



Industrial Perspective of GE Food and Agricultural  
Crops (Production, Marketing & Trade)

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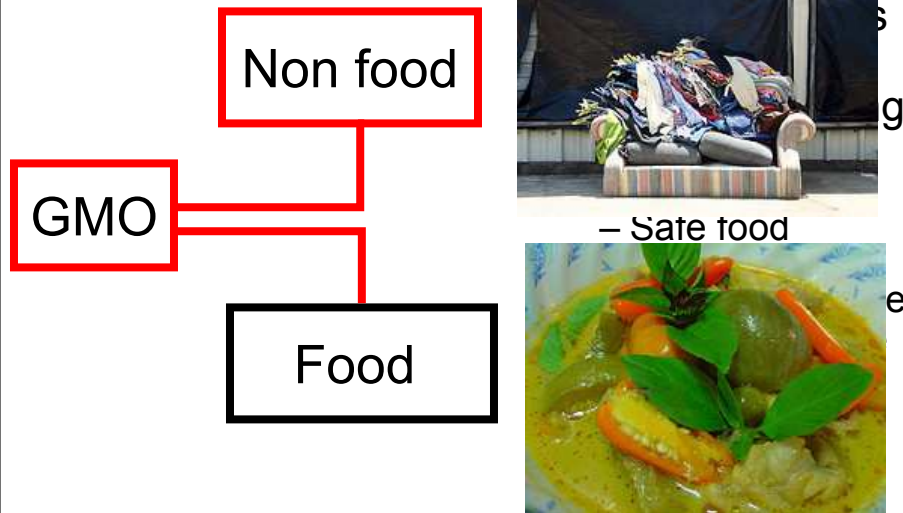
Public Forum "The Genetic Engineering of Rice and Other Crops",  
October 5, 2009,  
TNB Sports Complex, Kuala Lumpur

## Disclaimer

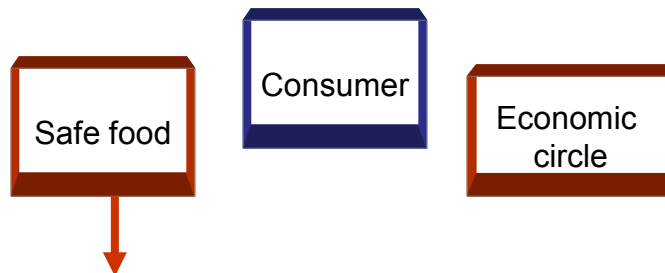
This presentation is prepared with the objective to share some of the industry views for intellectual discussion.

In no way it represents the final industry perspectives of which a proper and evidence based survey for all concerned industry stakeholders would be needed. Such survey should be spearheaded by relevant policy markers.

The scope of this presentation will be structured around the Responsibility of food industry



Consumer is at the centre of what we do



- Food industry is highly regulated globally to protect consumer and enable fair trade.
- Providing safe food is non-negotiable for food industry
  - Food Act 1983, S13 – unsafe food liable for fine up to RM100K and/or imprisonment 10 years.
  - Food safety crisis = collapse of business (eg melamine & Sanlu in China)

A viable and sustainable industry can contribute to a lively economic circle



- Generating income activities for everyone.
- Wealth provided for by Vision of a nation
  - Eg: Malaysia Biotechnology for wealth creation
    - National Biotechnology Policy 2005
    - 9<sup>th</sup> Malaysia Plan 2006-2010

- Lead to scientific breakthroughs and technological innovations. Knowledge Perception
  - Improve quality of life,
  - availability and nutritional value of food.



