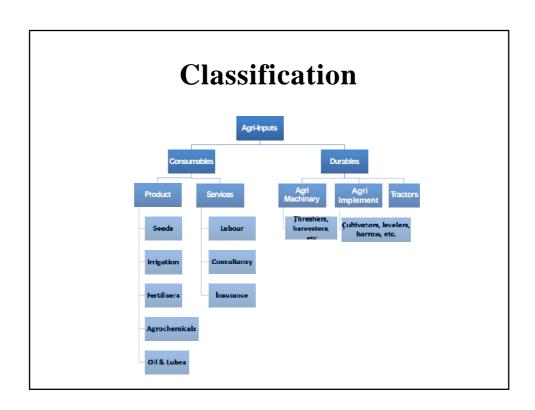
Agri – Input Marketing

Understanding Agri-Input Market

- Classification
- Nature of demand
- Marketing environment
- Marketing mix



Nature of Demand

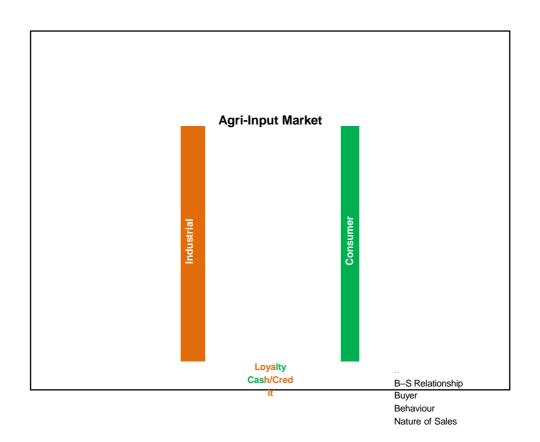
• Derived

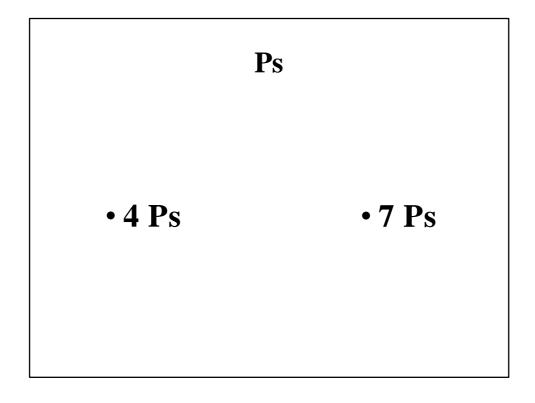
- Dynamic
- Complementary Recurring
- Dependant
- Seasonal
- Relatively inelastic

Characteristics

Industrial goods

Consumer Goods





7Ps 7Cs

4Ps - Marketing Mix

• Price

- Both industrial and agri-inputs share similar response
- Both the users are concerned about quality and price. Balance

• Product

- Both users are more concerned and interested to know the tech. aspects and performance
- Both seek product knowledge and advisory

4Ps - Marketing Mix

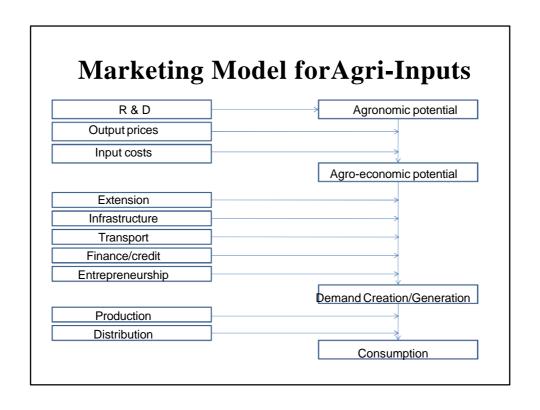
• Place

- No. of channel members
- Network intensity
- Role of channel members
- Demand creation/generation by channel

• Promotion

- BTL Vs ATL
- Intensity

Characteristics						
	Consumer	Industrial	Agri- Inputs			
Product		*	*			
Place	*		*			
Price	*		*			
Promotion	*	*	*			
People		*	*			
Physical Env.		*	*			
Process		*	*			

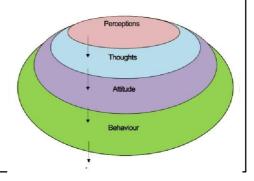


Marketing Environment

- Farmers perception
- Demand creation
- Consumption

Farmers Perception

- Why does the farmer use inputs
 - Usefulness
 - Agronomic potential
 - Derived
 - Complimentary
 - Package
 - » Demand?



AModel of Product Importance SOURCES IMPORTANCE TYPE RESPONSES Consumer Enduring Importance Responses Instrumental Importance Responses

Demand Creation/Generation

- Demand
 - Input cost
 - Input price
 - Input cost
 - Incremental output value
 - cost
 - Agro-economic potential of the Agro-input

Demand Creation/Generation

- Strategies
 - Pull or Push

 - •
 - •
 - Consumer oriented or Trade oriented

Distribution

• Example Fertilizer Sold in 2016-17 541.69 LMT

- No of products - 10

No. of Companies : 160

No. of Wholesalers

-Packs-6

- Regions/states -10- Dealers - 17207 No. of Retailers : 263939

- Farmers - 9.87 million

- 2 times a year

http://mfms.nic.in

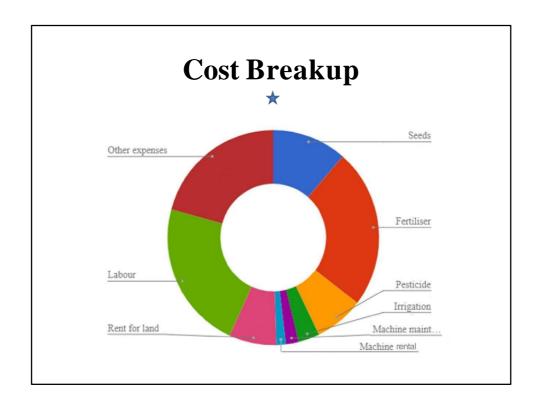
: 22370

Fertilisers

Agribusiness

Input Business Output Business

- Agrochemicals
 - PPC
 - Insecticides
 - Fungicides
 - Antibiotics
 - Nematicide
 - Herbicides
 - PGR
- Fertiliers
- Seeds
- Machinery
- Finance

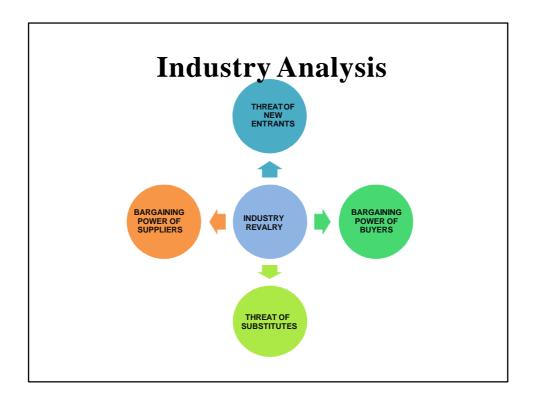


Fertilisers

Synthetic or natural products applied to soil or to the foliage, supply certain essential nutrient to the plant for nutrition and growth are known as Fertilisers, Chemical Fertilisers or Commercial Fertilisers.

Salient Features

- Contributes 40-50% of the agricultural productivity
- 3rd highest fertiliser production
- Over 120 units
 - -57 -Large
 - -64 Medium



Classification

- Source
 - Organic
 - Inorganic
- Physical property
 - Solid
 - Liquid
- · Packaging/Usage
 - Bulk
 - Specialty

- Ingredients
 - Complete
 - Incomplete
- Chemical Property
 - Straight
 - Mixed
 - Complex

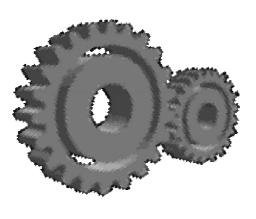
What?

- What is the need for fertilisers?
- What is the need of the plant/crop?
- What is supplied by the fertilisers?

