Global Movement at Local levels

Farming in harmony with nature

Andhra Pradesh Climate Resilient, Community-managed Natural Farming

Natural Farming Food System for PEOPLE and PLANET

Vision 2030 - 50 million people | all 6 million farmers | 8 million ha

A million farm and framworkers
600,000 million farmers; 300,000 Ha.
50% PMDS-S2S

No yield penalty; low paid-out costs; better prices; Better Returns, 50%
Crop Intensity (>2.0) Unfallowing (>10%/30%)
A Thought!
We live, we lead and we are led

- while we are important, we are a short-lived insignificant speck in this universe;
- we are part of a symbiotic universe and our existence is a function of existence of and dependence on other animate/inanimate objects;
- there is diversity and existential equity around us everywhere;
- our present/potential achievement is infinitesimally small vis-à-vis what we have been ‘graced’ with;
- what we have including knowledge is merely with us as its trustees for the time being to be shared with all;
- ‘I’ of life resists surrendering to the universe’s infinite intelligence and humility helps in flowing with it; and
- living with and loving all life and nature, apart from intense reflection, is a way to above appreciation.

Poverty is an affront to human dignity, and a cost to the economy and the polity. Poverty creates vulnerability, dependence and helplessness. It deprives society of the productive energies of a substantial segment of its population, contributing to instability and social unrest.

Mahatma Gandhi
Interest subvention; Panchasutra Funds Demand, Receiving Mech Poorest of the Poor, Poor in the forefront Poor? Institutional Subsidiarity HR – own, paid, piecework, volunteers, leaders
At a Glance

10 year support

Identity
Solidarity
Capacity
Rights
Well-being
Freedom

Rs./HH:
15-30K investment;
1:50 leverage; 6+6L
0.5 L own funds;
1.0 L credit/year;
0.5 L additional income/year

Credit to SHG members in 10 yrs:
Rs.65L; Rs.20L from Bank

Aajeevika Skills/DDUGKY
Social Action and Social Development
NFL/SVEP/ME/
Self-employment
MKSP/FL: Agriculture,
Livestock, Dairying,
Fisheries, NTFP
SHGs: Formation,
Federation, Financing,
Gender, Inclusion, FNHS/W

NRLM
Empowerment Ladder

Identity
Solidarity
Financial Capital [Savings, Credit]
Reduced/diversified Risks
Social Capital: Institutions, Cadres, Leaders
Human Capital: Capacity, Skills, Education, Health
Spiritual Capital: Inspiration
Civic Capital: Citizenship – Rights, Entitlements
Natural, Physical and Economic Capital
Green Capital: Ecological
Political Capital: Public action
Livelihoods and Lives
Freedom and Choices
DAY-NRLM: Reach 2022

- Across all 6800 blocks, 700 districts, 34 States and 5 UTs
- 83 Mn HHs mobilized into 7.6 Mn SHGs, 340K VOs, 35K CLFs; 360,000 Community Cadre | 16 Mn Community Social Capital
- SHG savings more than Rs.3000 Billion so far
- Cumulative Bank credit of Rs. 500 Billion accessed by SHGs since 2011, Cumulative Total Credit – Rs. 3500 Billion

Increased:
- Enterprises
- Assets
- Incomes

Credit from the SHGs and their federations – own, project, bank
Four Contexts – Ecological, Techno-economic, Distribution Pattern, Investment-Expenditure Patterns
Six Capitals – Natural, Physical, Social, Human, Financial and Spiritual – Knowledge-Skills-Resources
Four Arrows – Income, Expenditure, Employment, Risk - Outcomes

7L
Life
Living
Livelihoods
Linkages
Leadership
Learning
Love

Interventions

Hope, Faith,
Promise

Farming,
Weaving,
Artisans,
Crafts,
Services,
Petty Trade,
Local Value-
addition
Context/Principles:
Livelihoods – Entrepreneurship – Poverty Reduction