Any technology should not be

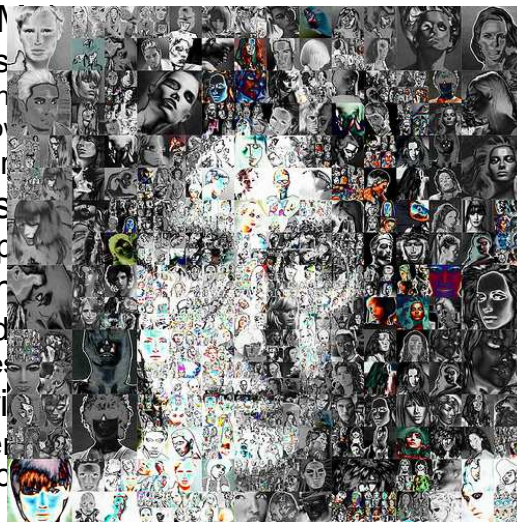
- Pre-judged
- Selectively interpreted
- Emotionally evaluated



professionally  
unicated in a  
manner

Human capital decides future of GMF in Malaysia

- Policy Makers
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provides

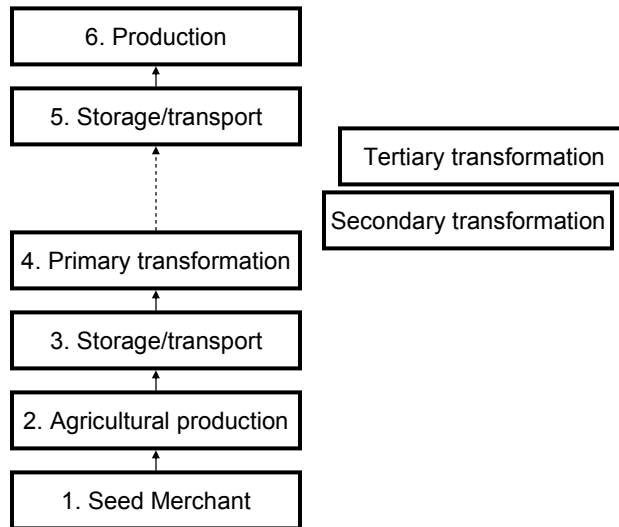
## GMF: Defining the safety of GMO key for food industry

- Authorised GMO.
- Authorised in country of origin but yet to be approved in Malaysia.
- Un-authorised GMO.

1. Technology is so “nano” that one can detect anything.
2. A pragmatic and science-based approach is needed.

Things that we have to do to  
classify GMF/non-GMF

## The GMF/non-GMF supply Chain



## GMF/non-GMF supply chain: Seed Merchant

- Procedure for seed processing to avoid contamination or mix-up of seeds.
- Purity of seed.



## GMF/non-GMF supply chain: Agricultural production

- Seed certificate from seed producer
- Lot identification of seed variety
- Field: geog distance to GM/non-GM
- Field: prec
- Separate o harvesting
- Standard p trucks
- Monitoring PCR
- Defined sampling proce



## GMF/non-GMF supply chain: Storage/Transport

- Certificate confirming preceding load
- Sealing of transportation unit or truck
- Guarantee of separate silos
- Procedure to avoid any contamination at point of transportation and storage
- Lot identification procedure
- Monitoring of GM materials by PCR
- Dedicated container or ships for overseas transportation.



## GMF/non-GMF supply chain: Transformation

- Lot identification of incoming goods
- Monitoring of GM materials by PCR
- Internal
- Zoning
- Cleaning lines of
- Sampling incoming goods
- Evaluation in laboratory
- Procedures for contamination transformation



## GMF/non-GMF supply chain: Final production

- Traceability of the incoming goods
- Sampling and analytical plan
- Corrective action and non conformity handling
- Internal audit procedure covering compliance to traceability and separation requirements
- Data records



It is a **HUGE** tasks require joint efforts by all stakeholders

## What matters?

**Our Bio-diversity?**

**Our health?**

**Our environment?**

**Our economy?**

**Our need to know?**

**Our?????**

**Must have**    **Nice to have**



In summary...

You & I as consumer will determine the future of food supply.

1. Food safety is paramount to industry.
  - Current GMO scenario requires pragmatic **decision** on authorised GMO by others, un-authorised GMO in market.
2. The key function of industry is to support national policies and by doing so, help to create job and a lively economy. If GMF classification is here to stay:
  - Local – science based, responsible communication by ALL stakeholders.
  - Export – policy support.

**Thank you for your attention**