European Roadmap towards sustainable veal

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Dutch family business: VanDrie Group

- **World market leader** in veal, calf skins and calf feed
  - ± 2.250 employees and annual turnover ± € 2.2 billion

- **Chain production**
  - husbandries, basic dairy products, calf feed, slaughterhouses, calf skins, marketing & promotion

- **A unique integrated quality system:** **Safety Guard**
  - food safety, tracking & tracing, animal welfare, responsible use of antibiotics and environmental management

- **Our approach to sustainable veal via:**
  
  **our organisation**  **food safety**  **animal welfare**  **surroundings & environment**
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Safety Guard

Integrated approach

- one-liners  > container-compromises
- status     > continuous improvement
- efficiency/specialism
- recycling
- vealhusbandry + dairy husbandry
- sustainable intensification
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• Sounds good right? But what means it in practice?

Some examples:

1. Safety Guard – Feed+Food supplychain – Tracking & Tracing
2. One Health- antibiotic use
3. Protein/Energy/micro ingredients
4. Manure
5. Animal transport
6. Animal Welfare
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Safety Guard

On QACCP basis for ISO 22000, ISO 14000, Animal Welfare Requirements endorsed by Food Safety Supply Chain

Requirements

- feed
- husbandry
- slaughtering
- meat processing
- client

All details of the individual calf are traceable
- birth details
- consumed feed and its origin by ingredient
- transport data
- husbandry details
- processing data
- processed individual veal cuts
- purchasers
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Traceability

Challenges
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Traceability

Quality promotion
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Traceability

Productivity

[Image of a diagram showing meat cuts and data analysis]

[Logo: VanDrie Group]
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One Health Antibiotic use

**Challenges**

- **Bevolkingsdichtheid 2013**
  - per gemeente
  - aantal inwoners per km²
  - 26 - 250
  - 250 - 500
  - 500 - 1.000
  - 1.000 - 2.500
  - 2.500 - 6.179
  - provinces

17x10⁶
450/Km²

120 x10⁶
3000/Km²

40.000 Km²
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One Health Antibiotic use

Results

Figuur B1. Dierdagdoseringen van LEI WUR (DD/DJ gerapporteerd in MARAN) en SDA (DDA_after) vanaf 2007 voor de vleeskalversector.

The dosages for critical antibiotics like fluoroquinolones and 3rd-4th generation cephalosporines are reduced till negligible levels (see SDA-report 2014).
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#### Protein/energy/micro-ingredients

<table>
<thead>
<tr>
<th>Direct</th>
<th>Non Direct</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Macro-ingredients:</strong></td>
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<tr>
<td>Energy</td>
<td>Manure</td>
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<tr>
<td>Protein</td>
<td>Draught power</td>
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<td><strong>Micro-ingredients:</strong></td>
<td>Income</td>
</tr>
<tr>
<td>Vitamin A</td>
<td>Assurance</td>
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<tr>
<td>Vitamin B2</td>
<td></td>
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<tr>
<td>Vitamine B12</td>
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<td>Calcium</td>
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<td>Zinc</td>
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<td>Iron</td>
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Protein/energy/micro-ingredients

THE GREAT BALANCING ACT
The world must achieve a “great balancing act” in order to sustainably feed 9.6 billion people by 2050. Three needs must be met at the same time.

CLOSING THE FOOD GAP

69% Required increase in food calories to feed 9.6 billion people by 2050

SUPPORTING ECONOMIC DEVELOPMENT

28% Global population directly or indirectly employed by agriculture

REDUCING ENVIRONMENTAL IMPACT

24% Global greenhouse gas emissions from agriculture and land use change
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Protein/energy/micro-ingredients

It’s a bit of a challenge:

(Prod)use nutrients wisely
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Protein/energy/micro-ingredients

Arable land
Marginal land

Crop
Crop byproducts

Vegetable
Animal
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Manure

Similiarities
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Animal transport
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Animal welfare

Welfare is a status of the animal

Vealfarm circumstances

Housing
Feeding
Vealfarmer

Effect on veal
health
behaviour

WELFARE

cause

effect

Welfare scores

Profile 3
Profile 2
Profile 1

Feeding
Housing
Health
Behaviour
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Conclusion

- chain production with a strong focus on quality and innovation

- policy implemented in every little chain of the process

- stay open for development and growing demands of customers, clients and governments

- strive for a sustainable future, both for the society as the company
IF YOU ARE NOT PART OF THE SOLUTION, YOU ARE PART OF THE PROBLEM.