- Human Identity; Fairer Treatment; Higher Contribution/Realizing Potential
- Climate Changes;
- Pace of Life; No secure livelihoods; Greying; Overpopulated sectors;
- New Opportunities, New Divides; Few Ideas;
- Relevant Stamina, Credit, Market, Jobs
- % Rupee, Unmet local needs, quality vs scale
- End Poverty by 2030 (SDG)
- Increase in Govt. fund allocation and Govt. taking the centre stage
- Decrease in foreign aid, Increase in CSR spending, Philanthropy, and Indian/Local Foundations
- Digitization; Increased role of technology
- Demographic dividend & Unemployment
- Moving from Volunteerism to Professionalism
- Faster, Deeper: Saturated Mobilization, Inclusion, Participation, Communitization, Convergence, Leveraging

- Krishi Pradhan; Tribal – Rural – Urban – Emerging (TRUE)
- The Elephant, the Six Blind no experts
- Seven Fish
- F-F-F (Meta fish/skill)
- Sustainability of Purpose
- Enterprises: Social Animals
- First – Existing; Least Cost; K-S-T; Market; Local; Best within
- Quality vs Scale
- % Consumer Rupee; Value-chain Niche
- Collective vs Individual, Family
- Partnerships
- Meeting mkt needs; Demand Mapping
- Entrepreneurs-Enterprises together
- Prosperity Paradigm
- Enterprises Select Stat:
  - 55% (1), 32% (2); 46% (HH), 20% (mobile)
  - 98% (no a/c); 90% (unregistered); 44% (capital shortage); 67% (stagnant)
Theory of Change

• Poverty reduction ←
  State’s policies, business regulation, resources, services ←
  Solidarity and Heard Voice

  Fair Market, increased % of consumer rupee, social
  responsibility ← increased bargaining power

  Civil Society (Institutions of poor and Institutions for poor –
  sensitive support structure network) ← let us take care of
  ourselves, our resources and our needs

• The Premise:
  o Poor are organised/willing to be organised [costs/benefits]
  o Poor have capacities, knowledge, skills and resources
  o All projects are people’s projects as Development is theirs and
    the benefit is theirs
Institutions - Structures

- SHG
- VO
- MEF
- MS
- ZS
- Zilla Samakhyas
- Mandal Samakhyas
- Village Organizations
- SHG Groups
- Women Members
Universal Principles of Natural Farming

365-day crop cover of soil (Living root)

Multi-layered multiple diverse crops, trees (20+ crops)

Minimal disturbance of soils

Integrated farming (animals)

Bio-stimulants as catalysts

organic residues on soil

indigenous seeds

Pest management thro’ botanical extracts

No synthetic chemicals

365 days green cover with crop diversity maximises photosynthesis rate; root exudates get pumped into the soil, to close the carbon cycle, and build soil health, crop resilience and nutrient density

Bio-stimulants - unique strength

Microbial Seed Coating

Beejamrutham - cow urine, cow dung, and lime – fermented

Microbial Soil enhancement

Jeevamrutham (bio-stimulant) - cow dung, cow urine, soil, jaggery, pulses flour – mixed and fermented

Indigenous Local Seeds Agro-biodiversity

In response to multiple crises - farmer distress; food plate; soil, water, climate, envt.

Responsible Governance; Recycling; Efficiency; Human-Social Values; Diversity; Synergies; Co-creation-Knowledge Sharing; Resilience; Culture-Food Traditions; Circular-Solidarity Economy

Practitioner-led Transformation
Sapta Sutra, Communitization
Participatory Tracking
Local Value-chains
Data-Digital Platform

A No Chemical Portfolio of Regenerative Agroecological Practices, Living Soil, Local First
### Overcoming obstacles to Transformation and Scaling NF

#### Challenges

<table>
<thead>
<tr>
<th>Challenges</th>
<th>APCNF, Hardwired for Saturated Transformation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mindset - CHEMICAL ADDICTION, 60+ years</td>
<td>Government Support - Advocacy – resources and implementation</td>
</tr>
<tr>
<td>VESTED INTERESTS</td>
<td>Convergence</td>
</tr>
<tr>
<td>Taking it to every farmer?</td>
<td>Global, National, Local Collaborations</td>
</tr>
<tr>
<td>Handholding until full adoption?</td>
<td>Knowledge – Models, Package of Practices, videos, etc.; FFS</td>
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<tr>
<td>Extension system?</td>
<td>Innovations and continuous learning</td>
</tr>
<tr>
<td>Self sustaining, long-lasting?</td>
<td>Long-term handholding</td>
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</tbody>
</table>

#### ICT

- Mainstreaming Poorest of Poor – landless and tenant farmworkers
- Women SHGs and federations - Sapta Sutra
- Farmer-to-farmer extension: Champion Farmers, Farmer Heroes

### Relevance

**Regenerative Agriculture** is a holistic land management practice that leverages the power of photosynthesis in plants (365DGC with crop diversity) to close the carbon cycle, and build soil health, crop resilience and nutrient density.

