



# Andhra Pradesh 'Zero-Budget' Natural Farming

## Vision 2024: A Systemwide Transformation

50 million people | 6 million farmers | 8 million hectares



# Agriculture and Food Crisis

## Farmer Distress

High Cost of Cultivation  
(Seeds, Fertilizers, Pesticides)

Prolonged Dry Spells,  
Droughts, Crop Failures

Acute water shortages, Drying of  
Borewells

Unseasonal Rain,  
More Frequent Cyclones

Problems of Tenants, Rural-Urban  
Distress Migration

Market Uncertainty



# Agriculture and Food Crisis

## Consumer Food Plate



**Food Scarcity**  
**Chemical Residues**  
**Lack of Nutrients**  
**Health Hazards**



# Agriculture and Food Crisis

## Environment crisis

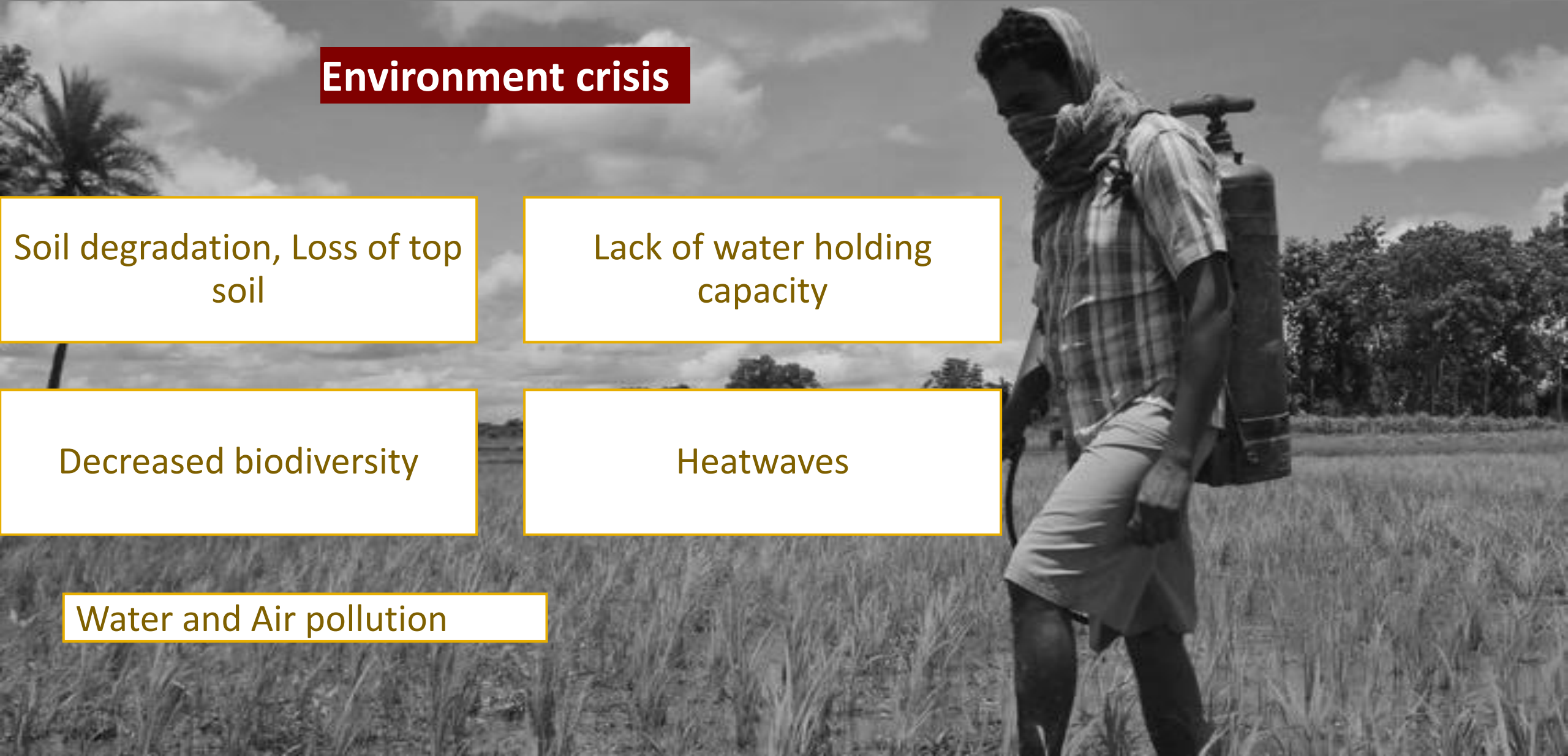
Soil degradation, Loss of top soil

Lack of water holding capacity

Decreased biodiversity

Heatwaves

Water and Air pollution





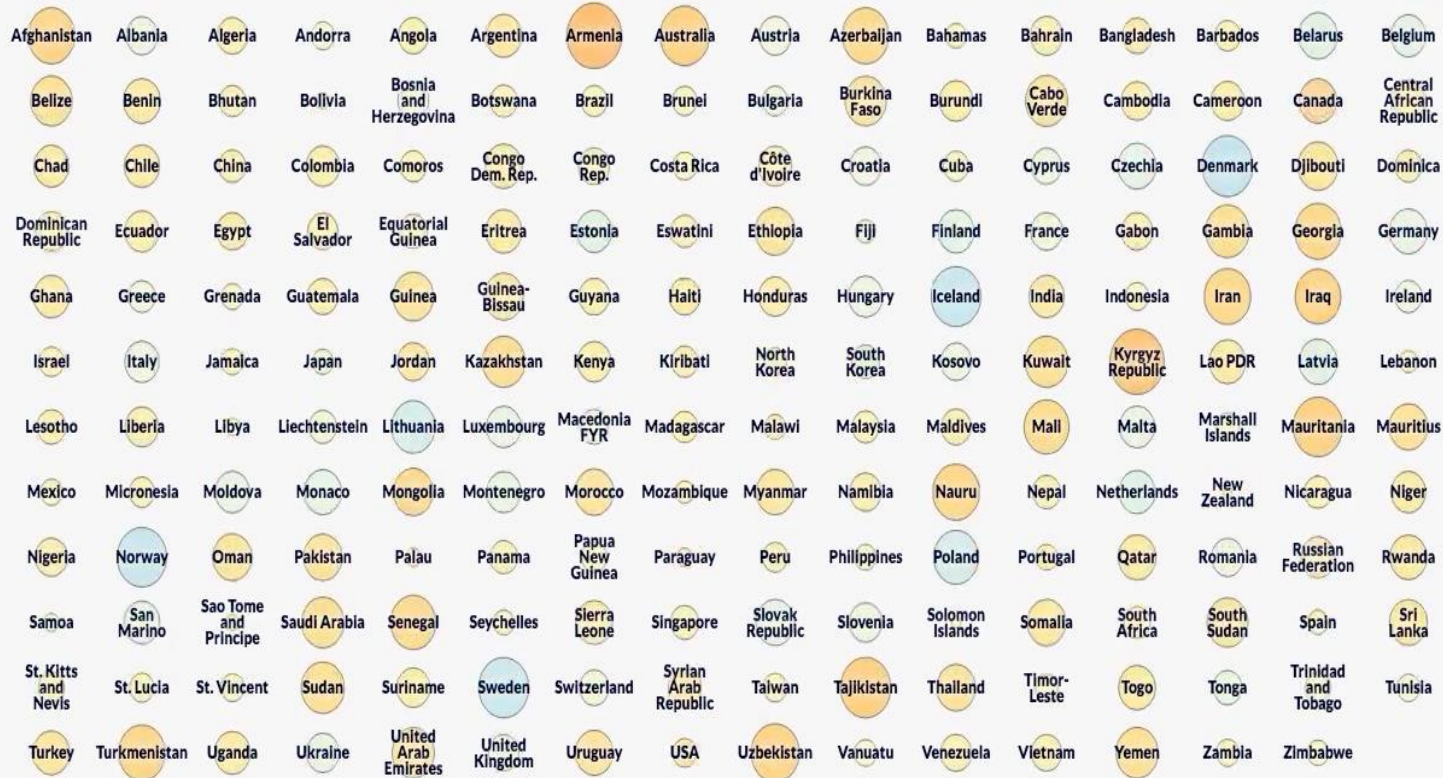
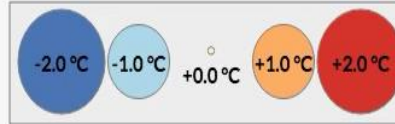
# Climate Crisis

## Global Warming

### TEMPERATURE CHANGE

Years 1900–2018 & Projections 2020s–2090s

1980



#### Data sources:

Berkeley Earth temperature analysis (1900–2018)  
The 'rcp45' experiment of the CMIP5 (2020–2100)  
Base period 1951–1980.

