

**Technology Strategy Board**

Driving Innovation

# **Sustainable Agriculture & Food Innovation Platform**

**SCI**

**22nd March 2011**

**Calum Murray  
Lead Technologist**

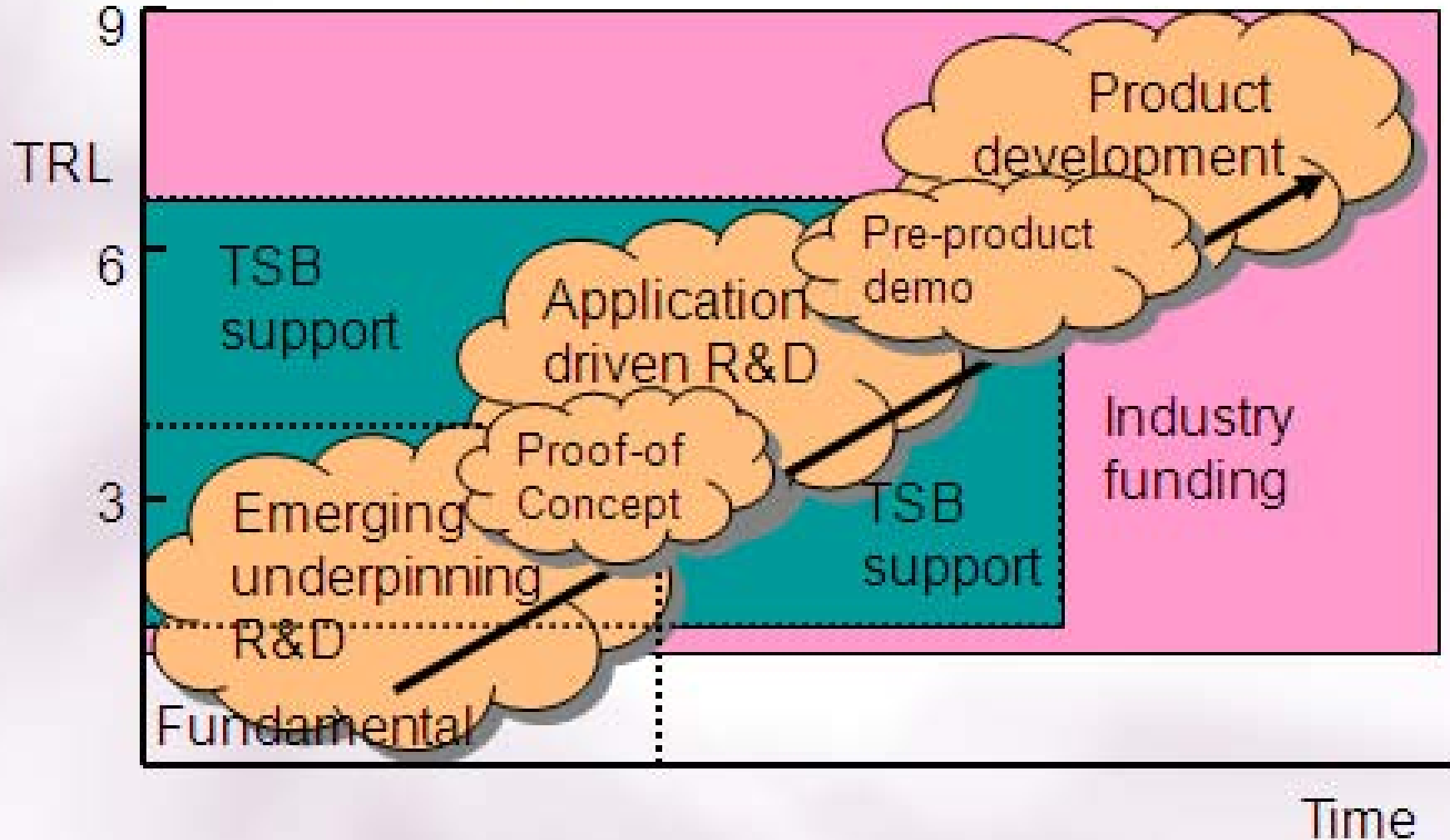


# TSB vision...

*for the UK to be a global leader in innovation and a magnet for innovative businesses, where technology is applied rapidly, effectively, and sustainably, to create wealth and enhance quality of life.*

***Partnership*** is key

# Continuity of Funding



## TSB Strategic Criteria

- **Does the UK have the capability?**
  - Significant research capability/capacity to exploit opportunities,
- **Is the idea “ready”?**
  - Clear opportunity to which this is a timely response.
  - Speed progress towards more sustainable economic growth.
- **Is there a large market opportunity?**
  - What is the size of the global market opportunity?
  - Will it create added value in the UK, taking into account the global market potential?
- **Can the Technology Strategy Board make a difference?**
  - Can we add value?
  - Will our investment promote sustainability and quality of life?