**Soil Carbon; Water; Nutrients; Mycorrhiza; porous soil Sugars: 40% above ground, 30% roots, 30% exudates**

**365-day Kitchen Gardens**

**FNH Security**

**Livelihoods, Income Generation**

**Land Lease, Developing Lands**

**Off-farm – BYP, Livestock, Fish**

**NF Shops, Services, VA/VC roles**

**Program Management, Tracking**

- Collective Action
- Peer Learning, Extension, Endorsement
- Farming Plans, Consumption plans
- Inclusive of the poorest
- Accountability

**100,000+ women SHGs and their 5,000+ Federations are in charge**
# Emerging Field Architecture

<table>
<thead>
<tr>
<th>#</th>
<th>Description</th>
<th>Logic</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Farm, Farmworker Families</td>
<td>Farmer Diary/Card</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Lead Farmers, SHG Leaders</td>
<td>1 per 10 Farmers, 1 per SHG Models; NF AAPs</td>
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<tr>
<td></td>
<td>Women SHG</td>
<td>Microplans, MCPs, Credit linkage Saptasutra</td>
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<tr>
<td>3</td>
<td>L3 Community Resource Person – ICRP [More CRPs in villages help in expansion]</td>
<td>1 per 50-100 Farmers, 1-3 per VO Transformation Spearhead Models</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Village Organization</td>
<td>NF Input-output shop; Local VC Collective Action; Annual Plans-Track; Convergence; Cadre Accountability Saptasutra Communitization Spearhead Liaison with RBK, VAA</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>L2 CRP – NF Transformation; Communitization; Data/Digital</td>
<td>Cluster/Unit of 5 GPs, ~2000 farmers FFS; Sapta Sutra; Community-endorsed Data</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>L1 CRP, Natural Farming Fellow, Master Trainer – NF, IB, Digital, H&amp;N, Market</td>
<td>Trainer, Facilitator; Home Unit, Own Field, Learning Multi-units; Certified 365-day Training</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>NF Associates: Trg, Data, Mktg, Instns</td>
<td>5-6 per district District level</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>District Project Management Unit</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>State Project Management Unit</td>
<td>20 Themes Emerging IGG Acad for ARL</td>
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</table>

**Principles:** Practitioner-led extension; women in lead; SMF First, Local First

**Farmers’ Collectives/FPOs; Farmers’ Entrepreneurs; Farmers’ Bazars; Educated Young Practitioners**
Working in the Cluster/NF Hub

- **Offer**: low costs of cultivation with no yield penalties and enhanced income; local value-chain advantages; low biotic stress and high resilience; climate resilience and climate change mitigation; low water and energy and resultant savings; soil regeneration; no-toxic nutrient diverse and dense food; and farmer-to-farmer self-reliant sustainable knowledge and innovation flows.

- Saturated transformation - all farmers – small and marginal farmers and farmworkers; all their farms; all practices.

- Led by women collectives in managing mobilisation, planning, tracking and accountability; collective action for inputs, outputs; convergence; take over

- The best practising farmer peers lead extension, customised knowledge transfer and handholding support, FFS. |In the NF Hub, in the Community Collectives

- There are no artificial subsidies. Local Inputs – own; input-output shops, collective action for inputs/outputs

- 8-10 years to transform a village. 3-5 years to reach all farmers; each farmer - 3-5 years to be a fully transformed on entire land. It costs about Rs.15,000/farmer. 75% is for Capacity Building and Cadres.
Working in the Cluster/NF Hub

- Starts with a cluster of villages/Gram Panchayats with about 2000 farming families. A team of best practitioner community resource persons @1 per 100 farmers and/or Village Organization, and senior community resource persons@1 per 2-3 Gram Panchayats.

