Risk Management Risk Communication

FOOD WORLD INDIA - 2011

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Intent of Legislation

- Consolidation: Food Regulations
- ☐ Construction: Science Based Framework

Fundamental Shifts

Several Authorities

Single Authority

Adulteration

Risk Analysis

Opinion based

Science based

Inspection

Surveillance, Monitoring

Consolidation has happened

Prevention of Food Adulteration Act 1954 PFA Rules 1955

The Food Products
Order, 1955

The Meat Food Products Order, 1973

The Edible Oils
Packaging (Regulation)
Order 1998

Food Safety and Standards Regulations 2011

The Milk & Milk Products Order, 1992

The Vegetable Oil
Products (Control)
Order, 1998

The SE Oil, De-oiled meal, edible flour (Control) Order, 1967

Any other Order under Essential Commodities Act, 1955

Standards of Weights & Measures Act, 1976 Standards of Weights & Measures (Packaged Commodity) Rules, 1977 Infant Milk Substitutes, Feeding Bottles, Infant Foods Act 1992

Risk Based Framework

Construction



Risk Management -

- Policy setting
 - ALOP
 - Risk ranking
 - Populations at risk
- ☐ Risk Profiling
 - What is the context of the safety problem
- ☐ Option Assessment
 - Why 'preferred option' selected
- Monitoring Outcomes
 - Regulatory Impact Analysis
 - Is the 'Public Health outcome' achieved?

Food Safety & Standards Act - Mandate

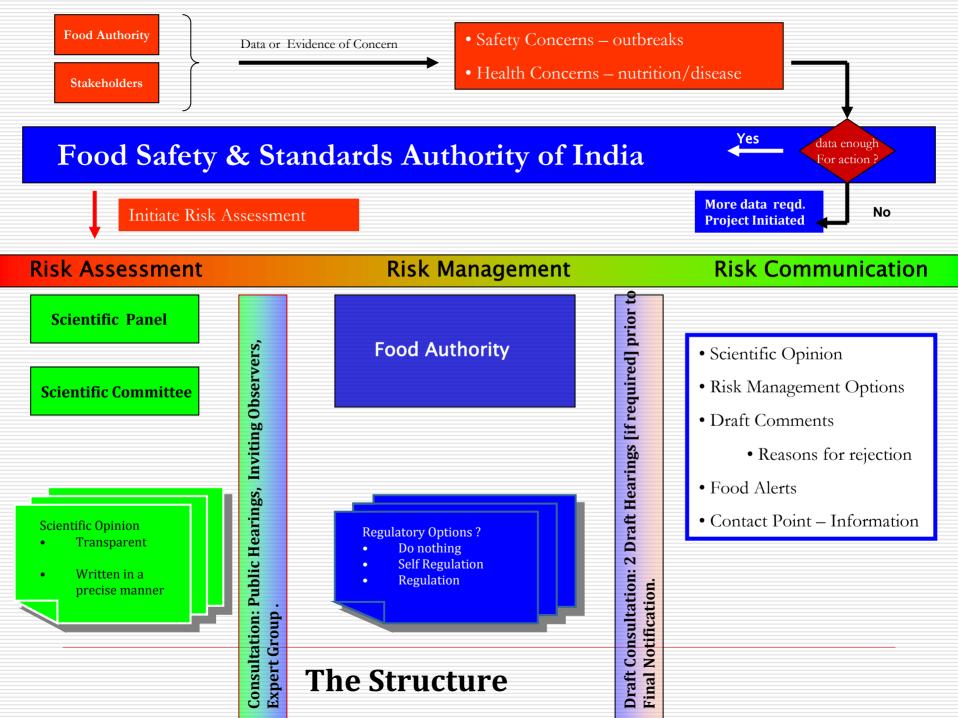
- ☐ The Act requires while framing regulations to:
 - Determine food standards <u>on the basis of risk analysis</u>
 [18(2)(b)]
 - Undertake risk assessment in an <u>independent</u>, <u>objective and</u> <u>transparent manner</u> [18(2)(c)]
 - Carry out risk management which <u>shall include</u> taking into account the <u>results of risk assessment</u> . . .[18(1)(b)]

