

# Sensor Systems Technology Innovation Centre

Electronics, Sensors, Photonics

Knowledge Transfer Network

ESP-KTN

Carlos Huggins

# Overview

- The ESP-KTN
- The Sensor Systems TIC
- Some people you don't normally meet..

# KTN Portfolio

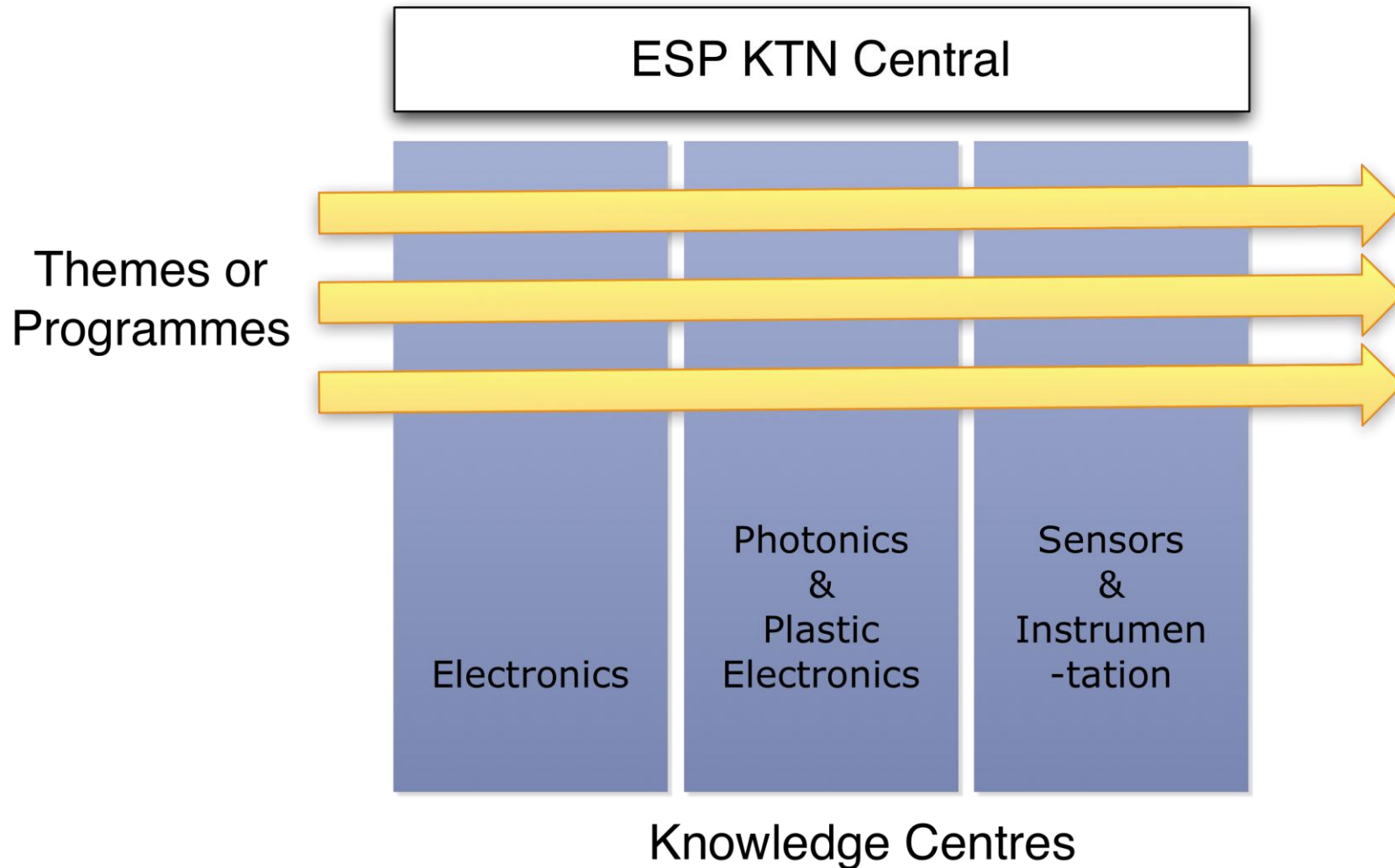
Technology Strategy Board  
Driving Innovation