## **Key application areas**

**Environmental sustainability** Energy generation and supply  
Medicines and Healthcare Transport Creative industries  
High-value services Built environment

i n s p i r e

**Advanced materials Biosciences Nanotechnology**

**High value manufacturing**

**Electronics, photonics and electrical systems**

**Information and communication technologies**

**Key technology  
areas**

## Biosciences

### 3 technology priorities

- **Genomics**

- genomes are the “blueprint for life”

- **Industrial Biotechnology**

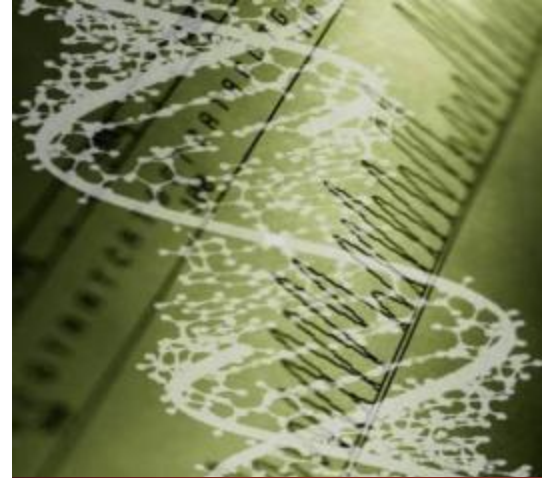
- energy, chemicals and materials

- **Agriculture and Food**

- increasing yield

All opened on 12<sup>th</sup> October 2010

*Now Closed to new Applications*



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..to support the development of innovative technologies, that will drive sustainable increases in the productivity of the UK Agri-food sector, whilst reducing it's environmental impact.



# Innovation Platform

- **A programme to assist UK businesses grow through the opportunities created by government action to address a societal challenge.**

**In situations where there is: -**

- **Technology as (part of) the solution**
- **An opportunity for UK business**



# The Challenge



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in partnership with



&



**Plus Scottish Government & AHDB**  
will deliver a £90+ million programme of investment  
over 5 years..



# The SAF IP is not responsible for UK 'Food security'

*however...*

**...it will act as a catalyst for the delivery of technological innovation that enables UK business to profit from being part of the solution.**



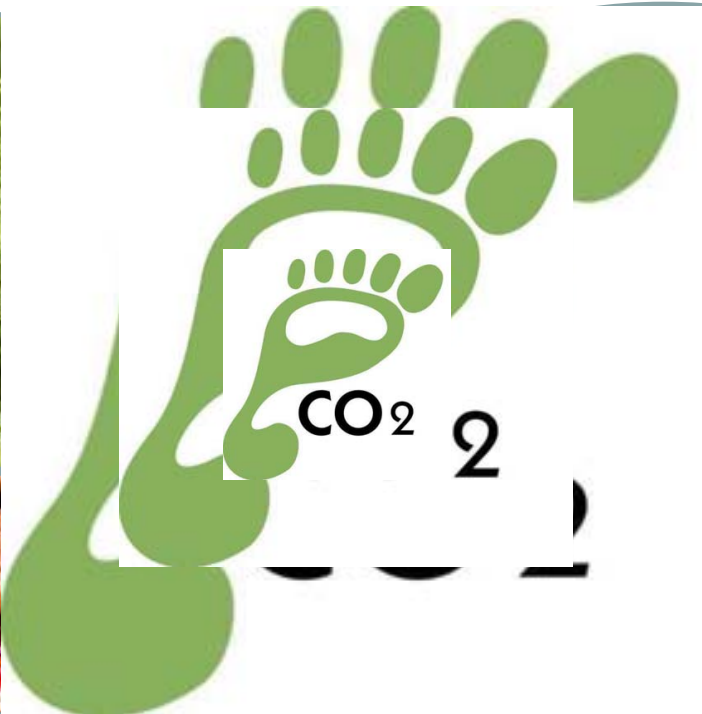
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Crop Productivity



