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#### Fat Based Consumer Products

What can we expect?

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#### The Basis (consumer Trends)

#### Trends (Western and emerging countries)

- more dogmatism,
- hedonism,
- land of milk and honey-like choices,
- situation-based and schizophrenic behaviour with no typology any more,
- dogmatism in wealth, intolerance,
- health wellness,
- contradictory emotional behaviour,
- abandoning traditional behaviour patterns,
- obesity mal-nutrition.

#### The Basis:

#### Within these trends

Only food products, will succeed that are accepted by

- the trade
- the consumers

Governments for instance will only be able to forbid, they will not be able to launch products.

### The Basis: Help is needed from wise Politicians

It can't be the task of politicians, to monitor public opinion and then do the popular things.

Task of a politician is, to do the right things and to make them popular.

Walter Scheel (ex-President of Germany)

#### The Basis:

#### A Dogma

is a fixed definition,
with an inherent, indisputable
substance of truth,
as it assumes to reflect reality

### The Basis: this automatically means

Living under a dogma means

- there is no need to reflect
- there is no need to decide

#### Dogmas:

#### Some Consequences:

- stand still,
- curing symptoms instead of root causes,
- no discussion,
- no progress

## Functional Food Becel pro activ as an example

- enriched with sterols from oil seeds,
- reduces cholesterol level by 10-15%,
- Food, no drug!
- Novel Food Legislation,
- >10 years development time,
- appr. 100 mln € cost

#### Functional Food Becel pro activ as an example

enriched with sterols from oil seeds,

From the example can be learnt:

Real big innovation that has to undergo
The EU novel food legislation
needs a wide and regular consumption
for the required pay-back.

# Functional Food what is supposed to come?

- Food for the prevention and relief of widespread diseases as for instance:
  - High Blood Pressure
  - Rheumatic Diseases
- Also more food with no scientifically proven effect
  - but possibly with a "personal" positive effect

# Functional Food We all would be helped by

 E.g. Long chained (marine) ω-3-fatty acids (EPA, DHA) with a positive effect on the brain development in infants and with many other advantages for men

but.....

# Functional Food We all would be helped by σ-3-fatty acids...but.....

- they come only from fish
- fish is scarce
- farmed fish only holds them, when it is fed fish or special algae
- They might also as a feed for fish come from GMO-rape, which at present is not at all accepted in Europe

# Energy from Food Sources Renewable Energy

All want to return to nature, but nobody on foot.

Petra Kelly, German Green Party Activist 1947 - 1992

# Energy from Food Sources means for the Food Industry

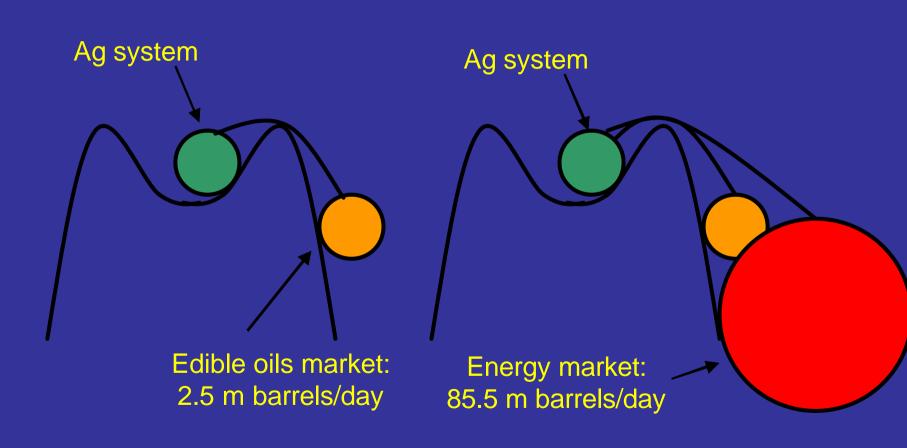
- fighting for their raw material
- fighting against an industry that moneywise thinks in a different league
- being aware that farmers will possibly seek new alliances
- being alarmed that food prices might rise dramatically

