



BHSL Presentation Green Economy Investor Conference

Simple.ie Green Fund

Development History

2002 – 2007

Three Prototypes

University Collaboration

SEI Support

2008

FBC200 Heat Only
• Poultry
• Kinsale

Licence Status
Approved Ireland

2009

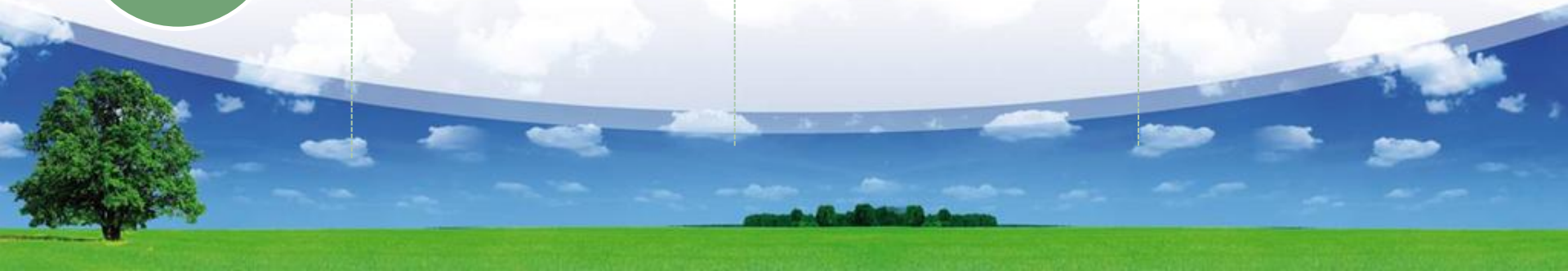
FBC500 Heat & Steam
• Mushroom
• Golden

Licence Status
