



Building Sustainable Seed Systems through Collectivization



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Understanding the Seed Crisis

Modern agriculture faces a critical challenge: the erosion of agricultural biodiversity, farmer dependency on corporate seed systems, and loss of traditional knowledge. ***These interconnected issues threaten food security and farmer sovereignty.***



సోమవారం మెదక్ జిల్లా జహీరాబాద్‌లో సోయాబీన్ విత్తనాల కోసం రైతుల భారీ క్యూ

Telangana as Seed bowl

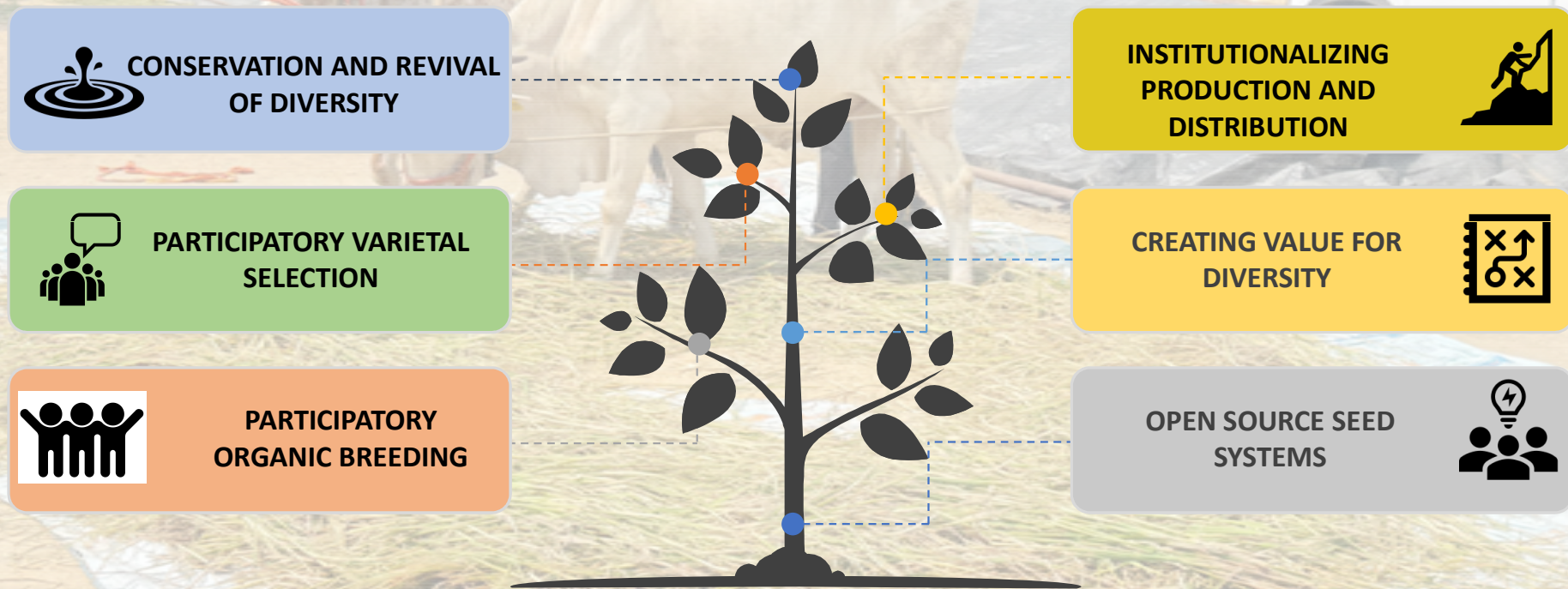
- **Seed Producing Villages:** ~1,500
- **Annual Seed Production Area:** >7.0 lakh acres
- **Annual Seed Output:** ~98.0 lakh quintals
- **Number of Seed Farmers:** ~3.2 lakh

	Crops/Seeds	Area in lakh acres	Production in lakh quintals
1	Varietal Paddy	3.50	70.00
2	Hybrid Paddy*	1.00	7.00
3	Cotton**	0.30	1.00
4	Maize	0.75	7.50
5	Red Jowar	0.45	5.00
6	Fodder Jowar	0.20	2.00
7	Bengal Gram	0.15	1.00
8	Redgram	0.03	0.18
9	Other Pulses	0.02	0.07
10	Groundnut	0.10	0.80
11	Soybean	0.50	3.00