# Energy from Food Sources with bio diesel as a tortuous path

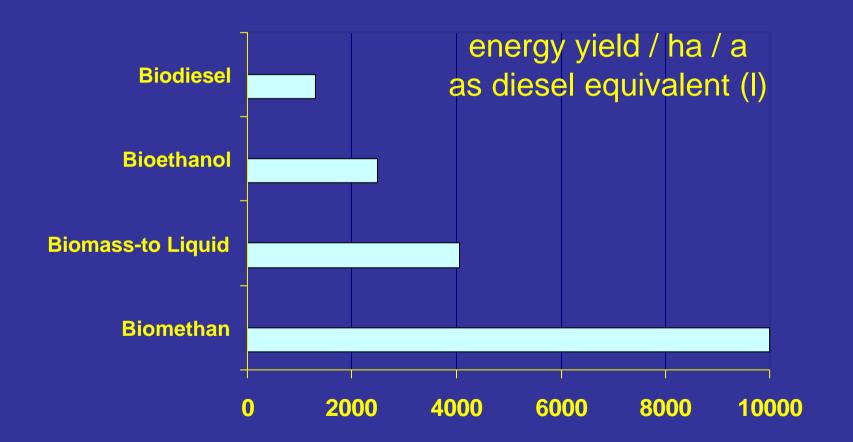
- burning the physiologically best vegetable oil Europe has
- using a plant that is not energy but food/feed optimised since centuries
- disturbing the equilibrium between two very different markets
- making inferior usage of our land resources
- With a very questionable contribution to the environment

#### Energy from Food Sources

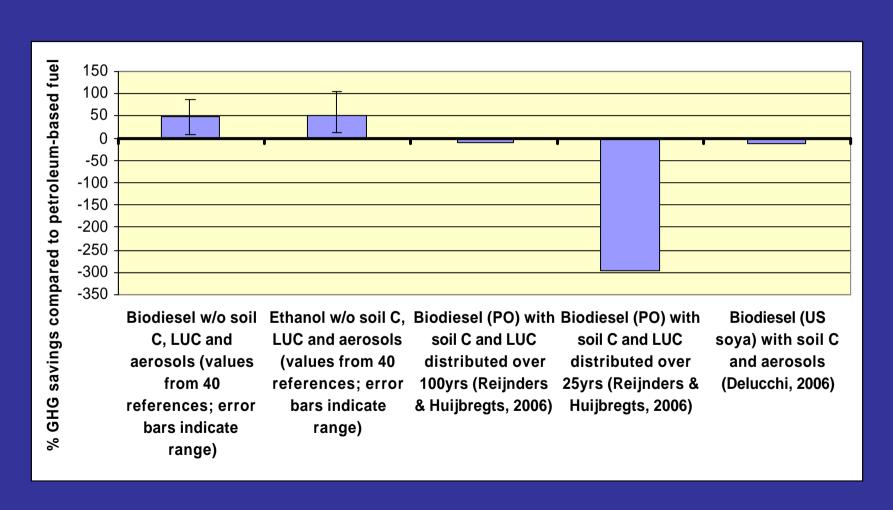
Food vs Fuel: Disturbing the equilibrium



# Energy from Food Sources inferior usage of acreage



## Greenhouse Gas Emissions from Biofuels Relative to Fossil Fuels with and without Inclusion of Land Use Change (LUC) and Soil Carbon



#### Energy from Food Sources

#### What are the issues?

- EU forces fuel from renewable sources, above what locally can be produced
- Palm oil cheaper than rape seed oil
- Mineral Oil Companies engage in palm oil plantations
- NGOs start activities against palm oil (logging the rain forest issue)
- Taking food from the poor (Tortilla War)
- Eventually with a very questionable environmental impact

# Water Management What might be next?

Track in virtual water

At present we need to produce 1kg of

Maize	900	Milk	1000
1 A /II 1	4050	0 0	4000

Wheat 1350 Soya Beans 1800

Palm oil 2000 Beef 16000

litres of water

Source amongst others: www.waterfootprint.org

# Water Management What might be next?

Water, virtually tracked via soya beans,

amounts to 70.000.000.000 metric tons

annually, at present.

litres of water

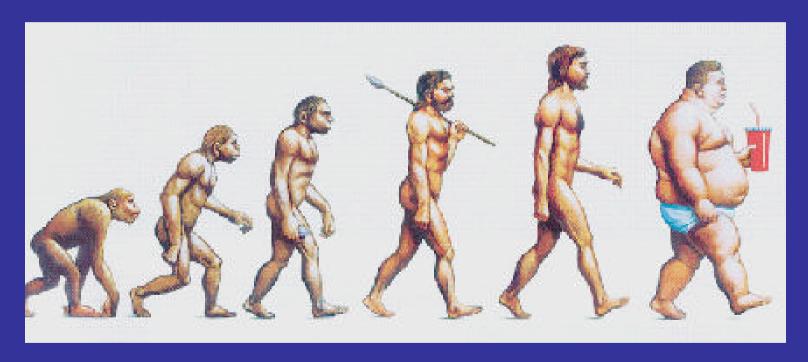
Source amongst others: www.waterfootprint.org