From mandate to practice

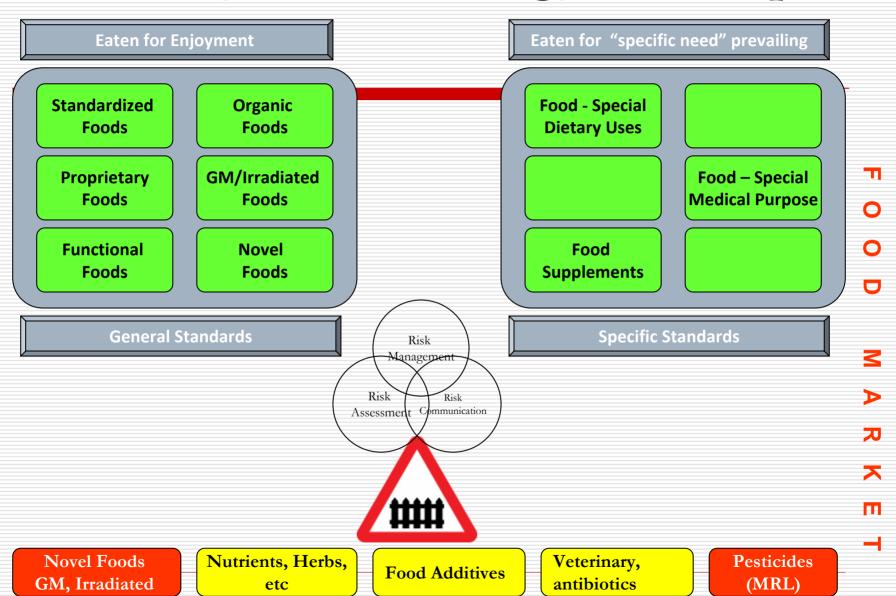
- ☐ Functional Separation (Para 17)*
 - Risk Assessment
 - Risk Management
- ☐ Functional Roles (Para 5.1)#
 - Scientific Committee/ Scientific Panels (Expert Groups)
 - Food Authority
- Performing the Roles
 - Delivering a Scientific Opinion (Para 13)#
 - Regulatory Impact Analysis [pg 4, 5, 16]*

*Document: FSSAI approach to drawing up /revision of Standards

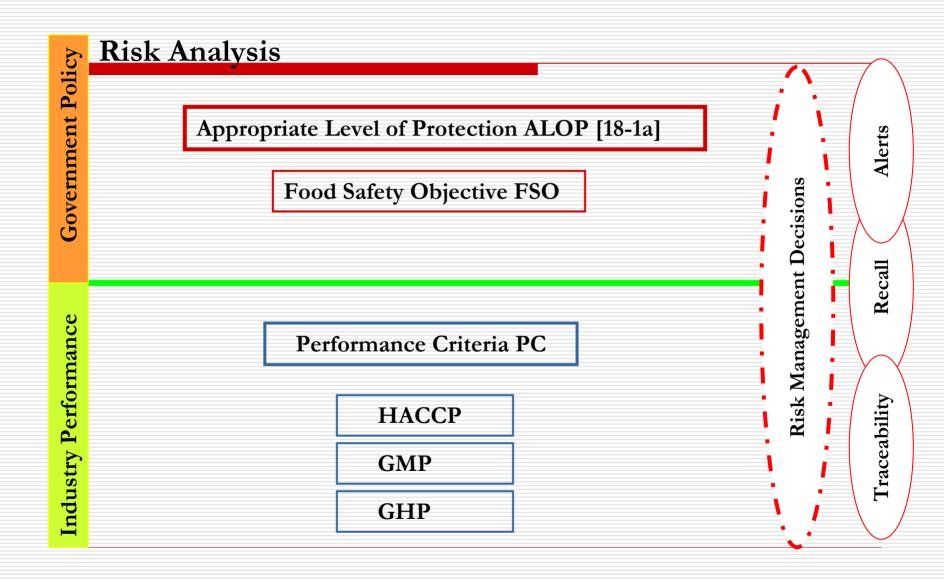
#Document: Working Procedures of Issues to Scientific Committee/Panel