Research Councils

<b>Aerospace &amp; Defence</b>	<b>Biosciences</b>	<b>Chemistry Innovation</b>	<b>Creative Industries</b>
<b>Energy Generation and Supply</b>	<b>Electronics, Sensors, Photonics</b>	<b>Environmental Sustainability</b>	<b>Financial Services</b>
<b>HealthTech and Medicines</b>	<b>ICT</b>	<b>Industrial Mathematics</b>	<b>Materials</b>
<b>Modern Built Environment</b>	<b>Nanotech</b>	<b>Transport</b>	

Commerce/ public good

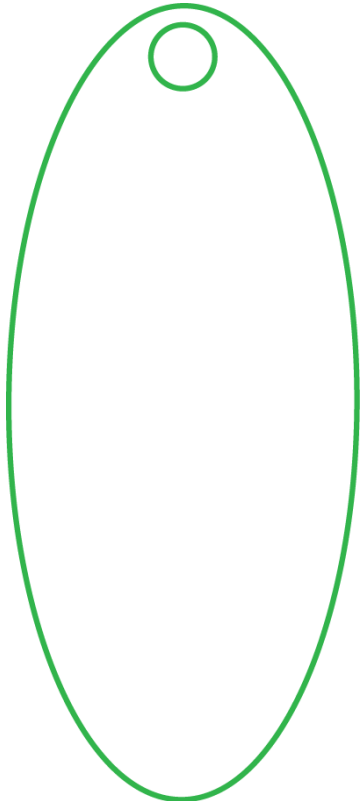
# Electronics, Sensors, Photonics KTN



# Challenges



Quality of Life Technologies



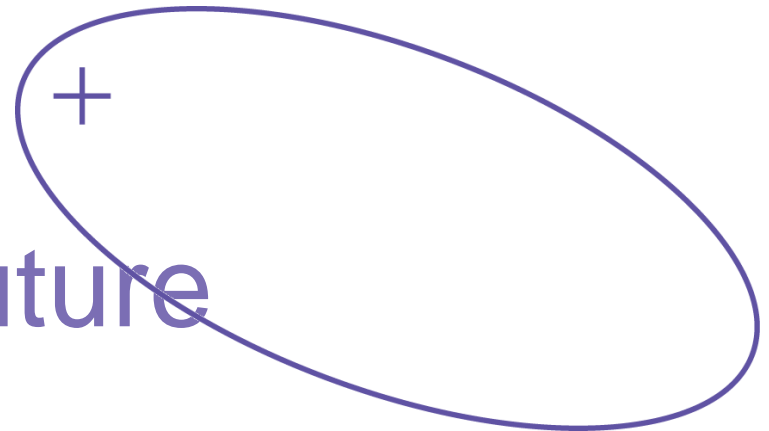
# Challenges



Secure World



# Challenges



Electricity For the Future

# Challenges

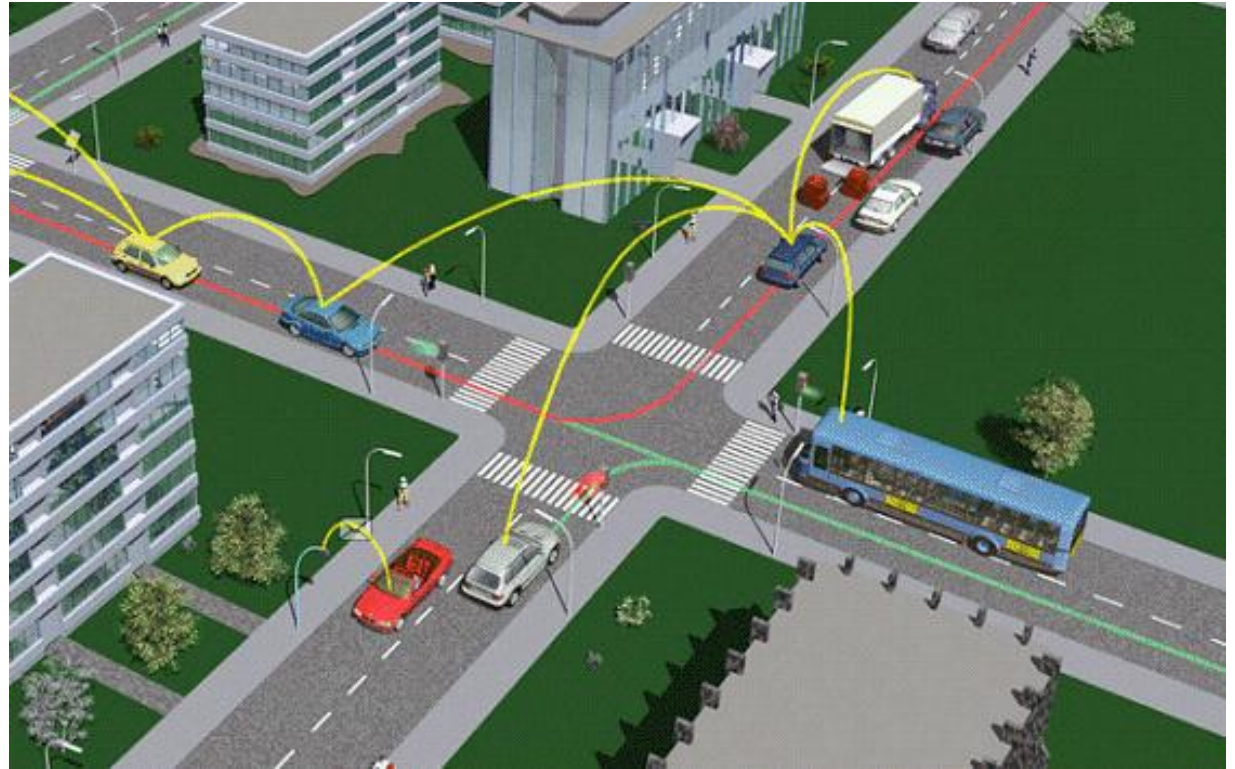


Connected World