Livestock Productivity



Waste Reduction



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## 1<sup>st</sup> Call - New Approaches to Crop Protection (2010)

100 initial expressions of interest,

32 projects out of 58 full stage applications funded

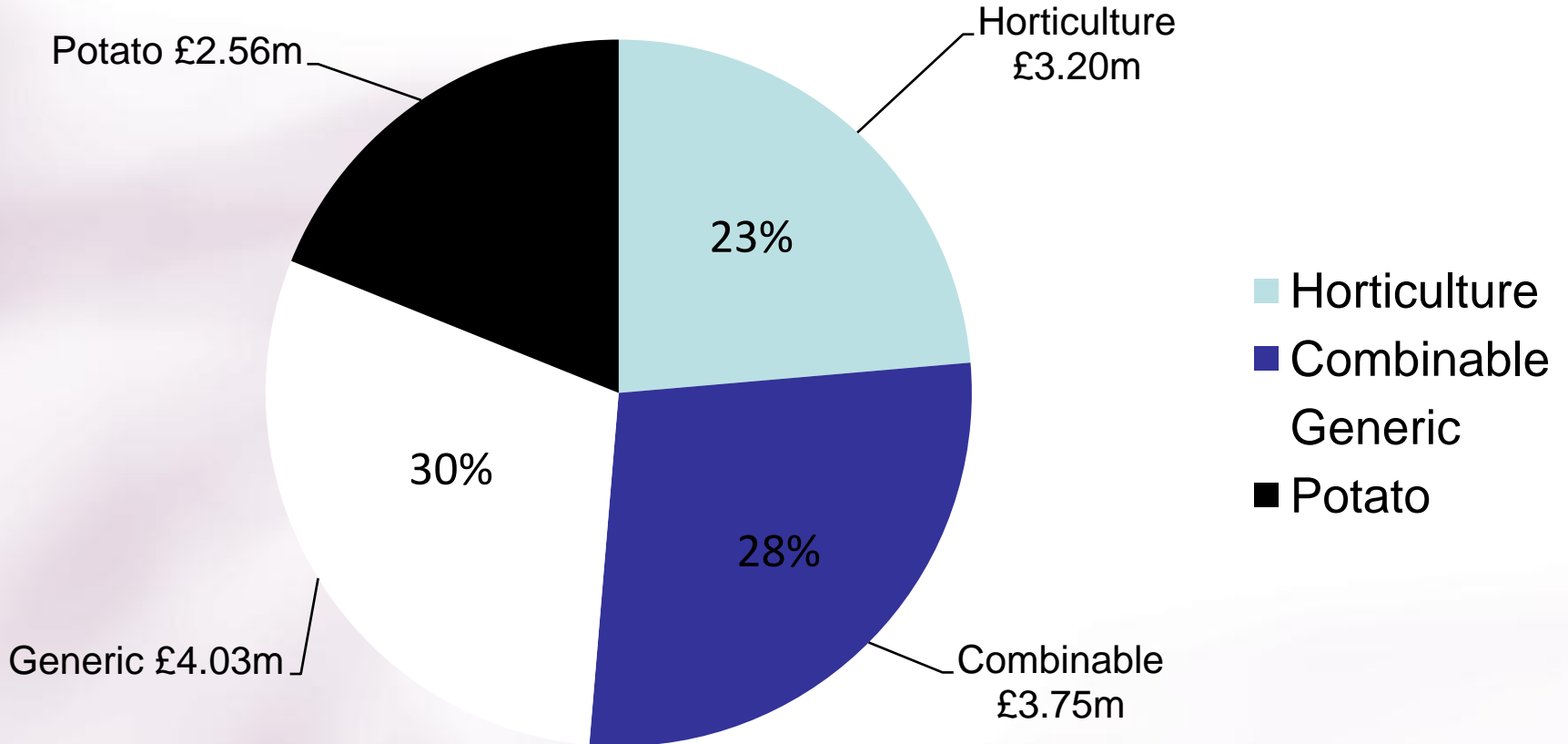
£13.5 million grant awarded (*£26million total project value*)

- *£6.6m from TSB*
- *£3.5m from Defra*
- *£2.5m from BBSRC*
- *£750K from Scottish Govt*
- *£150K from AHDB*

