

## Climate Resilience Livelihoods Framework for a Composite Index

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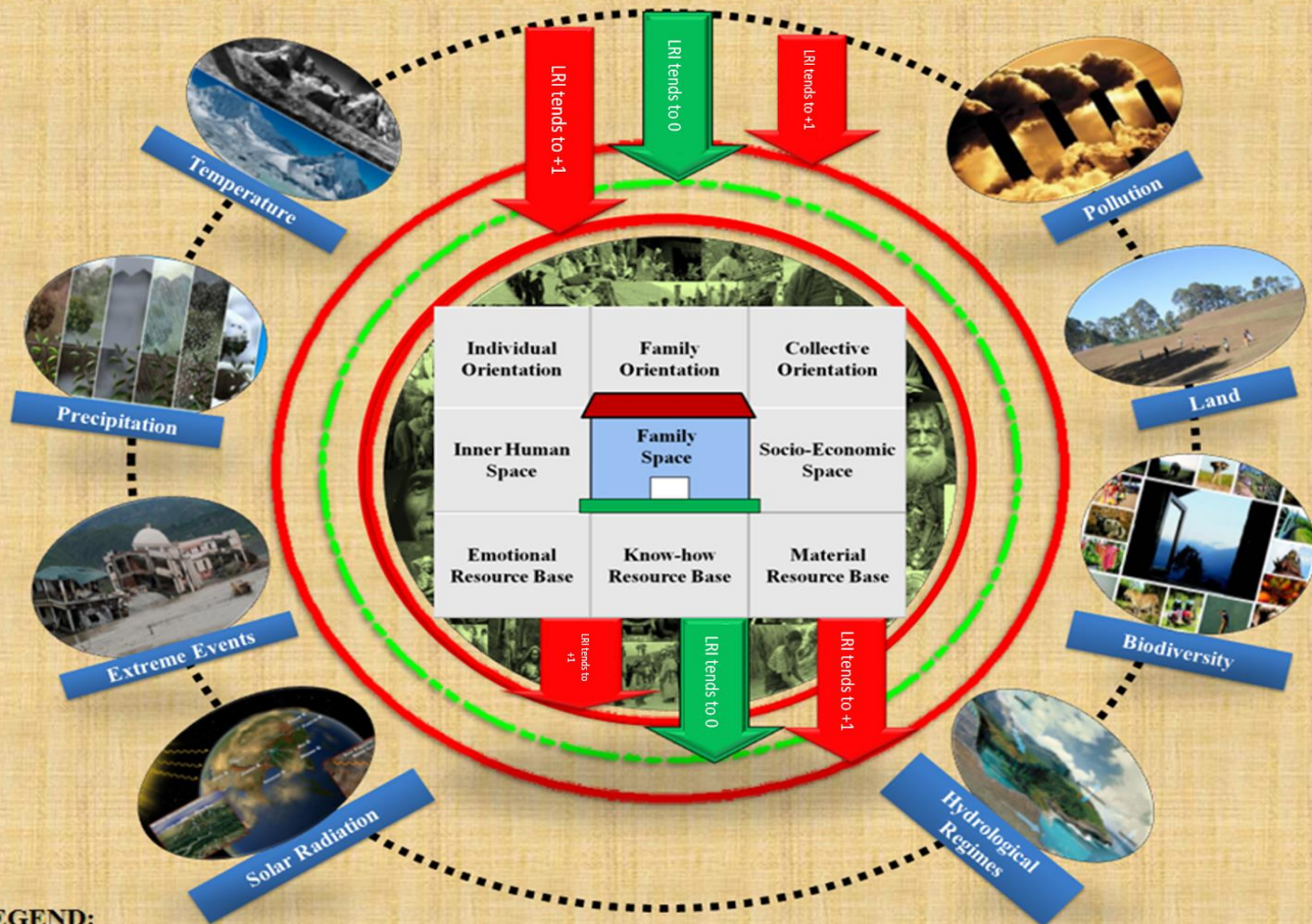
**Climate Resilience Livelihoods Framework  
for a Composite Index  
Prof. KV Raju**

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in Arena of Climate Change  
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# Climate Change Livelihoods Resilience



**LEGEND:**

— Upper & Lower Limit LRL

— Steady Mean LRI

--- Climate - Environment Interaction Space

# Livelihoods Resilience

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- Can be viewed as a composite of
- ecological resilience- in terms of land, water, forest, air, climate -temperature, rainfall, sunshine that constitute natural resources base
- economic resilience - in terms of production and reproduction of Food, Feed, Fuel, Fibre, etc within resiliencelimits of ecology
- social resilience in terms of equity, just distribution of resources ,wealth, welfare

