



Deendayal Research Institute

Chitrakoot



Welcomes

All the Jury members and Delegates
Independent People's Tribunal on the
World Bank in India
New Delhi



Sustainable Agriculture

A Case Study
Of
Deendayal Research Institute
Chitrakoot

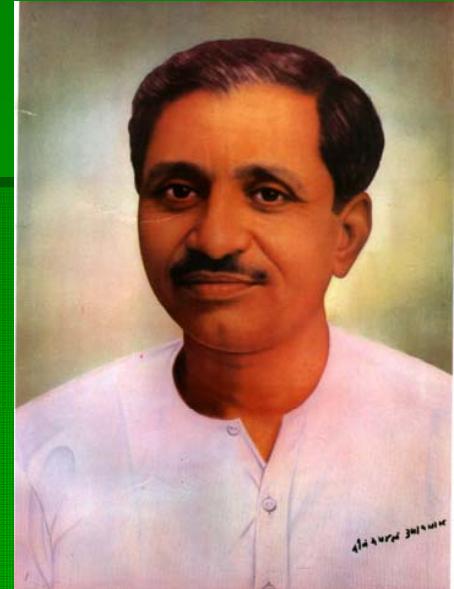
Agriculture and farmers after 60 years of Independence

- Farmers dependency for seed and fertilizers.
- cost of cultivation is increased
- poor market facilities (supporting price)
- Farmers Suicide
- Agriculture become burden for farmers
- Fight for Food and livelihood
- Feelings of interdependency and complementarity declined
- Increasing Frustrations and disputes
- Decreasing land-holdings
- Migration from rural areas
- Insecurity and disparity

An Innovative effort of
Deendayal Research
Institute

Integral Humanism

“The process of development begins from the bottom and moves towards the top. The roots of our nation lie in rural India. So the development of our society and country must begin from the rural areas.”



Pt. Deendayal Upadhyaya



The food security at national level, in real sense, can only be achieved by achieving food security at household level. *Nana Ji Deshmukh*



MAP OF CHITRAKOOT AND VILLAGES IN 50 K.M. RADIUS.

The Chitrakoot Project - Campaign for Self Reliance

Vision

500 Self Reliant Villages of the 50 Km radius of
Chitrakoot by 2010 through initiative and performance of
the villagers.

• DEENDAYAL RESEARCH INSTITUTE •
SIYARAM KUTIR.
CHITRAKOOT, M.P.

SCALE : E 25 0 25 5KM.
R.F. 1:178571

INDEX

SYMBOLS	DESCRIPTION
Wavy line	STATE BOUNDARY.
Dashed line	DISTRICT BOUNDARY.
Wavy line	TAHSIL BOUNDARY.
Solid line	ROAD (METALLED).
Dashed line	ROAD (UNMETALLED).
Railway line	RAILWAY.
•	VILLAGE NAME.
△	STATION HEIGHT (IN METRE).

CENTRE FOR
SAMAJ SHILPI DAMPAATH
SATELLITE VILLAGE.



Collecting Basic information from villagers



PRA- (Village Survey & Family Survey)



Peoples Participations- Planning by the People for the People

Major problems of Chitrakoot Area....