Industry Makeup

- Consumer/Customer
- Channel
- Importers
- Manufacturers
- State Governments
- Government of India

Industry Evolution



THE PAST 50 YEARS

- Famine of 50s

- Ramme of 508
 80% population dependent on agriculture
 Contribution of agriculture to GDP-50%
 National insult PL 480
 Need to embark on crash programme on all fronts

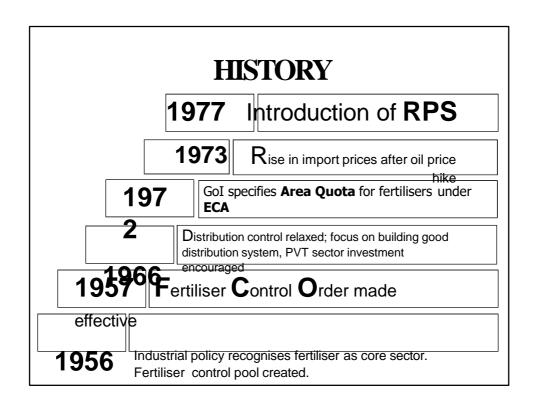
Policy Requirements

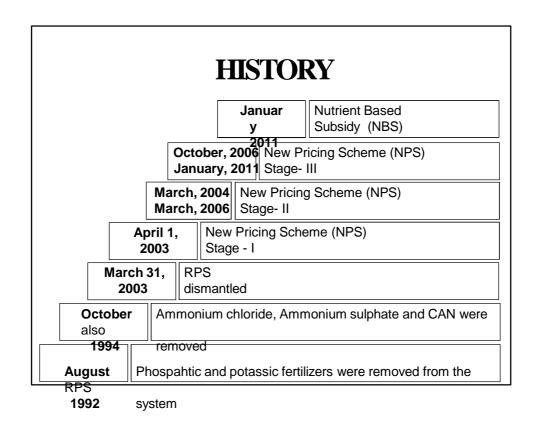
- Land reforms & consolidation
- Development work on seeds

- Irrigation Fertilizers Infrastructure

THE PAST 50 YEARS POLICY REQUIREMENT

- Development work on seeds
- Irrigation
- Fertilizers
- Infrastructure



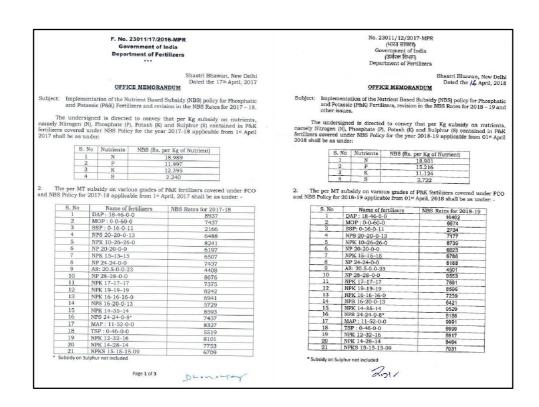


RETENTION PRICE SCHEME

- Recommended by Marathe Committee
- RPS Introduced in Nov.1977
- RPS covered N and Pfertilizers.
- Aimed at providing secured environment to attract investment

RPS - Salient Features

- Unit specific retention price fixed
- Cost of raw material, utilities and conversion cost determined and fixed
- Capital related charges included
- Cost determination at normative level
- Pricing period cycle 3 Years
- Escalation de escalation considered quarterly



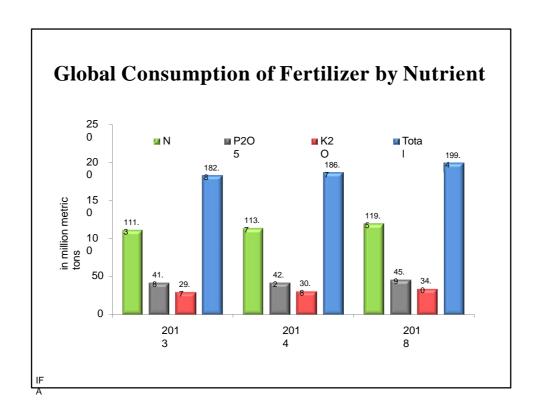
Grades of Fertilizers					
DAP: 18-46-0-0	14-28-14-0				
MAP:11-52-0-0	14-35-14-0				
TSP: 0-46-0-0	15-15-15-0				
MOP: 0-0-60-0	AS: 20.3-0-0-23				
16-20-0-13	20-20-0-0				
20-20-0-13	28-28-0-0				
23-23-0-0	17-17-17-0				
10-26-26-0	19–19–19-0				
12-32-16-0	SSP(0-16-0-11)				

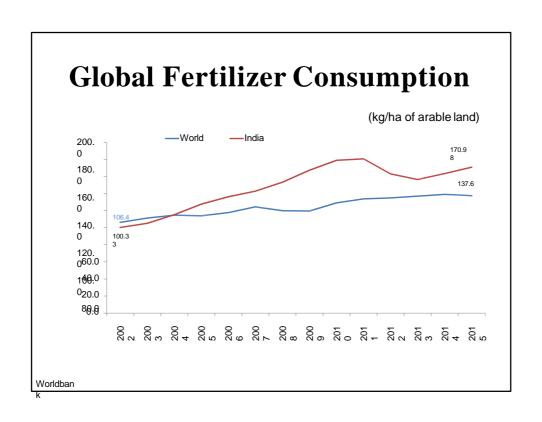
Grades of Fertilizers				
DAP (18-46-0-0)	15-15-15-0			
MAP (11-52-0-0)	17-17-17-0			
TSP (0-46-0-0)	19-19-19-0			
MOP (0-0-60-0)	Ammonium Sulphate (20.6-0-0-23)			
SSP (0-16-0-11)	16-16-16-0 (w.e.f. 1.7.2010)			
16-20-0-13	15-15-15-9 (w.e.f. 1.10.2010)			
20-20-0-13	24-24-0-0 (w.e.f. 22.6.2012)			
20-20-0-0	DAP Lite(16-44-0-0) (w.e.f. 1.2.11)			
28-28-0-0	24-24-0-8 (wef 12.11.13 to 14.2.15) without subsidy on S			
10-26-26-0	DAP 4S (w.e.f. 25.2.13 to 7.11.13) without subsidy on S			
12-32-16-0	DAP Lite-II(14-46-0-0) (w.e.f. 30.8.2011 to 29.8.2012)			
14-28-14-0	MAP Lite (11-44-0-0) (w.e.f. 30.8.2011 to 29.8.2012)			
14-35-14-0	13-33-0-6 (w.e.f. 30.8.2011 to 29.8.2012)			

S.No	Particulars
1	Krista – K (KNO ₃)
2	CaNO₃
3	19:19:19
4	20:20
5	SOP (0-0-50-17)

MICRONUTRIENTS

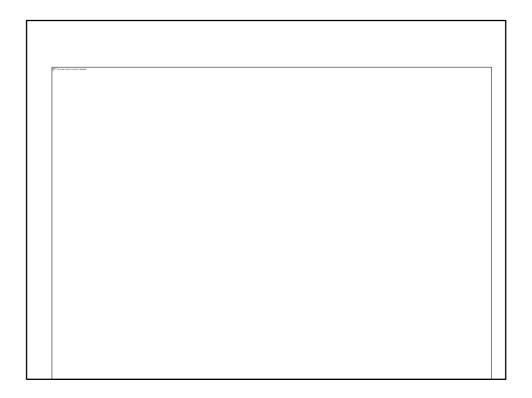
S.No	Particulars
1	Photosal Garden mix
2	Rose mix
3	Micronol
4	Jayamin
5	Coconut micronutrient
6	Zinc Sulphate
7	Copper Sulphate
8	Magnesium Sulphate
9	Manganese Sulphate
10	Ferrous Sulphate
11	Neem cake
12	Borax (10 %)
13	Borax (20 %)