Video license: CC-BY-4.0  
Antti Lipponen (@anttilip)

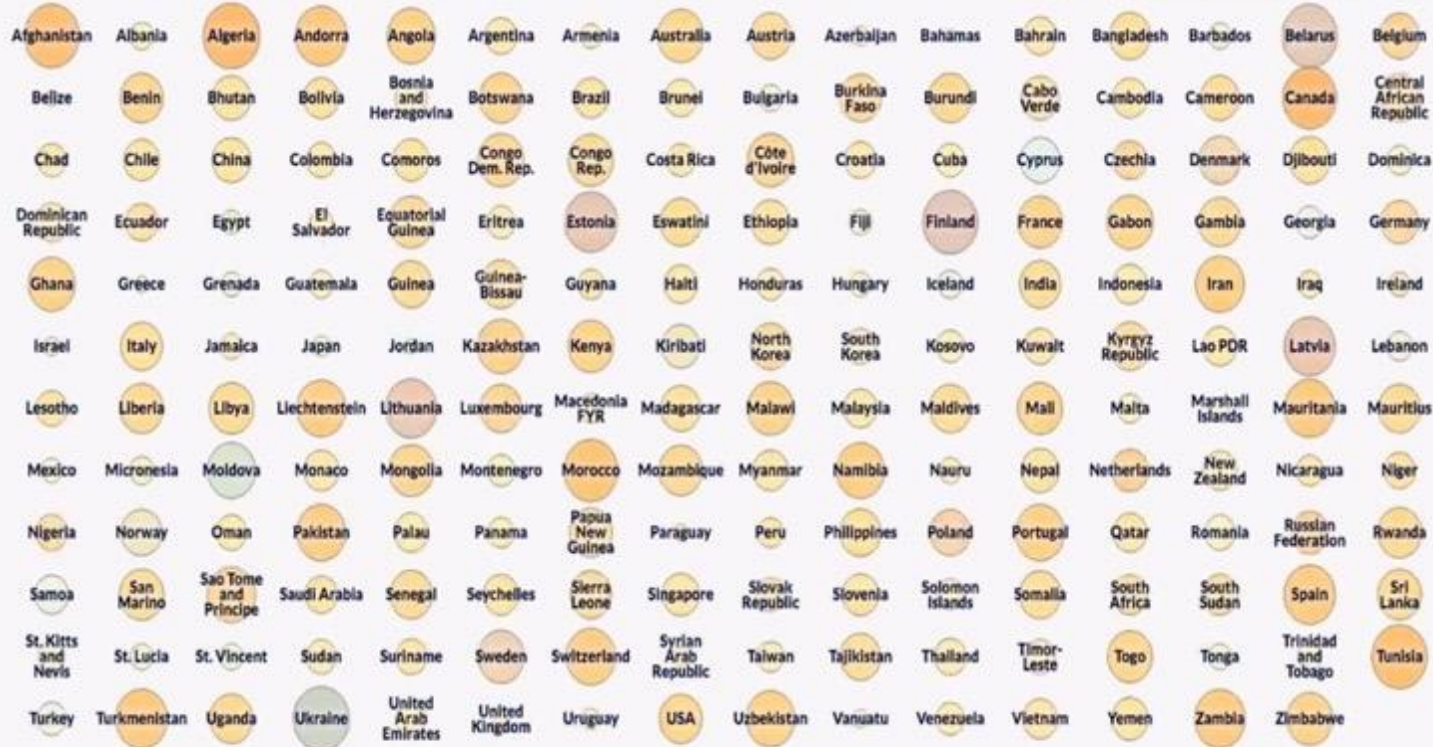


# Climate Crisis

## Global Warming

### TEMPERATURE CHANGE Years 1900–2018 & Projections 2020s–2090s

1988



Data sources:  
Berkeley Earth temperature analysis (1900–2018)  
The 'rcp45' experiment of the CMIP5 (2020–2100)  
Base period 1951–1980.

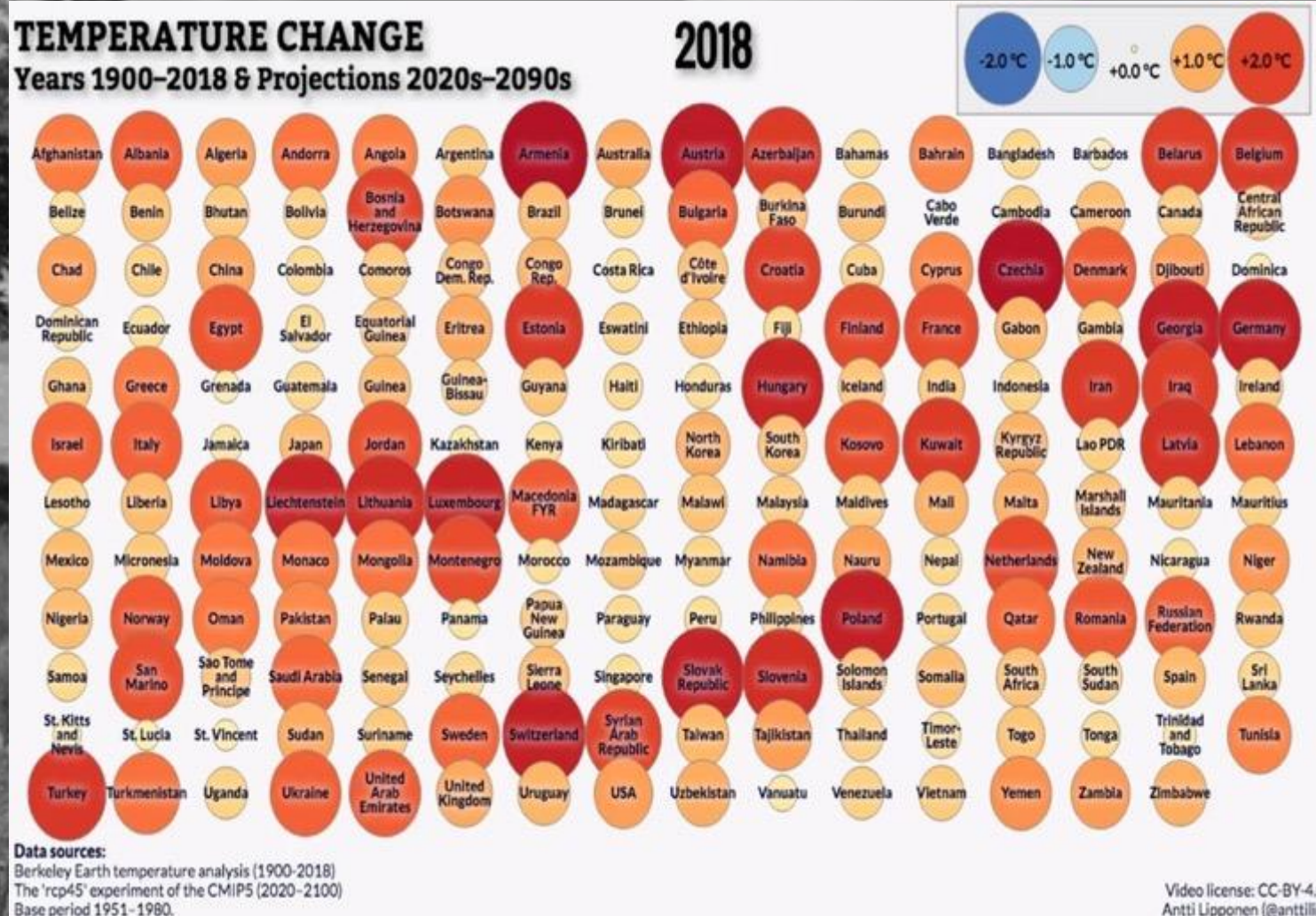
Video license: CC-BY-4.0  
Antti Lipponen (@anttilip)