- It is not necessary to start with a market that is willing to pay a premium for Natural Farming produce. The Natural Farming produce is initially for family and local consumption/local sale. By the time, the farmers have surpluses they would have also reached a situation of similar or higher yields than conventional farmers.

- 365-day Kitchen Gardens for improving the diet diversity in the households.

- Women Self Help Groups internalise Natural Farming through 7 principles (Saptasutra) for institutions
  - NF discussions in the meeting; Consuming naturally produced food; Planting NF kitchen gardens; NF; NF inputs; Funds for NF; NF Records

- The APCNF model starts with what the farmer is doing and works on changing these practices in an iterative manner, based on the choices of the farmer.

- Handover to Community/Collectives; Get commanding share of Value-chain(s)
### HR Matrix for NF @RySS

<table>
<thead>
<tr>
<th>Field Clusters, 1000+ @2000 farmers</th>
<th>Districts, 26</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>L3 NF CRPs, 1/100 or VO</td>
<td>NFF</td>
<td>Executive Vice Chairman</td>
</tr>
<tr>
<td>L3 IB-Digital CRPs</td>
<td>L1 CRPs (NF, IB)</td>
<td>AO</td>
</tr>
<tr>
<td>L2 CRPs (NF)</td>
<td>L2 CRPs (NF, Digital)</td>
<td>1-2</td>
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<tr>
<td>L3 CRPs (NF, IB-Digital)</td>
<td>L3 CRPs (NF, IB-Digital)</td>
<td>7</td>
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<tr>
<td>L2/L3 CRPs (Themes – H&amp;N, Mktg et al)</td>
<td>DEOs/Accountants</td>
<td>3</td>
</tr>
<tr>
<td>Lead Farmers – 1-2 Per SHG (10 members per SHG)</td>
<td>District Master Trainers (NF, IB, Marketing, Digital, H&amp;N)</td>
<td>15-20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GPs, 3730+2250 @400 farmers</th>
<th>District Project Director, Manager</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1 CRPs (NF, IB)</td>
<td>NF Associates/Thematic Anchors – NF, IB, Research, Data, Marketing, H&amp;N etc.</td>
<td>7</td>
</tr>
<tr>
<td>L2 CRPs (NF, Digital)</td>
<td>DEOs/Accountants</td>
<td>3</td>
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<td>L3 NF CRPs, 1/100 or VO</td>
<td>JDA/DDA/ADAs/AOs</td>
<td>10</td>
</tr>
<tr>
<td>L3 IB-Digital CRPs</td>
<td>Leads/Advisers</td>
<td>3</td>
</tr>
<tr>
<td>L2 CRPs (NF)</td>
<td>JDA/DDA/ADAs/AOs</td>
<td>10</td>
</tr>
<tr>
<td>State Resource Persons</td>
<td>Senior Consultants/Consultants</td>
<td>12</td>
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<tr>
<td></td>
<td>Thematic Leads/Anchors</td>
<td>32</td>
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<tr>
<td></td>
<td>Program Managers/Executives</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>Young Professionals/ Junior Program Executives</td>
<td>50</td>
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<tr>
<td></td>
<td>Learning Fellows/Interns</td>
<td>50</td>
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<tr>
<td></td>
<td>NF Associates</td>
<td>30</td>
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<tr>
<td></td>
<td>Accountants/Assistants</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Data Processors</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>State Resource Persons</td>
<td>40</td>
</tr>
</tbody>
</table>

**Transformation; Institutions; Research; Learning and Training; Tribal Areas; Dryland Areas; Marketing and Convergence; Partnerships; Civil Society/NGOs; Landscapes; Communications; ICT-MIS; M&L; HR; Gender; H&N; NRO; Policy; Funds; Procurement; Finance; Administration**
## Natural Farming in AP, APCNF

**Today**
Across all 26 districts, 662 mandals, 6010/13340 GPs; 6.3Lakh NF Farmers on 3.0 Lakh Ha.

**2022-23**
To reach All 13371 GPs; 10.5 lakh farmers in 5 lakh Ha.

### Start
Within Agriculture Department as a Pilot in 2015, expanded to 615 GPs; RKVY Support Positioned Community Resource Persons, CRPs, from the best practitioners across the state, with prior experience, to practice customized local models and work with farmers CRPs invited farmers to try out, a parcel, without changes in cropping pattern; campaigns Own fields (all cadres), Crop-cutting experiments, Subhash Palekar’s Mega-Trainings helped