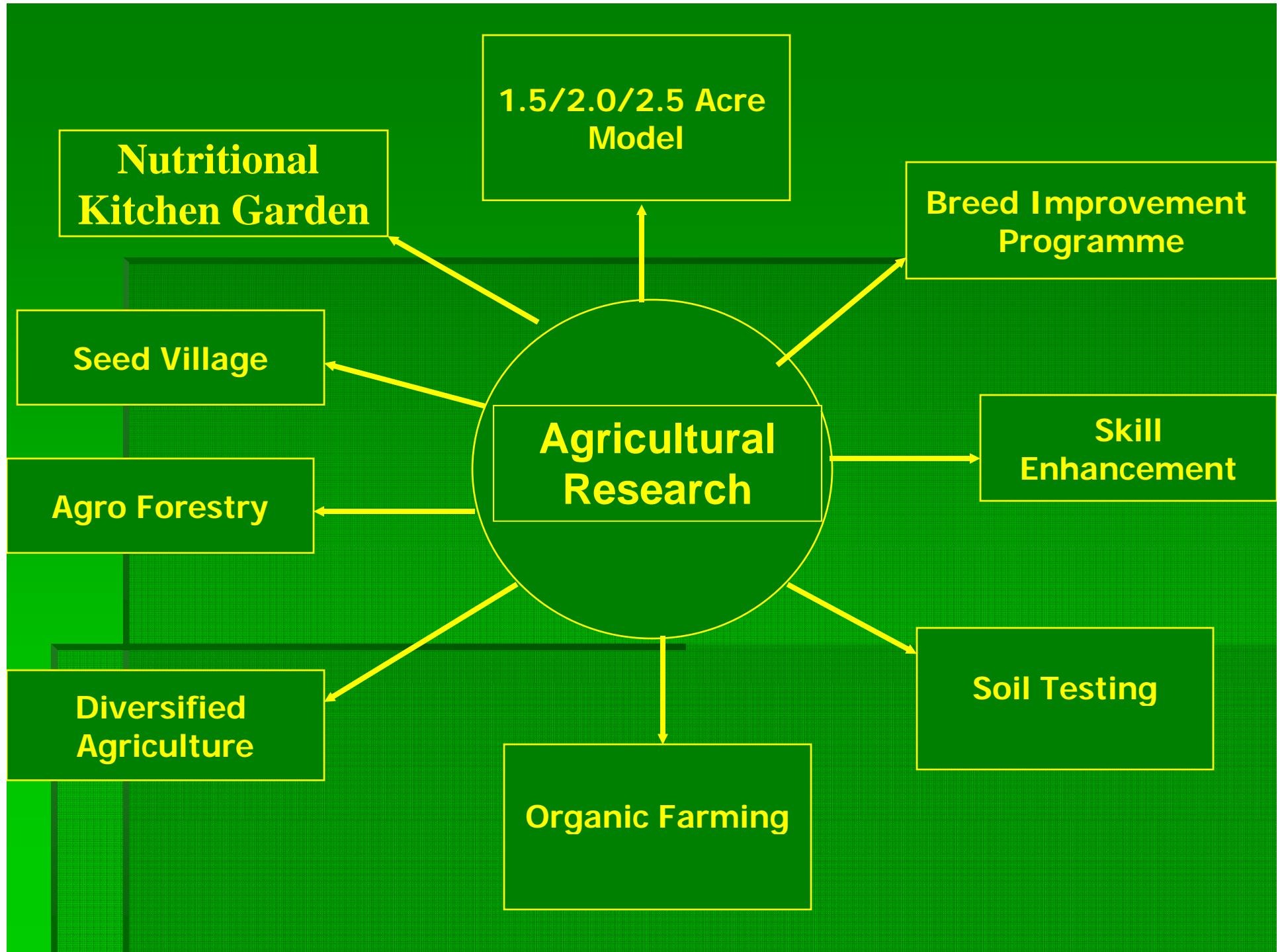
Poverty, Disparity, Unemployment, Illiteracy, Ill Health, No Water