# Climate Crisis

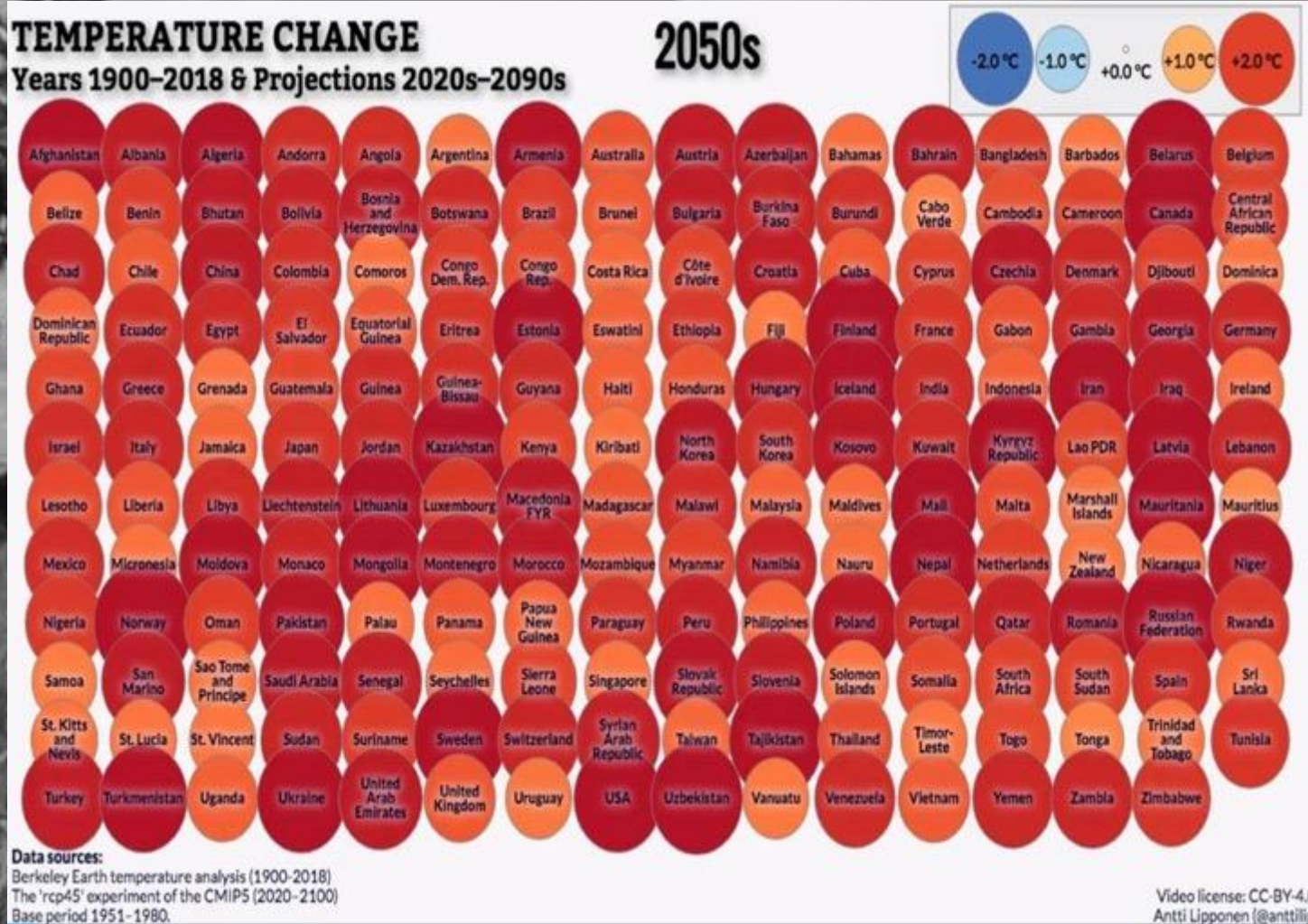
## Global Warming





# Climate Crisis

## Global Warming



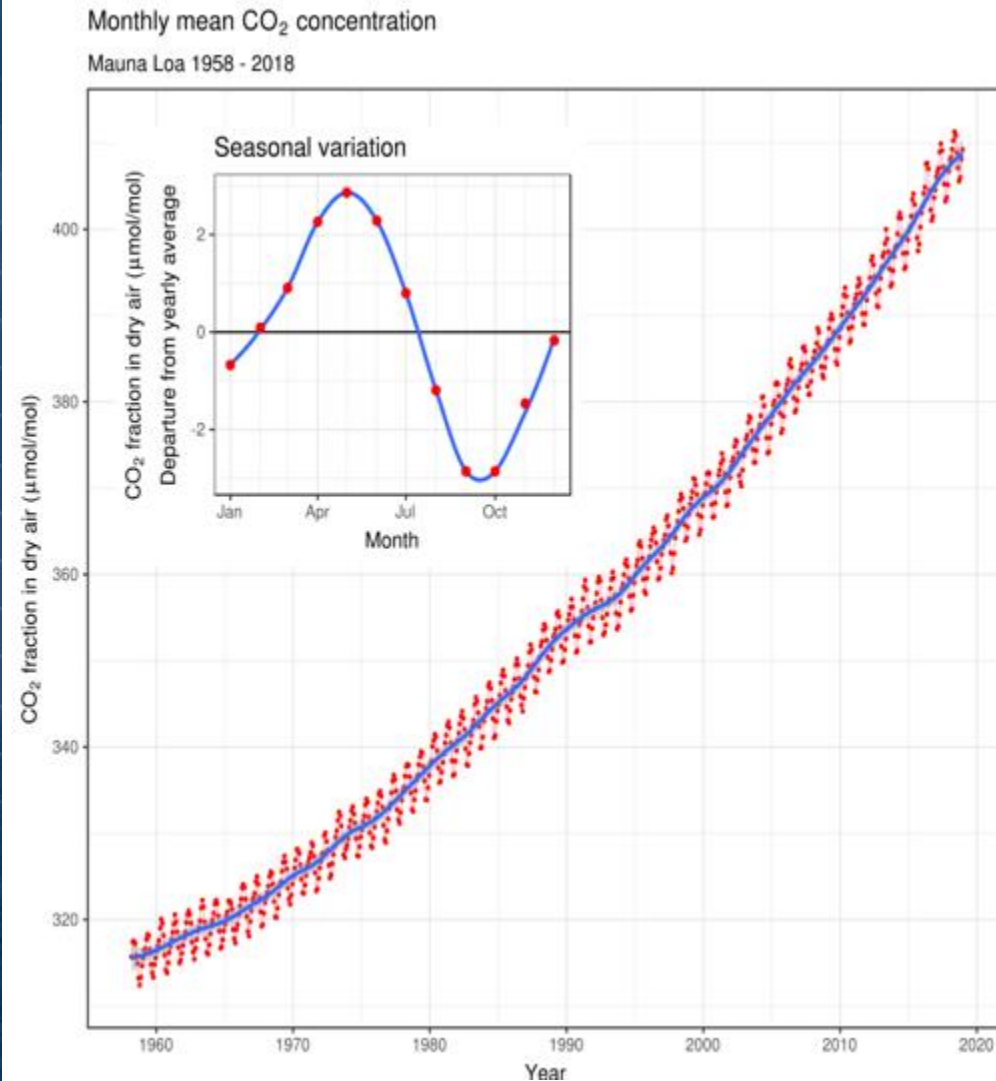


# Climate crisis

## The relentless rise of carbon dioxide



Source: NASA, Global Climate Change

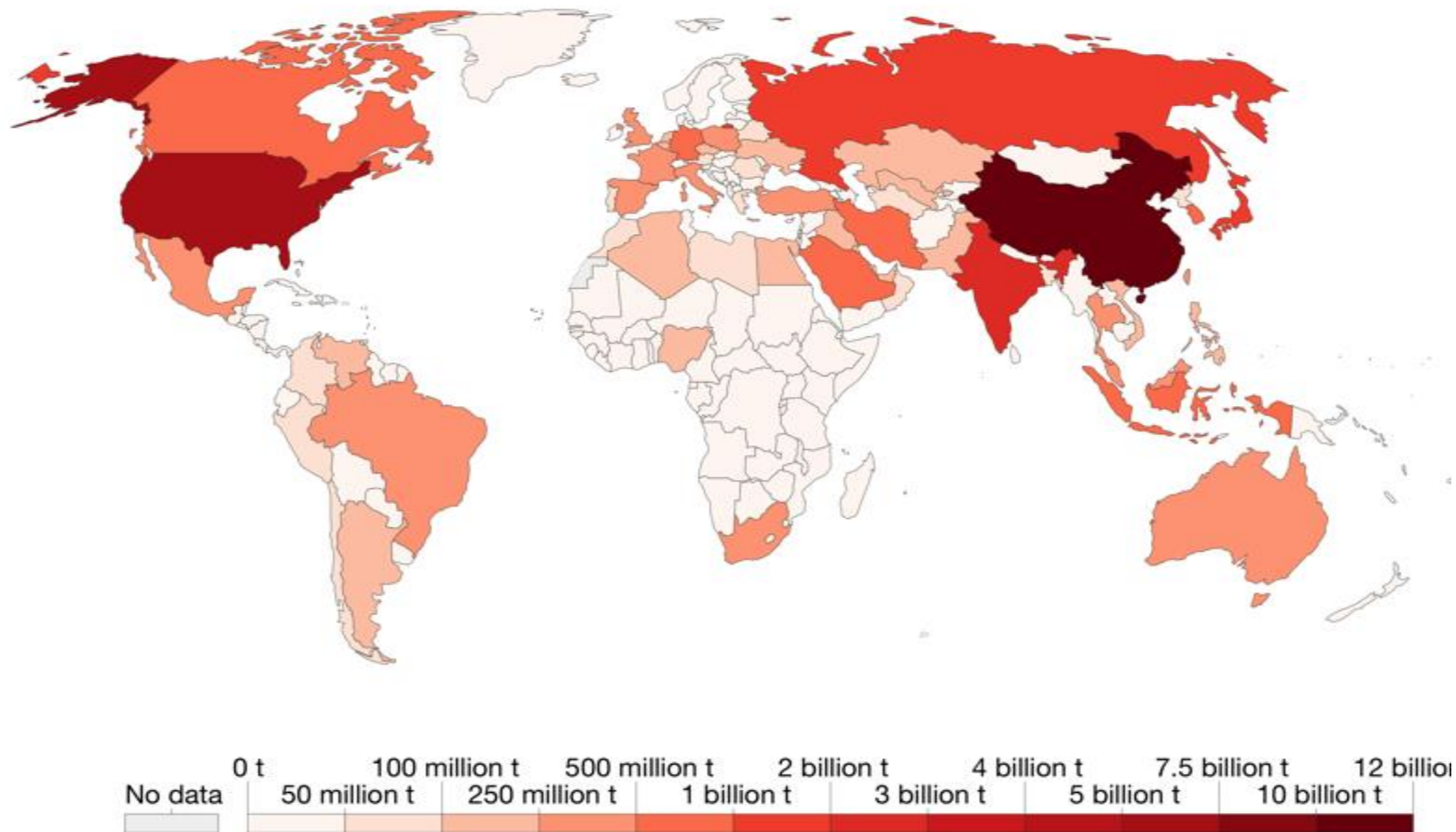


Source: R F Keeling, S. J Walker, S.C Piper, A. F Bolienbacher

# Role of Agriculture in GHGs – 24%

*Steady loss of soil organic matter - only 60 harvest years*

Annual CO<sub>2</sub> emissions, 2016  
Annual carbon dioxide (CO<sub>2</sub>) emissions, measured in tonnes per year.



- Deforestation
- Burning forests and Crop residues
- Ploughing
- Keeping lands Fallow
- Excess Irrigation
- Wind and Water Erosion
- Biocides – Chemical fertilizers and pesticides

Source: Global Carbon Project; Carbon Dioxide Information Analysis Centre (CDIAC)  
