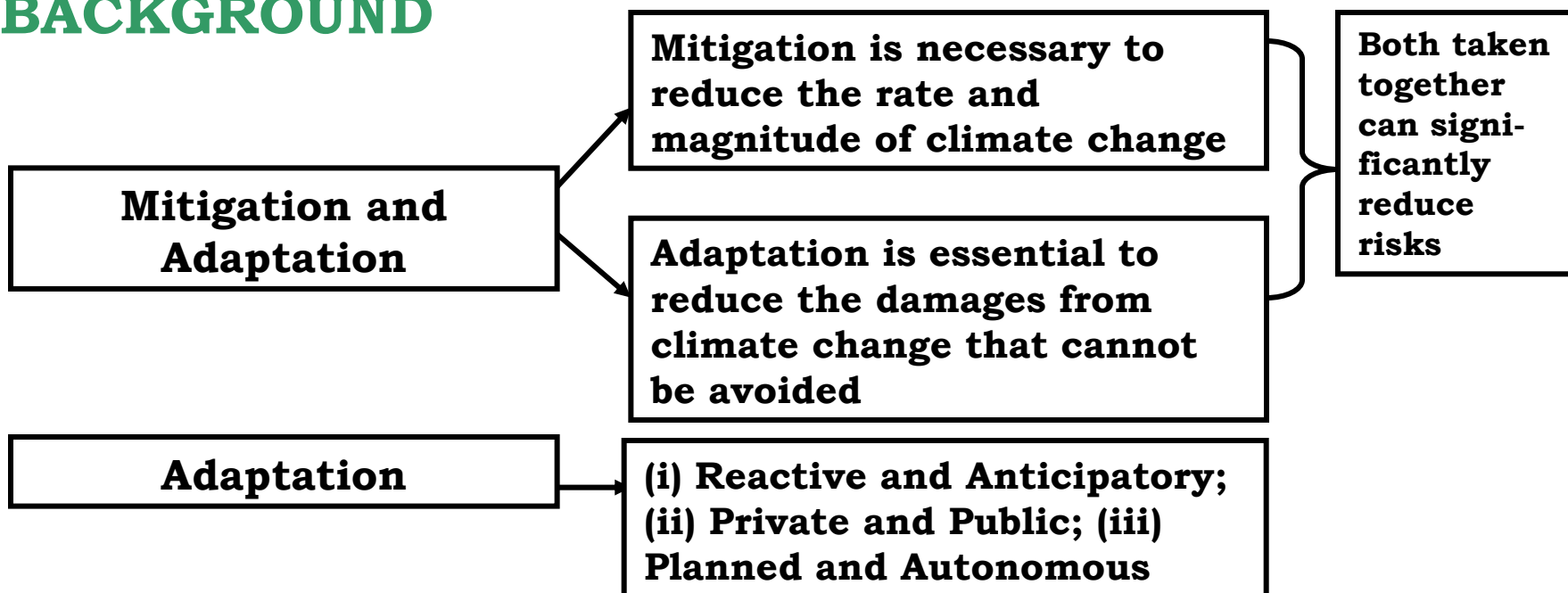




ADAPTATION AND SUSTAINABLE LIVELIHOODS: *Policy Implications in the Challenging Hydro-climates of India*

