

Food Animal Initiative ENVIRONMENTS FIT FOR ANIMALS FIT FOR THEIR ENVIRONMENTS

# Non-ruminants: Feeding from the range & other alternatives Rethinking the system

Mike Gooding – Managing Director, FAI Farms Ltd



# The FAI philosophy ...

# Values Lead Sound Independent Evidence Based Science

At FAI we operate a range of fully integrated, commercially viable and animal welfare focused production systems. Animal welfare and more sustainable farming is at the heart of everything we do.



To find out more about our work go to www.faifarms.co.uk

Values Lead Evidenced based science, research & technology

.... a constant learning process



## **Needs & Wants**

"Needs" are what have to be met if animals are not to die and are to be kept healthy.

"Wants" are what the animals themselves tell us by their behaviour they want.

Usually, but not always "wants" are the way in which the animals get their "needs" fulfilled (e.g. Body will die from lack of food (food is needed) and the animal fulfils this need by wanting food.



**Professor Marian Dawkins** 



# In's & Out's

#### Inputs

- Feed
- Water
- Nutrients
- Energy
- Mechanisation
- 'People'



# Outputs

- Nutritional components
- Environmental benefit
- 'Well being' value

# .... the efficient use of resources



#### Limitations





# FAI pigs

1. A 3E's positive system

economically viable, environmentally positive, ethical sound

- 2. Meets the pigs' 'wants'
- 3. Tails on, no tail biting
- 4. Mutilation free



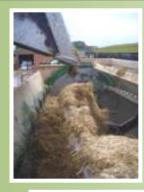
- 5. No confinement, free farrowing
- 6. Accounts for FAI farm environmental conditions
- 7. Efficient use of resources



#### FAI pigs - feed









#### Simple, practical, low capital, efficient











# FAI pigs - nutrition

	No. YIGS	Di-th						
		Birth	ТҮРЕ	Kg /pig	KG	Total KG	EGGS	NOTES
Pen 1	13	Apr-10	Male Growers	4	52	55		Purple Group
2	10	Apr-10	Female Growers	4	40	40		Purple Group
3	22	Feb-10	Male Growers	5	110	110		Yellow group
4	18	Feb-10	Female Growers	5	90	90		Yellow group
5	16	Sep-10	Piglets	3	48	50		Pink group
6								
Family Pen 1 5	<b>5</b> + 32	Nov-10	5 SOWS + 32 piglets	15	75	75		
Family Pen 2	6		6 sows 1 boar	6.5	45	45		
Dynamic Grp								Green+Purple Groups
Spare pen	6		Pedigree Gilts	6	36	40		
			<u>v</u>					
Hosp Pen 1	1		sow	15	15	15		
HP2	1		Boar	6	10	10		
HP3								

The PAD sta				10		
Hut1	1	Sow	10	10	10	
Hut2	1	Sow	10	10	10	
Hut3	1	Sow	10	10	10	
Hut4	1	Sow	10	10	10	
Hut5	1	Sow	10	10	10	
QUARANTINE						
Q1						
Q2						
Q3						
TOTAL				571	580	

<u>TMR Mix (Kg)</u>	
54% Silage	315
30% Rolled barley	175
16% Soya Meal	90
Total	580
Green	
Minerals @ <sup>bags</sup> Pig	
25kg/tonne Mineral	
mix s	15.0
Total TMR inc. minerals	595

Extra weight added by minerals allows margin for error, Eggs = 4X eggs per piglet One good shovelfull = approx. 4kg



# FAI pigs – free farrowing









NB Not organic

#### Meeting the sows 'wants'

10:0 getting the balance right







## FAI pigs – pen layout







# Success measured by outcome

Bringing the range to the pigs





# FAI pigs – the next steps

1. Validating the system – Brydock

www.europeanfarmersnetwork.com

- 2. Prioritising the variables
- 3. Protein in the mix CORE II
- 4. Economic evaluation the detail
- 5. The genetics
- 6. Creating the marketing opportunity









## **Re-learning new skills**





# Pigs don't like silage!