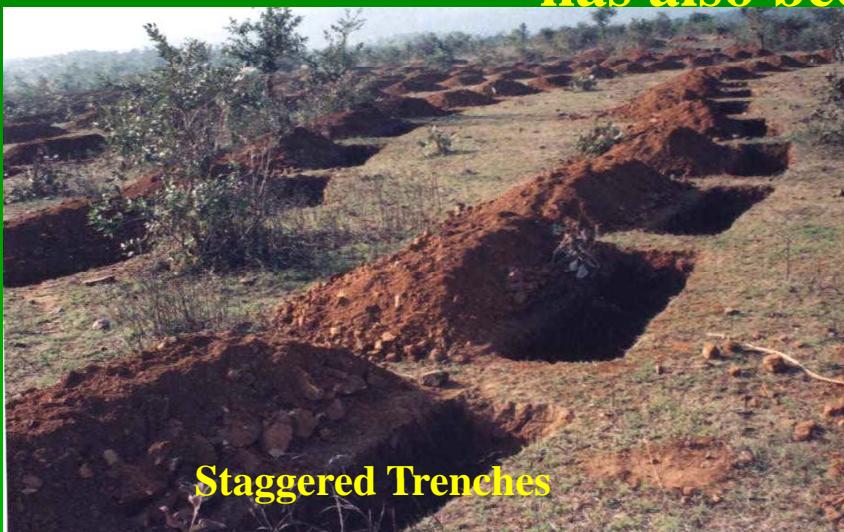
Purpose

“Total transformation and development of society, through peoples’ initiative and performance with integrated and holistic approach”

Peoples’ power is the real power



The collective efforts of the villagers harnessed rainwater runoffs into ponds. In this way, not only was the problem of drinking water solved, but irrigation of the agricultural land has also become possible.



MP State Govt. Sanctioned a sum of Rs. 4000 /ha under watershed management program, Deendayal Research Institute watershed management incurred an expenditure of Rs. 3486.00/ha thus saved Rs. 514/ha.



Impact of Watershed

Particulars	Before Treatment	After Treatment	Increase
Irrigated area (Ha.)	66.0	2224.0	2158.0
water level of wells (Meter)	0.45	3.34	2.89
Crops Production Q/ha., increase (In%)			
Paddy	10.30	22.80	121.36
Wheat	15.80	26.20	65.82
Gram	8.10	15.70	93.83
Mustard	5.00	10.02	100.40
Jower	6.00	8.60	43.33
Pegion pea	7.40	9.10	22.97
Average Family Income (Rs.)	10430	22875	12445