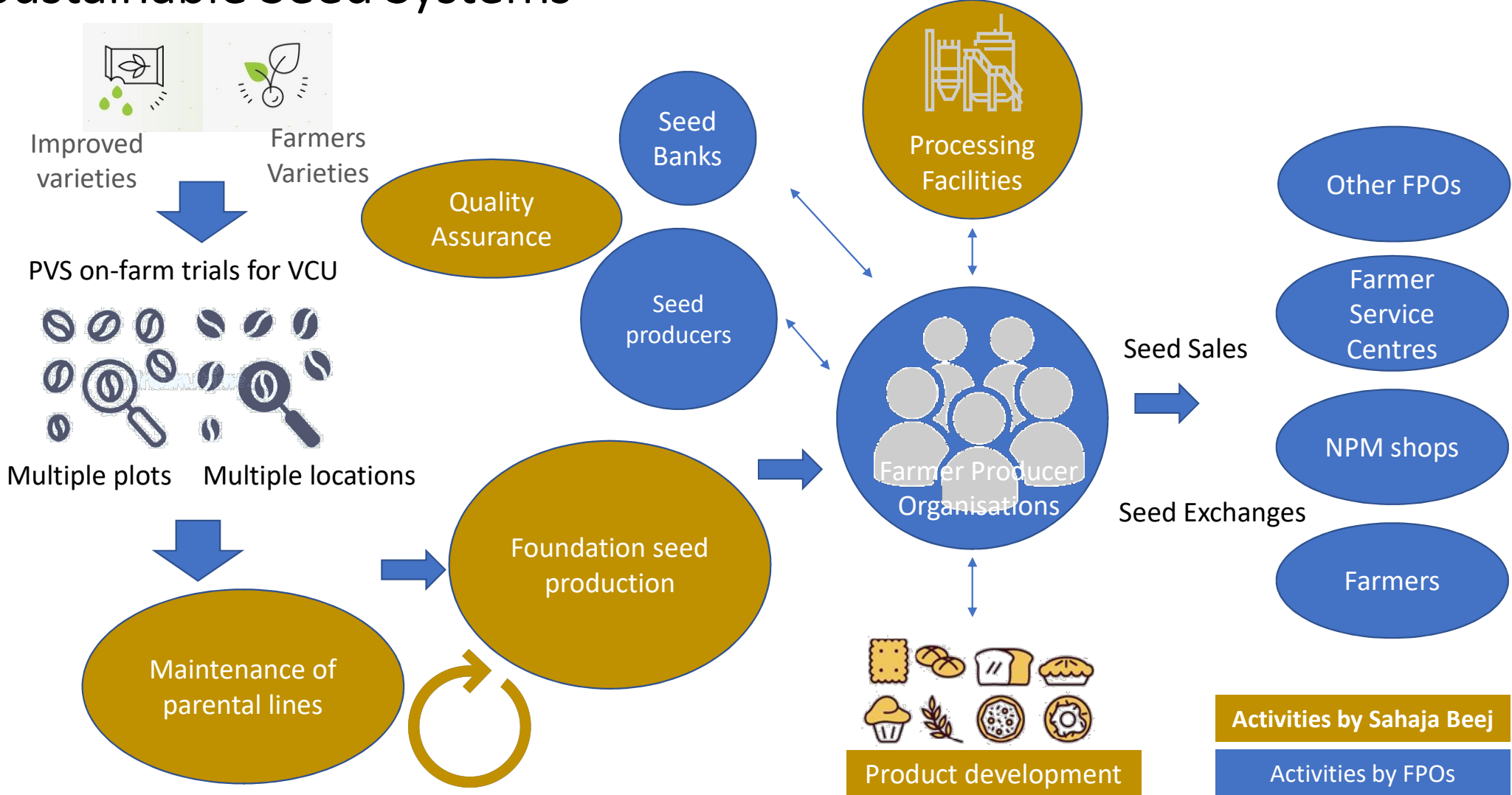
**Telangana meets ~70% of India's hybrid paddy seed demand and 30% of inbred paddy seed needs — NSAI, 2020*