Regional and Subregional share of World Increase/Decrease in Fertilizer Consumption &								
		Supp	ly, 20	14-2	2018 P	P	K	K
Africa		IN	IN		-	-	K	K
North Africa		2.5	19.7		2.1	37.4	0.5	
Sub-Saharan Africa		5.4			2.0		5.3	
Americas								
North America		4.8	14.1		2.7	-6.6	2.2	53.3
Latin America &		17.6	7.4		26.1	3.7	24.3	
Caribbean								
Asie t	57.	4.1	8.1	57.	7.3	24.9	56. 1.2	
Asia	7	24.5	3.4	6	31.3	2.6	32.0 19.3	
Eas thAsia	42.	29.1	30.6	62.8	19.0	35.3	35.8	12.0
£8iβope	1							
Central Europe		3.3	0.9		2.9		2.8	
West Europe		-1.5			0.3		2.0	-0.5
East Europe & Cent Asia	ral	9.0	16.0		5.9	3.0	6.0	34.8
Oceania		1.3	0.4		0.5		0.4	

http://www.fao.org



Production and Reserves of Potash

Country	Production	tonnes Reserves	
Canada	12.0	1,000	
Russia	7.2	500	
Belarus	6.4	750	
China	6.2	360	
Germany	2.9	150	
Israel	2.2	270	
Jordan	1.3	270	
Chile	1.2	150	
Spain	0.7	44	
United States	0.5	210	
United Kingdom	0.5	40	
Brazil	0.3	24	
Other countries	0.5	90	
World total	42.0	3,900	

Industry Drivers

- Government Policy
 - EXIM
 - Subsidy
 - FCO
 - Output Market
- Production
 - Raw Material
 - Location

- Marketing
 - Distribution
 - Primary
 - Secondary
 - Warehousin g
 - Seasonality

Government Policy

- EXIM Policy
 - Import
 - Export
- Subsidy
 - Production
 - Transport
 - Payment

- ECA
 - FCO
 - · Grades
 - · Quality
 - MRP
 - Movement
- Output Market
 - Policy
 - Regulated markets
 - Traders
 - MSP

Government Policies

- Essential Commodity Act 1955
- Fertiliser Control & Movement Order 1985
 - Production
 - Packaging
 - Movements
 - Labeling
 - Selling
 - Reporting
- The Legal Metrology Act, 2009 # No. 1 of 2010
 - The Standards of Weights And Measures Act -1976

•



Production

- · Raw Material
 - Sourcing of Raw Material
 - Imported RP, S and MOP
 - Quality, Cost, Time
 - Production Efficiency
 - Use of cheap and efficient technology
 - The value addition very limited
- Geographic
 - Location of Plant
 - Complex units limited to east & west coast
 - Urea units in the East (3.15) North (79), West (95) and South India (30) Lakh MT
 - Markets Across the country



Inventory

The Necessary Evil

- Inventory Management
 - Cost of warehousing
 - Cost of capital
 - Opportunity cost
 - Deterioration of quality
 - Physical Quality
 - Chemical Quality

Channel

- Questions
 - How to reach the consumers
 - How to control costs and save time
 - How to build a competitive advantage
- Decisions
 - Types
 - Indirect distribution
 - Direct distribution
 - · Intensive distribution
 - · Selective distribution
 - Exclusive distribution
 - Development
 - Management
 - Service
 - Motivation
 - Conflict

Credit

- · Channel Credit
 - Assessment no records available
 - Geographic location
 - Dealer
 - Personal standing
 - Period in business
 - Type of firm proprietor, partnership, etc
 - Types of business multiple business
 - Infrastructure
 - » Warehouse Nos. & capacity
 - » Vehicles
 - » Manpower skilled, semi-skilled & unskilled

Credit contd...

- · Sales Retail Vs Wholesale
 - Financial
 - » Own investment
 - » No. of banks operating
 - » Banker opinion
 - Past record U and others
 - » Sales volume
 - » Payment schedule
 - » Relationship
- Limit finalisation
- Control
- Indicators
 - · Delay in payment
 - · Cheque dishonour
 - · Under cutting
 - Diversification no synergy

Market Scenario

- Channel
 - Investment is shrinking
 - Number of players increasing
 - Profit margins reducing
- Farmer Purchasing power
 - · Very poor growth rate
- Customer spread
 - 593 Districts
 - · 6.38 lakh villages
 - · 1273 Lakh farmers

- Changing requirements
 - Dependant on crop
 - Crop coverage climate, price etc
 - · Soil status
 - Season
 - Government policy
 - Restrictions

TRENDS

Focus is shifting from maximizing yield

to

maximizing value by meeting a specific quality standard with a minimum of reject.



Quality

2

Focus is shifting from single products to creating value through a balanced, crop specific plant nutrition concept



3

Crop Competence will become more and more crucial, but even more so the capacity to transmit the superior knowledge to the end user (the farmer)





4

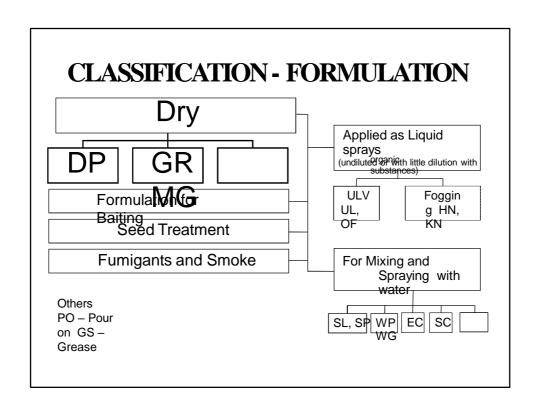
Environmental and ecological factors gain importance

- Will lead to continued growth in fertigation (5-6% p.a)
- Could mean a clear growth in foliar application as means of optimal application
- More attention to localised inputs such as placement
- Continued focus on transparency in the value chain

Agrochemical & Crop Protection Industry

CLASSIFICATION

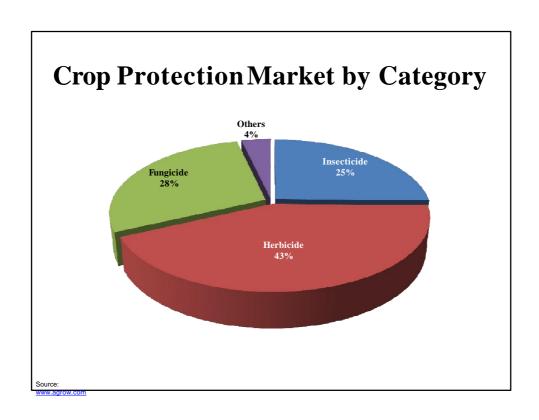
- · Chemical Nature
 - Organic
 - Natural Rotenone and pyrethrum
 - Synthetic permethrin, malathion, glyphosphate etc
 - Inorganic
- · Target Pest
- Chemistry
 - Organochlorines Chlordane, DDT
 - Organophosphates Malathion
 - Carbamates Propoxur
- · Mode of Action
 - Stomach toxicants
 - Contact toxicants
 - Fumigants
 - Systemic toxicants
 - Chemical repellents

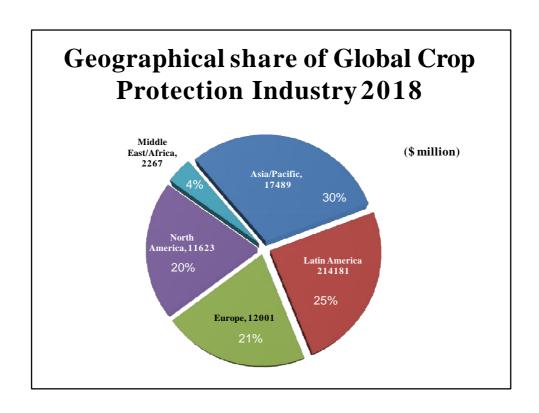


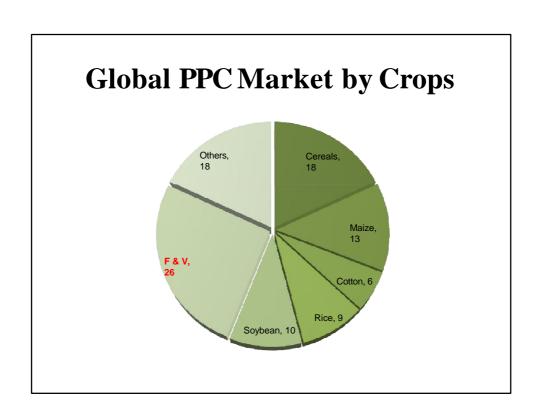
Global Agrochemical Market

(\$ million)