Risk Analysis Methodology: The Scope



Food Safety Management System - Scope



Risk Management

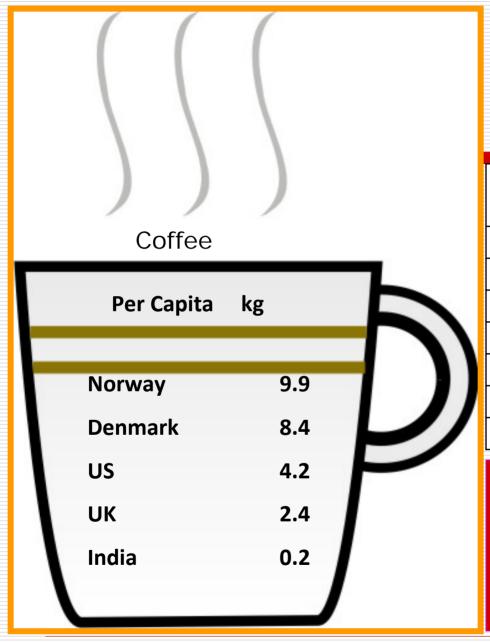
Considering rulemaking

Risk Management: Regulatory Options

Trans Fats

Year	DANISH FOOD AGENCY	US FDA
1991	No Action	No 'listing trans fats' on label
1994	Recommend reduced intake - EU	
1998	EU refuses action – lack of evidence	Ruled to include "Trans with SFA" label
2003		Ruled 'separate line for trans' label
	Reviewed evidence – meta analysis	Trans consumption ~ 5.8g/day
2004	☐ PRODUCT REGULATION	
2006		□ LABELING REGULATION

Harmonized with Codex



Risk Profile: Caffeine Intake

Table 2: Per Capita consumption of Company Products all carbonated beverages^{8.6}.

Country	No of Serves (250ml can)	
India	7	
China	28	
Japan	176	
UK	198	
Canada	237	
US	412	

- o Scientific Opinions
 - o FSANZ
 - o EFSA
- o Risk Management Options
 - o US/Canada/EU/Australia- New Zealand

Safety Context - Introduction of Energy Drinks

Regulatory Impact Analysis

Labeling added sugar: GSR 664

Total Available	17. 52 MMT, 2007*		
	On site	Packaged foods	Comments
Direct Household	6.75		HIG consume twice more than LIG
Industrial Consumption (5.26)		3.99*	*Carbonated drinks, bakery, confectionery, fruit drinks
Small Business/Coffee shops etc	5.51		3.25 alone by Halwais (58%)
Total Consumed	12.26	3.99	

3 times more consumption in sector where labelling rules have no writ

Country	Per Capita, Kg		
	Biscuit	Chocolate	
India	2.1	0.3	
EU	10	10	

^{*}AC Nielsen Survey 2007: KPMG Analysis

Risk Communication - Purpose

- o Establish Scientific Authority
 - o 'Food scares' are popular news
 - o E.g. GM Foods
 - o Trans fats,
- o Gain Consumer Confidence
 - Why Countries have different Standards
 - o Exposure analysis
 - o Dietary practice

Challenges in Risk Management

- ☐ A Food Safety Management System
 ☐ Not only for 'packaged foods'
 - ☐ More people are eating 'out' or 'on the move'
- ☐ Newer Technologies
 - ☐ GM Foods, Nanotechnology
 - ☐ Novel Foods
- ☐ Global Supply Chains
 - ☐ Cross country contaminations
 - ☐ Exotic risk issues

Risk Management is about..

Improving Health & Safety Outcomes



Thank You

"Washington is a town where people say they are for science-based decision making until the overwhelming scientific consensus leads to a politically inconvenient conclusion."

Sherwood Boehlert: Chairman: House Science Committee, US