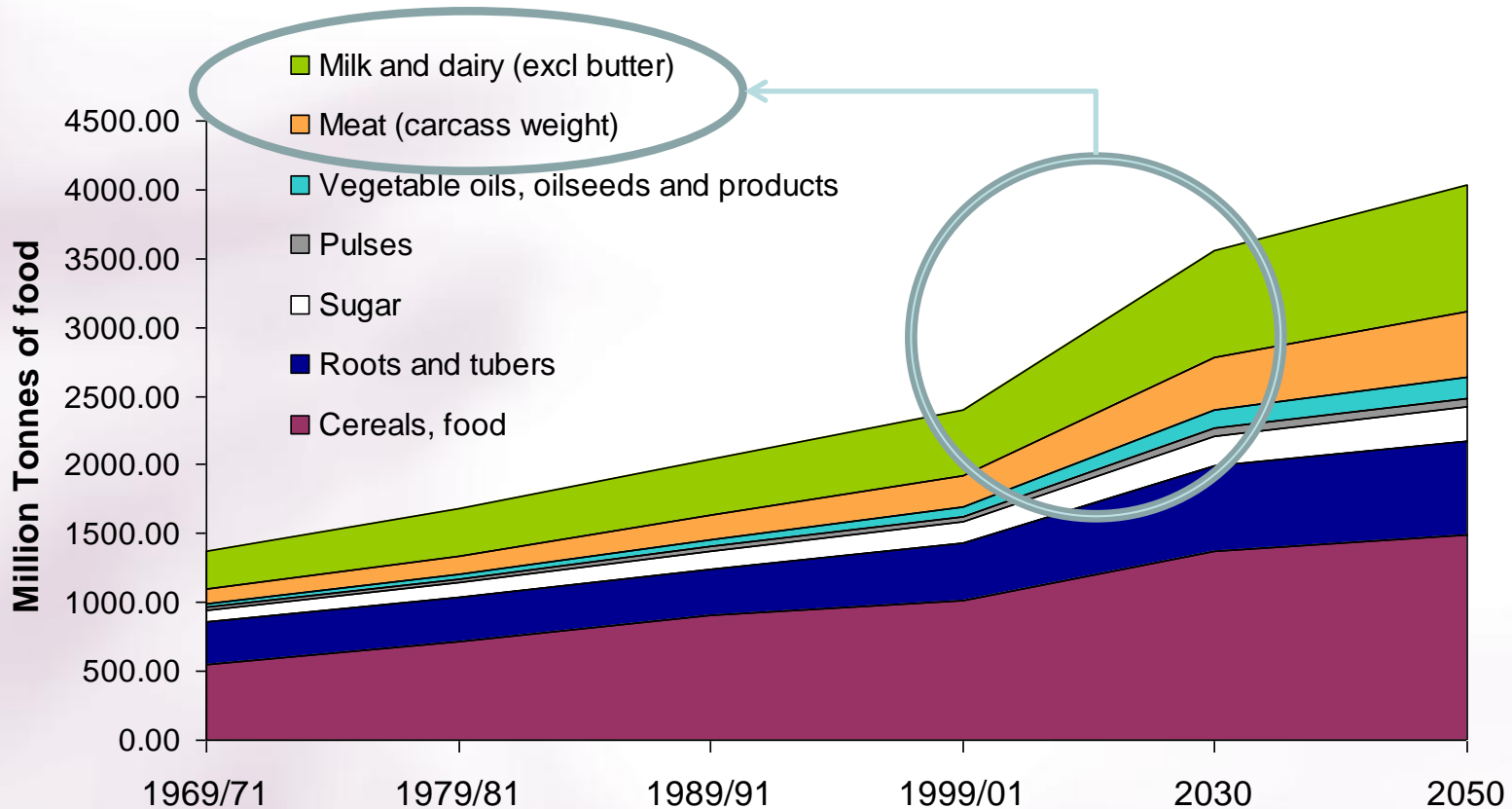


## Statistics

### Grant Invested £Million



## Increasing Global Demand For Food



World food production must rise by **50 % by 2030** to meet increasing demand and by **75% by 2050**

(Source: UN 2008)



