

Promoting NUS for the masses

The experience of DHAN Foundation



**M. Karthikeyan,
Program Leader**

We are working on

- Small millets
- Uncultivated greens
- Medicinal plants
- Tree crops
- Backwater flora and fauna

Small millets



Mainstreaming small millets

I. Offers more nutrients

Rich in calcium, iron, vitamin B & protein

II. Medicinal properties

Low glycemic index and rich in dietary fibre

III. Additional contribution of SMCS to nutrition

Healthy associated crops - *Horsegram, field bean, niger, etc.*

Many uncultivated greens - *20 in Jawadhu hills and 32 in Anchetty*

IV. Climate smart crops

V. Nutritious fodder

In spite of this, area, production and consumption has drastically declined

INTEGRATED
MULTIPLE
CONSTRAINTS

*NASCENT
TECHNOLOGY AND
MARKET
DEVELOPMENT*

Inadequate Policy Support

**Production
constraints**

**Inadequate
access**

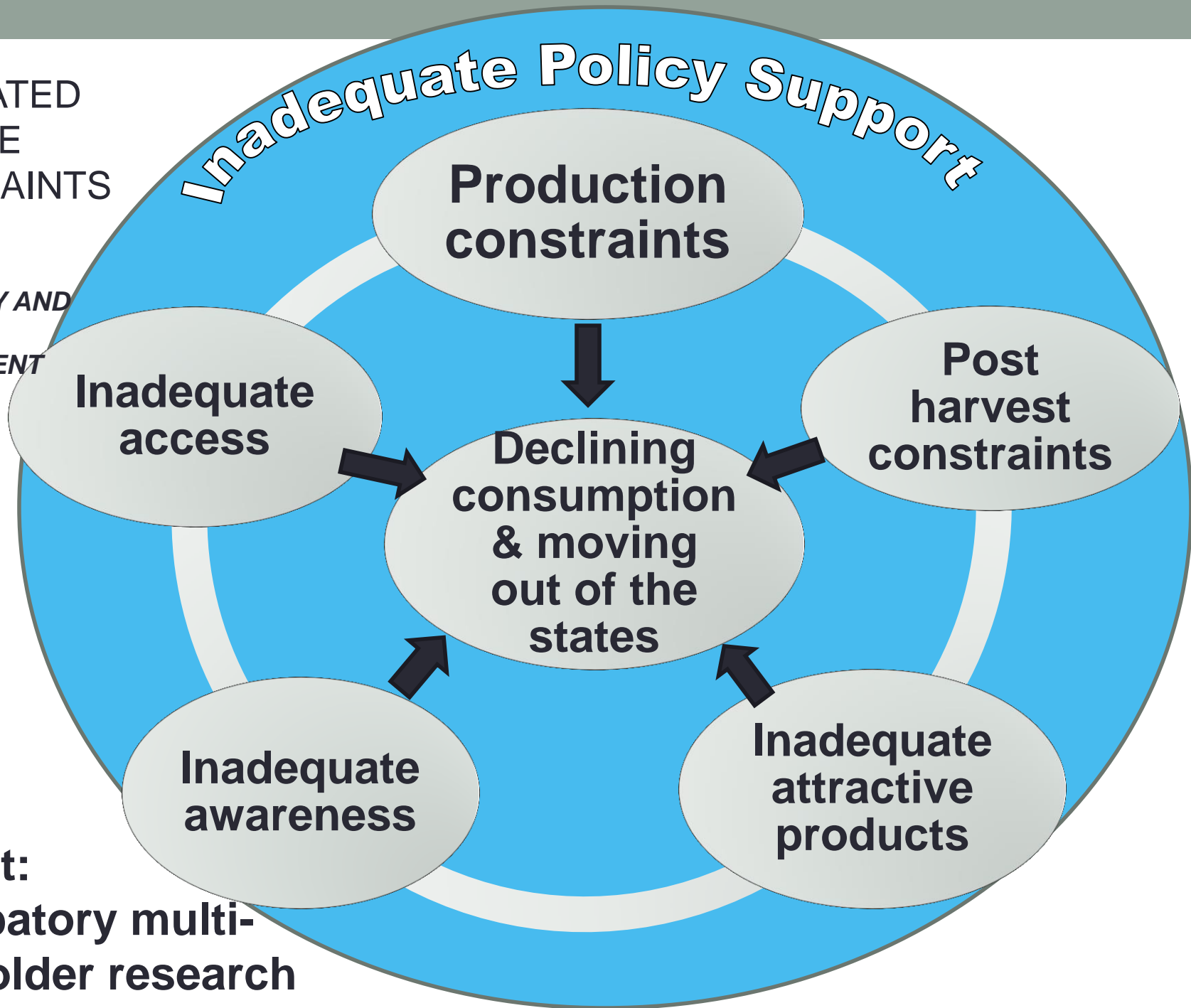
**Post
harvest
constraints**

**Declining
consumption
& moving
out of the
states**

**Inadequate
awareness**

**Inadequate
attractive
products**

**Catalyst:
Participatory multi-
stakeholder research**

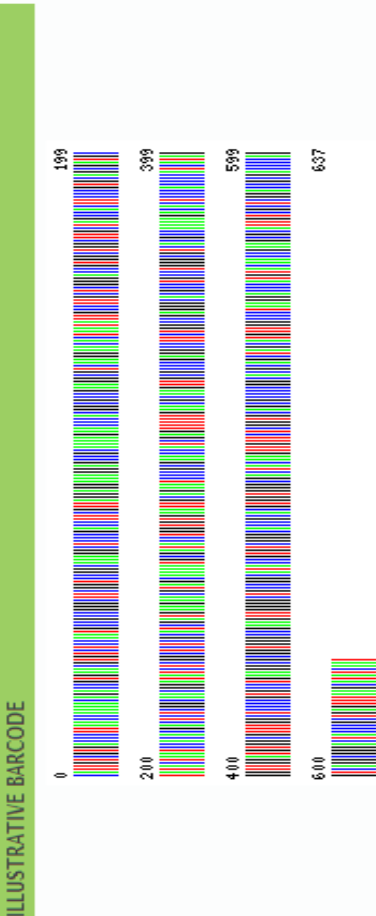


PRODUCTION ENHANCEMENT

Enhancing varietal diversity, Improving productivity and Reducing drudgery

Enhancing access to varietal diversity

- 132 local varieties identified and characterised.
- DNA barcoding technique evolved for SMs.



	Local	Released	Pre-Released
Little millet	25	14	
Finger millet	45	39	31
Barnyard millet	12	3	5
Kodo millet		2	4
	82	58	40

- 1-4 farmer preferred varieties/ crop selected
- 3 varieties entered national evaluation system

Increasing productivity thro' location specific SAP



Plough models introduced



Guli method of ragi planting



Line sowing

STORAGE SYSTEM

Grain storage System:
GrainPro's safe storage products all operate on the same simple organic mechanism. If a container is airtight, any infesting insects, microorganisms, and the stored commodity through their respiration alone will create a low-oxygen, high-carbon dioxide environment. This will inhibit mold growth and kill the insects.



Grainpro SuperGrain Bags

It is a water-resistant and gastight storage solution for a vast range of dry agricultural commodities. It is used as an inner liner for jute bags and ordinary sacks.



Grainpro Cocoon

The ultimate solution for quality preservation of agricultural commodities in bags.