Market segment	2017	% change	2018
Crop protection	54,319	5.6	57,561
Non-crop pesticides	7,311	3.0	7,538
Total	61,630	5.3	65,099





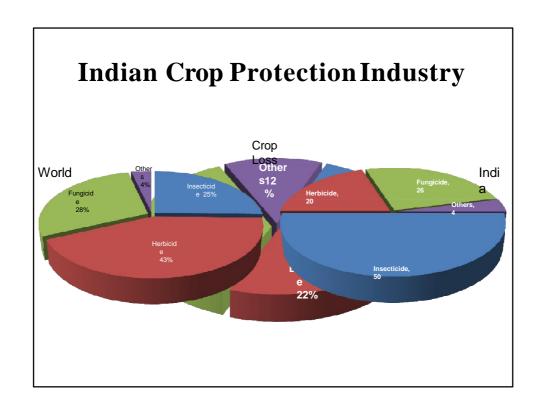


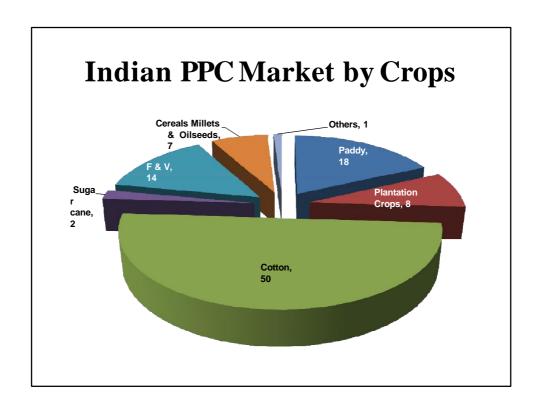
Industry Structure

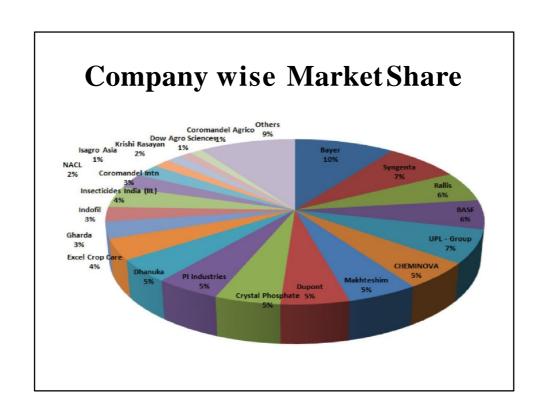
- Agrochemicals
 - Technical grade manufacturers 125,
 - Formulators 800 and
 - Distributors 1,45,000
 - 4th Largest producer
 - Major exporters of agrochemicals

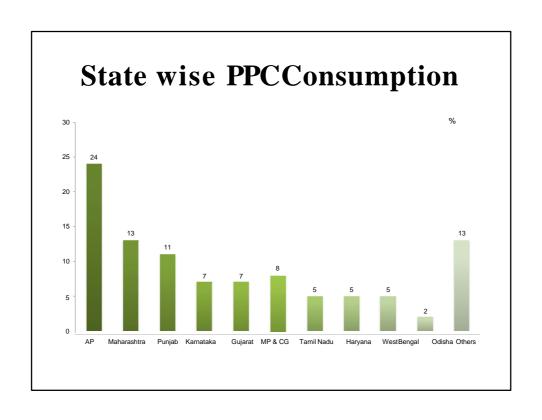
India

- About 20%-40% crop production is lost due to insects, weeds and diseases.
- Crop protection chemicals usage is one of the lowest and erratic in the global scenario.
- Consumption of pesticides in
 - India is 0.6 Kg/ha as compared to
 - World average is 3kg/ha.
 - Highest is 17kg/ha.





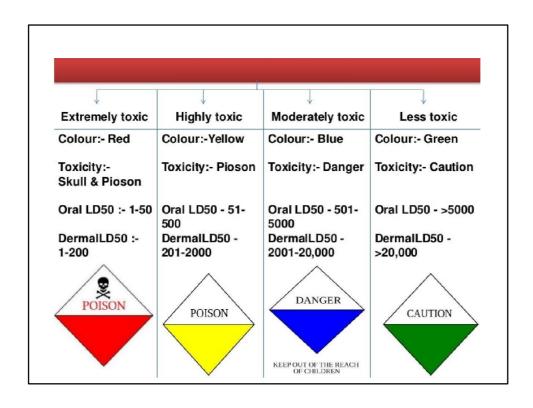




- It can take
 - 10 years and
 - cost over € 200 million to turn an interesting molecule into a product that farmers can use.
- What's more, there are no guarantees. A potential product can fail at any point along the way 1:1,00,000 rule.

Laws & Acts

- The Insecticides Act, 1968 and
- Insecticides Rules, 1971
 - Regulate the import, registration process, manufacture, sale, transport, distribute and use of insecticide in India
- <u>Central Insecticides Board & Registration</u> <u>Committee (CIB & RC)</u>
 - All insecticides (pesticides) have to necessarily undergo the registration process before they can be made available for use or sale.



Other Uses

- Pest Control Services
 - Household pest control
 - Fly
 - Rodents
 - Mosquito
 - Ant
- Disinfestation of
 - Ships
 - Aircrafts
 - Trains
 - Buses
- Stored grain pest control/management

Indian Seed Industry

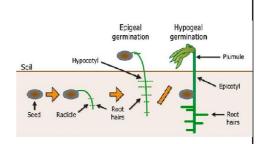
Definition

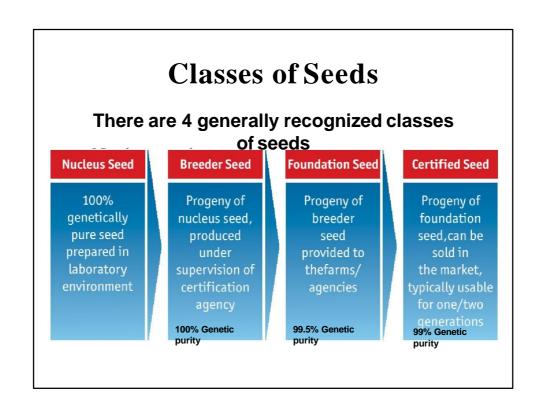
- Any part of the plant used for crop cultivation may be defined as seed in agriculture.
- Botanically
 - A seed may be define as a mature ovule consisting of an embryonic plant (dormant) together with a store of food, all surrounded by a protective coat.

Classification

- Agriculture
 - True seed
 - Vegetative seed
- Cotyledons

 - DicotyledonousMonocotyledonous
- Germination
 - Hypogeal
 - Epigeal
- Botanically
 - Naked seed
 - Covered seed



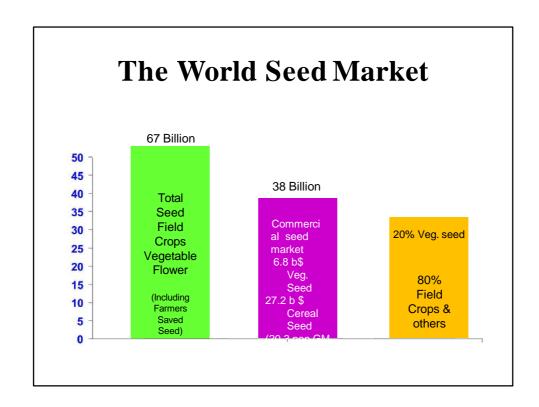


Certified & Truthful Labeled Seed

Certified seed	Truthfully Labeled Seed
It is the progeny of foundation seed.	Produced by cultivators, private seed companies.
Certification is voluntary. Quality guaranteed by certification agency.	Truthful labeling is compulsory for notified kind of varieties
Applicable to notified kinds only	Applicable to both notified and released varieties
It should satisfy both minimum field and seed standards	Tested for physical purity and germination
Seed certification officer, seed inspectors can take samples for inspection	Seed inspectors alone can take samples for checking the seed quality.