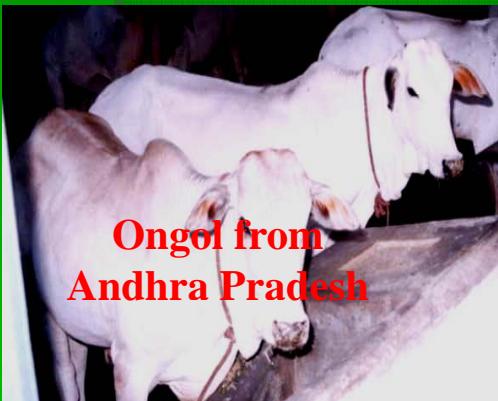
Gir from Gujarat



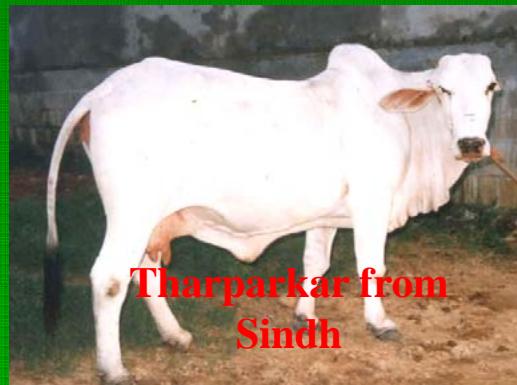
Sahiwal from Punjab



Rathi from Rajasthan



Ongol from Andhra Pradesh



Tharparkar from Sindh



Kankrej from Gujarat



Hariyana from Haryana

**Conservation and
Propagation of pure
indigenous breed of
cattle**



Nagori from Jodhpur

Most of the farmers adopting organic manure



NADEP Compost

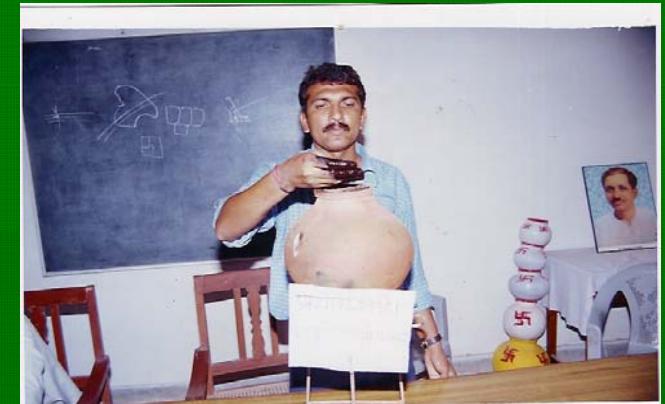


Horn compost

- NADEP Compost
- Vermi compost
- Wormi wash
- Matka khad
- Horn compost
- Biogas slurry



Wormi wash



Matka khad

ORGANIC CERTIFIED VILLAGE



Annex. to Audit Report

SGS India Pvt. Ltd. has performed an inspection as per Regulation NSOP and EEC 2092/92 assigned by:
 Licensee Name : Deendayal Research Institute
 Contact Address : 7E Jhandewalan
 Extension : New Delhi-110055
 Contact Person : Mr. Atul Jain
 Country of Production : India
 This report referred to in the licensee contact as scope certificate, covers the following Processing unit (s) which meets the criteria of Regulation NSOP and EEC 2092/91:

Unit No.	Name of Unit	Address	Process
DDRI 104-U-01	Krishi Vigyan Kendra DRI	Majhgwan, Distt. Satna, Madhya	Administration, Internal Control, Export, Cleaning, grading, drying, Dal Milling, Oil Extraction packing, storage

As per this annex. to Audit Report following product(s) which meet the criteria of Regulation NSOP and EEC 2092/91 are mentioned below

Product No.	Name of Product	Product Category	Processing Unit No
DDRI 104-P-01	Wheat	Registered to Organic	DDRI 104-U-01
DDRI 104-P-02	Wheat Flour	Registered to Organic	DDRI 104-U-01
DDRI 104-P-03	Wheat Dalia	Registered to Organic	DDRI 104-U-01
DDRI 104-P-04	Gram	Registered to Organic	DDRI 104-U-01
DDRI 104-P-05	Gram Dal	Registered to Organic	DDRI 104-U-01
DDRI 104-P-06	Gram Besan	Registered to Organic	DDRI 104-U-01
DDRI 104-P-07	Pigeon Pea	Registered to Organic	DDRI 104-U-01
DDRI 104-P-08	Sorghum	Registered to Organic	DDRI 104-U-01
DDRI 104-P-09	Paddy (Rice)	Registered to Organic	DDRI 104-U-01
DDRI 104-P-10	Barley Flour	Registered to Organic	DDRI 104-U-01
DDRI 104-P-11	Barley Dalia	Registered to Organic	DDRI 104-U-01
DDRI 104-P-12	Mustard Oil	Registered to Organic	DDRI 104-U-01
DDRI 104-P-13	Kodo	Registered to Organic	DDRI 104-U-01

As per this audit report Scope Certificate covers the following agricultural unit(s) which Meet(s) the criteria of Regulation NSOP and EEC 2092/91:

Farm /Unit No	Unit / Farm Name	Registered Organic	
		Ha	Farmers
DDRI 104-F-01	Tagi	76.50	21
DDRI 104-F-02	Bichhian	82.50	70
DDRI 104-F-03	Karanya	48.90	17
		207.90	108
Products :	Wheat, Wheat Flour, Wheat Dalia, Gram Dal, Gram Besan, Pigeon pea, Sorghum, Paddy (Rice), Barley Flour, Barley Dalia, Mustard Oil, Kodo		

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Authorized Signatory

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The information stated in this report (or certificates) is derived from the results of inspection or testing procedures carried out in accordance with the instructions of our clients, and our assessment of such results on the basis of any technical standards, trade custom or practice, or other circumstances which should in our professional opinion be taken into account. SGS India Pvt. Ltd. Laboratory Services, 250, Udyog Vihar, Phase IV, Gurgaon-122015, Haryana (India) Phone : +91-124-230990-48, Fax : 2399715.