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BACKGROUND

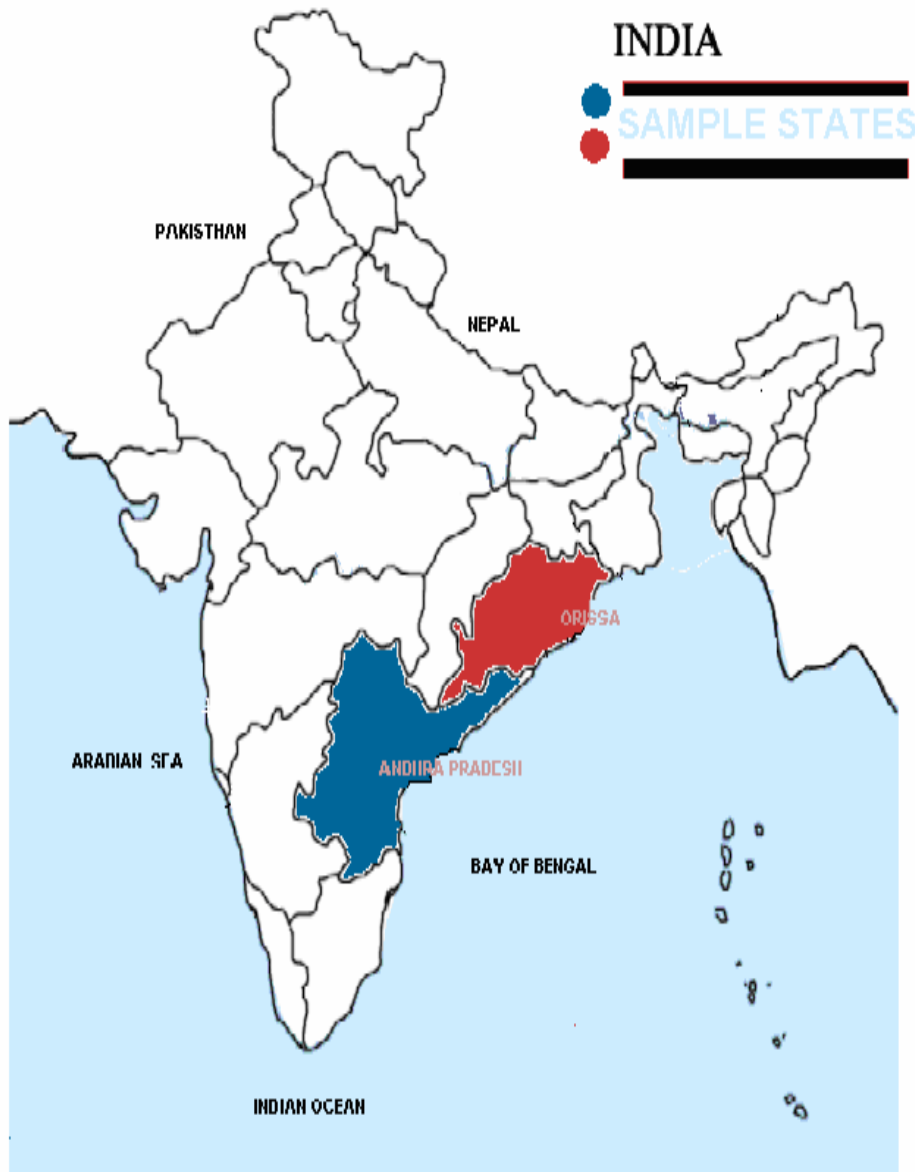


Both anticipatory and reactive adaptation can be planned through the result of deliberate policy decisions.

OBJECTIVES

- **To study different Adaptation Options to drought.**
- **To analyse the capability of the poor rural households to adapt with the changing pattern of livelihood.**
- **Key factors (policy, institutions and agent) that determine difference in outcome.**

DESCRIPTION OF THE STUDY SITE



Climate in Orissa & AP

- **Andhra Pradesh – 23 districts in total, 8 districts are frequently affected by drought.**
- **Orissa – the coastal area is regularly hit by floods and cyclones, where as western part is drought prone.**
- **Both the states – rains are erratic, winters have become warmer and the summers longer.**
- **Both the states – the magnitude and intensity have been on the increase over the last few decades.**

DESCRIPTION OF THE STUDY SITE Contd..

- Both the districts – land of climatic contrast.
- SW monsoon- 61.2% in Ananthapur and 80% in Nuapada
- The rainfall of meteorological week 23- 42 decides the fate of the Kharif rainfall in both the districts.