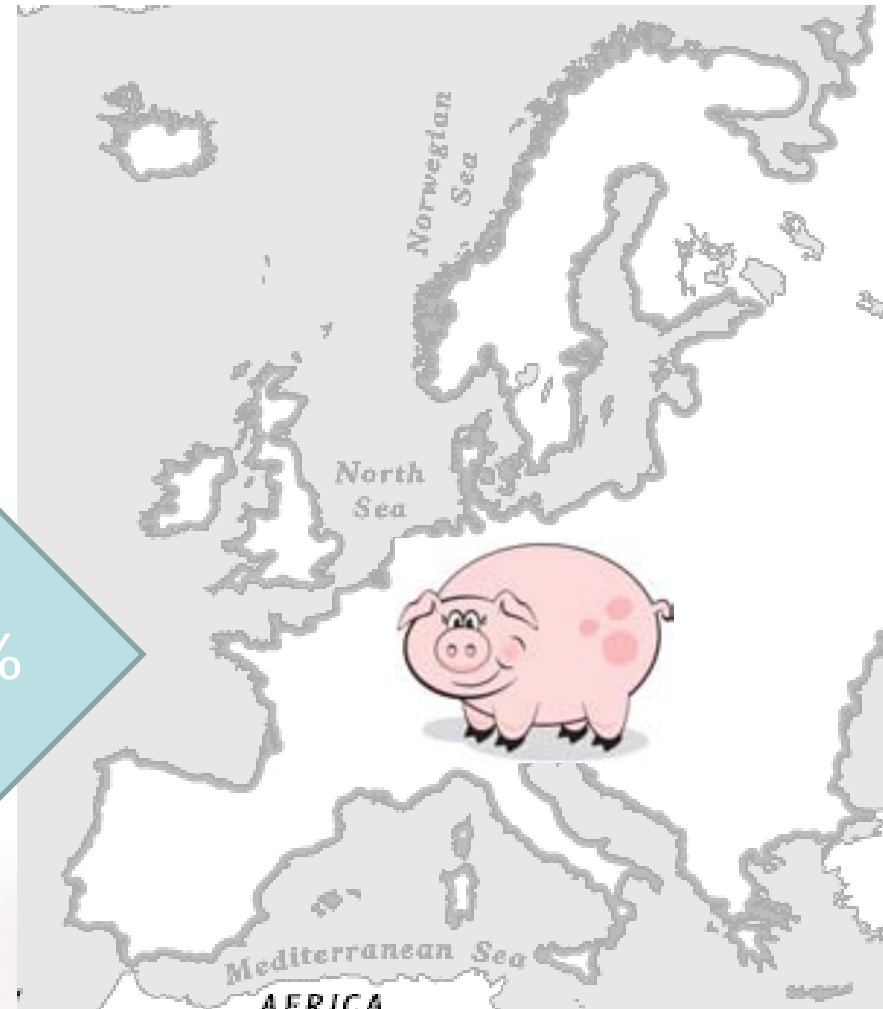
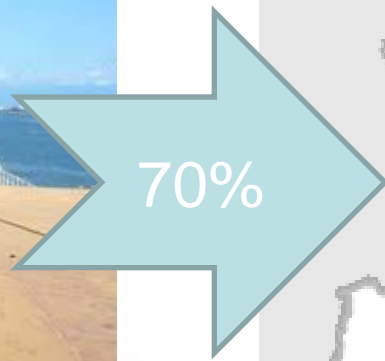
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driving a massive increase in demand for vegetable protein