### Transition
To a dedicated-to-NF Organization, Rythu Sadhikara Samsta in 2017; separate NF Dept. Supported by RKVY, PKVY, BPKP – Centrally Sponsored schemes; KfW loan; and SERP-NRLM-MKSP Convergence | Technical Support Grant from Azim Premji Foundation Gradually, SHGs, SHG Federations joined hands for mobilization, planning, learning (FFS, Videos etc.), collective action, and cadre/practice/data tracking and accountability SHGs follow Sapta Sutra – NF Discussions, Food, Kitchen Gardens, Farming, Inputs, Funds and Records NF Farmer Input shops | Lead Farmers (1/SHG) → Local CRPs (community accountable) Farmer Entrepreneurs, Educated Young Practitioners

### Trajectories of Progression
**Saturation** – 3-5 year reach + 3-5 year farmer transformation (7-8 years to saturate a GP) Comunitiztion - Cadres, Institutions | Community Resource Persons L1, L2, L3 - Transformation, Institutions, Digital, other themes L3 CRP – 1/100 farm families, or VO; L2 CRPs; - 2-3 GPs (6-10 L3), or 10 GPs (Digital); L1: Cluster/Mandal i/c Master Trainers - Dedicated Learning Agenda, Specialists - NF, IB, Digital, Marketing, H&N Women (and spouses) through women SHGs, Federations; More women cadres (> 50%)

### Impacts - Socio-economic Studies since 2018-19 (6 Seasons)
- **Significant Reduction in Paid-out Costs and Increase in Return** without yield penalties except for 1-2 minor crops, across crops accounting for more than 80% cultivated area, in both kharif and rabi seasons.
- **Land productivity is higher. Cropping intensity is more than 2 (against 1.26).**
- **For Farmers with < 1.25ha, annual income, INR 242,000**
- **Safe Nutritious chemical free food, nutrition diversity-security**
- **Other benefits - Reduced Health costs, Local Employment, Climate, Ecosystem**
- **Flood Resilience, Drought Proofing, Savings in Water, Biodiversity**
- **Additional benefits - Integrated farming with Poultry, Livestock, Fish etc., and Unfallowing**
Natural Farming in AP, APCNF

| Trajectories of Progression | Extension - Customized models, Packages of Practices, Protocols \(\rightarrow\) 365DGC; local videos, human mediated video-dissemination (Digital Green), Farmer Field Schools, Daily Messages, Troubleshooting, Inputs Farm Diary/Card, NF Annual Action Plan, Own Field Verification Farmer-Cadre Connect, Community endorsed data, SHG-CRP registers, Digital Tracking/Tagging Natural Farming Fellows (Practice, learning, research), Natural Farming Associates Partnership with Rythu Bharosa Kendrams (RBKs) - Training, Videos/Material, Inputs Shop, FFS, Demo, etc. Local Value-chains – Verified Source Area – Bio-villages, GPs, Areas | TTD Partnership |
|-----------------------------|-------------------------------------------------------------------------------------------------|

| Protocol Development – Farming, Programme | • Indicative Protocol for the model; Innovations by the practitioners  
• Inputs from Researchers/Experimenters  
• Discussions with Technical Resource Group, Screening against the NF universal principles  
• Drawing the conclusions for changes in Protocol  
• Text and Videos – Protocols, Package of Practices  
• Revisit every season/year |
|-------------------------------------------|-------------------------------------------------------------------------------------------------|

| Costing | Costs have been stabilized, as Rs.15,000 per family over 7-8 years.  
\textit{Capacity Building (Field Cadres, Learning, Models, Institutional CB, Value-chain CB)} – 76%  
\textit{Support to Community Institutions, Community Funds} – 10%  
\textit{Certification, Quality Assurance, Tracking and Monitoring} – 12%  
\textit{District and State Management} – 2%  
* Technical Support is additional, 10%+ initially and 6% at scale  
\textbf{Conservative estimates confirm Benefit Cost Ratio of 25+ (over NF investment cost)} |
|----------|-------------------------------------------------------------------------------------------------|