Approved Ireland

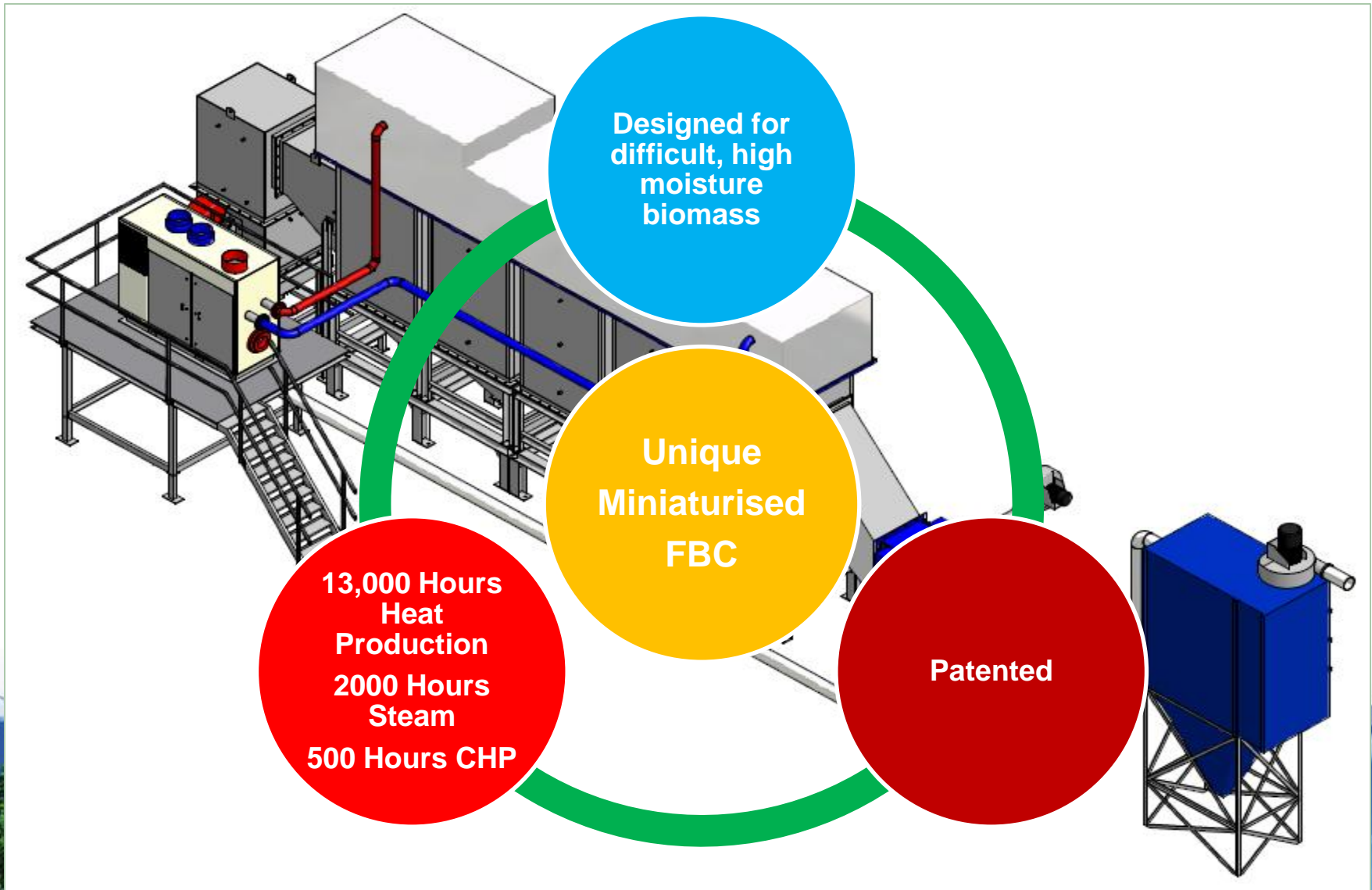
2010

FBC500 CHP
• Poultry
• For UK

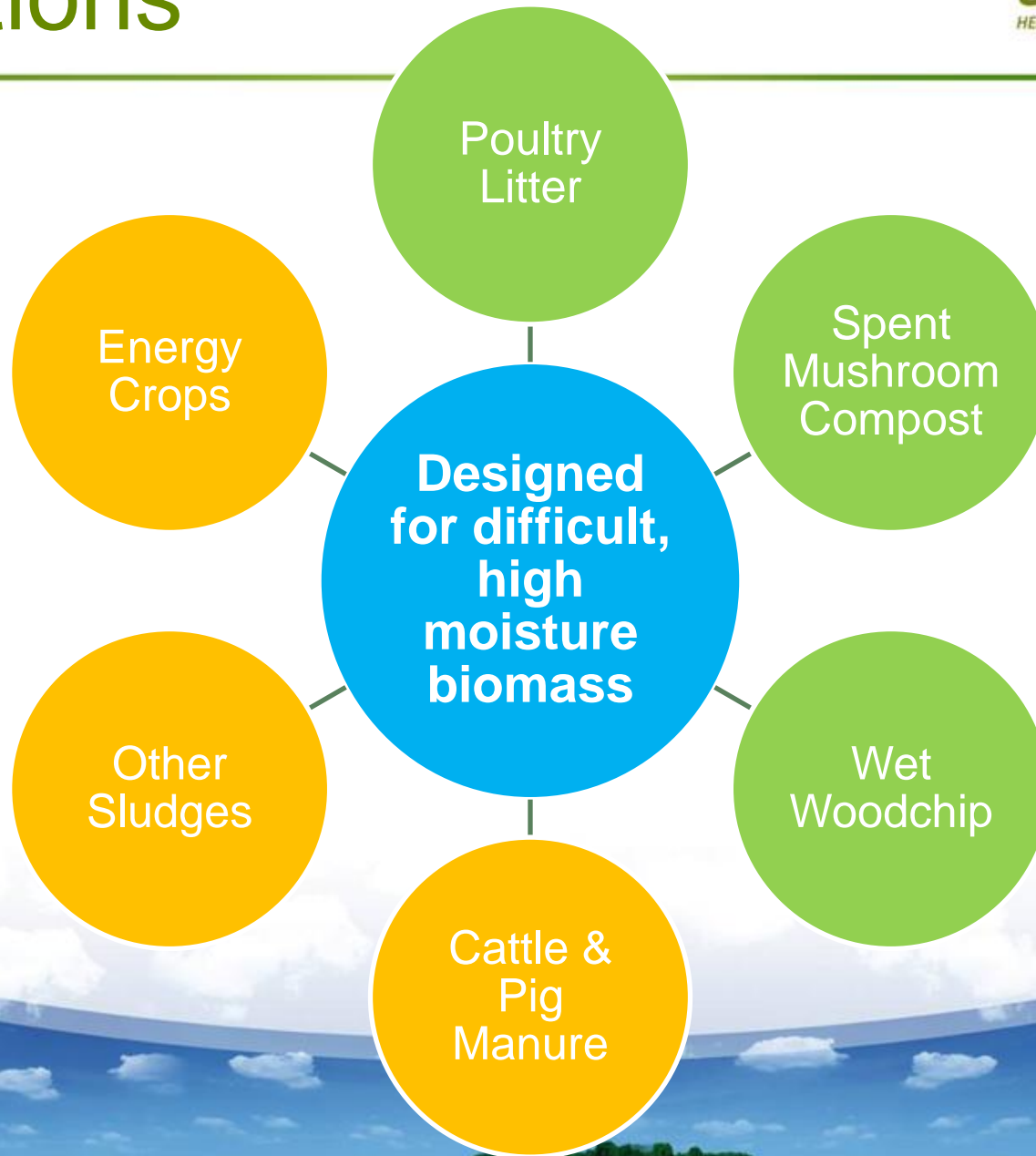
Licence Status
• Approved Ireland
• Pending UK