**Europe is currently  
circa 30% self sufficient in vegetable protein**



The next Collaborative R&D call will have two core themes

Increasing Vegetable Protein Production

&

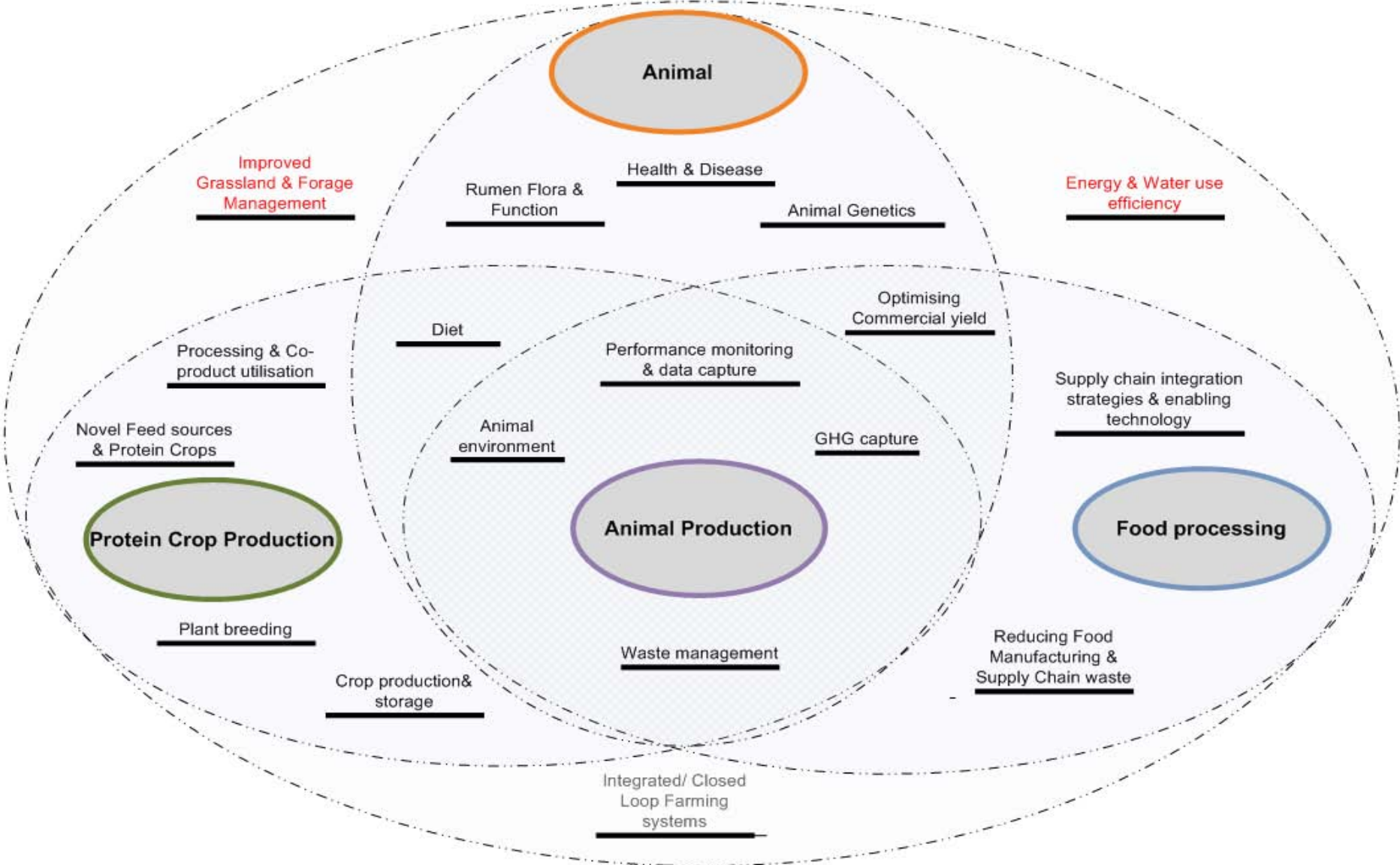
Increasing the efficiency of Livestock systems  
Including Aquaculture



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Outline for potential 2<sup>nd</sup> Call – Sustainable Protein production



## Application Structure

The Application is broken down into 4 marked sections:

<b>Gateway: Scope</b> <ul style="list-style-type: none"><li>• Does the project fit the competition call?</li></ul>	<b>Section One: Business Proposition</b> <ul style="list-style-type: none"><li>• What is the business proposition that the applicants are trying to address and exploit?</li></ul>
<b>Section Two: Project &amp; Partners Details :</b> <ul style="list-style-type: none"><li>• What will the project entail?</li><li>• Who are the project participants and what are their credentials?</li></ul>	<b>Section Three: Value Add</b> <ul style="list-style-type: none"><li>• Is the project value for money?</li><li>• Why should the Technology Strategy Board invest?</li></ul>

# Gateway Review Process

Does the application pass the Scope Gateway question?