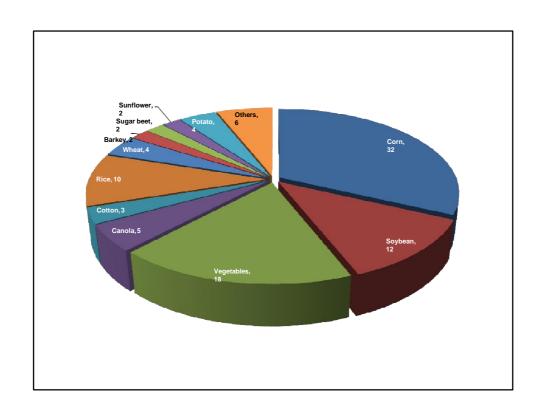
Global Scenario

- Increasing global seed market
- Growing use of hybrid seed
- Growing international seed trade
- Increasing number of regulations
- Increasing number of multinational companies



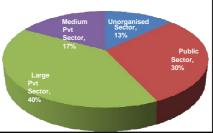
The World Seed Market

- Market estimated to grow at same rate crossing USD 92 billion by 2020
- USA, France, China, Brazil and India contributing to 70 % of total global market
- International seed business grown three times over last decade



Indian Scenario

- Fifth largest seed market -5% of global market
- Growth rate of 12%
- Dominated by open pollinated seeds
- Approx. 200 Pvt Co & 14 Govt. organizations
- Total Seed Industry is worth about 14000 cr
 - Cereal 6000 cr
 - Cotton -2000cr
 - Rice OP and hybrids 1000 cr
 - Maize 800 cr
 - Vegetable 1500 cr



The Seed Industry - A Time Line

• Pre independence

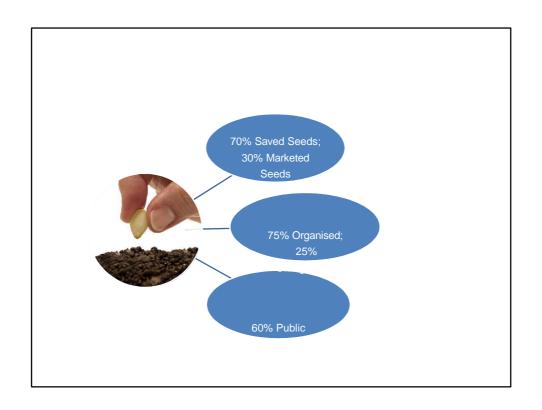
- No organized seed production
- Very few seed companies—Suttons and Sons in Kolkata
- Royal commission of Agriculture (1925) recommended spread of improved varieties and seed distribution

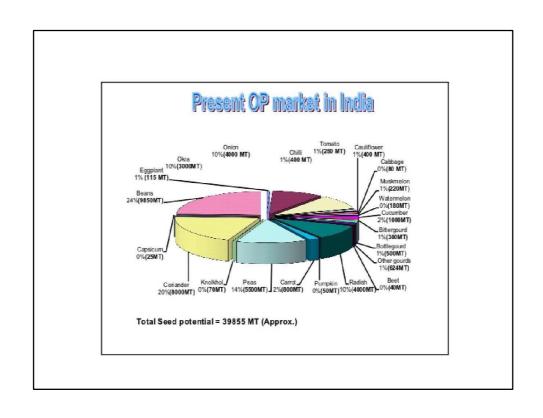
Post independence

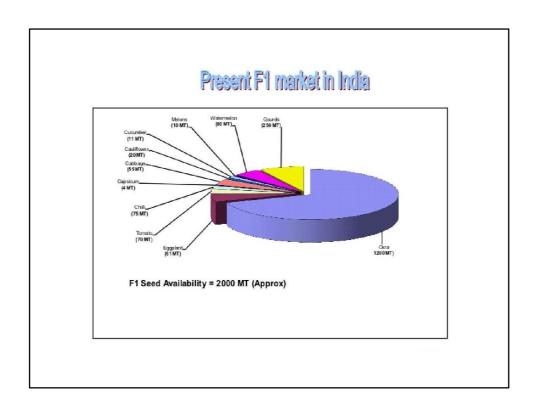
- National Seed Corporation (NSC) in 1963
- The Seeds Act, 1963 (1966)
- New Seeds Policy, 1988

Public vs. Private

- The Indian public sector seed industry used to dominate the private sector in the very beginning
- The situation is quite reversed currently
- Seeds of the private hybrids are forming a significant portion of the total vegetable seed market
- Most of the public sector varieties and hybrids are replaced by private sector varieties and hybrids, seed production of which is solely done by the particular manufacturers





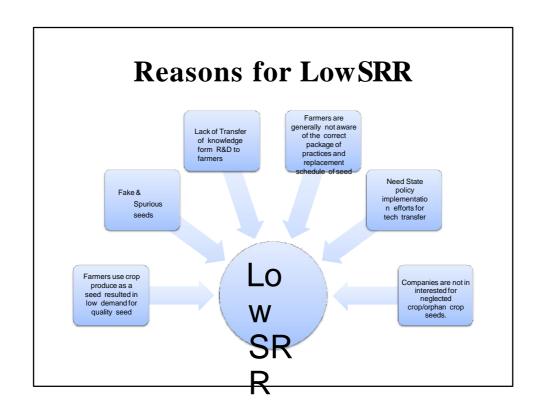


Concerns

- Long production time
- Very wide range of requirement
- Cumbersome registration process
- Markets very competitive
- · Seasonal demand
- Perishable product line
- Vulnerable to environmental forces
- Quality assurance
- Cash flow –long
- Inventory management
- Unlike cereals, vegetable seeds are not the edible portions
- Large area of land for seed production

SRR in Different Crops and States

Crop	National	Highest SRR		Lowest SRR	
Стор	Average SRR	%	State	%	State
Paddy	33	82	AP	9	Uttarakhand
Wheat	25	42	Maharashtra	11	J&K
Maize	50	100	Karnataka	5	Orissa
Jowar	26	65	AP	11	Tamilnadu
Bajra	63	100	Gujarat	29	Karnataka
Sunflower	43	100	AP	8	MP



Terminator technology

- Terminator technology is the genetic modification of plants to make them produce sterile seeds. They are also known as suicide seeds.
- Patented in the US by subsidiary of Monsanto – Delta and Pine Land Company
 - GURTs Genetic Use Restriction Technologies
 - V-GURTs-terminator technology
 - T GURTs traitor technology

PPVR & FR

- Act passed in 2001
 - Right 1: Access to seed
 - Right 2: Benefit sharing
 - Right 3: Compensation
 - Right 4: Reasonable seed price
 - Right 5: Farmers' recognition and reward for contributing to conservation
 - Right 6: Registration of farmers' varieties
 - Right 7: Prior authorization for the commercialization of essentially derived varieties
 - Right 8: Exemption from registration fees for farmers
 - Right 9: Farmer protection from innocent infringement

Seed Testing

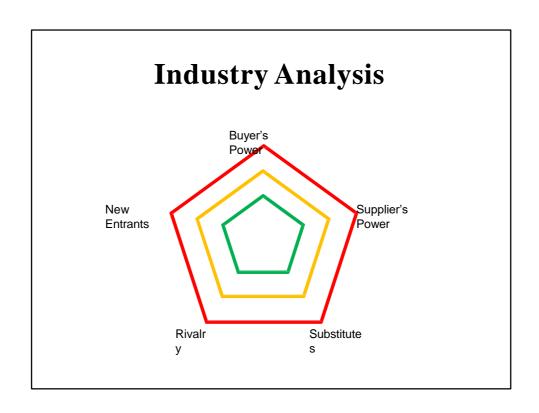
- Sampling
 - Field
 - Laboratory
- Analysis of seed in the laboratory
 - Purity analysis of seed lot is considered under two factors
 - Testing the cleanliness of seed lot and
 - Testing the geneuiness of the cultivar genetic purity