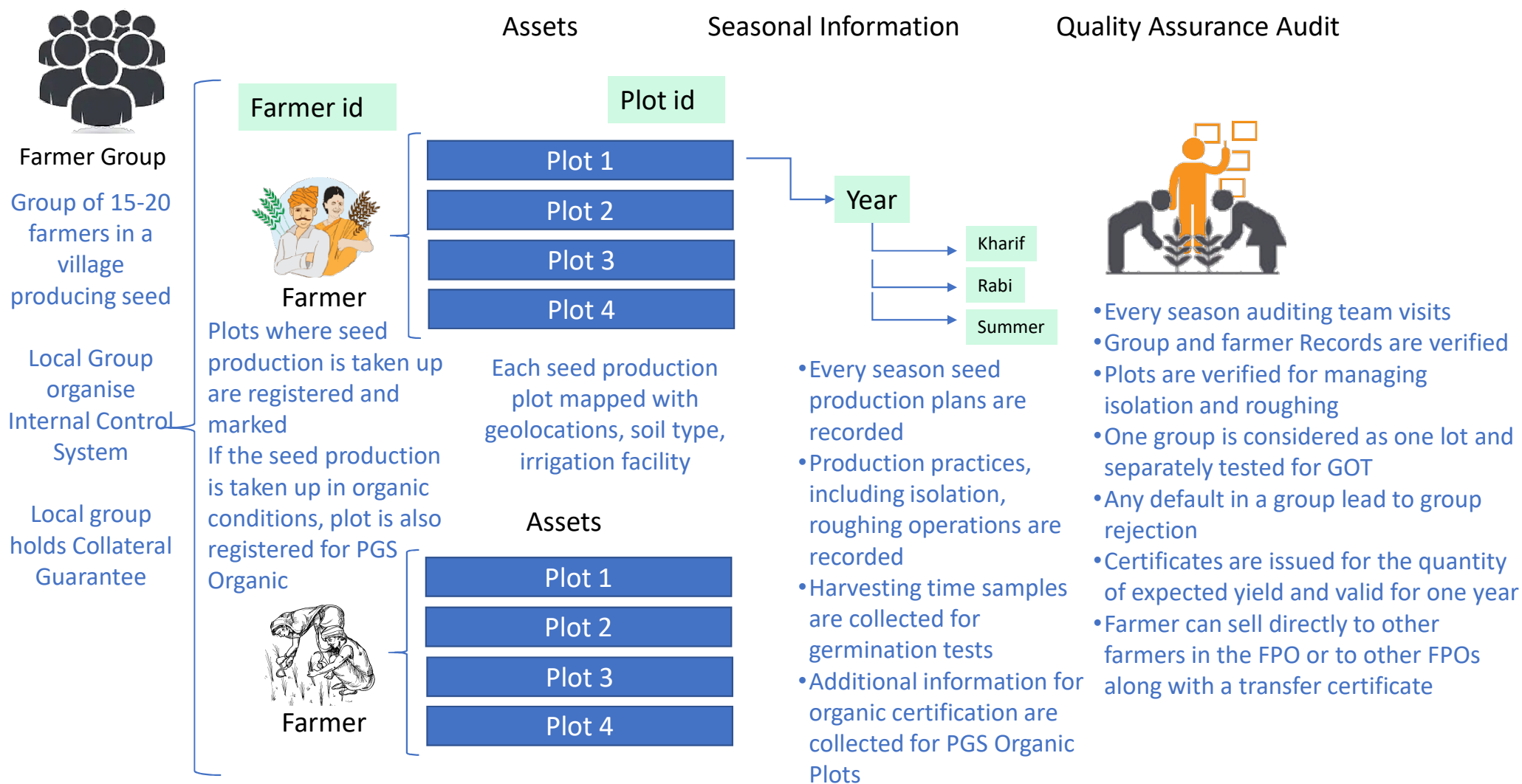
***Contributes about one-third of the country's total cotton seed production*

