FOOD ANIMALS FIT FOR THEIR ENVIRONMENTS



'Developing practical solutions for sustainable agriculture'

Management Practices Improving Animal Well-Being The Role Played by Retailers

... and other matters

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

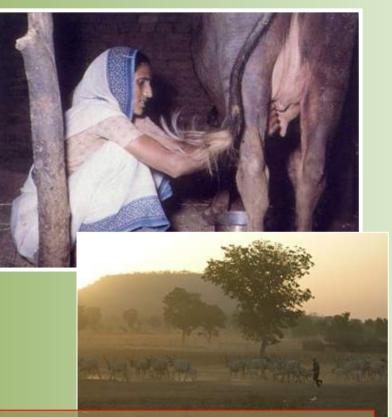
Values Lead Evidenced based science, research & technology

.... a constant learning process



Livestock Farming ...

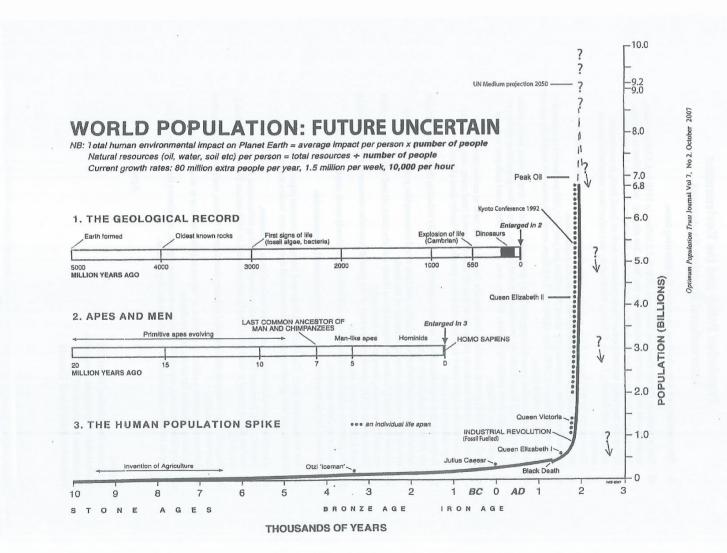
- Worldwide livestock farming employs **1.3 billion people**
- The livestock sector generates livelihoods for 1 billion of the World's poorest people
- Livestock product provide a 1/3 of humanity's protein intake
- But ... the dynamics are changing
 - Population growth
 - Diet preferences
 - Available resources



Livestock production is ... socially significant



Population





Number of Animals used ...

- Pigs
- Cattle
- Sheep
- Chicken
- Poultry
- Other

24.5 million 5.6 million 16.3 million 896.6 million 57.2 million 0.6 million



In 2004 more than **52 billion** animals slaughtered Worldwide

Source Food & Agriculture Organisation of the UN 2004 data Livestock consumption is ... a lot of animals



Ethics & Trust



We need to be planning ahead to do the right thing rather than having to react to press . . . as we did with tuna fishing

Sustainability Made Easy



Labour Standards



Animal Welfare



Traceability



British Sourcing



The British melon

From Garden of England, a

sweet surprise

By Sean Poulte Consumer Affairs

> EY'RE usually imported direds of miles from the up climes of France and ty to bring a taste of the leader with thanks to warmer sumrs and improved farming minutes. Britain can now

its own home-grown mel-Tharentais variety will go on Marks & Spencer for 11.99 day. are being grown at farms in nd Statfordshare in polytunnd growing beds that were produce strawberrice in the referes in

The "index are maid to be superior by other watery to dramage melon allable at this time of New The allable at this time of New The open, including Newtorn and apple, find previously would are added to be the superior of the superscattering of peaking, new the subtract of the superior of the superscattering of the superior of the superior of the superior of the supertion on our there, as well as monds, wainuts and pittachion of the superior of the superior of the superior of the superior of the superscattering of the superior of the superior of the superior of the superscattering of the superior of the superior of the superior of the superscattering of the superior of the superior of the superior of the superscattering of the superscattering of the superior of the superscattering of the superscattering of the superior of the superscattering of the

Mr Davke said: "We know our customers like to buy British fruit and vegetables so this is a great way of bringing them a taste of their summer holidays in Europe with the added bonus that they are eating a delicious new fruit grown in the UK." s.poultered cilumail.co.uk



