

# New tools to help pig farmers tackle disease



research | advanced breeding | food futures | training

Livestock 2012 - Nigel Woolfenden

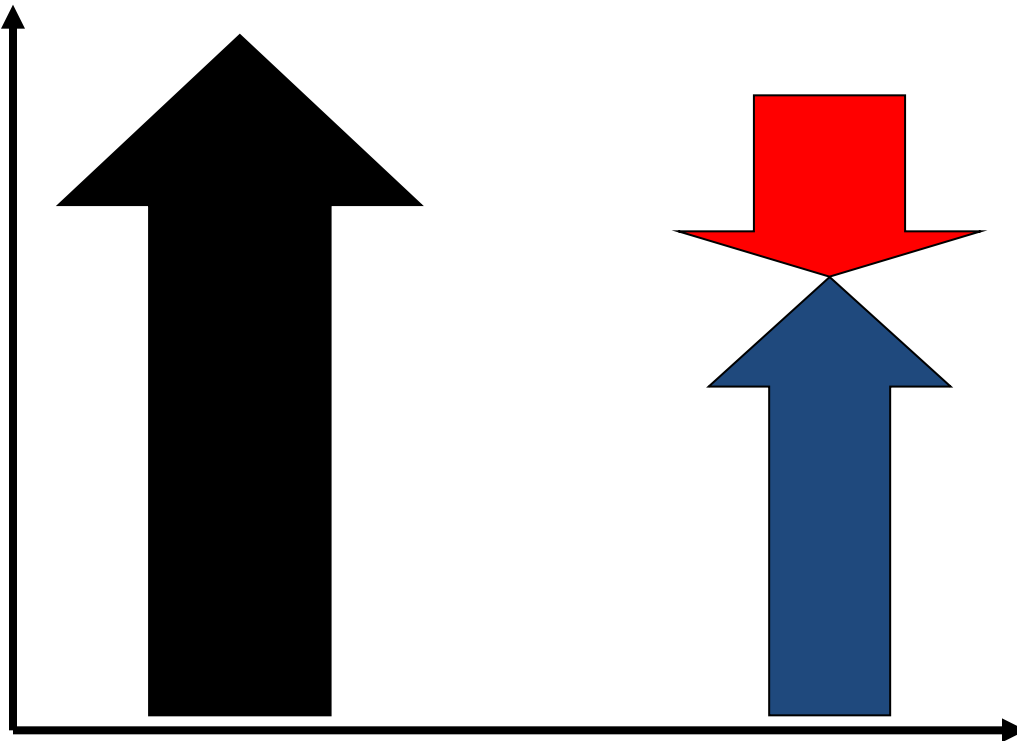




Genetic potential for growth

100 %

50 %



Clinical and  
sub-clinical  
disease

# Swine dysentery.....a major production disease

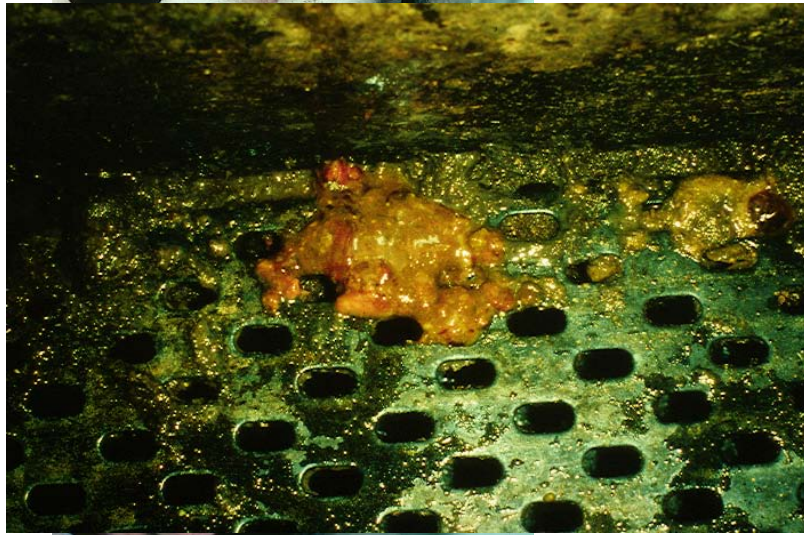
- Caused by a bacteria- *Brachyspira hyodysenteriae*
- Taken in by mouth, infects the Large Intestine
- Damage results in death, diarrhoea, protracted recovery
- Severe reductions in growth rate and food conversion efficiency- cost of £4-£10/pig
- Ability to become resistant to antibiotic treatment