We as the

Fat Industry

are in the Focus

# Obesity Is it Darwinism?



**Source: The Economist** 

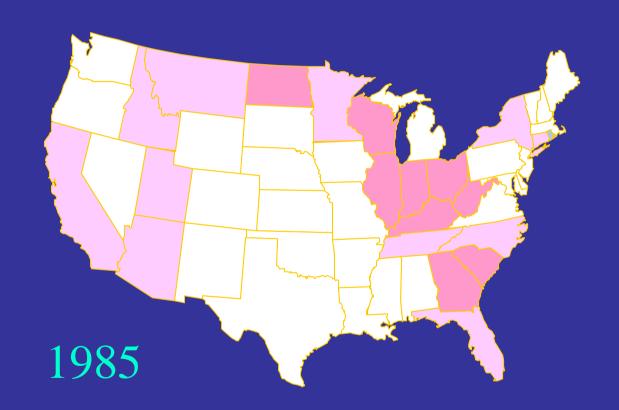


### Obesitas-Trends unter Erwachsenen in den USA \*BMI>30

\*Body Mass Index (BMI) von 30 heißt:

ca. 15kg Übergewicht für eine Person von ca. 1,65m

ca. 20kg Übergewicht für eine Person von ca. 1,80m

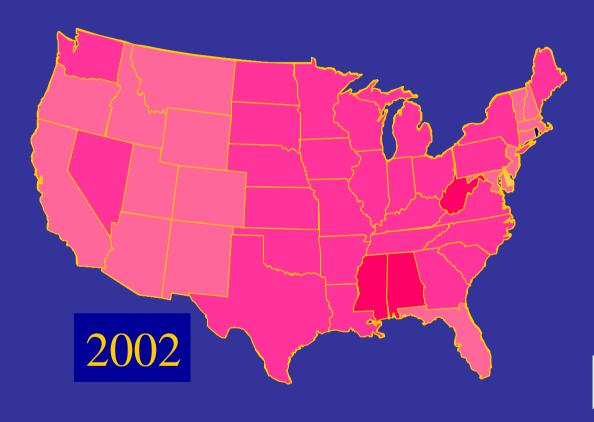


Source: Behavioral Risk

Factor Surveillance System, CDC



### Obesitas-Trends unter Erwachsenen in den USA \*BMI>30



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#### Why is this an issue of the Fat-Industry?

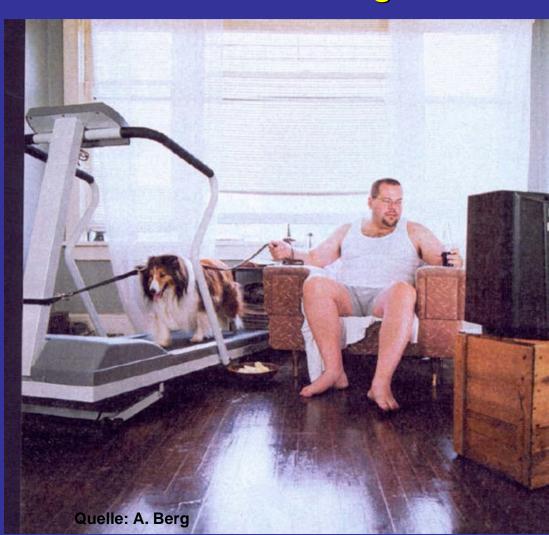
- food obviously plays a role (even if a very small-one)
- we have been pointed at as "The Guilty"
- a patent remedy is looked for
- the Food Industry is part of the society that has that problem
- but also: "Helping-to-Slim"-Food promises good business

#### Food can help,

- Food especially fat-based products with reduced calorific value are in the market since more than 25 years and are permanently improved.
- Fat Phobia is of no use and dangerous.
- No product can resolve the input-output problem (insufficient physical activity).
- Discriminating food harms.
- There will be no food product with "negative caloric value"!

"Easy Solutions" are easier than bearing the truth





#### "Easy Solutions"



- are counterproductive replacing self responsibility by misleading guidance
- do not resolve the issue and may lead to diseases by fatphobia
- are far too slow to reflect any progress in science
- will not at all resolve the problem

#### Health

#### Food can help! We will see

- more products allowing for a better 
   ω-3/ω-6
   balance
- more products with EPA and or DHA
- even difficult-to-change product formulations being trans-FA-free
- better texture in fat reduced products
- more products where fats are replaced by oils

#### Emotions:

#### Food is highly emotional, therefore

- the non-GMO trend in Europe will not be broken
- more "guaranteed-GMO-free" sources and supply chains will become available
- we will see a continued trend towards "organically grown" raw materials even in discounters, also for oils and fats
- a still tiny trend towards cold pressed certifiedorigin seed oils will grow
- the industry must observe and take these trends serious in order not to loose out

#### Thank you for your attention!