We need to

Sustainability



Labour Sta



guardian.co.uk

Quarter of meat sold in UK imported from nations weaker on animal welfare Farmers and consumers demand greater import restrictions as a Guardian investigation reveals many bacon, pork and poultry products come from nations with lower animal welfare standards

Juliette Jowit guardian.co.uk, Tuesday 16 February 2010 12.32 GMT

A larger | smaller



Chickens at a poultry farm in Brazil. Photograph: Orlando Kissner/AFP

comes from selected organic fermers using natur purage local wildlife and minimise impact on the

At least one quarter of meat on sale in the UK comes from farms that do not have to meet national standards for <u>animal welfare</u>, a Guardian investigation has found.



aving to

Sourcing



ritish melon



ith meions really are a win-wu , he added, ie meions can be eaten as i esting descrit or as a light ter wrapped in Parma ham. Darties raid, We know our can viables to this is a great way o ging them a taste of their sum holidays in Europe with the doous that they are eating: clous new fruit grown in the

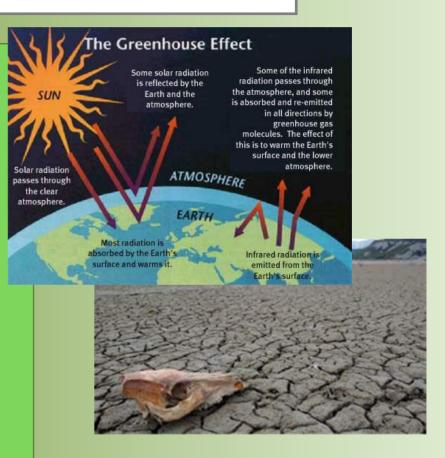


Environmental Impact ...

The total global contribution of agriculture to climate change is estimated to be equivalent to between:

8.5 -16.5 billion tonnes of CO₂ or between
17- 32% of all human-induced greenhouse gas emissions

*deforestation *methane
*fertilizer use *water use
*biodiversity loss



Livestock production has both ... impacts & benefits

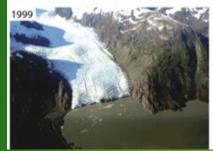




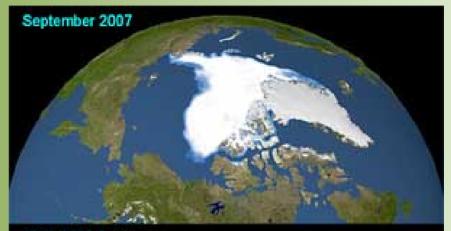










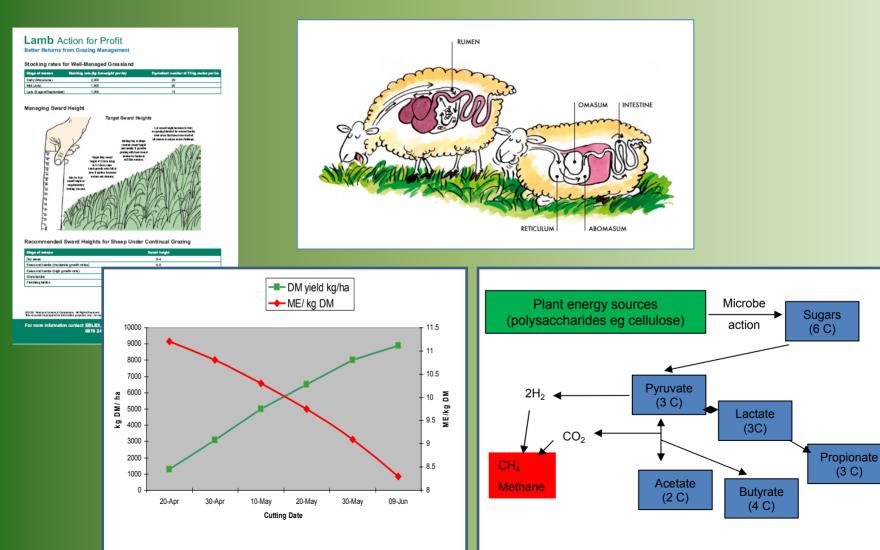








Helping producers ...