Key Initiatives on Strengthening Seed Systems



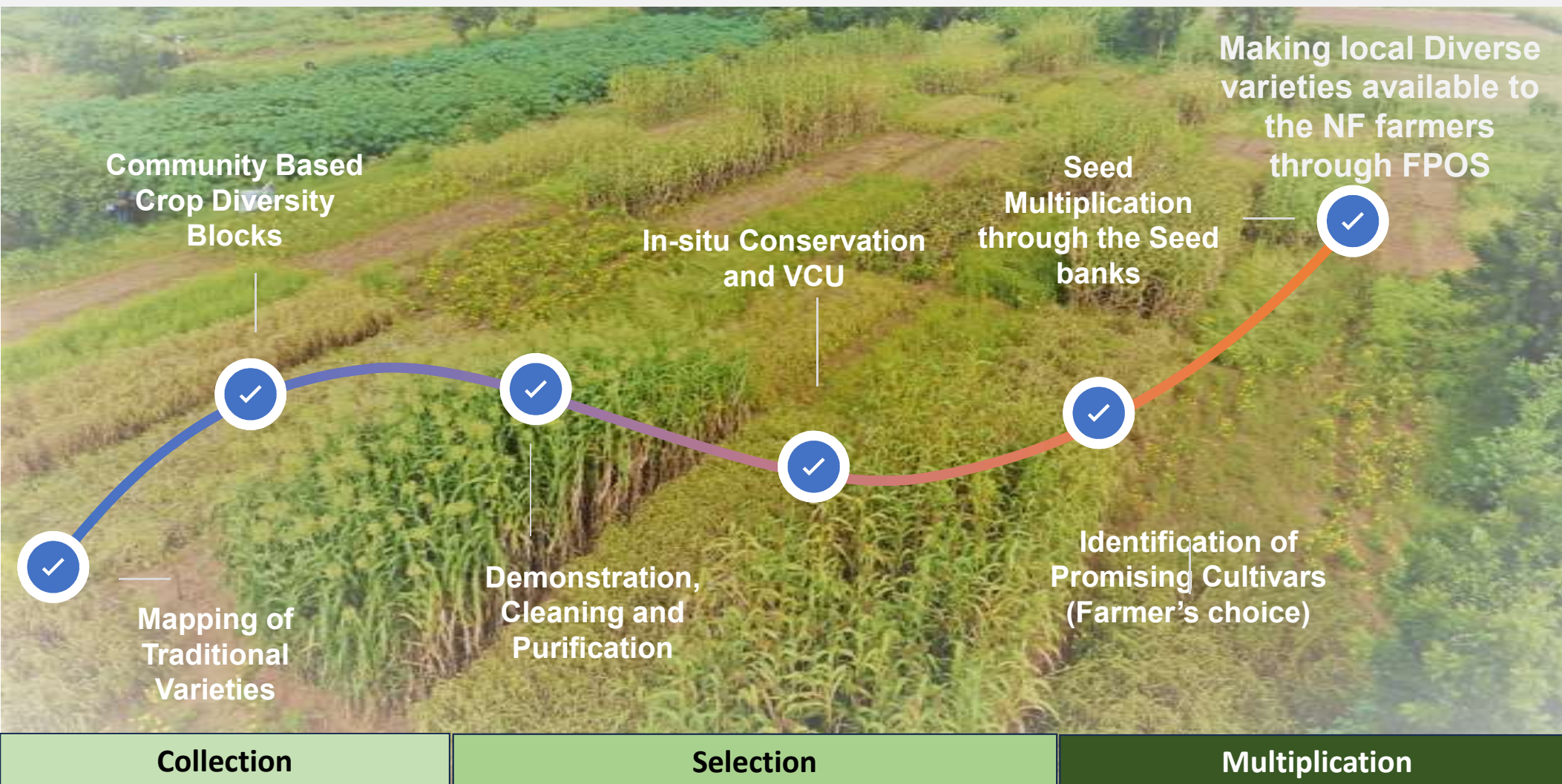
Sustainable Seed Systems





Quality Assurance for TL seeds through PGS System

Evolving Synergetic Seed Supply Chain for Traditional Varieties through FPOs



OUR REACH AND RESULTS SO FAR (2024 - 25)

9 Crops and 32 Varieties
marketed; 120+ varieties in
Conservation and
Popularization

02



01

Total Business
Turnover: INR 2.35
Crores

Overview of
Achievements



03

Reach: Over
15,000 acres and
built 50+
entrepreneurs

04

Engaged in Seed
Business: 34 FPOs



సహజ బీజ
మన భిక్షు - మంచి బీజ

సహజ బీజ పబ్లికేషన్లు పంటలు - సేల ఆర్టికల్స్‌లో ప్ర
కటించబడినవి. ఇవి ప్రజలకు అందుబాటులో ఉండేలా చేయడానికి ప్రయత్నిస్తున్నాము. ఇవి ప్రజలకు అందుబాటులో ఉండేలా చేయడానికి ప్రయత్నిస్తున్నాము. ఇవి ప్రజలకు అందుబాటులో ఉండేలా చేయడానికి ప్రయత్నిస్తున్నాము.