# Food Water Energy

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- Food can only be produced on a sustainable basis with use of available surface and ground water within limits imposed by hydrological cycle, soil and climate conditions.
- Current high water and energy intensive food production, preservation and consumption as well as life styles are not sustainable

# Composite Index

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- Livelihoods Resilience=ecological resilience as f (parameters indicating soil, water, climate health conditions ) + economic resilience as f (parameters indicating water, energy, emissions intensity of food and other production systems , sustainability and productivity,) + social resilience as f (parameters indicating distributive justice, inequalities, marginalisation, peace and prosperity)

# Method

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Index= distance from stable mean/range between upper and lower limits of thresholds

# Sustainable development demands

## behaviour change

**1. Awareness Creation  
about Sustainable  
Development**

**1. Livelihood  
adaptation options**

**2. Community and individuals evaluate  
options vis-à-vis the means, know-how and  
costs-benefits**

**3. Intention to adapt**

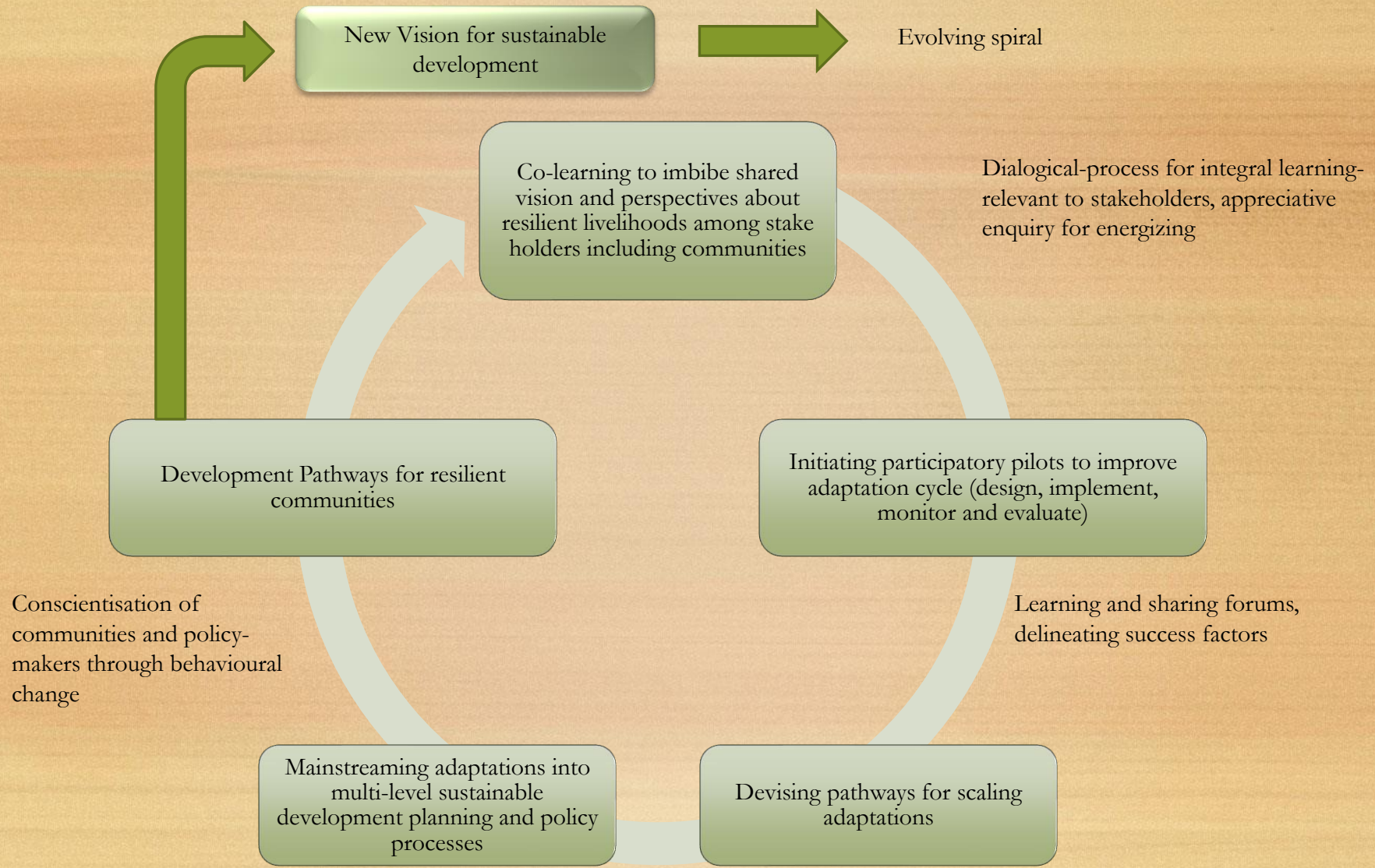
**4. Appreciating the  
need to adapt**

**5. Harnessing  
means, Know-how**

**6. Actual  
adaptations  
Practices**

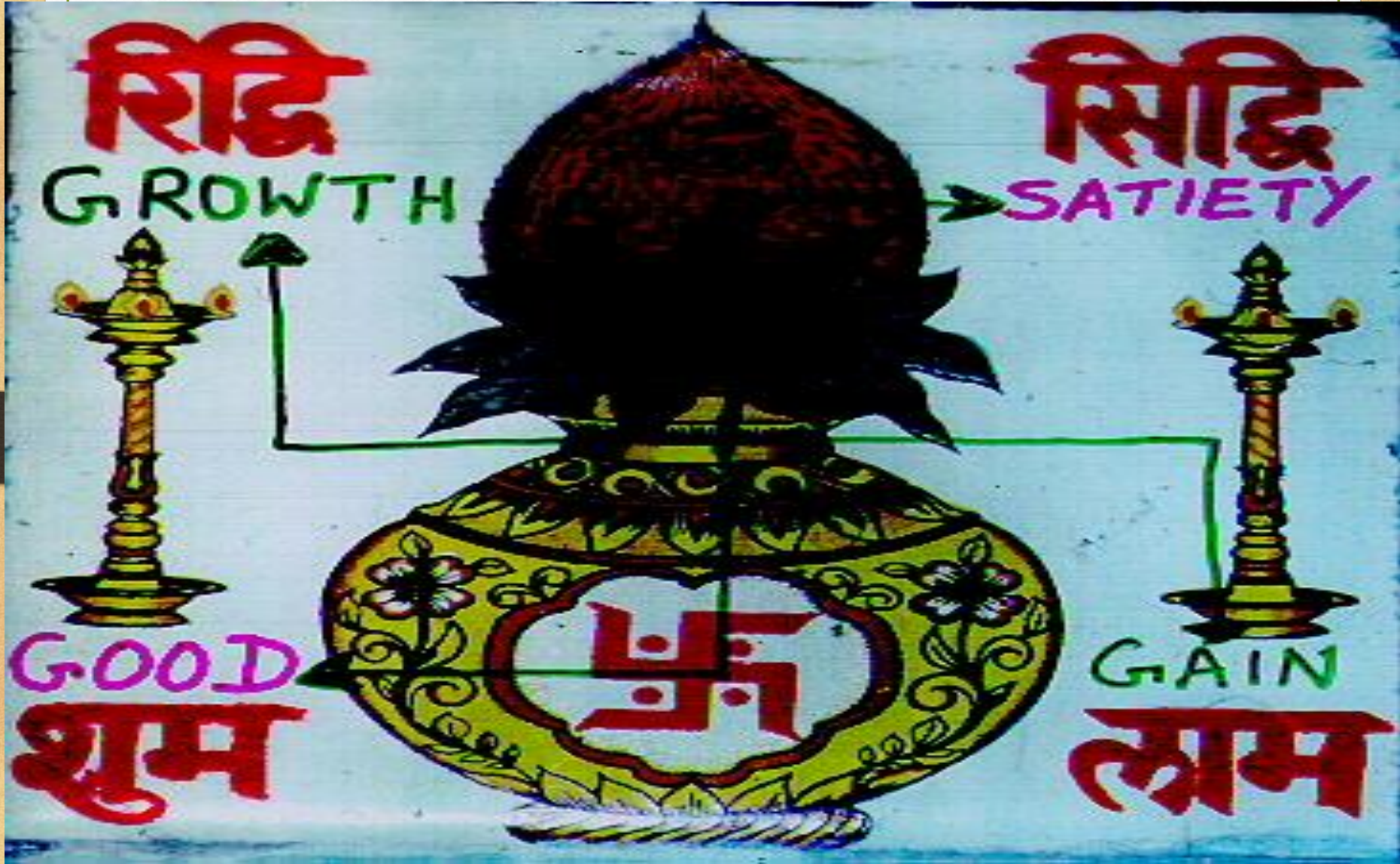
**7. Enabling environment  
for reinforcement**

# Sustainable Livelihoods Interventions



Social, policy dialoguing and campaign for changes in knowledge, attitudes, values and world view

four fold goals of sustainable development



DEMANDS ENLIGHTENED SELF-INTEREST FOR WELL-BEING