Roadmap for the environmental sustainability of the English Pig Industry

What problems / opportunities does the component solve / respond to?

• The industry has been in decline since the late 1990’s
  • Low financial returns
  • High levels of disease.
  • Old infrastructure
  • Concentration of processing capacity
• High proportion of imports
• Demands from the market place for high welfare production
• Demands from Market and government for lower carbon products
• Pressure to comply with environmental legislation
  • Lower emissions
  • Encroachment by the Urban population
• Restoration and development of overseas markets
• Improve the perception of the public/consumers of the industry
• To produce high quality and safe meat protein and other products which provide a high level of consumer satisfaction.
Develop a sustainable industry, environmental, economic & social
What are the components proposed solutions to the problems / opportunities?

- Research projects
  - New knowledge
  - Develop understanding of issues
  - Knowledge transfer
- Programmes to improve farm performance
  - Physical – target KPI’s
    - Two Tonne Sow, Breed+3, Going for growth
  - Health – disease management
  - Welfare – Real Welfare Indicators
  - Technical knowledge transfer
- Stakeholder involvement with process development
  - Inward/outward partnerships
- Education and marketing
  - Includes responsible consumption
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Who are the component’s clients, and how will the component market / ‘sell’ its services/products to them?

- Producers and allied industries – focus on benefits to business
  - Economic
  - Management
  - Legislation
  - Resilience
  - Integrate into and capitalise on other initiatives/activities – NOT A DISCREET WORKSTREAM

- Government, policy makers and regulators
  - Engagement and participation
  - Being at the forefront – proactive not reactive
  - Solutions not problems

- Supported by levy and stakeholder contributions
What is the component’s added-value?

- Long term sustainability of sector.
- Demonstrate progress

### Chart 1: Comparison of 2008 to 2012 results (per kg of pork)

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Climate change</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>kg CO₂-eq</td>
<td>6.18</td>
<td>5.93</td>
<td>5.88</td>
<td>4.55</td>
<td>4.55</td>
<td>26.3%</td>
</tr>
<tr>
<td>% change p.a.</td>
<td></td>
<td>4.0%</td>
<td>0.9%</td>
<td>22.6%</td>
<td>0.0%</td>
<td></td>
</tr>
<tr>
<td>Eutrophication</td>
<td>0.072</td>
<td>0.069</td>
<td>0.068</td>
<td>0.063</td>
<td>0.059</td>
<td>13.2%</td>
</tr>
<tr>
<td>kg PO₄-eq</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% change p.a.</td>
<td>3.6%</td>
<td>1.8%</td>
<td>7.3%</td>
<td>1.0%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acidification</td>
<td>0.207</td>
<td>0.201</td>
<td>0.198</td>
<td>0.191</td>
<td>0.187</td>
<td>9.4%</td>
</tr>
<tr>
<td>kg SO₂-eq</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% change p.a.</td>
<td>2.7%</td>
<td>1.5%</td>
<td>3.7%</td>
<td>1.8%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resource depletion</td>
<td>0.0090</td>
<td>0.0086</td>
<td>0.0085</td>
<td>0.0083</td>
<td>0.0083</td>
<td>8.3%</td>
</tr>
<tr>
<td>% change p.a.</td>
<td>4.4%</td>
<td>1.5%</td>
<td>2.6%</td>
<td>0.0%</td>
<td></td>
<td></td>
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</tbody>
</table>
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- Impact of components

**Chart 9: Contribution of key contributors to climate change**

<table>
<thead>
<tr>
<th>Contribution of key contributors to climate change (kg CO₂eq per kg of pork)</th>
<th>Pig feed</th>
<th>Pig housing</th>
<th>Electricity</th>
<th>Slurry/Manure</th>
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<tbody>
<tr>
<td>2008 average</td>
<td>0.0</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
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<tr>
<td>2012 average</td>
<td>2.0</td>
<td>1.0</td>
<td>0.5</td>
<td>0.5</td>
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</table>
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What is the component’s added-value?
- Long term sustainability of sector.
- Demonstrate progress

Chart 3: Comparison of 2008, 2012 and 2020 results – per kg of pork

<table>
<thead>
<tr>
<th>Impact category</th>
<th>Unit</th>
<th>2008</th>
<th>2012</th>
<th>2020</th>
<th>% improvement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Climate change</td>
<td>kg CO₂-eq</td>
<td>6.18</td>
<td>4.55</td>
<td>4.12</td>
<td>33%</td>
</tr>
<tr>
<td>Eutrophication</td>
<td>kg PO₄-eq</td>
<td>0.072</td>
<td>0.062</td>
<td>0.059</td>
<td>18%</td>
</tr>
<tr>
<td>Acidification</td>
<td>kg SO₂-eq</td>
<td>0.207</td>
<td>0.187</td>
<td>0.180</td>
<td>13%</td>
</tr>
<tr>
<td>Resource depletion</td>
<td>kg Sb-eq</td>
<td>0.0090</td>
<td>0.0083</td>
<td>0.0074</td>
<td>19%</td>
</tr>
</tbody>
</table>

Source: ERM LCA
Roadmap for the environmental sustainability of the English Pig Industry

What are the component’s key activities?
- Adding value from existing projects/activities
- Communication
- Identifying gaps and addressing these
- Integration of sectors activities into wider context and agricultural industry as a whole

What are the component’s estimated capital and resource requirements?
- Funded by levy
  - Component approx. €150pa
  - Added cost/manpower of supporting duplication? Good will contribution

- THANK YOU