at research funding but also good at missing commercial opportunities!
- Aim: Teach/Mentor all CTRG engineers to use patent searching and analysis to baseline all commercial research projects at inception.



# Example 3 – Near failure (ITC)

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- Proof of concept research project on how to deal with “dairy washings” from farms
  - Building swales inoculated with bacteria to clean the runoff.
- Project stalled because the researchers hit an engineering roadblock
- Aim: Serendipity. Know the researchers and their projects. Engage with them frequently for a “friendly chat”.
  - Discover “success” in project – overcome engineering problems to show POC at a small scale.

# The Future

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- Funding to 2016 but what happens next...?
- Consortium here to stay
  - May grow to incorporate more institutions
  - May take on specific sectoral expertise based on national priorities
- Funding model will change
  - Institutions will have to step up – 50:50 or 70:30 funding proposed
  - System must be more self sustaining (not necessarily profitable!)

# Thank you

Any Questions?



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