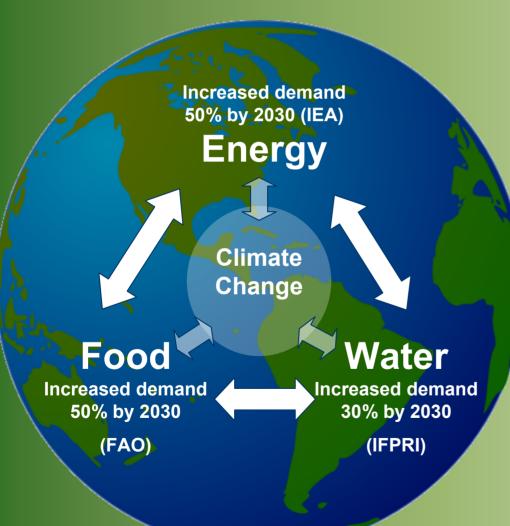








The Perfect Storm



- Can 9 billion people be fed equitably, healthily and sustainably?
- 2. Can we cope with the future demands on water?
- 3. Can we provide enough energy to supply the growing population coming out of poverty?
- 4. Can we do this whilst mitigating and adapting to climate change?



Simplistic arguments

viewpoint

Welfare vs carbon footprint?

By Dr Grant Walling, JSR director of research and genetics

Global warming and reducing carbon output from food production is likely to be high on the Government's agenda in 2010, as the recession and MPs' expenses have been in 2009. It's an issue that affects all of us and, like the collapse of the economy, where certain people were accused of irresponsible borrowing, there are decisions for consumers and the supply chain to make today that will have consequences for tomorMost of the differentiations we see in food products, from budget or standard tier through to premium and luxury products, have been associated with changes that can be made to the production system to improve product quality. Higher quality and more expensive premium meat products have traditionally been associated with high welfare systems.

Outdoor reared, free-

quent greater impact on the environment. Animals given more space to roam produce fewer kilograms of meat per square metre of land and animals grown more slowly require greater maintenance, produce more methane and ammonia and must be provided with greater amounts of feed and resources during their longer life.

People are more aware of environmental issues than ever before. There is a con"The agriculture industry, with support from the Government, should be investing in educating consumers and retailers about the environmental impact of commercial livestock production"



3Es

ethics

The 3Es ...

No longer can individual elements be considered in isolation ... all 3 have to 'stack-up'