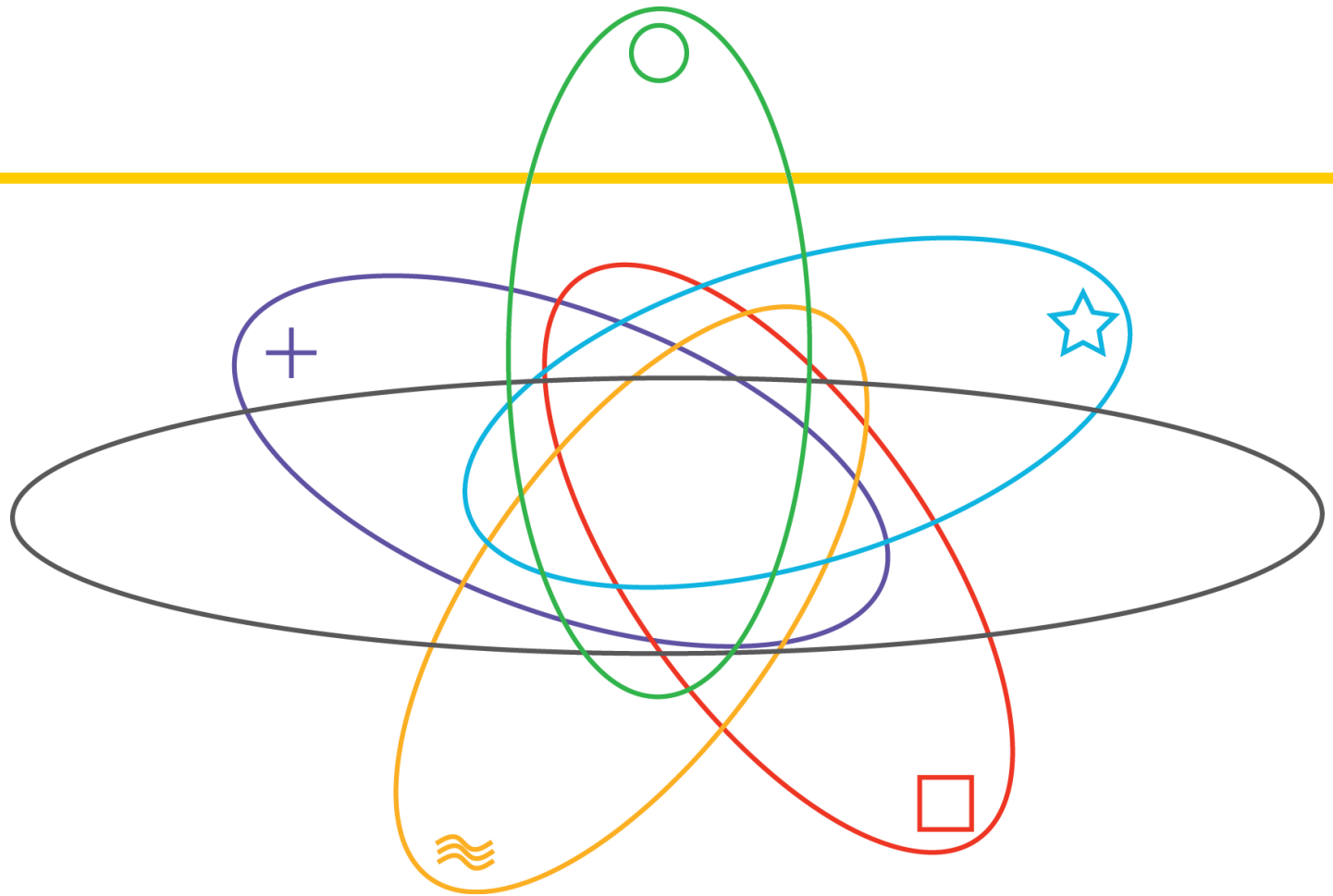




# Challenges



## Smart Moves



Networking – We bring together people  
who don't usually meet

**\_connect**

**[www.espktn.org](http://www.espktn.org)**

# The Sensor Systems Technology Innovation Centre

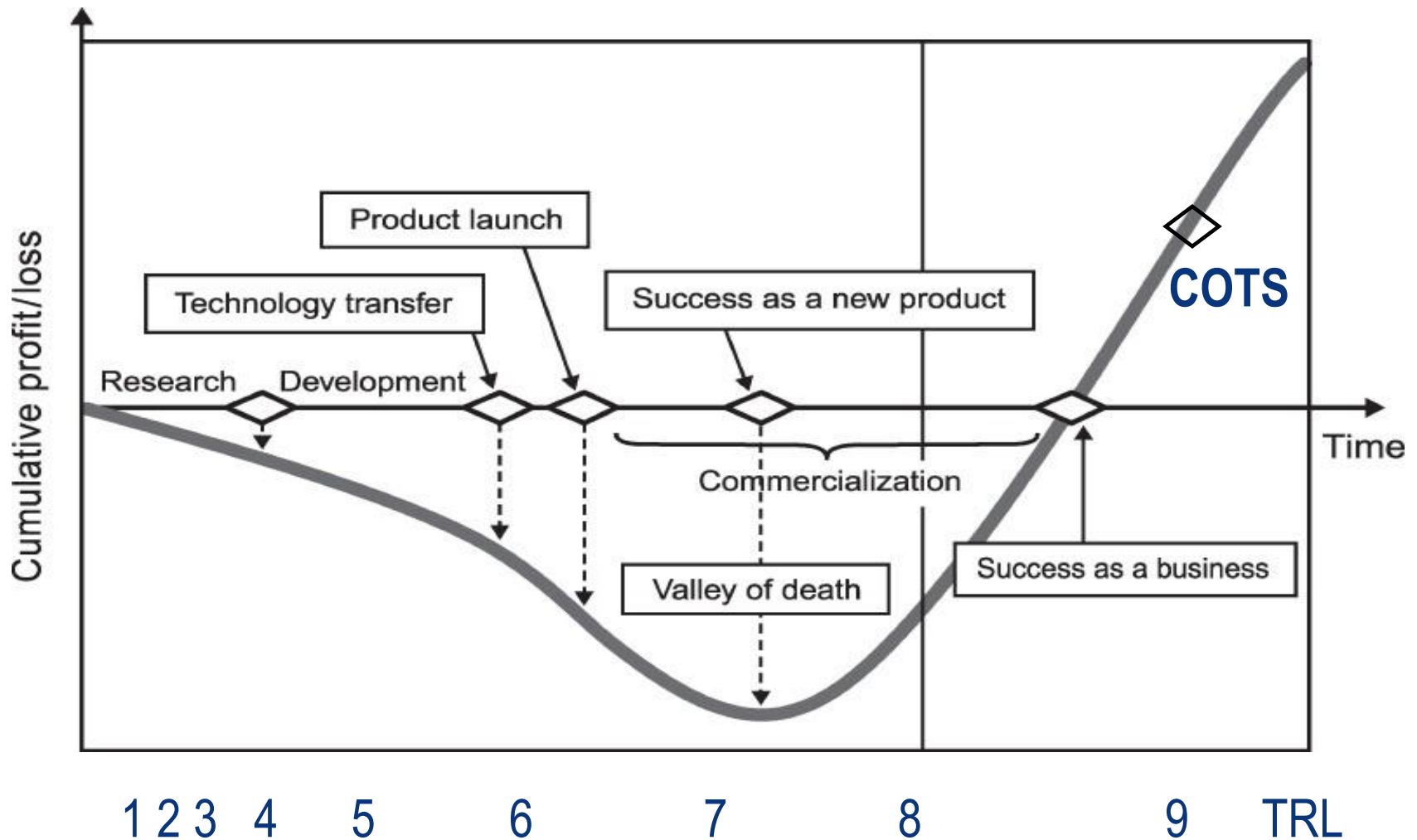
The Current and Future Role  
of Technology and Innovation  
Centres in the UK