# How does Swine Dysentery spread?



- Carrier animals
- Direct contact with infected faeces



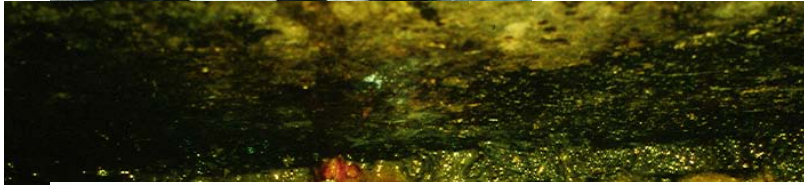
# Survival in Environment

Media	Temperature (°C)	Survival (days)
Faeces in Water	5	61
Moist Faeces	5	40
Faeces	25	7
Soil	-20	41
Soil	4 to 14	18
Soil + 10% faeces	10	78



# How does Swine Dysentery spread?

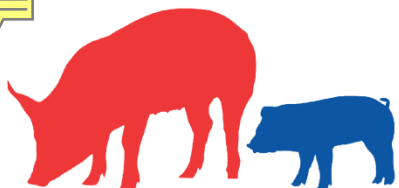
- Carrier animals
- Direct contact with infected faeces
- Indirect contact via objects or other animals



# The problem of local transmission of diseases.....

- Many pig units set up to keep infection away
- But always a risk of infection from nearby pig farms
- Difficult therefore to make informed decisions on risk



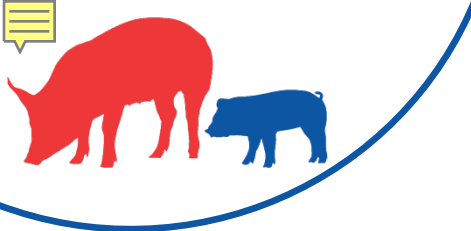


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division of the Agriculture and Horticulture Development Board