environment

environment

Available Resources

Land (while supporting ecosystems)
Water
Soil
Agro-technologies
Energy

economics Affordable Food

Cost competitive raw materials
Rural development
Fair trade
Food poverty

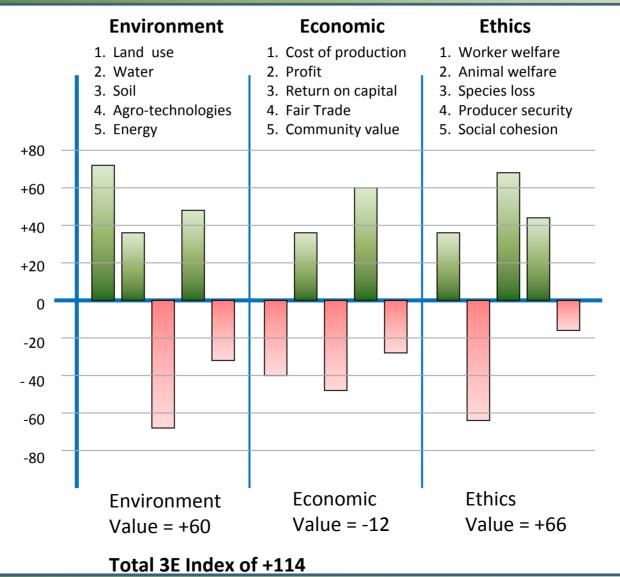
ethics

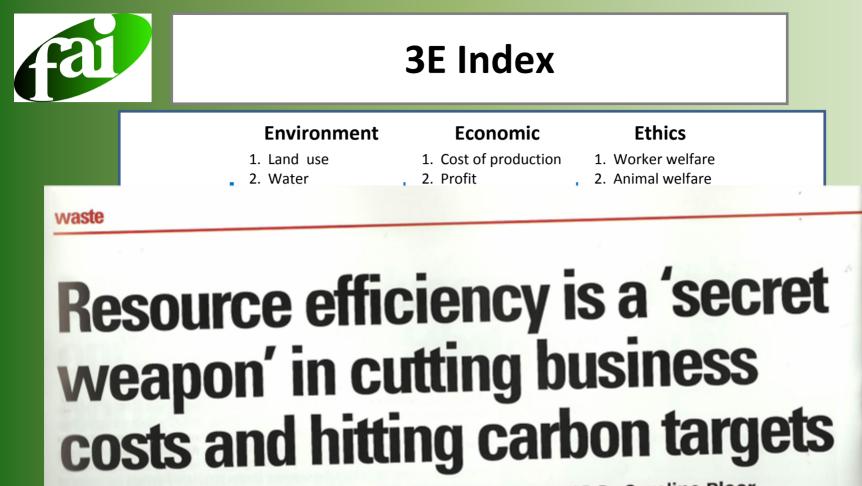
Acceptable Production Methods •Worker welfare •Animal welfare •Producer income security •Species loss

economics



3E Index





says Richard Swannell, director of retail and organics at WRAP. By Caroline Bloor

At our recent annual conference, we unveiled some new research which shows how resource efficiency can help the UK to meet its clichange targets. mate



more important that end users have complete confidence in the product. A recent survey found that an encouraging 36% of compost produced in the UK from source segregated waste is

and to recycle more things, more often. This will save money for business and reduce our impact on the environment. Central to the strategy is the Courtauld Commitment - a voluntary

Value = +60

Value = +66

Total 3E Index of +114

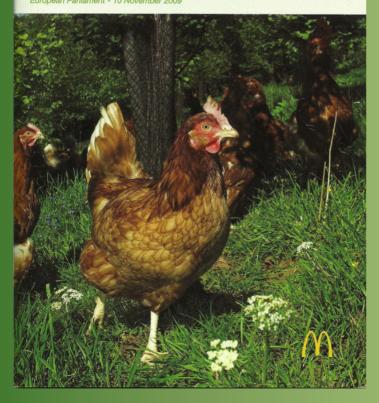


Demonstrating excellence ...



McDonald's Europe Flagship Farms

Working with Farmers to help Farmers develop and share best sustainable farming practices European Parliament - 10 November 2009



Case study: detailed information on www.flagshipfarms.eu

Dairy - FrieslandCampina, Haanmeer 3, Koudum, Holland

This case study shows how dairy production can be undertaken in a manner which maximises the welfare conditions of the cows, whilst reducing the impact on the environment.

Key areas of good practice:

• OPERATIONS

With the introduction of robotic milking (over The grooved anti-slip floor reduces emission per week and by being released from this routine allows the cows to show natural behaviour. allows increased social/family time.

10 years ago) milk yields have increased and it of ammonia from the slurry and with hourly allows the cows "Free Choice" as to when they cleaning/removal can give a reduction in are milked. As for staff, repetitive strain injury is ammonia emissions of 30%. The grooved antieliminated through not having to milk 14 times slip flooring gives improved cow comfort which

• INPUTS

Dual chamber water beds improve cow comfort and reduce injuries such as swollen hocks/ lesions. Research shows that cows need to lie down for 10 to 12 hours per day (Albright, 2003) so this comfortable lying environment is of paramount importance. Another important aspect of the water bed is that it reduces the quantity of bedding required per cow and remains cleaner than other bedding types.

Modern, welldesigned facilities enable the cows to demonstrate ET their natural behaviours and free choice in a safe environment. The floor design of the facilities also minimises ammonia emissions.