A Report by Dr. Hermann Hauser

**For Lord Mandelson**

Secretary of State  
Department for Business Innovation & Skills

# The problem....

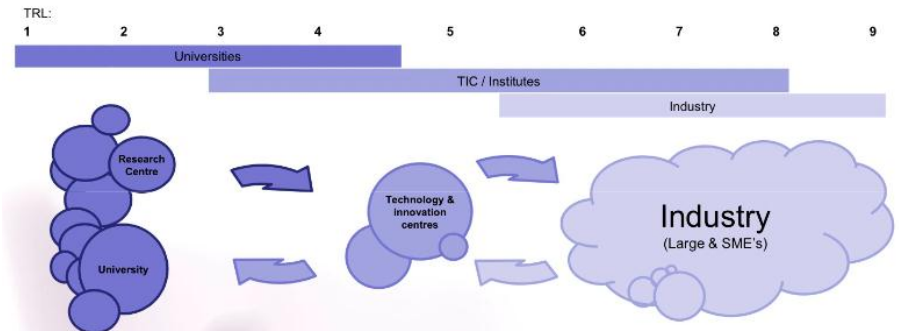


# The TIC vision

- Market-focussed, business-led centre for TRL 4-7 innovation and commercialisation
- Total funding £15m-£30m pa
  - Core funding (TSB) 1/3
  - Industry 1/3,
  - Attract external funding 1/3
- 3 in process
- 10 candidate sectors, of which Sensor Systems is one
  - Launch [Autumn 2012]

## Technology Strategy Board Driving Innovation

### Technology and innovation centres



Map the landscape from Research through to Challenge Areas for each key technology & application areas:

Research excellence	Research Centres	Technology & Innovation Centres	RTOs PSREs etc	Industrial R&D Centres	Industry Commitment	UK Priorities e.g.
RCUK to identify	RCUK, charity & other centres and institutes (IMRC's IKC's EIT's etc)	RDA/DA centres, etc. - Existing - Proposed - Potential	Various organisations in the area covering from TRL 3-8.	Major R&D centres & incubators	- Opportunities for UK - Willingness to co-invest	- Low Carbon - Digital Economy - Energy - Health/Medicine

# The consultation so far

- Online survey, face to face at a community event, direct one to one emails, comments on \_connect etc.
- Interim report and one-size-fits all Strawman
- <https://ktn.innovateuk.org>