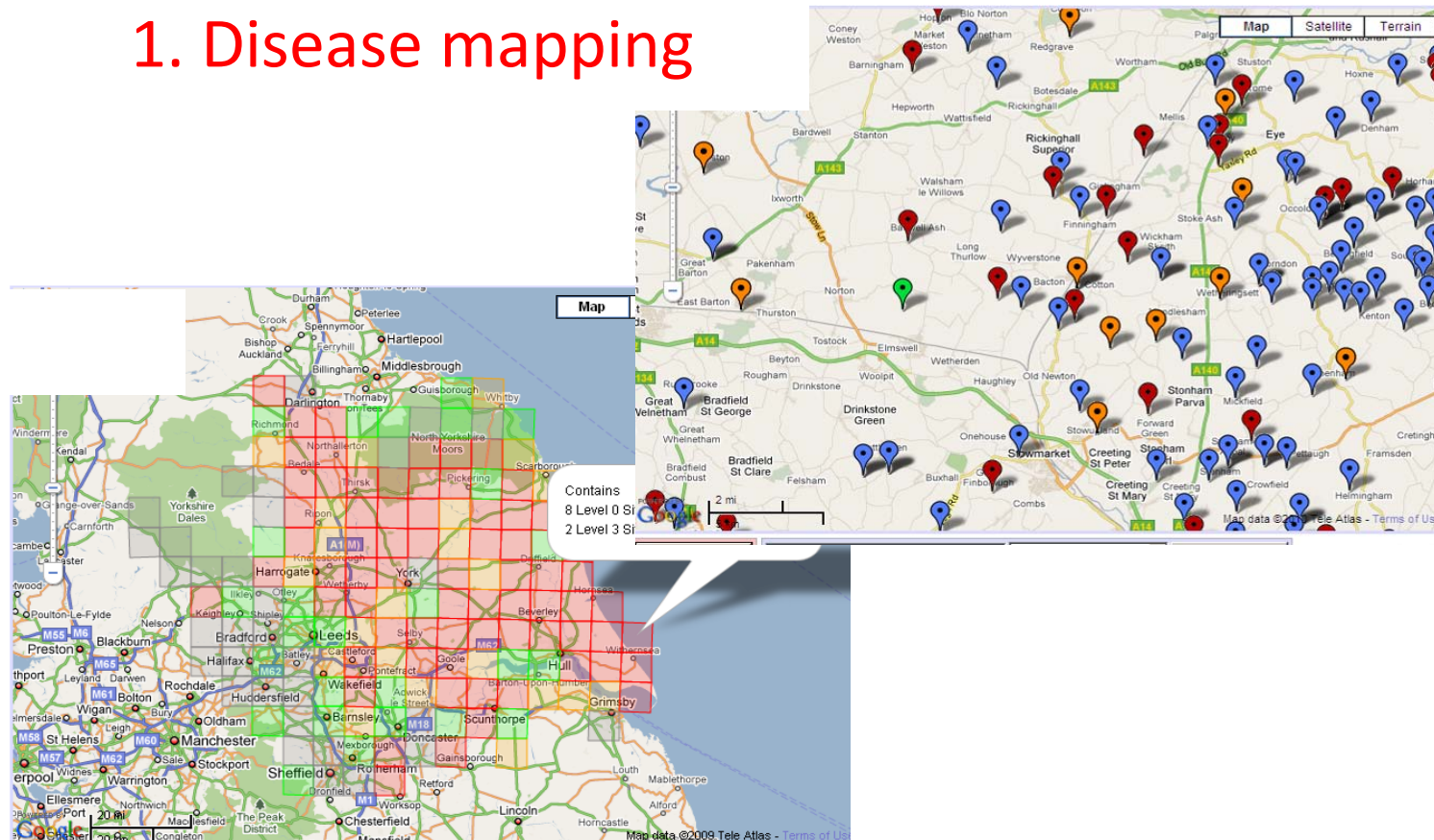


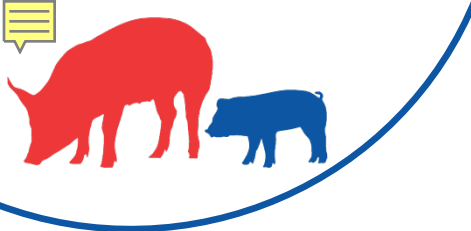


# What is the PHIP?



## 1. Disease mapping



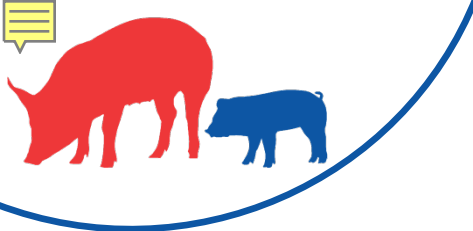


# What is the PHIP?



## 2. Improving biosecurity

- Biosecurity survey
- eAML2
- Transport initiative



# What is the PHIP?

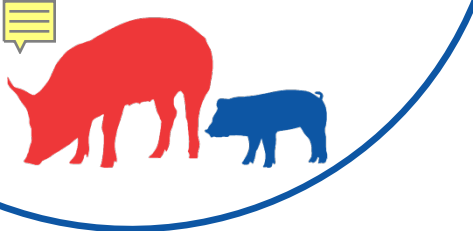


## 3. Support for local collaborative health planning

A group of producers working  
collaboratively to improve or maintain  
their pigs' health

=

Cluster



# What is the PHIP?



## 4. Automatic membership of the BPHS

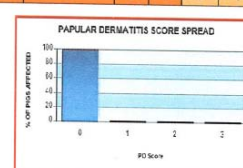
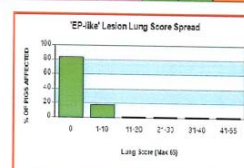
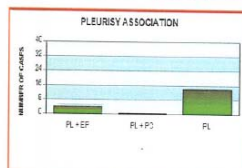


Abattoir:   
Slap Mark:   
Pigs Submitted: 80   
Pigs Examined: 40

**BPEX Pig Health Scheme**  
Abattoir Monitoring Programme  
Farm Day Report - 22-Aug-2011



Summary	EP Ave Score	"Viral" %	PP Chronic	PP Acute	Abscess	Pyemia	MS %	HS %	Pleurisy MM %	Pleurisy Score %	PC %	PT %	Tail %	PD Ave
	1.00	5	0	0	0	0	0	0	30.0	5.0	0	0	0	0
Pigs Affected	7	2	0	0	0	0	0	0	12	2	0	0	0	0



**Disease Specific Comments:** Pleurisy has been found in more than 10% of pigs examined. Veterinary advice should be sought regarding further diagnosis of the possible cause and control. DLWG reductions of up to 30g per day may have been incurred in affected pigs due to pleurisy. This could be equivalent to up to an extra 3 days to reach slaughter weight for affected pigs.