Research In-house studies include:  
Water/Energy Savings;  
Earthworms, Birds population;  
Climate Resilience – Floods, Drought;  
Jeevamrutham – impacts/growth and yield responses; Alternatives Modified Saguna Rice Technology | PMDS and its impacts

Research Partners  
**International:** World Agroforestry Centre (ICRAF), UNEP, SIFF, FAO, CIRAD, GIZ, CLUA, Walter Jehne, etc.  
**Universities** - Reading, Edinburgh, Tufts, Cambridge, James Hutton, etc.  
**National:** ICAR/ICAR Institutes like IIFSR/Universities/KVKs | CEEW, CSTEP, WALMTARI, ASCI, PHFI | Res NGOs

Scaling Support to Others  
14-15 States – exposure and in discussion. Active engagement with majority of them - Kerala, HP, Gujarat, Odisha, MP, Rajasthan, Meghalaya, Bihar  
In partnership with Civil Society across Masterclasses for other countries - Africa, Latin America and Asia including Mexico, Rwanda, Indonesia
Learning-Training-Communication Architecture for Scaling

Urgency. Towards Scaling deep, up, out:
- Saturated AP, as a scaled model
- National/Global Resource Centre(s)
- Women SHG/Community Architecture
- Coalitions, Collaborators, Movements
- Evidence-based Research, Learning - Centre
- Digital Platforms, Models, Toolkits, Leaders
- Value-chains, Federated Collectives, Fair %
- Examples, Farmer Champions, Consumers
- NF Policy/Policies, Budgets, Linkages, Infra
- Theory of Change, Systems Changes

Input-Value-add-Output architecture

Pre-cultivation | Cultivation | Harvest | Post Harvest | Aggregation/Storage | Marketing/Processing

VC ownership; Local Value-addn; VC Service providers; Collectives, Entrepreneurs; Input-VA-Output Architecture; Branding, Traceability, Digital Platform(s)

Practitioner Cadres, NFFs, EYPs, FEs | SHGs, Collectives
Trainers, Learning Books, Walls, Kits, Modules, Material
Models and micro-models | Reference, Demo plots
Inspiration
Videos, Pictures, Stories, Songs, Multi-media Messages
Farmer-cadre connect, Local Channels, Social Media
Protocols – Package of practices, crop, zone wise
Participatory Farmer field schools, Learning, Literature
NF Annual Action plans
Online training platforms
Natural Farming Education
Crop Cutting Experiments
Research sites, locations, landscapes

APCNF conforms to all Elements of Agroecology
Food, Nutrition and Health Security
Employment
Soil Health and Water Security
Coastal Ecosystem Regeneration
Climate Resilience
Biodiversity

ZBNF Benefits

Cost
Benefit
Analysis of ZBNF Programme

CB – 73%; Institutions – 17%; Tracking – 8%; Management – 2%

Ecosystem and Health Benefits to Citizens
880,000 Farmers; Rs.314 Cr + Rs.100 Cr Fertilizer-Pesticides, Rs.12500/Ha/Yr; Electricity Savings, Rs.2500/Ha/Yr; Water Savings, 30%

Local Aggregation
Value-addition
Consumption
Marketing
Production

1 Million Farmers
Fertilizer-Pesticides, Rs.12500/Ha/Yr; Electricity Savings, Rs.2500/Ha/Yr; Water Savings, 30%

Microbes, Inoculants, Not inputs, no chemicals
Family: women, men, elders, children
SMF, Tenants, Landless, Beyond
Private, Commons, Landscape
Season, 365 days; all farmers, farms, practices
Mono, Multiple, Multi-layered, Integrated
Self, Local, Short VC, Higher Consumer Rupee
FNH Immunity Diversity-Security
Farmer-Consumer-Soil-Planet Health

Discussion
Food
Garden
Practice
Inputs
Funds
Records

Cost Benefit Analysis of APCNF Programme

Rs.15000 over 7-8 year per farm family
CB 77%, Institutions-Tracking 21%

Rs. 25 direct benefits
Cost Reduction
Risk reduction
Higher Yields
Better Prices

This borrowed earth needs to be returned in a better shape to our children ...

Thanks

apcnf.in