PROCESS

Group Discussions

Leaders

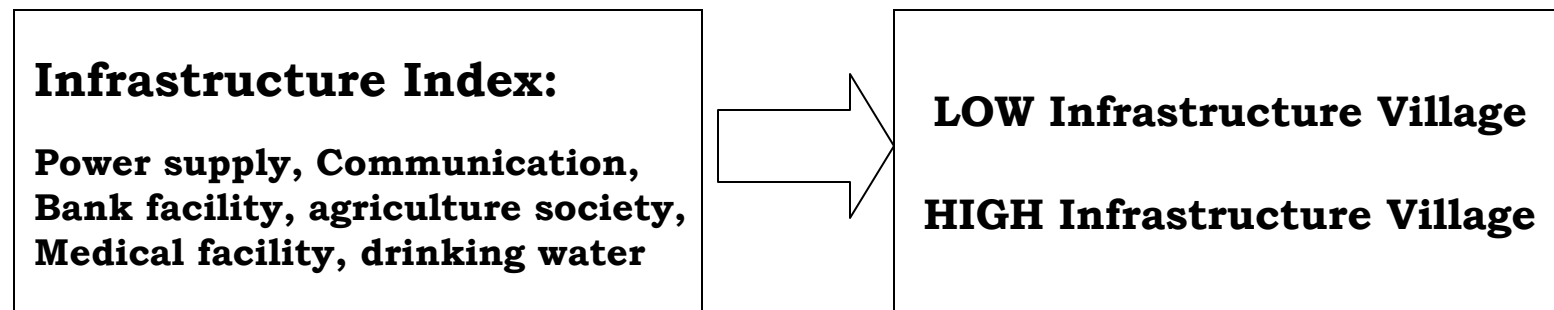
Affected People

STUDY SITE SELECTION

- **Selection of Districts**
- **Selection of Villages**
- **Selection of Households**

Selection of Districts were based on the criteria of maximum loss during the last drought.

Selection of Villages- based on infrastructure index- infrastructure wise developed village (ID) and infrastructure wise under-developed village (IUD)