Grain pro bag

Sustainable Agriculture Practices

wooden harrow

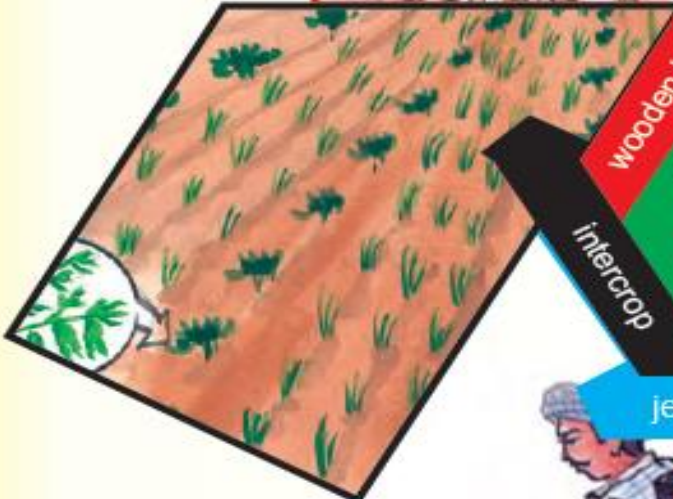
good varieties

sieving

intercrop

jeevamrutham

thinning



Reducing drudgery thro" testing and introducing harvester and thresher- 12 to 20 man days saved & can save harvest from rain damage



Reducing drudgery through dehuller assembly development



**Double Chamber
Centrifugal Dehuller-
TNAU**

**Rubber Roller
Dehuller- CFTRI**



**Compartment
Separator- CFTRI**

CONSUMPTION ENHANCEMENT

Proving health benefits, developing products, promotion, marketing and inclusion in public food programs

Proving health benefits & developing healthful products - TNAU



75%



75%



100%



50%



Promoting consumption in production areas



Folk art and skit for promotion



Attractive recipes demonstration



Dehuller establishment

Promoting consumption thro' market

Bulk products- Rice,

Shortening of value chain for regional consumption

- Sold 182 tonnes to 77400 consumers
- Created a network of retailers to reach masses
 - Reaching through women/ farmer federations
 - Able to reduce price by 10-50 %
 - Increased price realisation to farmers by 24%
- Promotion of 2 FPOs with small millet farmers

Promoting consumption thro' market

Value added products
for urban poor

127 Street vendors
strengthened thro'
capacity building on
hygiene and registration
with food safety
authorities



Promoting consumption thro' public food programs

SM snacks/ tiffin in schools in Malkangiri, Odisha



Pilot testing of feeding in ICDS centres- WASSAN



POLICY ADVOCACY

Policy studies, policy consultation
events and networking of stakeholders

Policy advocacy

- Review of existing policies relevant for small millets
- Policy seminars in Tamil Nadu, Odisha and Delhi
- Networking of stakeholders across the value chain

Uncultivated greens



Medicinal plants

- Maruthi Mooligai Producer company for poor 1200 herb collectors in the Western Ghats
- -Mostly women
- Linking with national and international markets to enhance income



Neglected tree crops

Garcinia gummicuta



Stakeholders meeting

Training on grafting

Community nursery

Local entrepreneurs devt.



Pommelo
(Citrus
maxima)



Backwater flora and fauna

- Organising the fringe community into producer groups
- Working Capital for members
- Resource enhancement



Thank you!