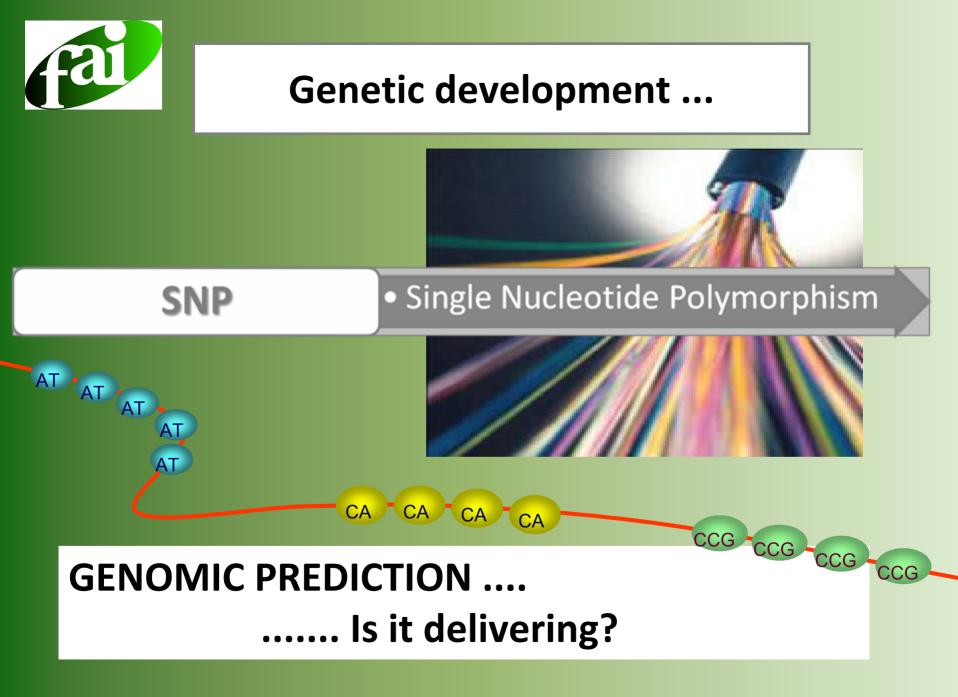
Using Natural Genetics ...

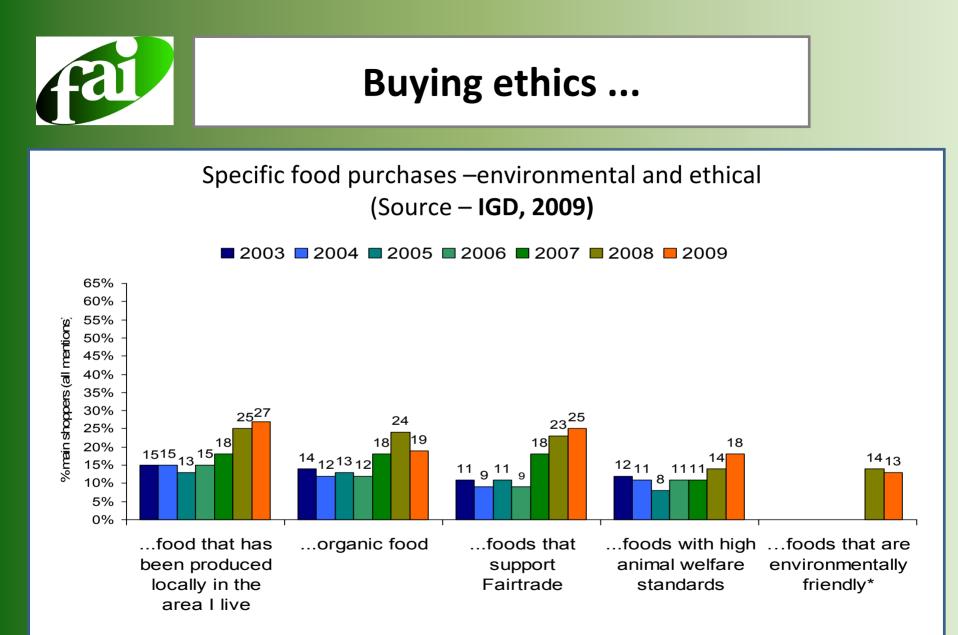


Highly selected, extreme genetics requiring routine surgical intervention at calving

Natural calvings from cows selected for maternal traits with low risk of calving problems