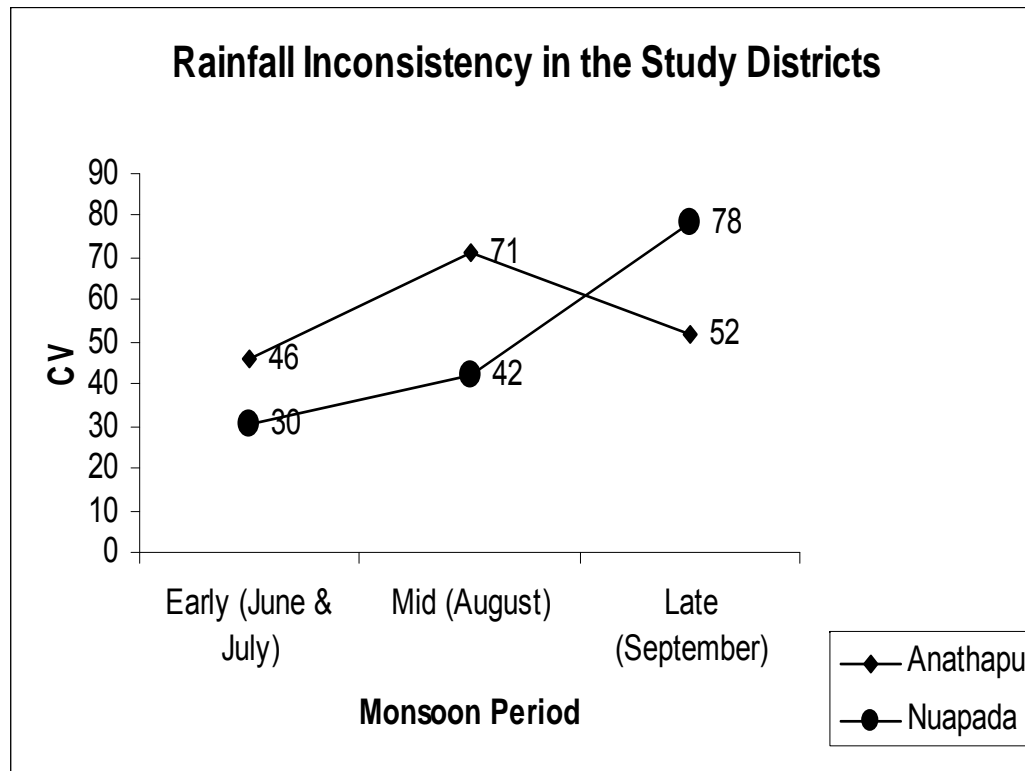


Selection of Households - Circular Systematic Random Sampling to include people from all income group

DROUGHT IN NUAPADA AND ANANTHAPUR DISTRICT

- **Erratic Rainfall**
- **Poor Irrigation Facilities**
- **Agricultural Condition is precarious**

Average Rainfall (mm)* in the Study Districts**



** The South west monsoon is defined as early: June-July; mid: August; late: September; and South west monsoon: June- September*

**** Rainfall Data in Ananthapur district in the state Andhra Pradesh corresponds to year 1951- 2006 and in Nuapada district of the state Orissa corresponds to the year 1988- 2008.**

MAJOR FINDINGS

Impact on Consumption Behaviour in the Study Districts of AP and Orissa

S. No	Household's behaviour on Consumption	Ananthapur	Nuapada
1	Frequency of intake - Normal Period - Disaster Period	2.4 1.9	2.0 1.7
2	% of HH reducing the number of meals	61	76
3	% of HH reducing the quantity of food	64	75

The Herfindahl Index for Livelihoods Diversification

S. No	Villages	No of Households	Diversification
Study Villages in Ananthapur District of Andhra Pradesh			
1	Tallakaluva (IUV)	127	0.30
2	Manesamudram (IDV)	141	0.63
Study Villages in Nuapada District of Orissa			
1	Katingapani (IUV)	107	0.14
2	Amalpali (IDV)	150	0.39

MAJOR FINDINGS Contd..

Other Coping Strategies Adopted by the Affected people

S. No	Coping Strategies	Andhra Pradesh (Ananthapur)	Orissa (Nuapada)
1	Insurance	23	18
2	Distress Sale	52	48
3	Credit	34	46

Autonomous Adaptation

- Adjustment of Food habit
- Occupational Diversification
- Distress Sale
- Migration

Planned Adaptation

- Credit
- Insurance
- Diversification of Crop

MAJOR FINDINGS Contd..

Adaptive Capacity of Infrastructure wise Developed Village is better than that of the under-developed one

- **More livelihood diversification;**
- **Facility of lift irrigation;**
- **Active SHG group linked with banks;**
- **Diversification with better crops;**
- **Subsidized foodgrain;**
- **Repeated government training programme**

ROLE OF GOVERNMENT

- **Successful Adaptation vs. Mal-adaptation**
- **Policy intention vs. Policy Practice**

Scenario in Orissa

- **Safety net instruments: Food for Work, NREGS, Pradhan Mantri Sadak Yojana. etc.**
- **Some of the programmes are ad-hoc in nature and does not have a long term perspective.**
- **Consensual effort of government, NGO and communities.**