Regd & Corp. Off: 505-House, 48, A.S. Marg, Vile Parle (West) Mumbai-400083, Tel: (022) 25198421 to 25198431 tp 35 www.sgs.com

Member of the SGS Group

- **Conversion of uneconomic holdings to economic holding**

- By changing the farming system (2.5/1.5 acre Model)
- Substitution of crops(Cash crops)
- Substitution of improved varieties/disease resistant/tolerant varieties

Layout and planning for Marginal farmers KHARIF (2.5 Acre Model)

Paddy (JR_353) –1.5 acre

Urd(PU-30)- 0.5 acre	Brinjal 0.05 acre	Tomato 0.05 acre	Okra 0.05 acre	Lobia 0.05 acre	Spinach Radish 0.05 acre
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Chilies(Pant c-1)
0.125 acre

Onion(ADR) -0.125 acre

RABI

Wheat (WH-147)+ Mustard (Varuna)-1.0 acre	Gram (JG-315)-0.5 acre
Mustard (Varuna)-0.5 acre	Toma to 0.05 0.05 acre
Coriander (Morrakkan) 0.125 acre	Pea 0.05 acre
	Potato-0.125 acre
	Spinach Radish 0.025 acre
	Garlic (G-1) -0.125 acre

ZAID

Fallow/ Green manuring–1.0 acre

**Bottle Gourd -
0.5 acre**

Lobia
0.0625
acre

Fallow/ Green manuring -0.5

Okra
0.125 acre

Spinach Radish
0.025 acre

Table 3. Comparative study showing Increase in yield & income:

Particulars	Before intervention		After intervention	
	Avg.Yield (kg)	Income(Rs.)	Avg.Yield (kg)	Income(Rs.)
Cereals	2500	11250.00	2545	14198.00
Paddy	-	-	1340	6968.00
Wheat	2500	11250.00	1205	7230.00
Pulses	500	6000.00	421.50	6933.00
Urd	-	-	225.00	3375.00
Gram	500	6000.00	296.50	3598.00
Oilseed	-	-	434.00	6944.00
Mustard	-	-	434.00	6944.00
Vegetables	690	2070.00	4028.50	16920.00
Spices	10	260.00	733.50	15042.00
Total		19580.00		60037.00

Prices of produce were calculated on the basis of prevailing rates in the local market

Uneconomic land holdings of small and marginal farmers have been successfully converted into economic ones through 2.5 and 1.5 acre models.



The farmers of the Chitrakoot area have been inspired to adopt organic farming and are benefiting from this.

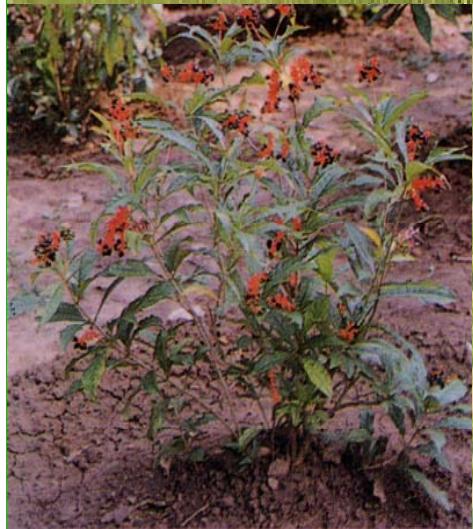
Nutritional Kitchen Garden in the backyard of every house



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Diversified Agriculture



Value addition activities through landless labours





MARKETING THROUGH GRADUATE UNEMPLOYED YOUTH





Multi Level Employment Model

Raw material collection,
Grading and (Rich farmers)



value addition (landless labours)



