

Sustainable Food Futures

Why we need healthy new proteins with a low environmental impact

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Sustainability & Environment Manager



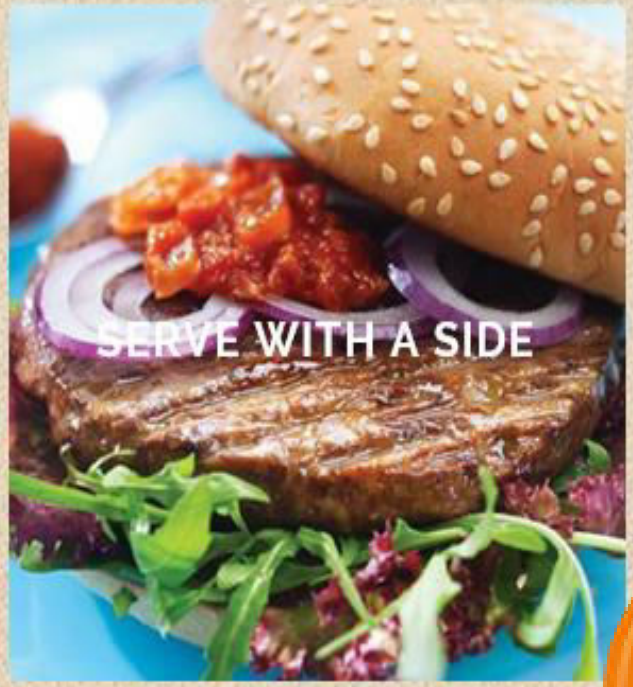
Topics for consideration this morning…

The 1960's and a time of great concern about food security….**what happened next.**

The current context, the link between diet health and the environment - **and the need to change**

Why we need " **healthy new proteins with a lower environmental impact**"



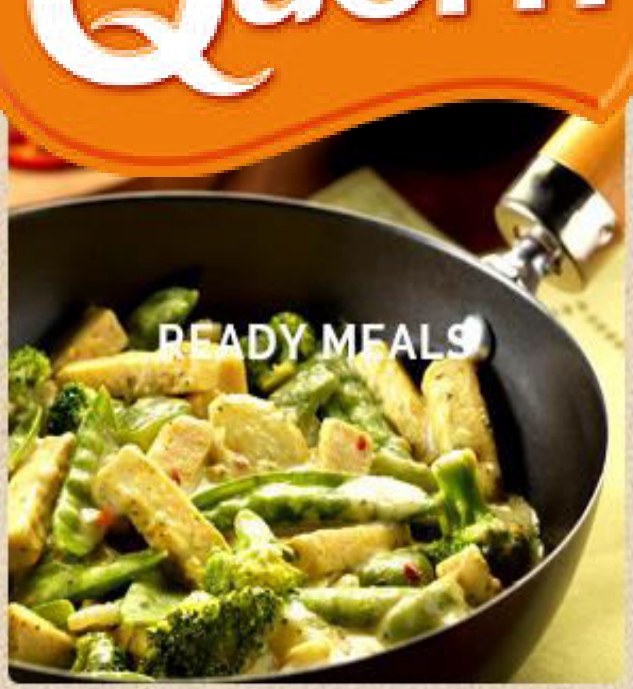

SERVE WITH A SIDE


COOK FROM SCRATCH


DELI

Quorn™


CRISPY COATED


READY MEALS


VIEW ALL

Natural appeal

At the heart of all Quorn foods is

mycoprotein…

Our 50 year ‘overnight success…….

So it can be done





So, what is it?

Quorn in context

The 1960s was a time of huge achievements...