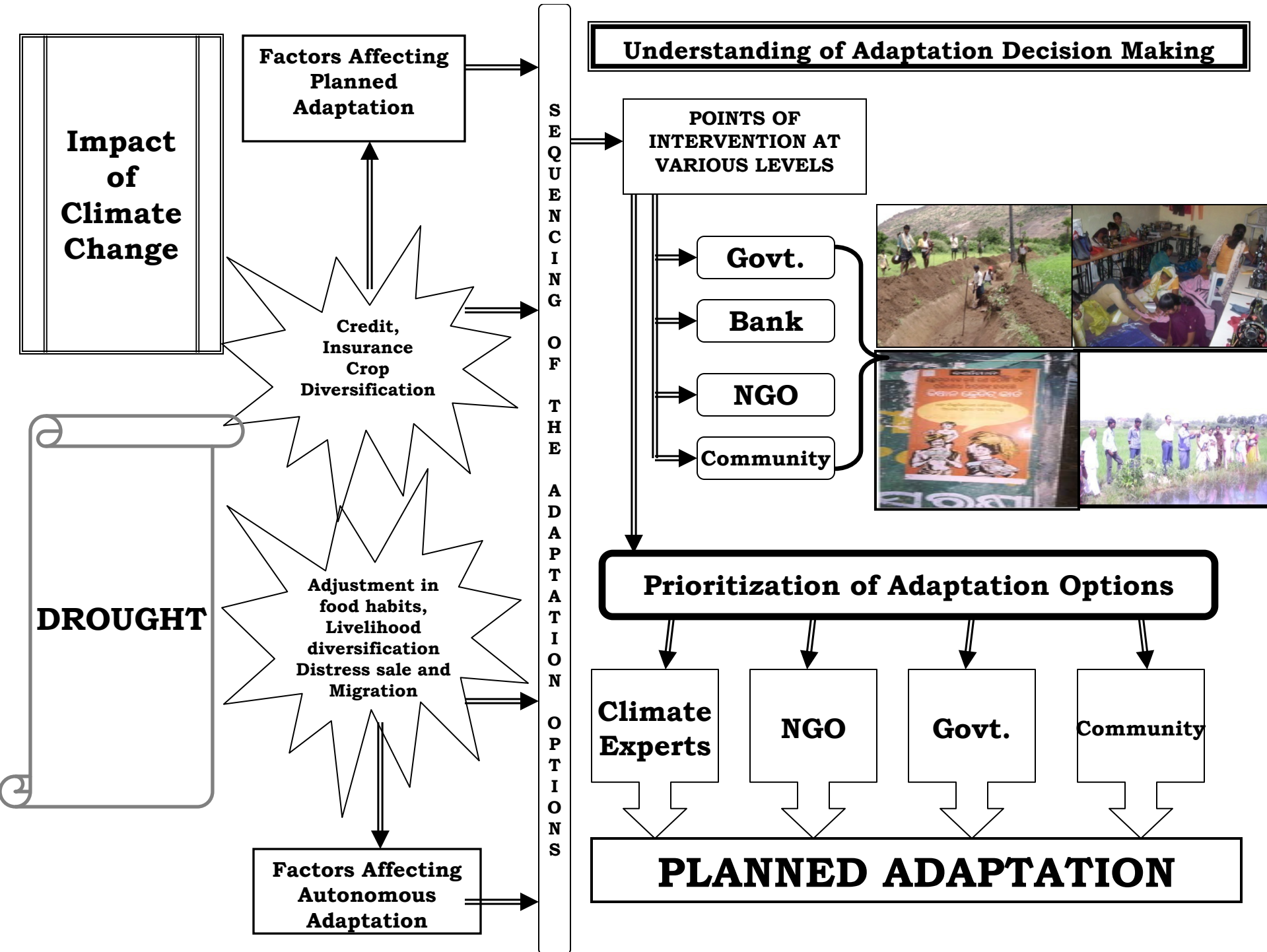
Scenario in Andhra Pradesh

- **Seed and Pesticide Act 1966**
- **AP Water, Land and Tree Act**
- **Comprehensive Market Act 1966**
- **Down Sizing the staffs in Agriculture Extension Services**
- **Rythu Bandu Padakam (loan facility) and Rythu Mithra Scheme**

ROLE OF GOVERNMENT Contd..

Financing Adaptation

- **Continuous financial support**
- **Converging funds instead of creation of a new one**
- **Developmental works need to be channelized through the NREGS.**
- **SHGs can be empowered through soft loans at subsidized rate.**



THANK YOU

The image features the words "THANK YOU" in a bold, teal, sans-serif font. The text is rendered in a 3D style, with a shadow cast to the left and slightly forward. The shadow is composed of alternating light and dark gray diagonal stripes, creating a sense of depth and movement. The background is plain white.