Semi processing (Marginal Farmers)



Processing (Marginal Farmers)



Quality Control (Scientist)



Packaging (Landless Labours)



Dispatch (Landless Labours)



Marketing → Profit sharing

Non farm sector



Non-farm sector





Knowing about the 2.5 acre model Industrialist Ratan Tata



10-2-2001

DG & DDG (AE) ICAR discuss with farmer's

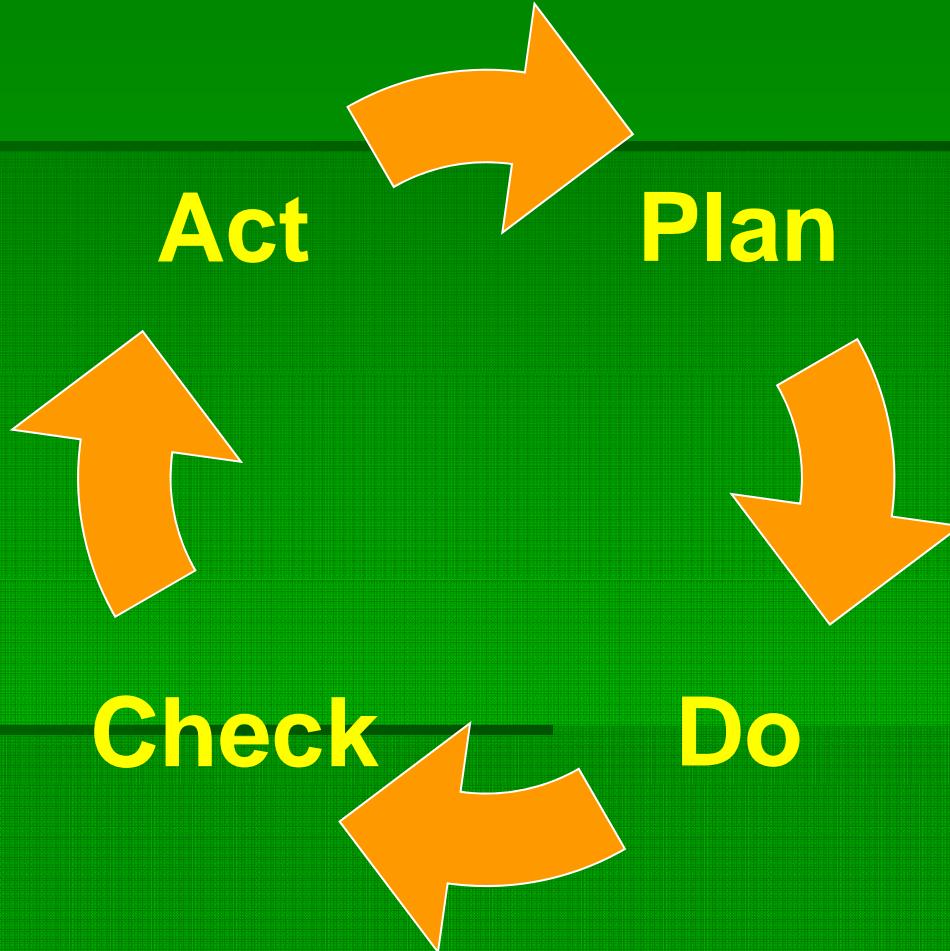


Dr. Mangala Rai, DG, ICAR visiting to farms



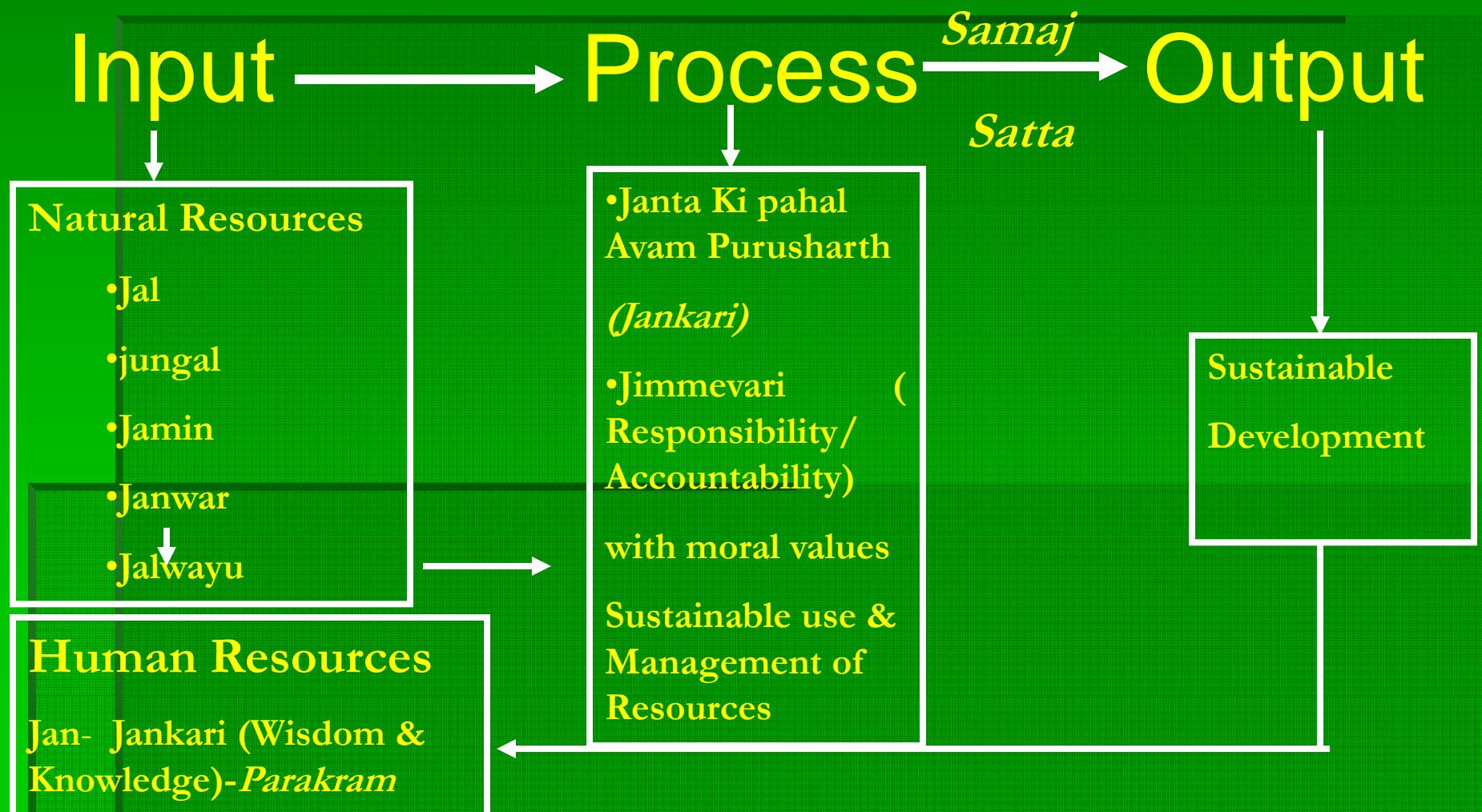
Villagers are sharing their experience with Dr. Kalam