ధాన్యాలు	వనస్పదాంశాలు	మాంస గింజలు	పంటలు

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Challenges faced and Opportunities for TV's

1



High Investment Needs:

Biodiversity conservation requires significant financial and resource investments

2



Mono-Cropping Practices

Widespread mono-cropping practices, especially in Telangana, have significantly reduced agricultural biodiversity.

3



Synthetic Inputs

Heavy use of chemical fertilizers and pesticides promotes high-yielding varieties, leading to biodiversity loss.

4



Nutri Garden Kits:

There is immense potential to promote biodiversity through Nutri garden kits, which encourage the cultivation of diverse, nutrient-rich plants at the household level.

5



Promotion of Navadhanya Seeds:

Scaling up the use of Navadhanya as green manure can enrich soil health and support biodiversity

SPECIALITY RICE

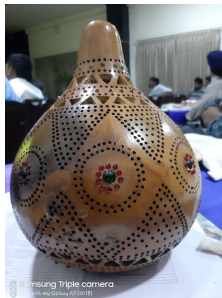


Directly from farmers

Diverse | Nutritious | Sustainable

Creating value for diversity

- Specialty rice varieties
- Minor Millets
- Desi cottons for direct spinning and weaving
- Mango diversity box
- Vegetables
- Value addition



Open-Source Seed System (Apna Beej)

for us means 'arrangements that facilitate and preserve freedom of access and use of plant genetic material, prohibit exclusive rights, and apply to any subsequent derivatives of those materials

Key principles

- **Freedom of access:** Any one committing to OSS agreement receives freedom of access and use for the material under Standard Material and Knowledge Transfer Agreements (SMTAs)
- **Equitable Benefit Sharing:** all players in the supply agree to equitable benefit sharing to sustain the initiative

Open-Source EULA on seed wrap

The seed is licensed by Apna Beej and by opening this packet you have the freedom to use these seeds any number of times in your field or exchange with other farmers for commercial crop production (other uses are governed by other material transfer agreements). In return, you pledge not to restrict others' use of these seeds or their derivatives by patents, licenses or other means, and to include this pledge with any transfer of these seeds.*

End User License Agreements

Our tiered EULA structure balances accessibility with sustainability, offering free reuse for individual farmers while implementing fair benefit-sharing for commercial operations and maintaining open-source principles for breeding activities.



Individual Farmers: Free Reuse

Implemented through seed wrap agreements, farmers enjoy unlimited freedom to use and reuse seeds for their own cultivation without any restrictions or fees.



Commercial Seed Production: Fair Contribution

Farmers and cooperatives engaged in commercial seed sales contribute 1-2% of revenue (volume-dependent) to sustain the network. They can use varietal names with unique branding.



Breeding New Varieties: Open Innovation

Breeders must acknowledge source materials, maintain freedom for derivative use, declare derivatives as open-source, and prohibit genetic modification to preserve seed integrity.

Key Requirements for Derivative Varieties

- Clear acknowledgement of breeding material sources
- All derivatives distributed under open-source arrangements
- Genetic modification explicitly prohibited
- Freedom maintained for all future derivative uses

Upcoming Plans for further strengthening

1. **Seed Production & Diversification:** Expand production to include pulses and oilseeds (promote crop diversification),
2. Establishment of **Seed Processing Unit**
3. Develop an **ERP module** for seed indents, order tracking, and inventory management.
4. Building **Public-Private-Partnership** (*NABARD, SERP, Research Institutes, Seed companies*) To enhance scale, quality, and market reach.
5. **Market Expansion:** Engage with more FPOs including those promoted by other agencies, to expand Sahaja Beej.
6. **Capacity Building:** Continue to provide orientation and training for FPO teams and strengthen coordination through CBBO support
7. **CRM Tool Integration:** Introduce a CRM tool to track interactions with FPOs and farmers, manage feedback, grievances, and service requests, and marketing campaigns.

Reach out us;
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