**No**



**Yes**



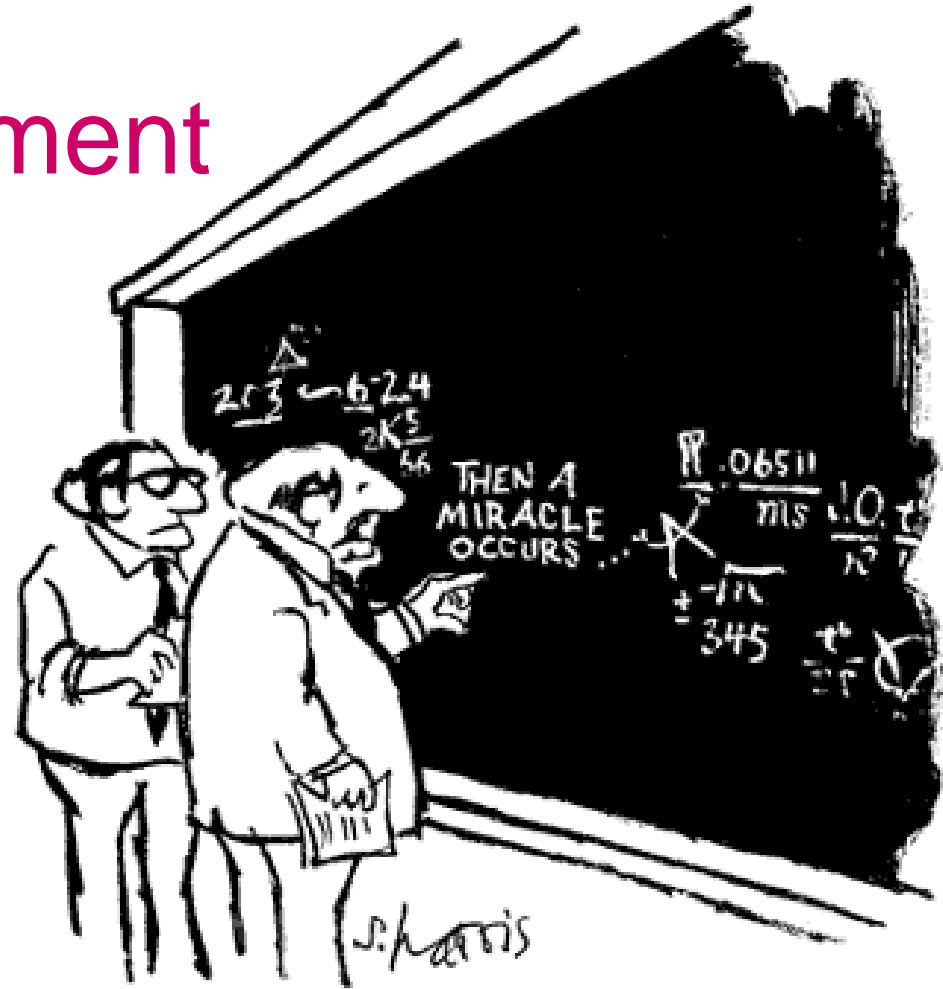
**Proceed to review process...**

## Application Assessment

All applications are assessed by independent reviewers drawn from industry and academia

What do they look for?

- **Clear and concise** answers
- **The right amount of information** – don't give too much detail or make assumptions
- **Quantification and justification**
- That **you're the right people** with the **right bright idea** and the **means to exploit** its potential



"I think you should be more explicit here in step two."

# What is Collaboration?

- For two partners - one must undertake at least 30% of the work (in terms of eligible cost).
- For more than two partners - any one partner cannot carry out more than 70% of the work (in terms of eligible costs).



### Sustainable Agriculture and Food Innovation Platform



### Connect and Catalyse A strategy for business innovation 2008-2011



### Sustainable Protein Production COMPETITION FOR COLLABORATIVE R&D FUNDING APRIL 2011





## To reiterate: Total Funding Limits

- 75% for Basic Research projects,
- 50% for Applied Research projects,
- 25% for Experimental Development projects.
- Business to Business projects(50%, 50%, 25%)
- Projects can span more than one type, calculate the grant on a **work package by work package** basis.

# The Collaboration Agreement

## Preparation

*Negotiating a Collaboration Agreement can be complex and time consuming. Applicants for Technology Strategy Board funding should therefore start work on this at an early stage in the process, ideally before submitting their full applications*

## Remember

- Projects will be assessed based on the strength of their **business proposition**
- **And** their value for money

## Key Dates –

### **SAF IP Protein Call**

**Q: When do I need to submit my Eol application by?**

**A: Opens 4<sup>th</sup> April 2011**

**A : Closes 11<sup>th</sup> may 2011**

**Q: Then what?**

**A: Full-stage opens (by invitation)**

### **Bioscience Area – Nutrition for Life**

**Opens 9<sup>th</sup> May 2011**

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# Where to go for help...

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

[competitions@tsb.gov.uk](mailto:competitions@tsb.gov.uk)

**Competition Helpline: 0300 321 4357**

**Technology Strategy Board**

01793 442700



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## Sustainable Agriculture & Food Innovation Platform

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