 Morphological Tests Grow out test

 Chemical Tests

 Biochemical Tests Electrophoresis

 Molecular markers Gene / DNA
 - Test Wt.
 - Moisture
 - Viability TZtest
 - Germination and
 - Vigour



Seed Regulation in India Seed Regulations & Seed Key Points related laws in India Seeds Act (1966) Passed by the Indian Parliament in 1966 was designed to create a 'Climate' making good quality seed available to cultivators. The major legislative measures involved under the Act are Seeds rules framed in 1968, Seeds (Control) order, formulated in 1983 after including seeds as an essential commodity. Seeds of food crops, oil crops, cotton seeds, seeds of cattle fodder and all types of vegetative propagating material are included under the act. A total of twenty five clauses have been mentioned in the act. The legislation could be broadly divided into two groups i.e. Sanctioning legislation and Regulatory legislation. Post the enactment of Seed Act in 1966 and framing of seeds rules in 1968 amendments were brought to the Seed Act in 1972, 1973, 1974 and 1981. Seeds (Control) Order, 1983 The inclusion of seeds as an essential commodity item under the Essential Commodity Act, 1955 brought the Seeds (Control) Order. The ministry of civil supplies earlier has declared the seed for sowing or planting materials of food crops, fruits, vegetables, cattle fodder and jute to be essential commodities in exercise of power conferred by Section 2(a) of Essential Commodities Act, 1955. The order confers power to the Central Govt. to control, and regulate production, supply and distribution of essential commodities

Seed Regulations & Seed related laws in India	Key Points	
New Seed Development Policy (NSDP) 1988-89	The New Seed Development Policy was formulated to provide India farmers with access to the best available seeds and planting materials of domestic as well as imported quality. The policy permits the import of selected seeds under Open General License (OGL), to make available to the farmers high quality seeds to maximize yield and productivity. The policicallows import under OGL of items such as seeds of oilseed crops, pulses coarse grains, vegetables, flowers, ornamental plants, tubers, bulbs cuttings and saplings of flowers.	
Protection of Plant Varieties	The Protection of Plant Varieties and Farmers Rights Act, 2001 (and rules	
and Farmers Right Act, 2001	which were released in 2003), provide for the protection of intellectual property rights of seed manufacturers, who are required to register /notify the seed which they want to be placed under protection. After due diligence and establishment of the fact, protection is granted to the variety for a period of 15 years. This legislation ensures not only the protection or intellectual property rights of the company incurring the cost of research and development (in the market at large), but also those of the farme whose land is being utilised for the production of the concerned seeds.	
National Seed Policy, 2002	National seeds policy was formulated in the year, 2002 to provide an appropriate climate for the seed industry to utilize available and prospective opportunities, safeguarding the interest of farmers and conservation of the biodiversity. The policy raised India's share in the global seed trade by facilitating advanced scientific aspects such as biotechnology to farmers and as a result, in March 2002, the first transgenic Bt. cotton was	

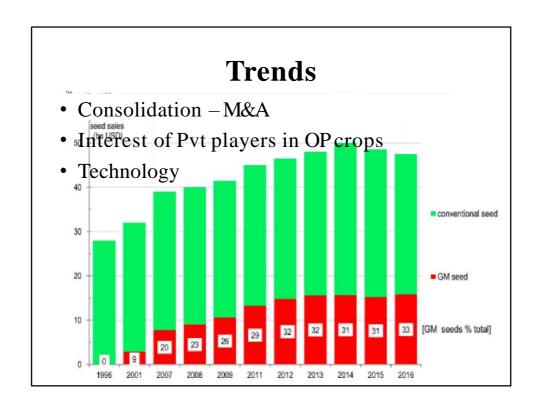
Seed Regulations & Seed related laws in India	Key Points
Protection of Plant Varieties	The rules were enforced for the smooth implementation of the Act, 2001
Rules, 2003	The
	rules provide detailed procedures while applying for protection, ways o
	administering the national gene fund, procedure on application for
	compensation, procedure to alter the denomination of a registered variety
	procedure for cancellation of certificate and all other procedures to be
	implemented as per the provisions given in the PPV & FR Act, 2001
Seed Bill 2004	With a view to repealing and replacing the Seed Act 1966, the Seed Bil
	2004
	was introduced. Among others, one of the notable exemptions provided ir
	the Bill with regard to farmers' seed was: "Nothing in this Act shall
	restrict the right of the farmer to save, use, exchange, share or sel
	his farm seeds and planting material, except that he shall not sel
	such seed or planting material under a brand name or which does
	not conform to the minimum prescribed limit of germination
	physical purity, genetic purity". An amended Seed Bill was introduced
	in 2008 has not been enacted thus far. Therefore, the Seed Act 1966 and
	its amendments are still in force.

Bill 2004 and PPV & FRAct, 2001

Seed Bill 2004	PPV & FR Act, 2001	
Farmer has to claim compensation from a	Farmer get compensation from the PPV	
consumer court and redressal under the	authority which is all the more simpler	
Consumer Protection Act, 1986		
Does not require the declaration of origin of	Requires the declaration of origin of variety	
variety along with pedigree details	along with pedigree details	
Does not grant any recognition to the	Provides rewards for farmers contribution	
contribution of farmers	and	
	also the benefit sharing	
Seed dealers are not under any obligation to	Provides compulsory licensing which	
provide reasonable seed supply to farmers	safeguards	
	the interests of farming community to ensure	
	adequate seed supply at reasonable price	
	on the Government.	
Grant of provisional registration is	No such provisions have been given	
considered a	_	
major draw back		

Statutory bodies of Indian Seed Industry

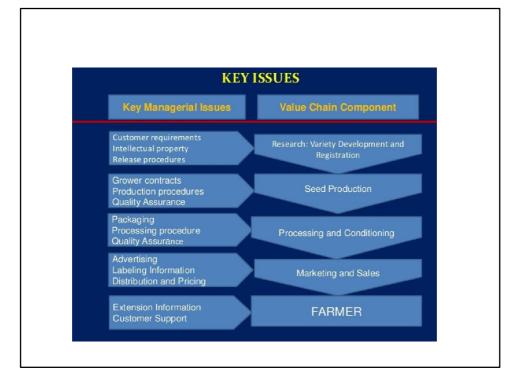
Statutory Body	Function
State Seed Certification Agencies (SSCA)	Responsible for seed certification in the concerned states. Make field inspections and conduct seed
	tests required for seed certification.
Central Seed Certification Board (CSCB)	Advises the state governments and their SSCAs on the
	matters of seed certification.
State Seed Certification Board (SSCB)	Supervises the activities of its SSCA.
Protection of Plant Varieties and Farmers Rights	Central body that sets distinctiveness, uniformity
Authority (PPV & FRA)	and
	stability (DUS) test guidelines for the registration of
	57 crop species covering cereals, pulses, millets,
	oilseeds, spices, vegetables, flowers, medicinal
	plants and fibre crops. The authority receives
	applications under three broad headers; new
	varieties, existing or extant varieties which existed
	prior to the existence of the Act, and farmer
	varieties.
National Seed Research and Training Centre	Located at Varanasi and is the Central Seed
(NSRTC)	Testing
	Laboratory (CSTL) under Seeds Act and also a
	Referral laboratory for courts in India.