Technology

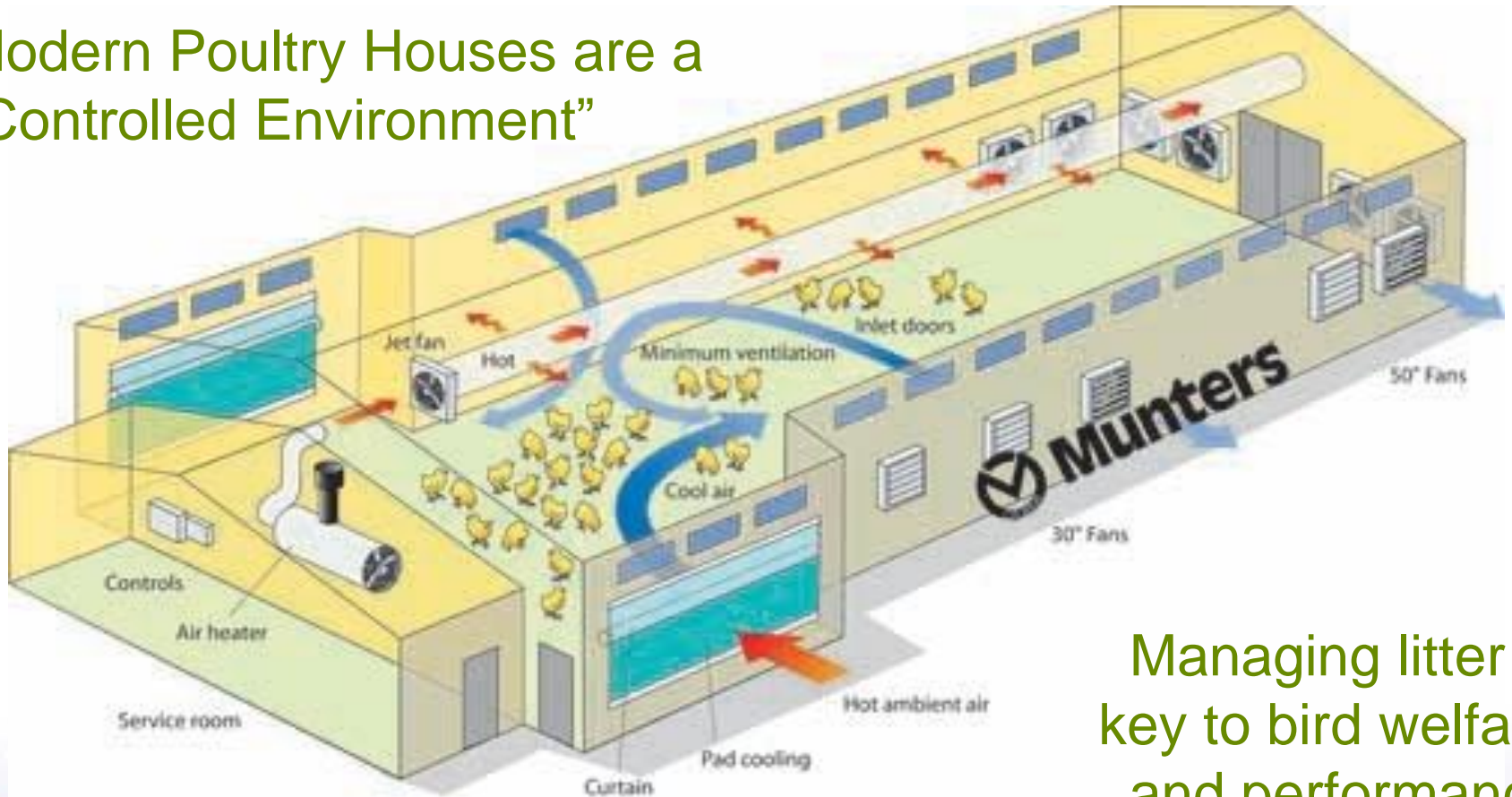


Applications



Highly Technical Environment

Modern Poultry Houses are a
“Controlled Environment”



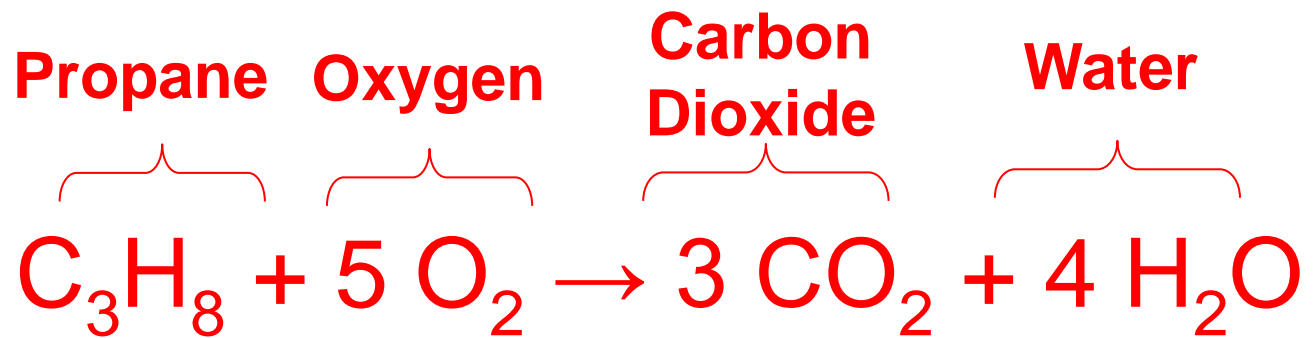
Managing litter is key to bird welfare and performance