OurWorldInData.org/co2-and-other-greenhouse-gas-emissions/ • CC BY



# Climate injustice - disproportionate burdens

Stealing the  
future of  
children in  
front of  
their very  
eyes



Children



Farm  
Workers



Women

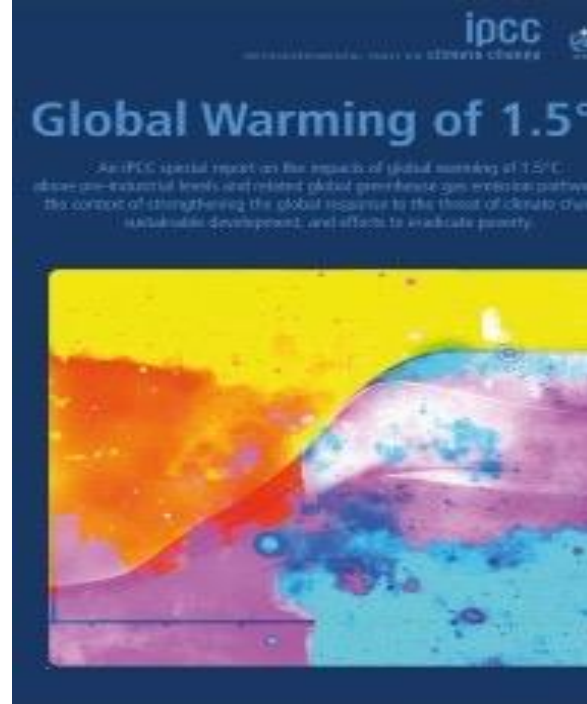


# IPCC 1.5 SR: Warning

Intergovernmental Panel on Climate Change, Oct 2018

To limit warming at 1.5°C, governments and private businesses **must make unprecedented changes**, on a sweeping **global scale**, in:

- *energy systems*
- ***land management***
- *building efficiency*
- *industrial operations*
- *shipping and aviation*
- *city-wide design*



*UN Chief Executives Board Meeting, 09 May 2019*

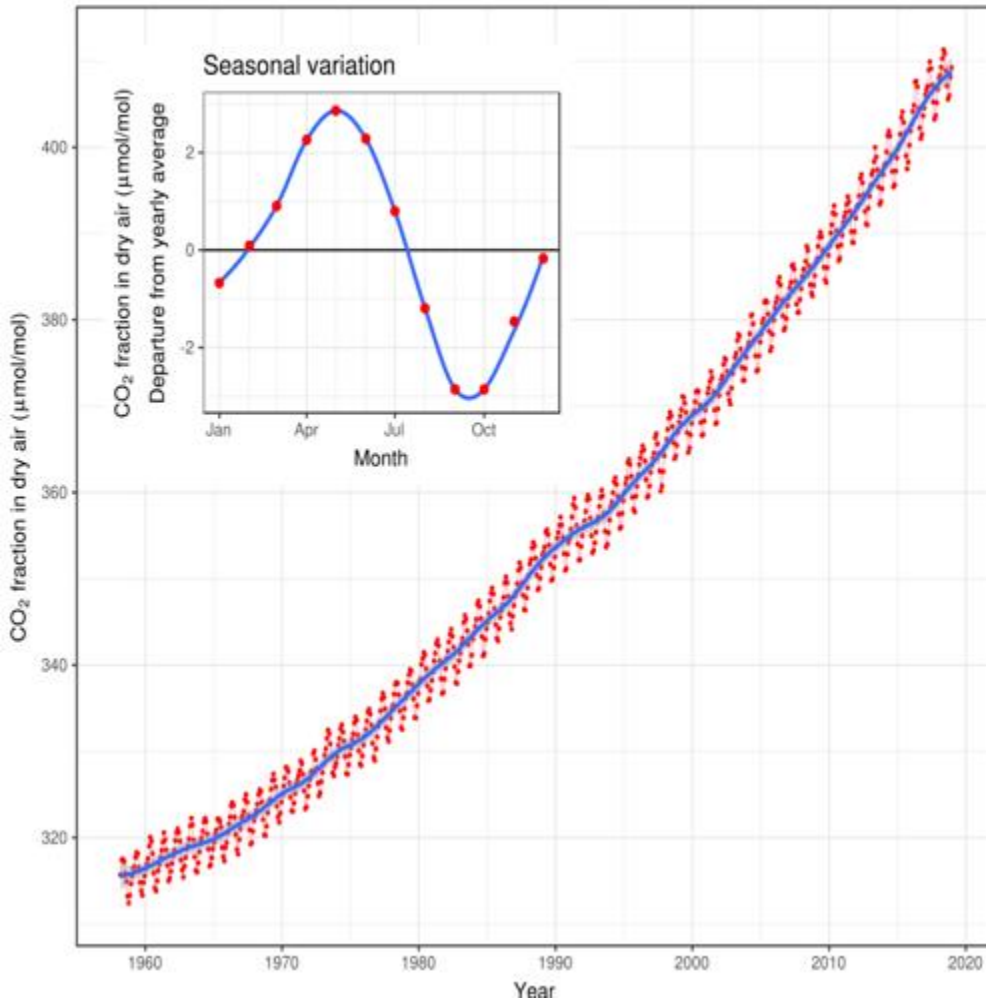
**Joint Appeal:** UN Calls Upon Member States to Pursue Ambitious Climate Action