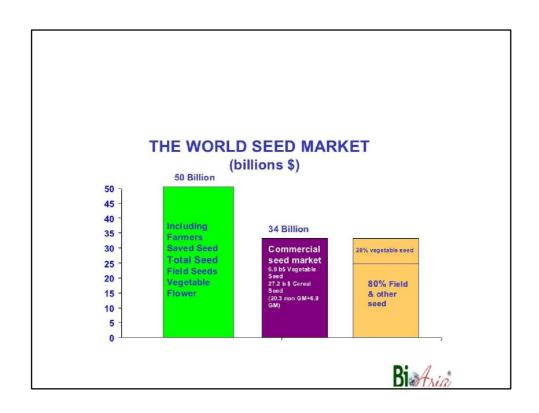


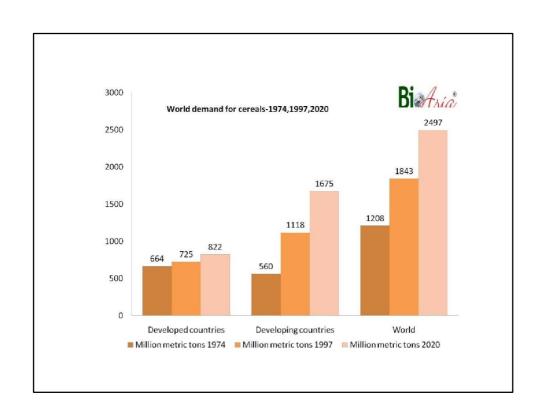


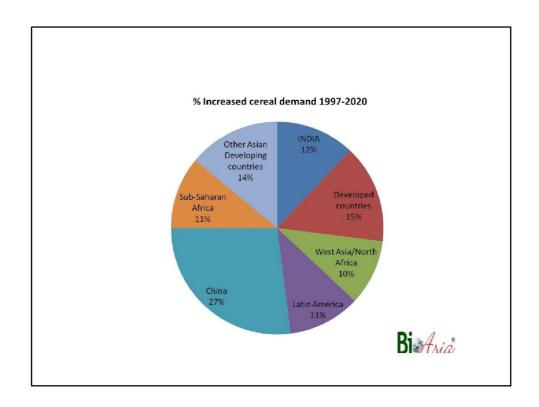
Opportunities for seed business

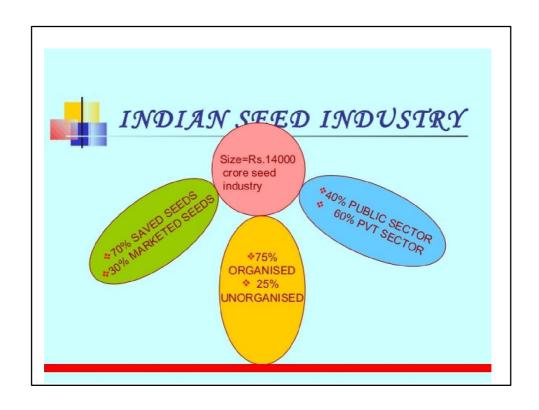
- Seed Replacement Rate is around 25% huge gap in quality seed requirement
- Quality seeds will be main drivers of crop production
- Need for development of improved technologies
- Integration with other inputs like crop nutrition and protection
- Several business opportunities in each stage of the seed value chain

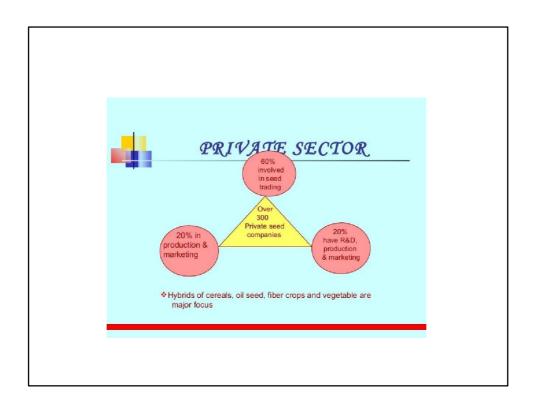
















SEED INDUSTRY

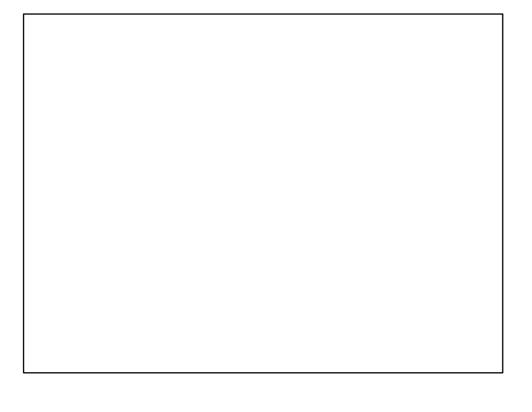
- INCREASING SRR.
- FAST HYBRIDIZATION .
- MORE GMO CROPS.
- HYBRIDS MUST BE DISEASE RESISTANT BESIDE OTHER VALUE ADDITION.
- AWARENESS AMONG FARMERS INCREASING.

FOCUS ISSUES OF FUTURE

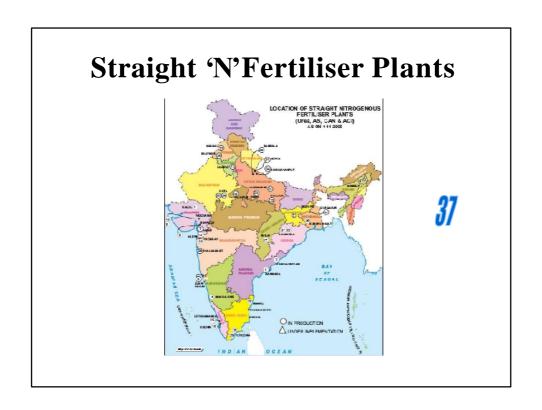
- QUANTITY vs. QUALITY
- VOLUME vs. VALUE
- GMO vs. NON GMO
- SUBSISTENCE vs. COMMERCIAL
- AGRICULTURE vs. INDUSTRY

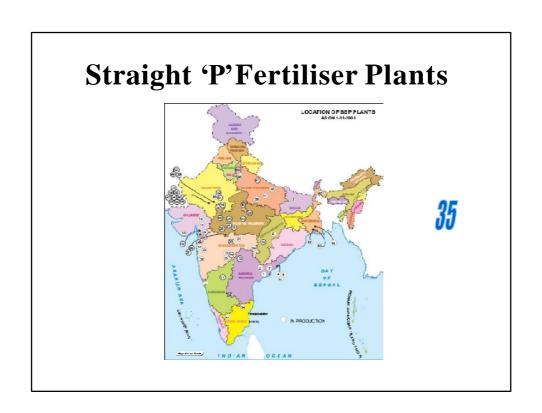


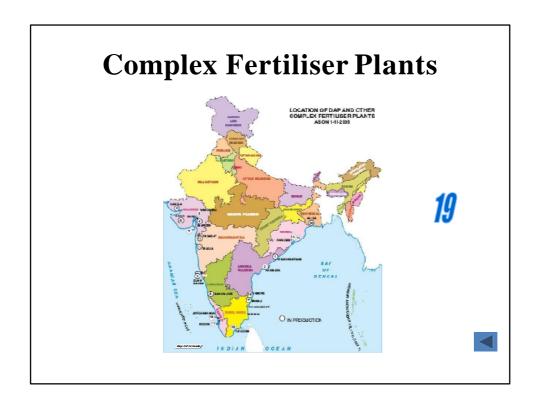




- 1. Buyer/User Behaviour
- 2. Market Segmentation
- 3. Product Management
- 4. Pricing Management
- 5. Brand Management
- 6. Channel Management
- 7. Rural Communication and Promotion
- 8. MIS
- 9. Logistics Management
- 10. Formulation of a Comprehensive Marketing Strategy







Cost of Cultivation-Methodology

- Three stage stratified random sampling
 - THESIL First stage
 - $\, VILLAGE-\, Second\, stage$
 - HOLDING Third stage

Cost of Cultivation

• COSTA1 includes:

Value of hired human labour

Value of hired &owned bullock labour

value of owned & hired machine labour

Value of Seed (owned &purchased)

Value of insecticides &pesticides

Value of fertilizers

Value of manure (owned &purchased)

Irrigation charges

Land revenue &othertaxes

Interest on working capital

Depreciation on implements & farm buildings

Cost of Cultivation

- COSTA2 = COSTA1 + Rent paid for leased-inland
- COSTB1 = COSTA1 + Interest on owned capital assets (excluding land)
- COST B2 = COST B1 + Rental value of owned land + rent paid for Leased-in land

Cost of Cultivation

- COSTC1 = COSTB1 + Imputed value of family labour
- COSTC2 = COSTB2 + Imputed value of family labour
- COSTC3 = COSTC2 + 10 % of costC2



Cost of Production

Trends in Cost of Cultivation

- Structure of cost of cultivation has changed for all crops in all the states over time
- In case of paddy and wheat:
 - share of purchased inputs particularly fertilizer and irrigation has increased significantly
 - share of labour has decreased particularly in advanced states.