## *Interim Report on Sensor Systems Technology & Innovation Centre Making a Case*



On behalf of  
Technology Strategy Board  
Driving Innovation

## *Interim Report on Photonics Technology Innovation Centre Consultation Workshop*



On behalf of  
Technology Strategy Board  
Driving Innovation

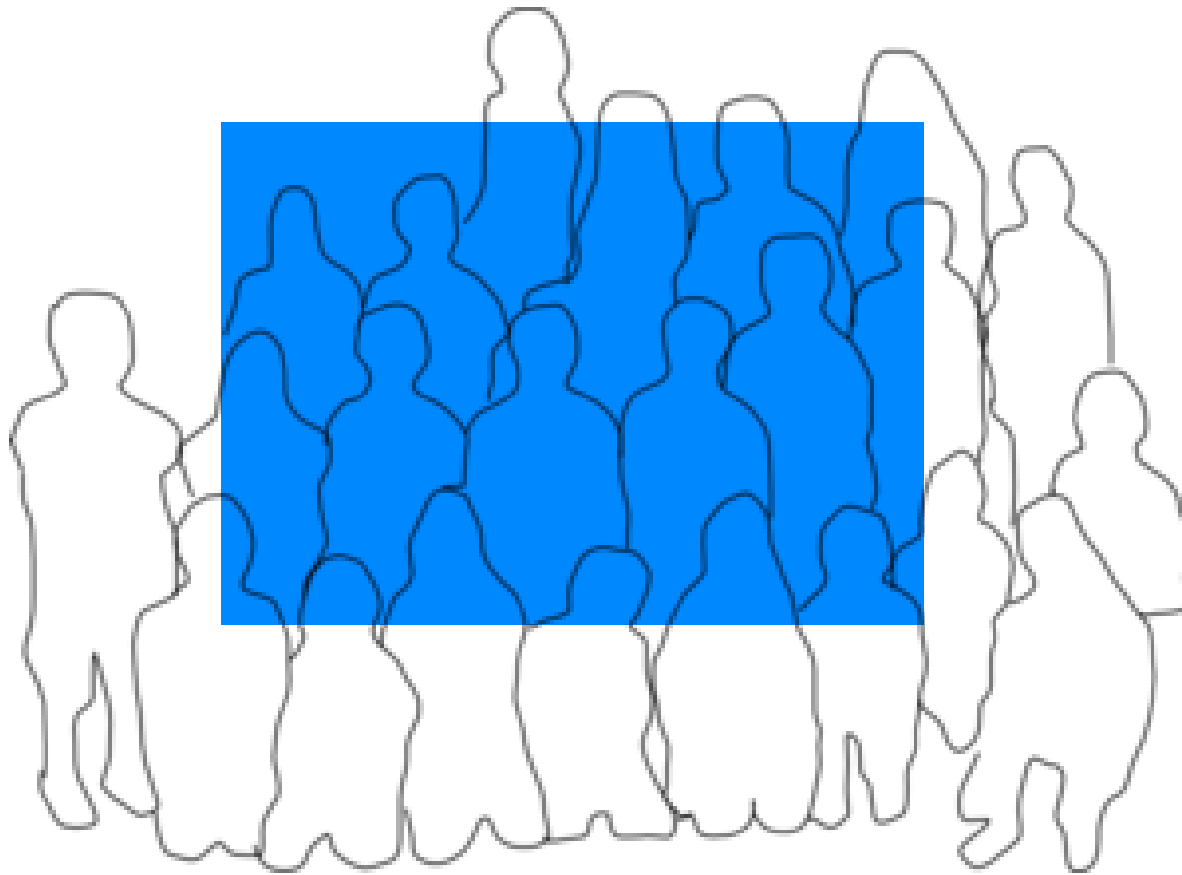


# Current status

- Consultation about to close.
- TSB will probably announce shortened list within 1 month
- If you have not engaged, speak now
  - Opportunities
  - UK capabilities
  - Gaps
  - The role of a TIC and impact



# People you don't usually meet....



# Mapping the Underworld project

- EPSRC/industry funded
- 1m holes pa in UK roads
- £1.7bn direct excess cost to UK
- **How to find and map them?**



- EPSRC/industry funded
- Condition-monitoring for large structures
- How to communicate on a building site or from 10m down in concrete?