We have **12 years** to limit climate change catastrophe, warns UN



# Climate solution - drawdown

Monthly mean CO<sub>2</sub> concentration  
Mauna Loa 1958 - 2018

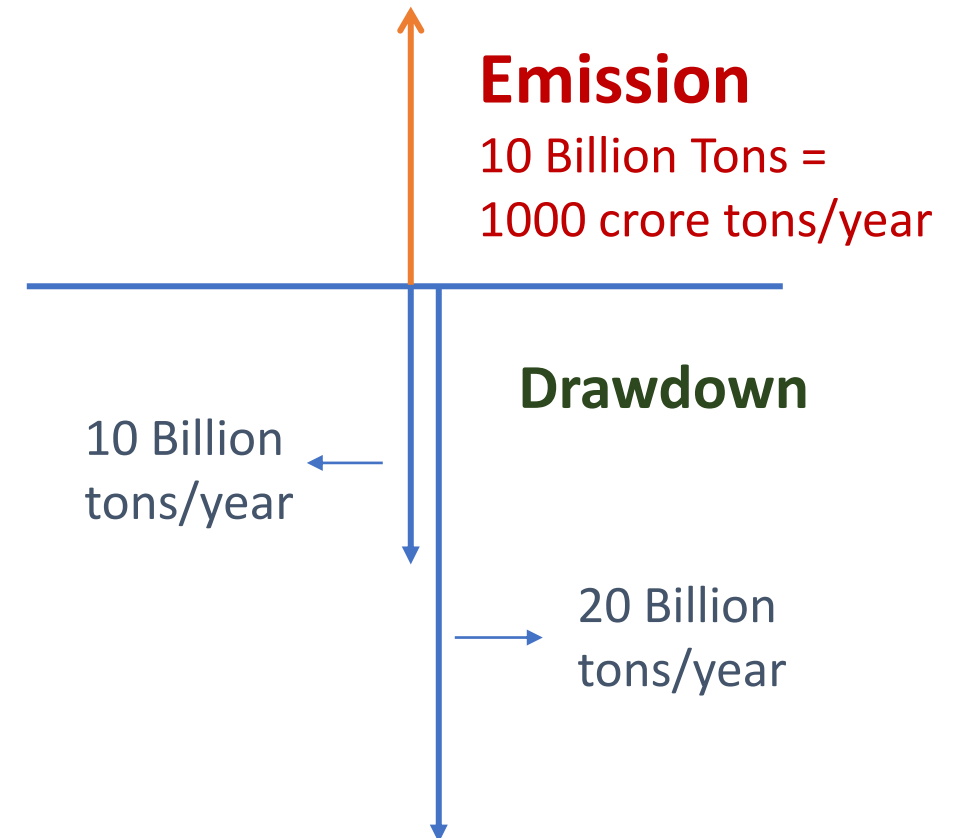


Source: R F Keeling, S. J Walker, S.C Piper, A. F Bolienbacher

## Carbon: emissions and drawdown

CO<sub>2</sub>  
Half Life  
100 years

Humus  
Stable Carbon  
500 to 2000 years

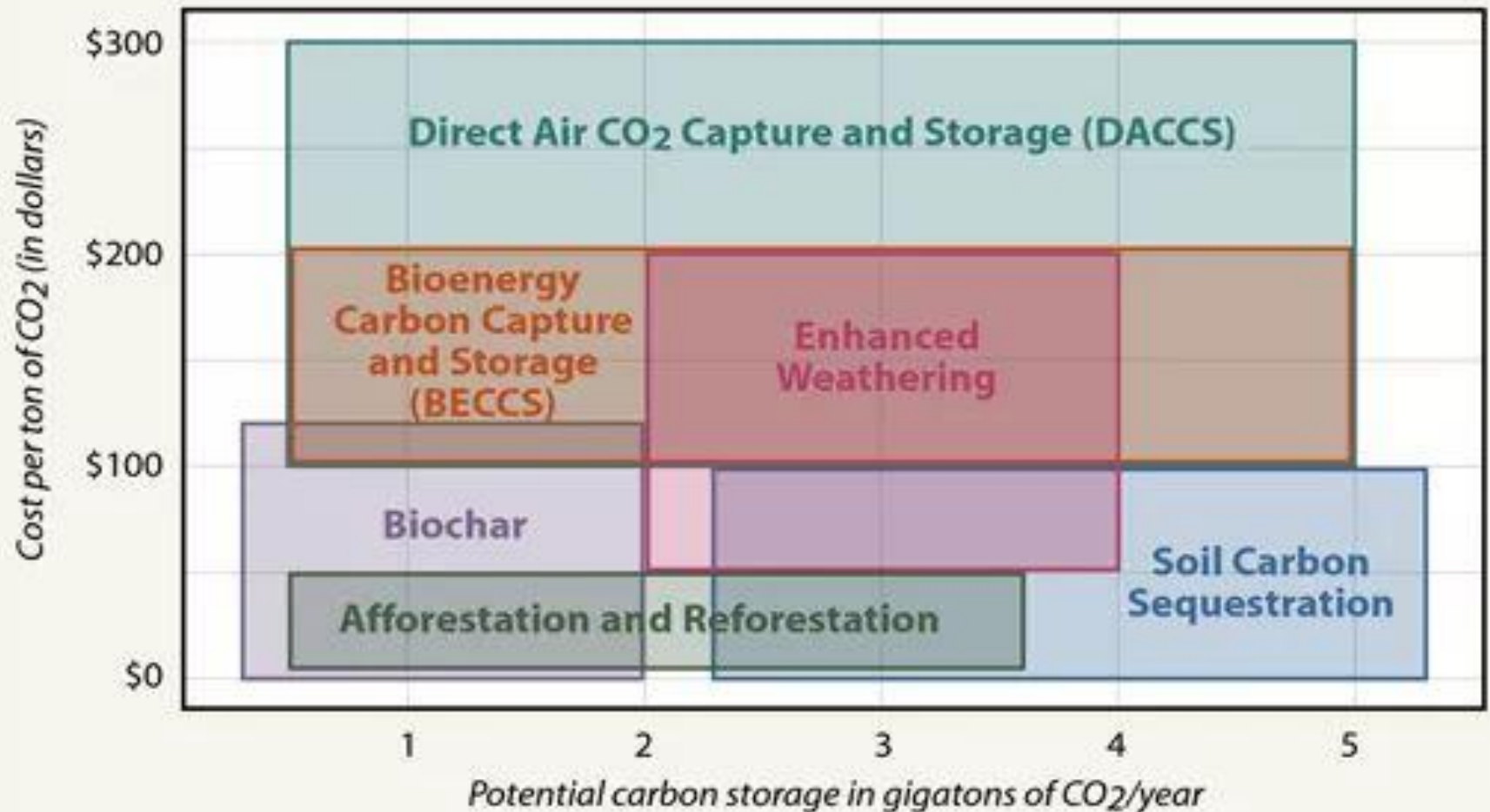


## Intergovernmental Panel on Climate Change (IPCC)



## How Do Carbon Storage Techniques Stack Up?

To meet the goals of the Paris climate agreement and keep global warming under 1.5 degrees Celsius, the world will have to increase the amount of carbon dioxide pulled from the atmosphere, the IPCC reports. It compared the costs and storage potential of six key methods of carbon dioxide removal. Soil carbon sequestration is one of the cheapest with the most potential.