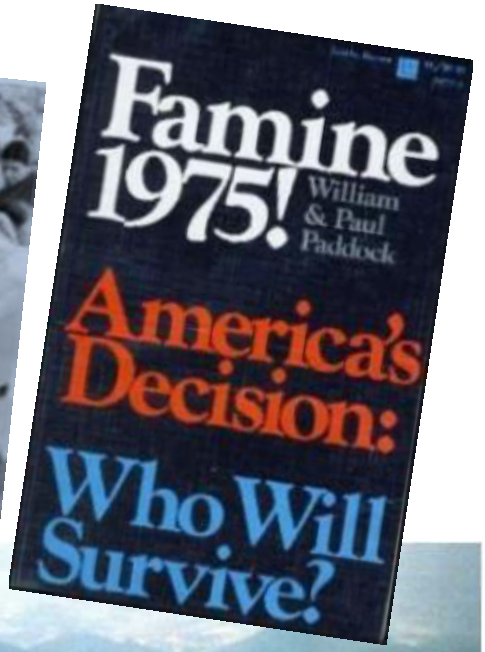
Quorn in context

....And growing concerns

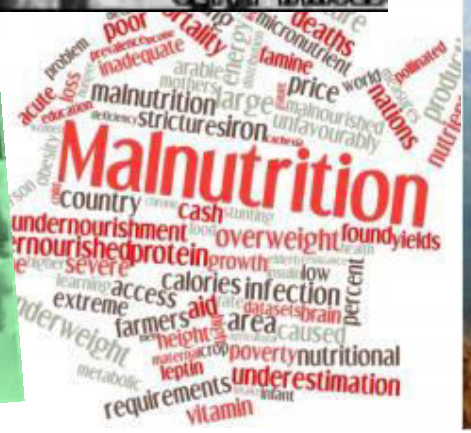










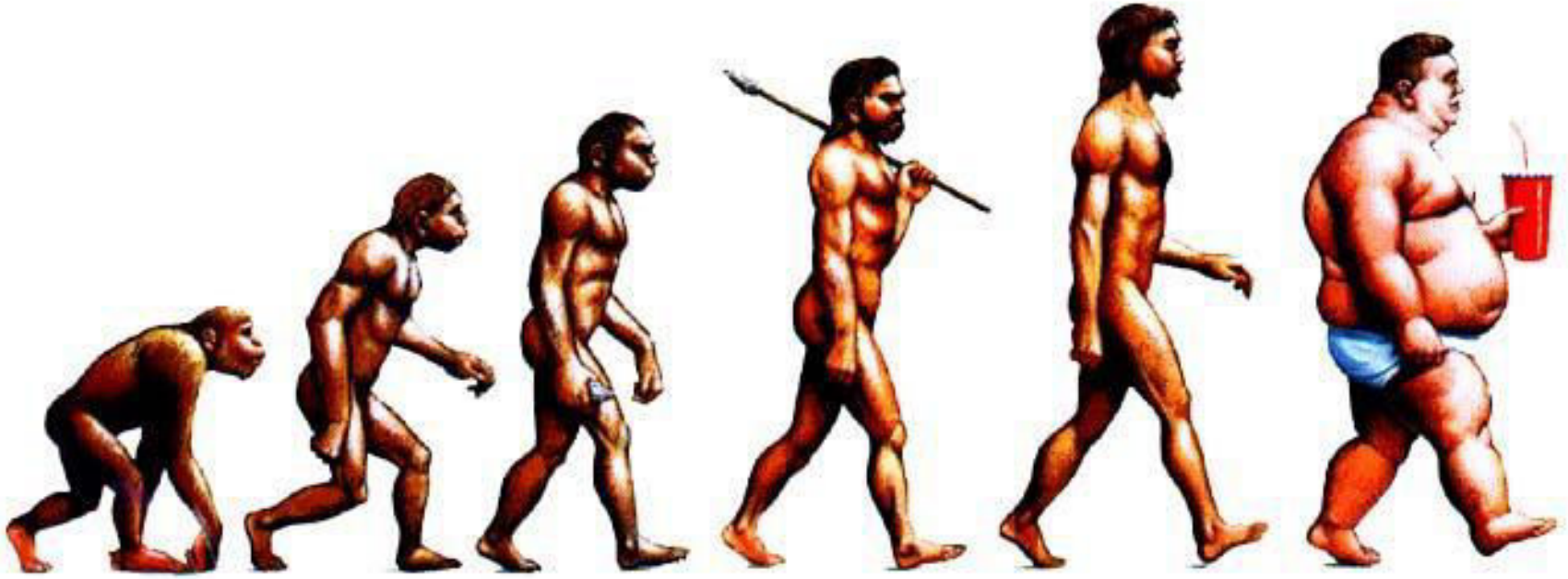




Quorn is born



Another 30 years on in 2015, and what has changed










Our biggest lever globally is to eat less meat

It's official: eating less meat is necessary to prevent dangerous climate change



A new Government report says urgent action to cut emissions is needed at this year's Climate Change negotiations.



The heat is on: "If the Western diet becomes the norm by 2050, even with cleaner energy and ambitious action in other areas of our lifestyles, we are headed for a global temperature rise of four degrees."

Diets link environment and human health

ARTICLE

doi:10.1038/nature13959

Global diets link environmental sustainability and human health

David Tilman[1,2] & Michael Clark[1]

Diets link environmental and human health. Rising incomes and urbanization are driving a global dietary transition in which traditional diets are replaced by diets higher in refined sugars, refined fats, oils and meats. By 2050 these dietary trends, if unchecked, would be a major contributor to an estimated 80 per cent increase in global agricultural greenhouse gas emissions from food production and to global land clearing. Moreover, these dietary shifts are greatly increasing the incidence of type II diabetes, coronary heart disease and other chronic non-communicable diseases that lower global life expectancies. Alternative diets that offer substantial health benefits could, if widely adopted, reduce global agricultural greenhouse gas emissions, reduce land clearing and resultant species extinctions, and help prevent such diet-related chronic non-communicable diseases. The implementation of dietary solutions to the tightly linked diet-environment-health trilemma is a global challenge, and opportunity, of great environmental and public health importance.