Trends in Cost of Cultivation

- In case of Sugarcane, Jute and Cotton:
- Human labour continues to be the most important item of cost about
 - 30 % in S. Cane and Cotton
 - ->50% in Jute



Trends in Cost of Cultivation

• The cost of cultivation (Rs/ha) also varies significantly across states for all crops.

For Paddy:

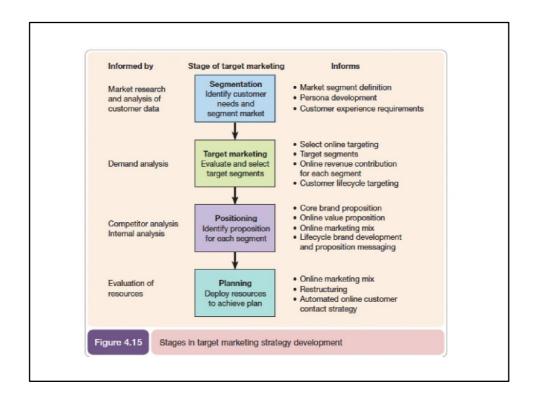
A.P-22797, PUNJAB-19126, ORISSA-11646

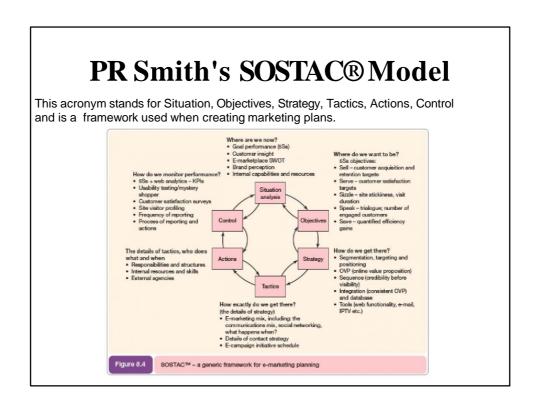
For Wheat:

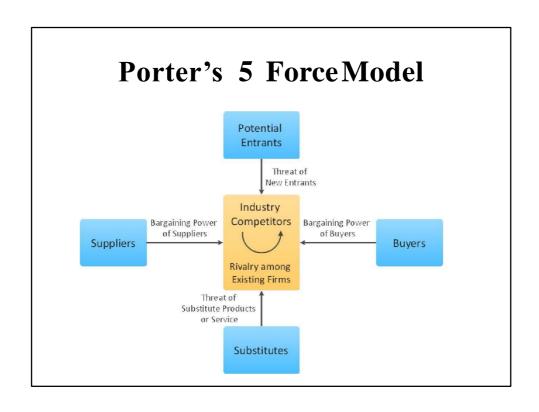
PUNJAB-19479, U.P.-13343, M.P.-10260

For S.Cane:

A.P. - 45758, HARYANA - 24824, MAHARASHTRA - 40274, U.P. - 26148







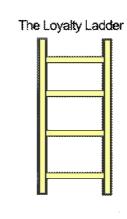
Loyalty Ladder

As with continuums of behaviour such as UACCA- Unawareness, Awareness,

Comprehensio

n, Conviction, Action, or AIDA – Awareness, Interest, Desire, Action, the loyalty ladder begins from a point where the consumer has **Not Yet Purchased**, then he or she buys the product for the first time **(Trialist)**, if the trial has been

a success he or she returns to buy again and again (Repeat Purchaser) and finally the consumer buys no other brand (Brand Insistent).



Turning a prospect into an advocate

Exercise – The Loyalty Ladder

Farley's Irish Dream

Farley's Irish Dream is a brandybased liqueur (i.e. a sweet and alcoholic drink) that is popular in most parts of Canada. It is associated with the sports of skiing, bobsleigh and snowboarding. It is most well liked during the months of winter when it is seen as a warming and relaxing treat that is shared with friends and family after participating in winter sports. Farley's has decided to enter the European market, by targeting countries that have regions with a similar climate, and where the brand associations of winter sports can be exploited.



Farley's Irish Dream is a brandy-based liqueur (i.e. a sweet and creamy alcoholic drink) that is popular in most parts of State and Stat

Recommend an integrated marketing communications campaign that will turn Prospects into Advocates in the new European markets.

Recommendations for Farley's Irish Dream's launch into European markets

Prospect

- Sponsor well-known professional skiers, snowboarders and bobsleigh teams in order to gain some early awareness amongst prospects.
- Employ a promotions agency that will visit top competitive events throughout Europe to hand out small trial bottles to prospects.

Customer

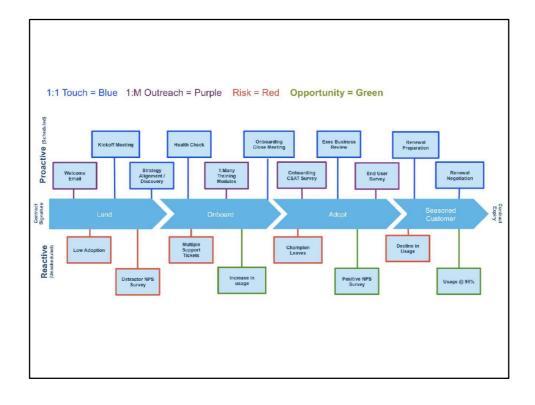
Target bars, supermarkets and hotels in the winter sports regions. Here run sales
promotions and distribute free merchandise such as ski hats, point-of-sale and drip trays
carrying the Farley's brand.

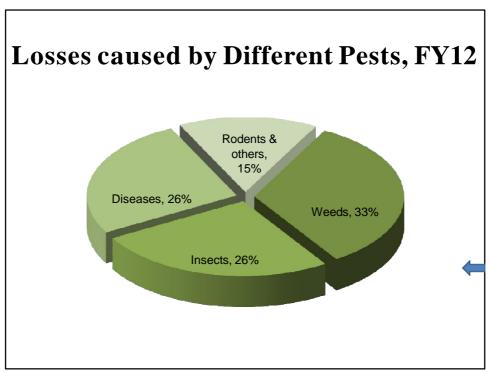
Client

- Sponsor websites that carry news and information about ski resorts and their current climate. Get clients to register their e-mail address and mobile phone numbers for e-mail and text information about skiing conditions.
- Begin a campaign that aligns the brand with aspiring, 25-40 year old professionals by advertising in targeted magazines.

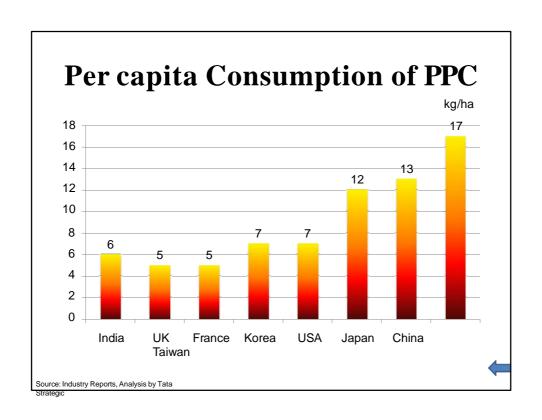
Advocate

This is the culmination of the previous three sections. Use text and e-mail to promote Farley's to advocates, and reward them for forwarding e-mail and texts to their friends (using viral techniques). Record data on the success of campaigns by individual advocate, and continue to develop innovative and fresh ideas to keep your valuable advocates loyal.





Source: Industry Reports, Analysis by Tata Strategic



- http://www.indiachem.in/brochure/Presentation%20by%20Mr.%20Harsh%20Dhanuka%20Agritech.pdf
- http://www.nuziveeduseeds.com/indian-seed-industry/