# 80 calibrated solutions to reverse global warming

---

**Regenerative Agriculture**  
could result in *reduction of*  
*23.2 gigatons of carbon*  
*dioxide, from both*  
*sequestration and reduced*  
*emissions.*

NEW YORK TIMES BESTSELLER

# DRAWDOWN

THE MOST COMPREHENSIVE  
PLAN EVER PROPOSED TO  
REVERSE GLOBAL WARMING  
EDITED BY PAUL HAWKEN



# Best Agriculture practices to Reverse Global Warming



Regenerative  
Agriculture



Conservation  
Agriculture



Silvopasture



Tree  
intercropping



Multistrata  
Agroforestry



Farmland  
restoration



System of Rice  
Intensification



Nutrient  
Management



Farmland  
Irrigation





# ZBNF is farming in harmony with nature – it is a transformational technology

## *Mother nature has solutions to all these problems*

### Safeguarding our collective *future*

#### Farmers' welfare

- Reduced costs and risks, increased yields, regular income, climate change resilience

#### Freedom from hunger

- More food, safe food and nutritious food

#### Youth welfare

- Reverse migration to villages

#### Environment

- Enhanced soil health, water conservation, regenerated coastal ecosystem, biodiversity.



# ZBNF incorporates all the recommended best Practices for Climate Change Adaptation - Four Wheels of ZBNF



ZBNF has a critical role in soil carbon Sequestration

## Beejamrutham

**Microbial seed coating** through cow urine and dung -based formulations

## Jeevamrutham

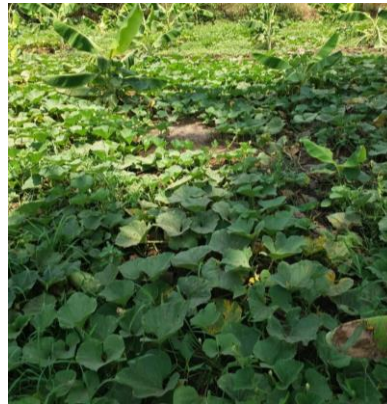
**Enhance soil microbiome** through an 'inoculum' of cow dung, cow urine, soil, etc

## Achhadana

Ground to be kept **covered with live crops** and crop residues as **mulching**

## Waaphasa

Fast buildup of soil humus through ZBNF leading to **soil aeration** and **water vapor harnessing**





# Other Principles and Practices in ZBNF



**Use of 'indigenous' cow – for cow-dung and urine. One cow is enough for cultivation of 30 acres**



**Botanical extracts – for pest management**



**Minimal tillage – ground becomes soft and porous with ZBNF practices**



**All inputs to be made within the village – nothing should be purchased from outside**

***The cost of production of the main crop is recovered from the income from the short duration, inter crops ( 3<sup>rd</sup> wheel) – hence the name 'Zero budget' Natural farming***

# AP ZBNF Programme at a glance



**ZBNF extension in villages**

- Farmer driven extension
- Women Self Help Groups
- Natural Farming fellows

Particulars	2018-19	2019-20	Coverage
No. of Mandals covered	664	664	100%
No. of G.Ps	3011	3011	23%
No. of Women SHGs	1,41,361	1,61,296	22%
No. of Farmers enrolled	5,23,000	5,80,000	9%
No. of landless, SC, STs and other		3,00,000	
<b>Total</b>	<b>8,80,000</b>		



## Coverage of farmers

SC 17% | ST 11% | OBC 46% | OC 24% | Minority 2%

Lower cost

Higher Yields

Improved soil and human health

Year	Funds Received		Rs. cr
	RKVY	PKVY	Total
2015-16	34.04	18.34	52.38
2016-17	45.91	13.3	59.21
2017-18	38.38	10.93	49.31
2018-19	63.00	90.32	153.32
<b>Total</b>	<b>181.33</b>	<b>132.89</b>	<b>314.22</b>

**Funds from APPI: Rs. 22.88 cr has been released out of 100 cr committed over 5 years**



# ZBNF IMPACTS

Centre for economics and social  
studies – Crop Cutting  
Experiments evaluation  
**Yields - Kharif 2018**

Yield Comparison between ZBNF and Non ZBNF (CESS CCE Kharif 2018)

Crop	Condition	ZBNF Yield in Kg/Ha.	Non ZBNF yield in Kg/ha.	Percentage Change in Yield over ZBNF (%)
Bengalgram	Rainfed	1769	1720	3%
Cotton	Irrigated	2183	1652	32%
Groundnut	Irrigated	1713	1622	6%
Maize	Irrigated	5204	3987	31%
Paddy	Irrigated	4724	4948	-5%



# ZBNF IMPACTS

Centre for economics and social  
studies – Crop Cutting  
Experiments evaluation

**Cost of cultivation (Rs/Ha) - Kharif 2018**

Cost of cultivation ZBNF Vs Non ZBNF (CESS CCE KHARIF 2018)				
Crop	Condition	Cost of Cultivation ZBNF (Rs/Ha.)	Cost of cultivation Non ZBNF (Rs/Ha.)	Percentage Change
Bengalgram	Rainfed	28611	33326	14%
Cotton	Irrigated	37197	40715	9%
Groundnut	Irrigated	33020	33746	2%
Maize	Irrigated	32590	32837	1%
Paddy	Irrigated	37742	43380	13%



# ZBNF IMPACTS

Centre for economics and social  
studies – Crop Cutting  
Experiments evaluation

**Net income (Rs/Ha) - Kharif 2018**

Net Income ZBNF Vs Non ZBNF (CESS CCE KHARIF 2018)

Crop	Condition	Net Income ZBNF (Rs/Ha.)	Net Income Non ZBNF (Rs/Ha.)	Percentage increase in Net income over ZBNF
Bengalgram	Rainfed	55197	47042	17%
Cotton	Irrigated	72046	41119	75%
Groundnut	Irrigated	49463	43649	13%
Maize	Irrigated	45906	21709	111%
Paddy	Irrigated	47859	43327	10%





# Best Cases in 2018

Crop	ZBNF Yield (Kgs/acre)	Non-ZBNF Yield (Kgs/acre)	Percentage Change	Notes
Guli Ragi	1250	450	178 %	Farmer: Trimurthulu, Ananthagiri Mandal, Vishakapatanam
SRI Ragi	1320	450	193 %	Farmer: K Pandanna, Paderu, Vishakapatanam
Sama	717	350	104 %	Farmer: P Sonnu, Araku, Vishakapatanam
SRI Paddy	2350	1550	52 %	Farmer: Paradani Jogi Raju (farmer), Emaduguala mandal, Vishakapatanam
Coffee	103	67	54 %	Farmer in D Gonduru, Kadagaputu, Vishakapatanam
Cotton	557	360	54 %	Farmer: K Ganapathi, Duddukhallu, Vizianagaram
Cashew	900	600	50 %	Farmer: K Santa Kumari, Rampachodavaram, East Godavari





- Community Resource Person encourage to take up ZBNF
- Took ZBNF paddy on 0.25 acres as experiment
- Phenomenal result achieved
- Encouraged by this, took back leased land to do ZBNF in all 2 acres

Non ZBNF Paddy	
Cost of cultivation per acre(Rs.)	20,500
Gross income per acre (Rs.)	47,250
Net income per acre (Rs.)	26,750

### ZBNF changing lives

Mandal Maheswari  
Sobhandhripuram village  
Krishna District  
Farmer &  
Community Resource Person



Disability is not inability



- Bought cow for input preparation
- Discuss ZBNF with her SHG member
- Grounded ZBNF kitchen garden
- Provides free ghanajeevamrutham and vegetable to villagers
- Phenomenal community presence, selected as community resource person

ZBNF Paddy	
Cost of cultivation per acre (Rs.)	13,200
Gross income per acre (Rs.)	61,425
Net income per acre (Rs.)	48,225