# ESP KTN

- Brokering relationships
- Develop industry roadmaps
- Organise community events
- Events / workshops / seminars
- Support people exchange
- Conduct research, audit skills

# Forthcoming Events

➤ **KT seminars, Sensing World Exhibition**

27-28 September, 2011, NEC

➤ **34th Intelligent Sensing Programme**

15<sup>th</sup> November, 2011, Glasgow

# Questions?

Thank you

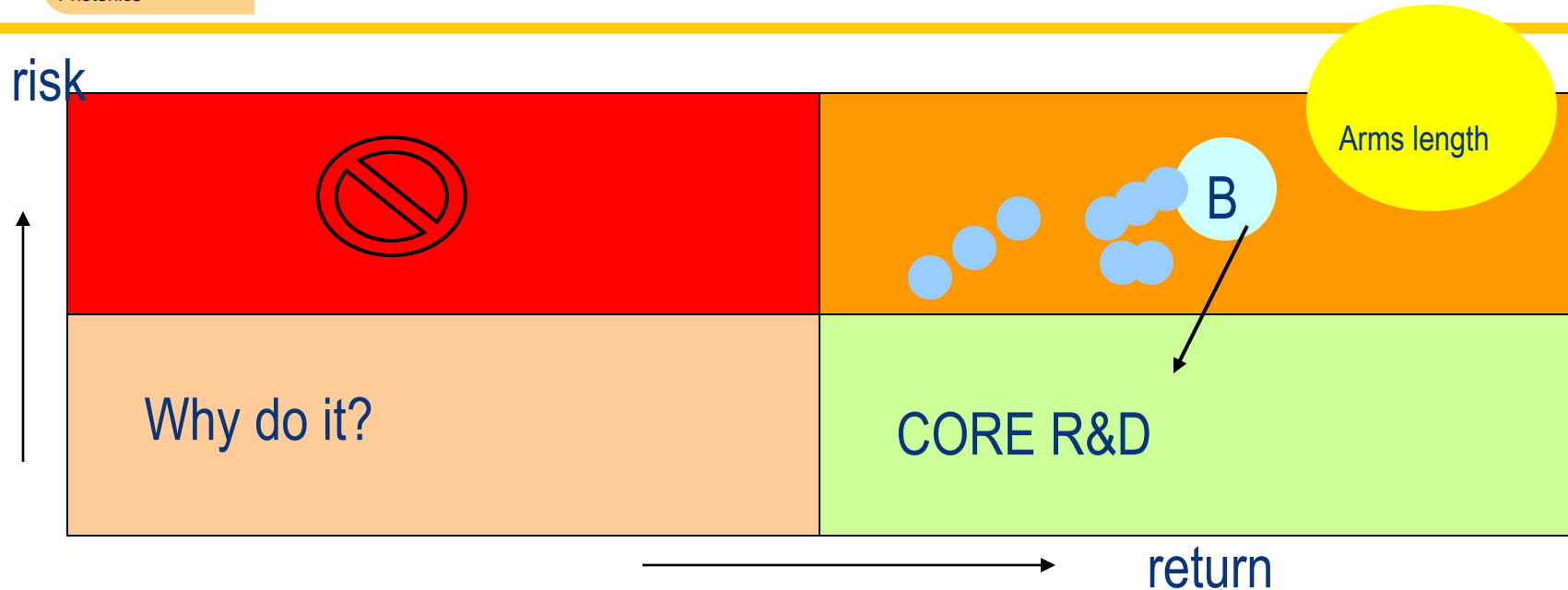
Carlos Huggins

ESP-KTN

[carlos.huggins@espktn.org](mailto:carlos.huggins@espktn.org)

[www.espktn.org](http://www.espktn.org)

# Viewpoint to challenge: a large company



- Key issue
  - How do we find hidden gold?
- Opportunities in zone B can be de-risked then fed into core R&D in [2-3] years