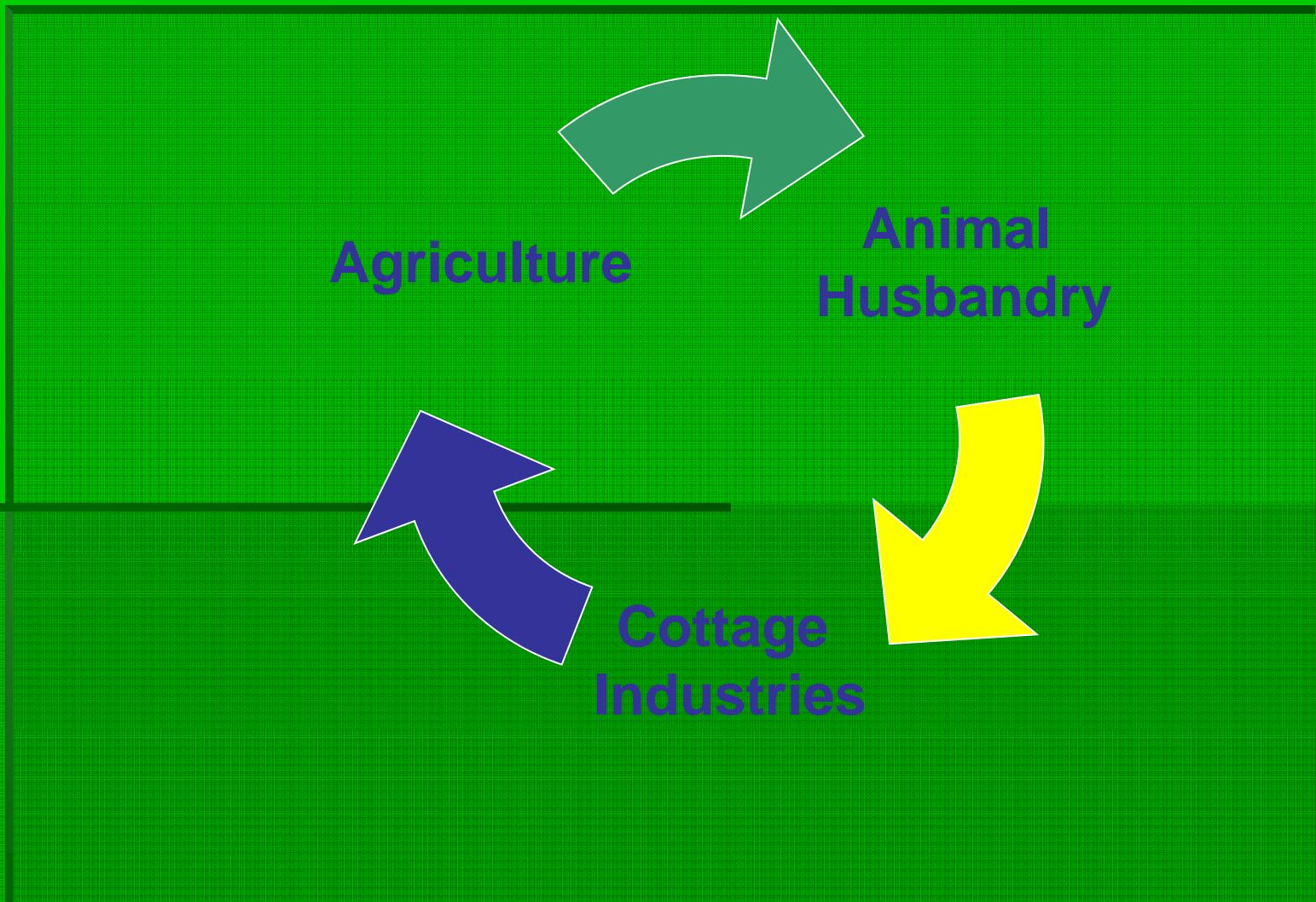
PDCA cycle



Outcomes of DRI experiences.....

Sustainable Development







Nana Ji Deshmukh

Founder -Deendayal Research Institute

Majority of Indian farmers are small and marginal whose land holdings are considered as uneconomic. Our country cannot prosper agriculturally as long as these uneconomic holdings are considered non viable for securing adequate food for family. There is a need to undertake experiments on converting these uneconomic holdings into economic holdings so that these farmers can contribute to the nation's capital formation