# Impact on Health



Improved  
health of  
farmers  
and their  
families

Increased  
Food,  
Nutrition  
and Health  
Security



Shot on realme 1

By A.Gopi Natha Reddy-9885911557



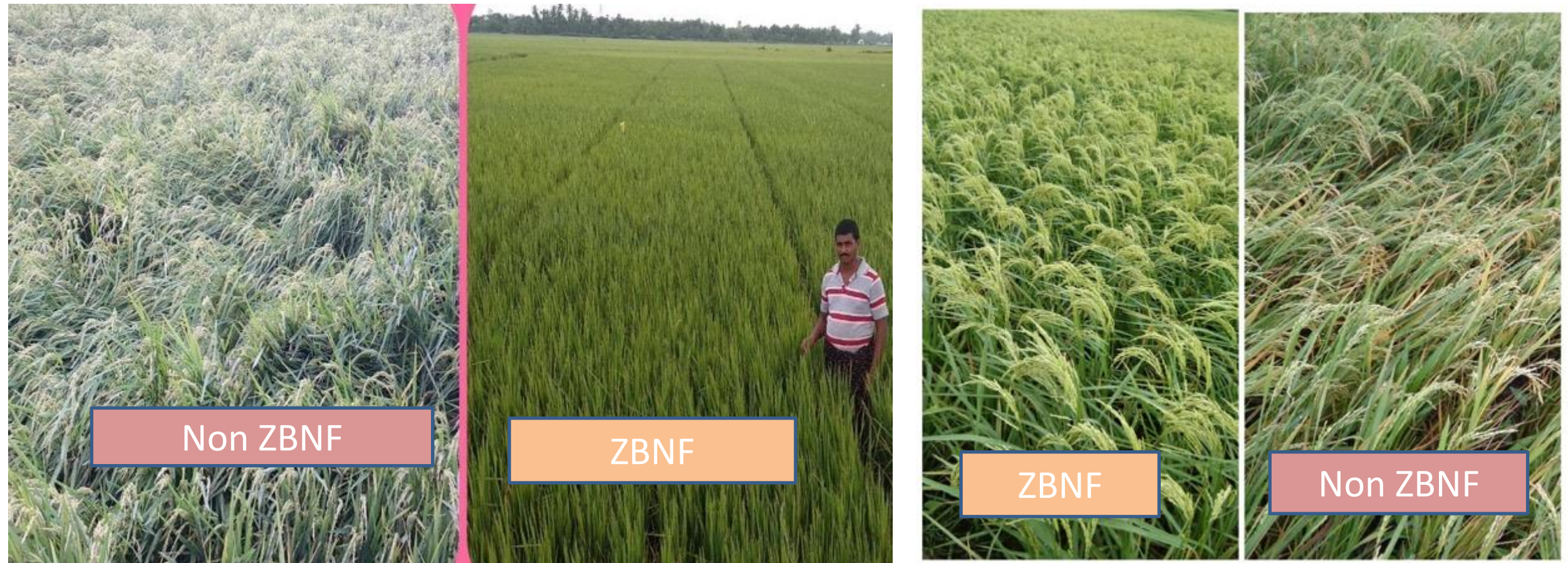
# Biodiversity





# Climate Change Resilience: Titli Cyclone, Oct 2018

## Paddy fields during Titli cyclone





# Climate Change Resilience: Pethai Cyclone, Dec 2018

ZBNF



Banana

Non ZBNF



ZBNF



Chillies

Non ZBNF



Paddy



# Pillars of APZBNF Model

Commitment  
State  
Government



Knowledge  
Subhash  
Palekar



Extension  
Champion  
Farmers



Ownership  
Women  
SHGs



ICT for Knowledge, Tracking, Traceability

Collective Action for Inputs, Models, Marketing



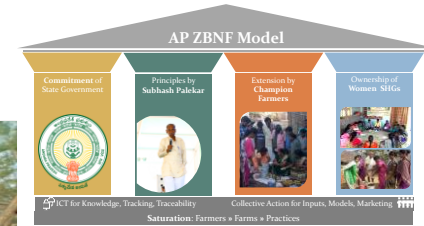
**Saturation: Farmers » Farms » Practices**



# Women in Natural Farming: Our biggest Strength



**1,62,624 women SHGs and their 7,106 Federations are in charge**



Programme  
Management,  
transparency

Collective  
Action

Peer Learning

Farming Plans,  
and,  
consumption  
plans

Inclusive of  
the poorest

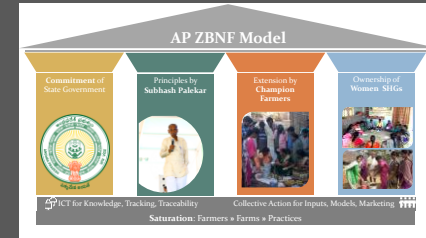




# Champion Farmers

5,600 Community Resource Persons  
@ 1 per 100 famers

284 Young Agriculture Graduates  
as Natural Farming Fellows



Inspiration

Knowledge  
Transfer

Handholding

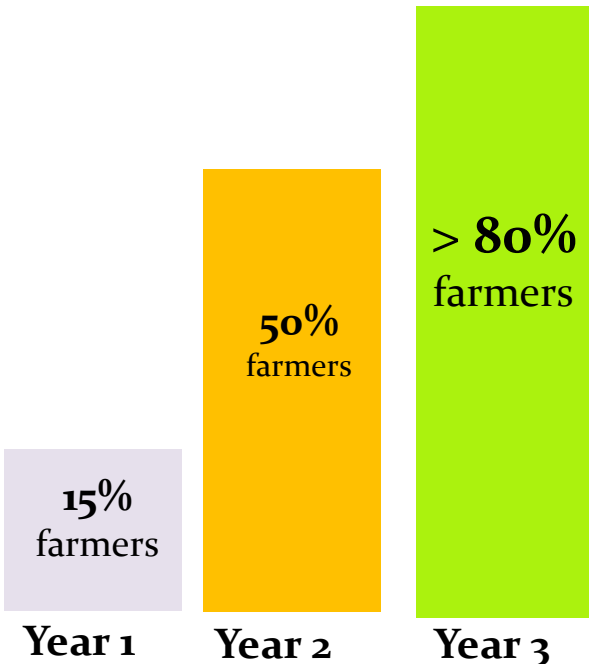
Video  
Dissemination

Farmer Field  
Schools

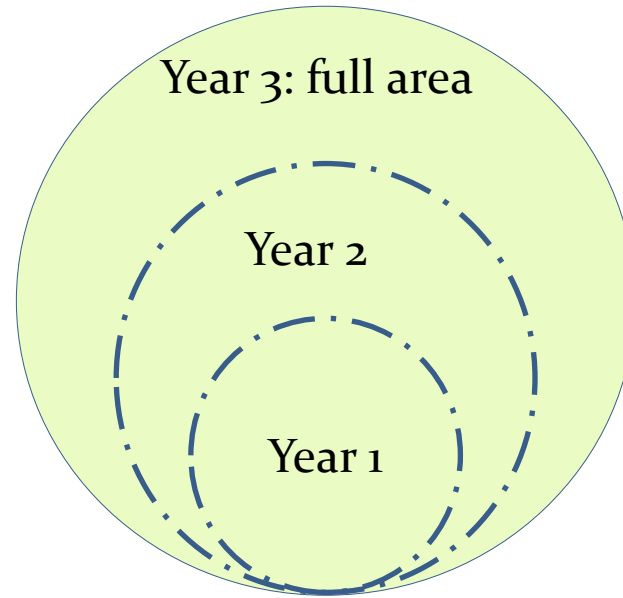


# Saturation Approach

Each **Village** takes 3 years to reach all farmers.



Each farmer takes 3-6 years to adopt all practices and cover entire holding.