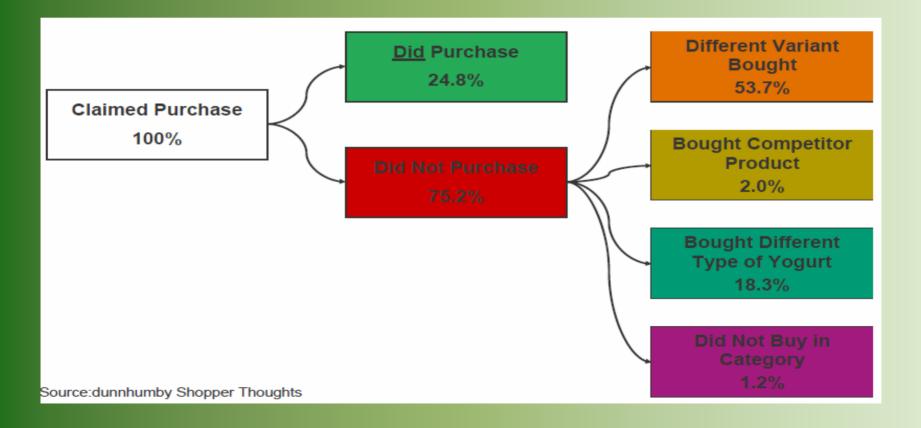








Shoppers don't always do what they say – Tesco healthy living Greek yoghurt



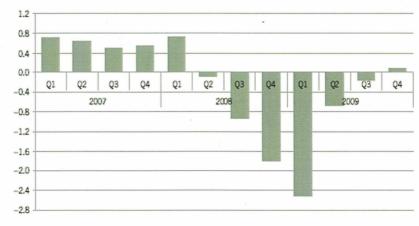


What's the economy doing?

Market review – 12 month returns 31 January 2010 Low interest rates +50.0% Low inflation +40.0% Slow recovery • +30.0% +20.0% Invest in land? +10.0% +0.0% Real GDP (% change on previous quarter) -10.0% -20.0% 31/01/2009 30/04/2009 31/07/2009 31/10/: -Global Equities +28.42% ----Cash+0.50% -Inflation +2.40% -11 1.2 Sources: Bloomberg, IPD: FTSE All-Share Total Return Index, FTSE All-World Total Re Stocks Total Return Index, IPD Monthly Total Return Index*, 7 Day LIBID, Retail Price 0.8 contemporaneous picture).

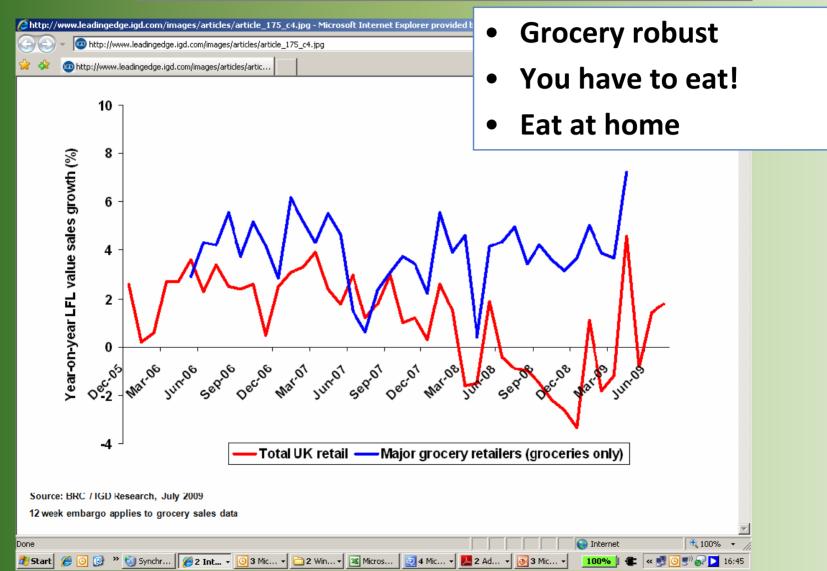
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- How close did we get?
- Quantitive easing





Retail food sales ...

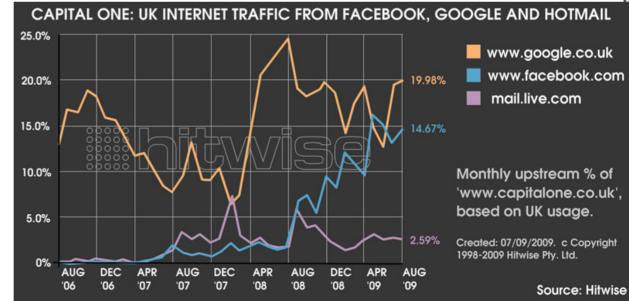




Communication revolution ...

The Facebook Revolution – 350 million users

- The Average user has 130 friends on the site
- More than 10 million users become fans of pages each day
- Every month, more than 70% of Facebook users engage with platform applications
- There are more than 64 million active through their mobile
- The fastest growing demographic 35 +





Food Animal Initiative ENVIRONMENTS FIT FOR ANIMALS FIT FOR THEIR ENVIRONMENTS