**Slapmark Score:** Some slapmarks unclear, making rapid identification difficult. Please ensure that slaps are clear (well-inked every slap and good contact) and placed on the fat of both shoulders. - more ink needed



EP	Enteric Pneumonia
PP*	Pleuropneumonia-like
"Viral"	Viral-type distribution
MS	Milk Spot
HS	Hepatic-Scarring
PC	Pericarditis
PT	Peritonitis
PL	Pleurisy
PD	Papular Dermatitis
Tail	Tail-bitten



# The Project in action.....

- Autumn 2011 saw an unprecedented series of reports of new cases of SD in North Yorkshire area
- Pre-existing cluster was extended, and met regularly sharing information on nature of disease and response to treatment
- Potential routes of spread considered eg slurry, bird proofing, contractors



## Pig Health Improvement Project

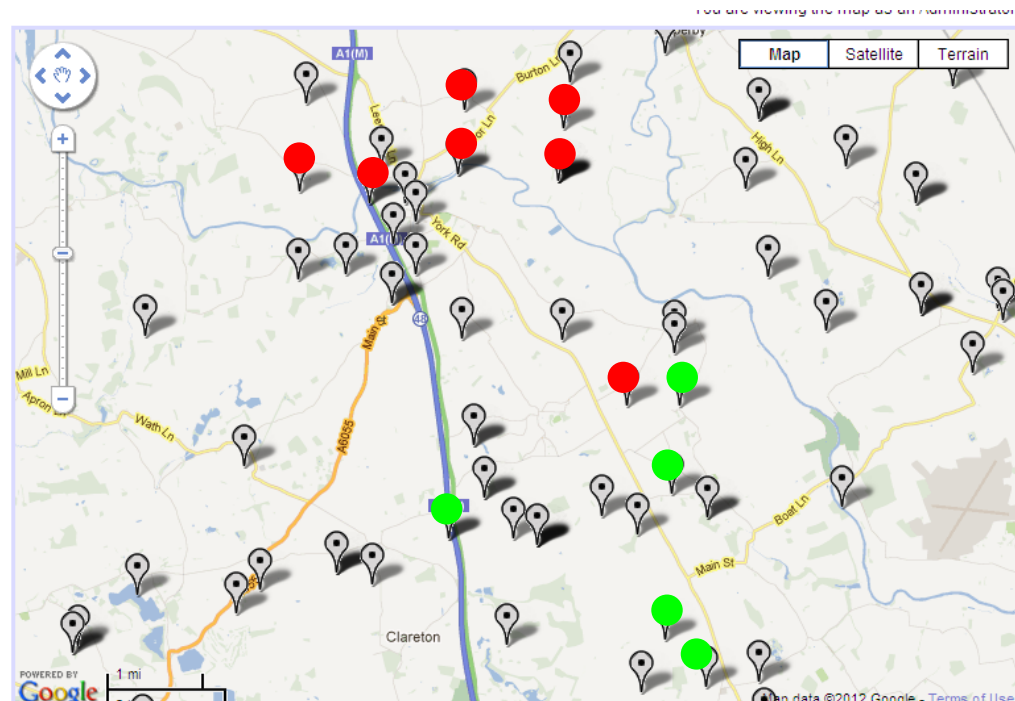
**Sign up today!**

- Free BPHS abattoir reports
- Access to local health mapping
- Bespoke biosecurity action plan
- Disease testing
- BPEX regional support



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Website: [www.pighealth.org.uk](http://www.pighealth.org.uk)

defra  
BPEX is a division of the Agriculture and Horticulture Development Board







**Pig Health Improvement Project**

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## The Project in action.....

- No new cases since cluster began meeting regularly
- 70% of the infected farms have eliminated the infection and are currently monitoring for freedom
- Remainder have plans in place to eliminate in the next year
- Producers have had access to best technical advice and personal experience of fellow farmers
- Commitment to further collaborative action on other diseases in future

# Thank you for your attention

# RAFT

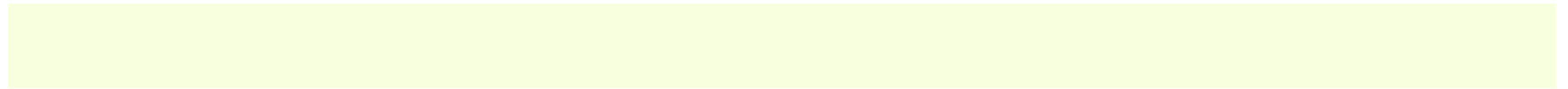
Solutions Ltd

Over to you for questions.....

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# RAFT

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