New Thinking Links the trilemma of diet, environment and health

The current context…

Chickens	110,000
Pigs	2,630
Sheep	922
Goats	781
Cows	557





+ a large number of ducks, rabbits, horses, turkeys…

..3 camels and one unfortunate mule

The scale of livestock production is driven by our desire for cheaper and more plentiful meat, but there are damaging consequences, which at the moment are forecast only to intensify

Quorn Environmental Footprint

Key Comparisons vs Quorn

	GHG	LAND	WATER
Beef Mixed	x9 more GHG	x9 more land	x10more water
Beef Grazed	x36 more GHG	x12 more land	x11 more water
Chicken	x3 more GHG	x2 more land	x2 more water



CARBON TRUST
REDUCING CO2

- By working closely with **Carbon Trust** we have established that Quorn Foods offer **significant environmental benefits** relative to meat.
- Quorn is the **first and only** meat free brand to have carried out such a **systematic third party** analysis of its environmental footprint.

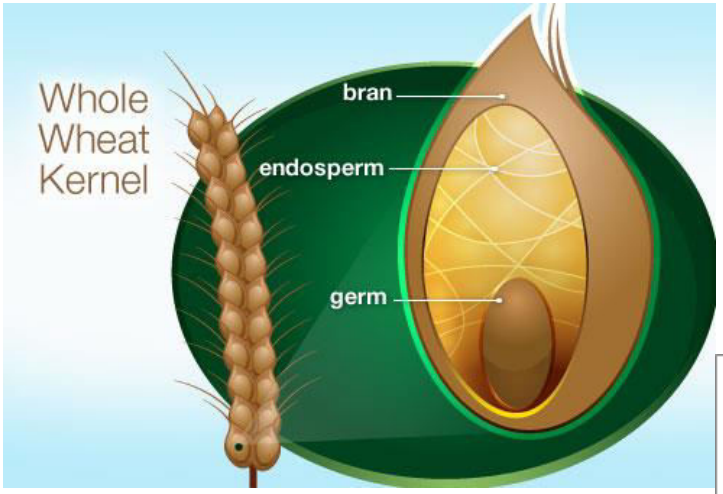
Land & protein efficiency

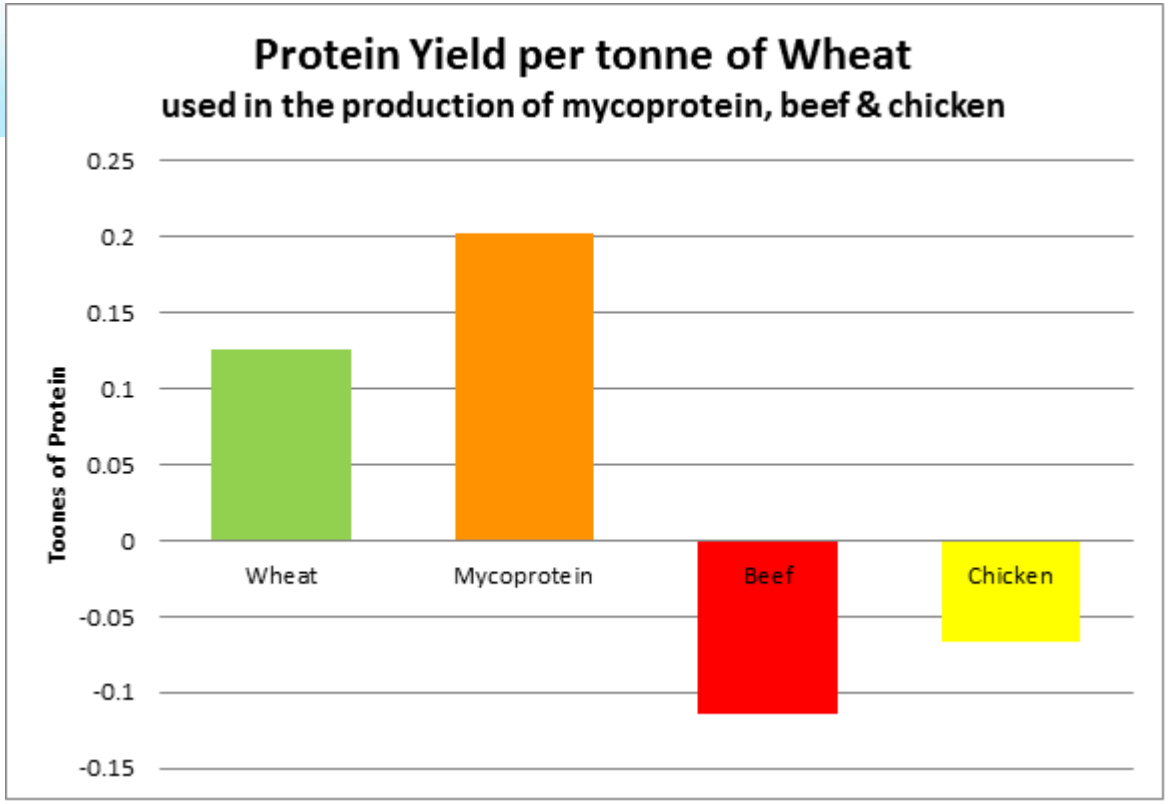


‘75% of the world’s agricultural land and 23% of its arable land is used to raise animals’

Chatham House Report, 2014

Creating Protein from Starch





Big steps toward small footprints

Quorn Foods

"The need for new business models that help address the 9bn challenge - including a healthy new protein with a lower environmental impact…."

Prof. Alan Knight Single Planet Living

Thank you

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