Animal Health Ireland

Animal information systems that raise Beef farm profitability by improving herd and animal health

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ICAR 2012
Presentation outline

1. Background to AHI
2. Animal health and profitability
3. Harnessing the ICBF database
4. Some reflections
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1. Background to AHI
Some basic facts

- Official launch, January 2009
- Incorporation as Company, May 2009
- Not for profit
- Budget ~ €1 million / annum
- Public-private partnership (50:50)
- 7 Directors; 6 staff; 32 members
Stakeholder map

- Irish Cattle and Sheep Farmers’ Association (ICSA)
- Irish Charolais Cattle Society
- Irish Co-Operative Organisation Society (ICOS)
- Irish Creamery Milk Suppliers’ Association (ICMSA)
- Irish Farmers’ Association (IFA)
- Irish Holstein Friesian Association
- Macra na Feirme
- Pedigree Cattle Breeders’ Council of Ireland

- ABP Ireland
- Arrabawn Co-op
- Carbery Group
- Connacht Gold
- Dairygold
- Dawn Meats

- Glanbia
- Kepak Group
- Kerry Agribusiness
- Lakeland Dairies
- Tipperary Co-op
- Town of Monaghan Co-op
- Wexford Milk Producers

- Cork Marts
- DAFM - Veterinary Lab Services
- ICBF
- UCD
- Veterinary Ireland

- Bord Bia
- Department of Agriculture, Food and the Marine
- Teagasc
Remit

“...AHI is mandated to pursue effective control strategies for the important non-regulated diseases of livestock.”
Mission
(2012-2014 Strategy)

“Through superior animal health, to enhance value for cattle farmers and the agri-food industry.”
The AHI programme development process
A menu of options

<table>
<thead>
<tr>
<th>Diseases/Issues</th>
<th>Rank Order</th>
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<tbody>
<tr>
<td></td>
<td>Delphi</td>
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<tr>
<td>Infertility</td>
<td>1</td>
</tr>
<tr>
<td>Udder health/milk quality</td>
<td>2</td>
</tr>
<tr>
<td>BVD</td>
<td>3</td>
</tr>
<tr>
<td>Lameness</td>
<td>4</td>
</tr>
<tr>
<td>Diseases of young calves</td>
<td>5</td>
</tr>
<tr>
<td>Weanling pneumonia</td>
<td>6</td>
</tr>
<tr>
<td>Johne’s disease</td>
<td>7</td>
</tr>
<tr>
<td>Parasitic diseases</td>
<td></td>
</tr>
<tr>
<td>IBR</td>
<td></td>
</tr>
<tr>
<td>Salmonellosis</td>
<td></td>
</tr>
</tbody>
</table>

Table 1: Outputs of Delphi Study 2010
Strategic priorities (2012-14)

Priority work programmes

- BVD
- CellCheck (SCC)
- Johne’s disease
- IBR
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2. Animal health and profitability
Economics of BVD eradication

<table>
<thead>
<tr>
<th></th>
<th>Suckler</th>
<th>Dairy</th>
<th>Beef</th>
<th>Total</th>
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<tbody>
<tr>
<td>Losses €m</td>
<td>27</td>
<td>55</td>
<td>20</td>
<td>102</td>
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<tr>
<td>Eradication costs €m</td>
<td>6</td>
<td>4</td>
<td>-</td>
<td>10</td>
</tr>
<tr>
<td>Benefit:cost</td>
<td>5</td>
<td>14</td>
<td>-</td>
<td>10</td>
</tr>
<tr>
<td>Payback period (Years)</td>
<td>1.15</td>
<td>0.42</td>
<td>-</td>
<td>0.53</td>
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</tbody>
</table>

Table 3: Summary of estimated losses (€m); benefit: cost and payback periods
## Economics of SCC control

<table>
<thead>
<tr>
<th>SCC cells/ml</th>
<th>Net farm profit, €</th>
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<tbody>
<tr>
<td>&lt;100,000 cells/ml</td>
<td>31,252</td>
</tr>
<tr>
<td>100,001-200,000 cells/ml</td>
<td>26,771</td>
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<tr>
<td>200,001-300,000 cells/ml</td>
<td>19,661</td>
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<tr>
<td>300,001-400,000 cells/ml</td>
<td>16,936</td>
</tr>
<tr>
<td>&gt;400,000 cells/ml</td>
<td>11,748</td>
</tr>
</tbody>
</table>

Table 4: The inverse relationship between net farm profit and SCC
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3. Harnessing the ICBF database (The BVD programme)
BVD Eradication Programme - Flowchart

- Order tissue sample tags
- Tag calves and submit ear punch to lab
- Results
- ICBF database (Vet) Farmer
  - Positive
  - Negative
- Testing to remove further PIs
- Mart boards Sale declarations

Years 1-3
BVD Eradication Programme - Flowchart

Herds
9,465
Dairy : Beef
57% : 43%

Positive animals
2,236 (0.6%)
Herd prevalence
13.7%

Tags ordered
563,914
Samples tested
373,579
Negative
369,690

Years 1-3

Order tissue sample tags
Tag calves and submit ear punch to lab
ICBF database (Vet) Farmer
Positive
Negative
Testing to remove further PIs
Mart boards Sale declarations
BVD eradication programme - dataflows
BVD eradication Programme – ICBF role (1)

- Receipt of standardised laboratory test data
- Integration of test data with AIM data
- Issuing of text (SMS) message for all results
- Issuing of standard letters (positive, inconclusive, ‘no tissue’ results)
- Export of test data to marts via AHCS (DAFM system) for display
BVD eradication Programme – ICBF role (2)

- Weekly updates to Implementation Group
- Forward/backward tracing and notification
- Detailed programme evaluation data
- Individual herd reports
- Test lists for vets
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4. Reflections
ICBF / AHI partnership

- Extensive database (90% of breeding animals)
- Proven track record – trusted by industry
- Flexible, adaptive
- Cost-effective (use of existing resources)
ICBF / AHI partnership

- Convergence of sciences / technologies
- Synergy of organisational objectives
- Shared values - ‘Industry Good’ ethos