Energy Intensive Process

Heat intensive industry



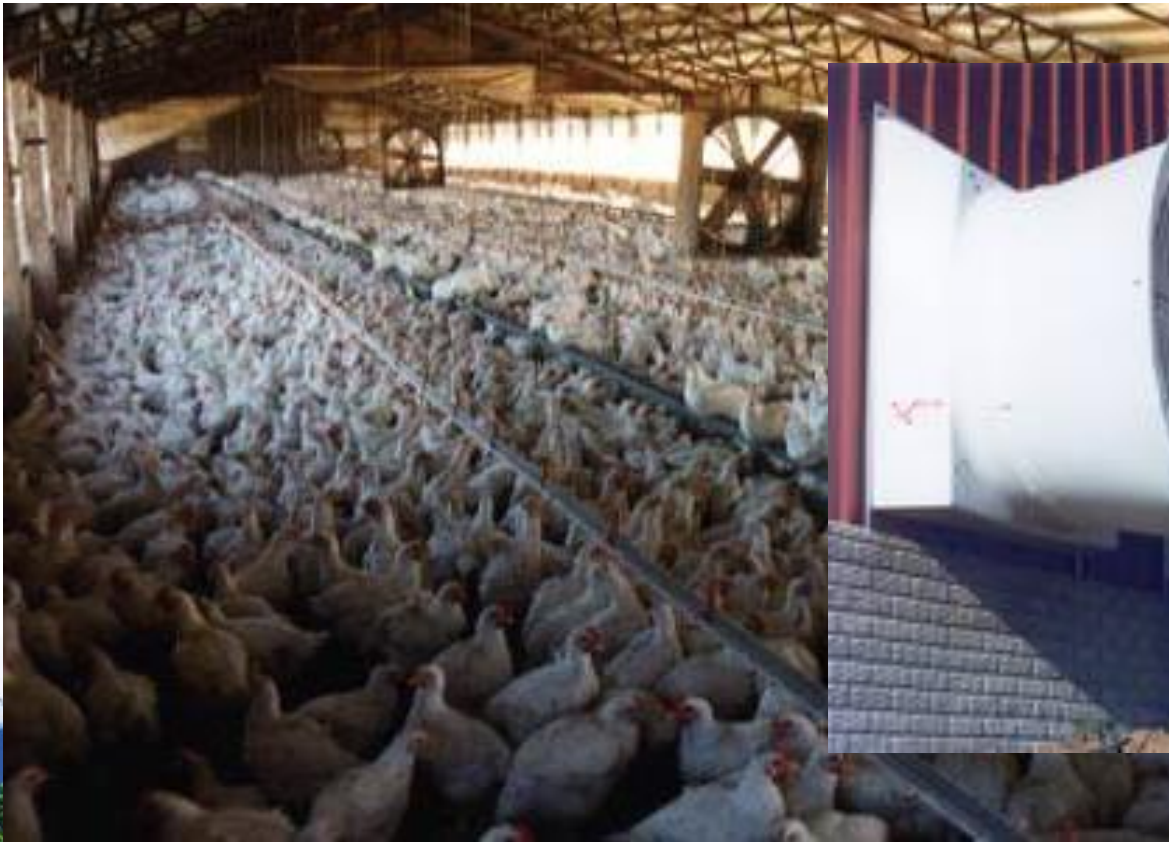
- Conventional LPG heating produces water as a by-product.



- Ventilation needs to be increased by a third simply to remove moisture created by the brooder stoves!

Energy Intensive Process

Electricity is used to cool older birds



- Regulation (Government/Retailer)
 - Environmental, Ammonia, Nitrates (disposal)
 - Animal Welfare
 - Production
 - Planning
- Marketing (Retailer/Consumer)
 - Low Carbon Production



CHP Plant in UK

How it works

- The material combusts the fuel, producing gases at 850 degrees.
- Compressed hot air turns a micro turbine to generate electricity.
- Remaining heat provides hot water at up to 80 degrees which is piped to the nearby sheds to provide heat through a radiator



Challenges

- Certainty on Incentives
- Regulatory Approvals
- Scaling quickly to protect market position
- Finance / Working Capital



Questions & Answers