*1<sup>st</sup> Bio-village in 3 years - Kondabaridi*

In 5-6 years,  
a village becomes  
a  
**'BIO-  
VILLAGE'**

**Year 5/6**



All Villages

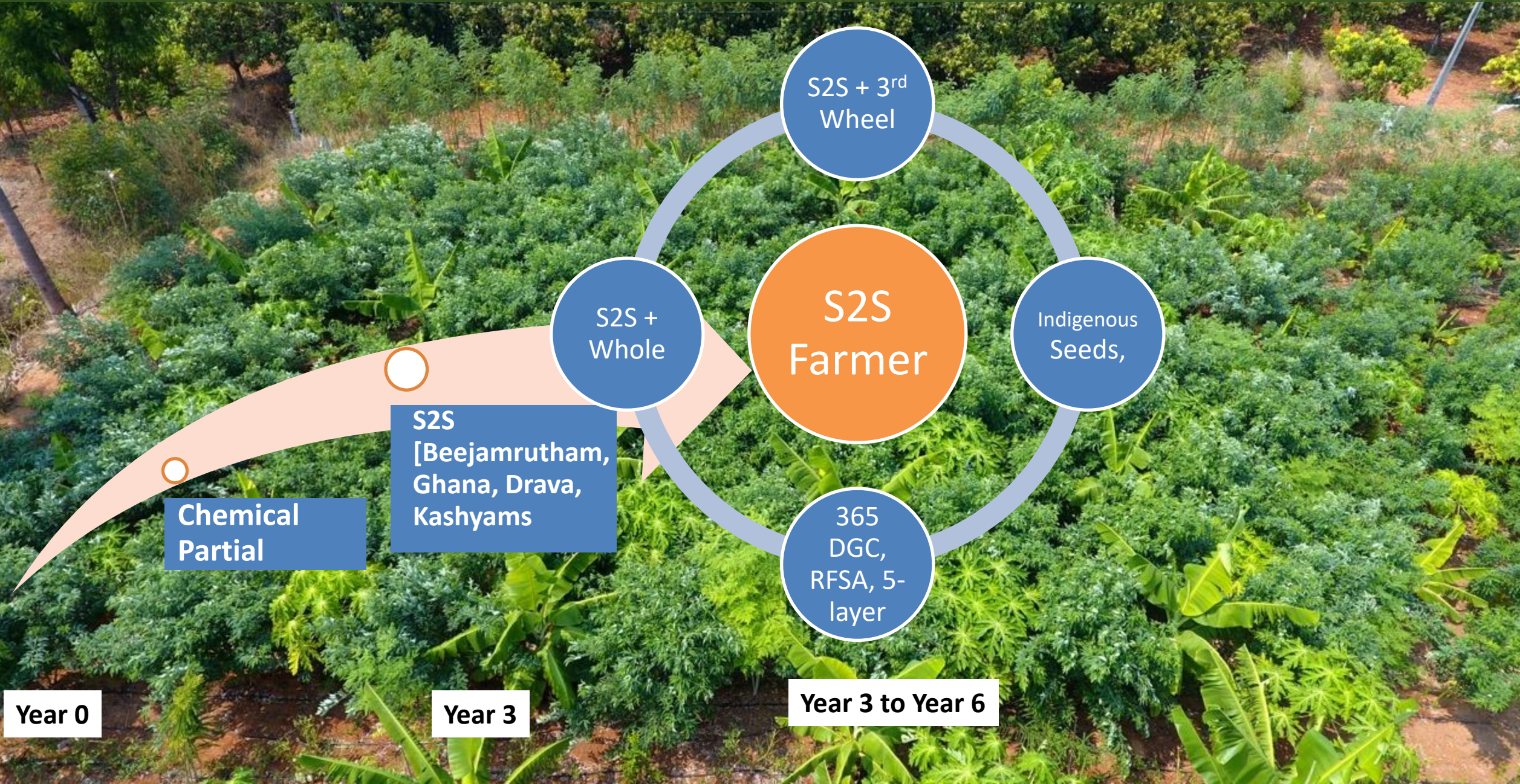
All Farmers

All Farms


All Practices



# A Farmer's Graduation







# Innovations under the APZBNF programme

గున జీవామరణం

2019-7-8 08:52



# Mainstreaming Poorest of Poor

Special Plan for 1.52 lakh Landless Agriculture Labour

**Target:** Household food and nutrition security  
incomes: At least Rs.10,000 per month

Kitchen Garden

Facilitate Land Lease

Development of Assigned  
Lands

Special Roles (ZBNF shops,  
Seed Supply, Services)

Off-farm  
(backyard poultry, fish-farm ponds)





# Ultra poor livelihoods





# Health and Nutrition





# Community Marketing





# Farmers field school





# Engaging school children in farming



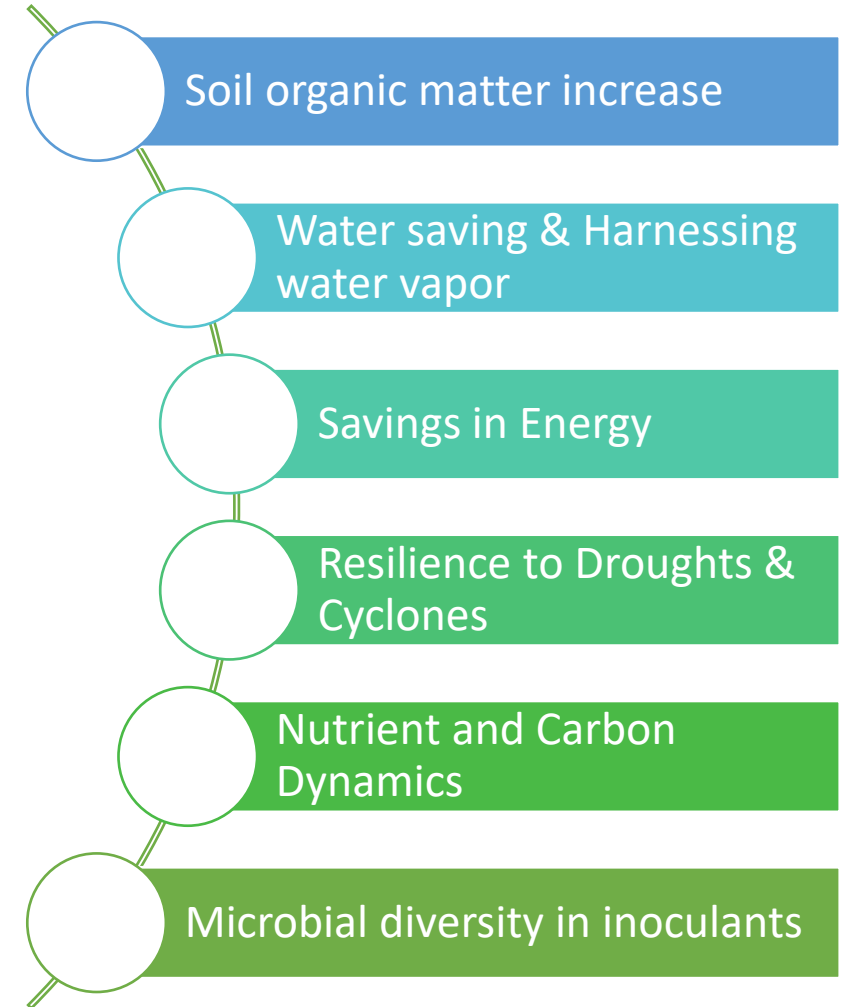
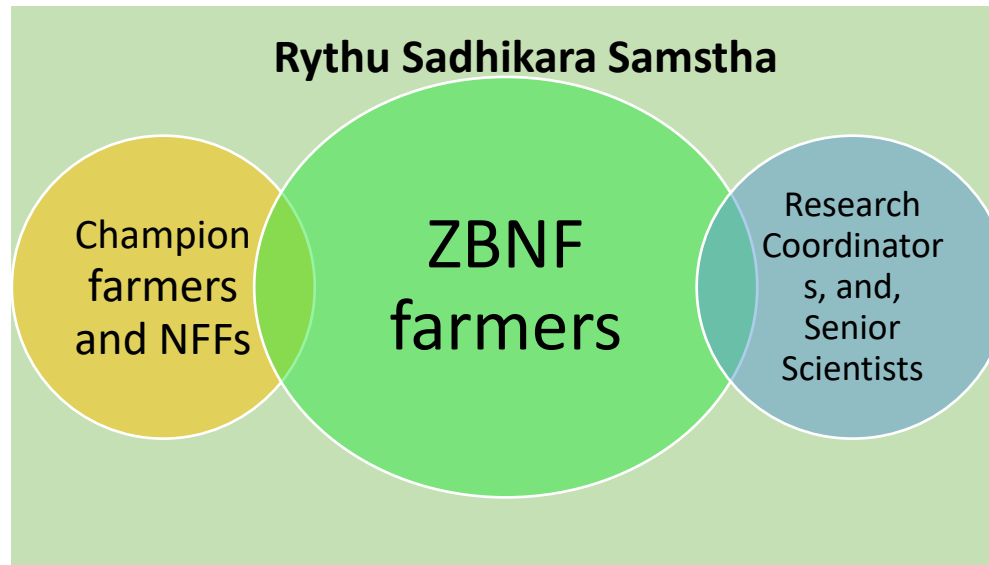


# Collaborations for Establishing the Science behind ZBNF



University  
of Reading

**National Institutions**  
IIS, IISS, IITB, TERI





# Drought Resilience

## Kharif 2016 Season – Drought Year

696 kg/ha ZBNF;  
342 kg/ha Non-ZBNF

100% increase in  
yield; Rs.17500/ha.

Costs reduced by  
Rs.2500/ha.

Net increase in  
income in a drought  
year, Rs.20,000/ha

Kharif 2017 Anantapuramu –  
Groundnut crop condition after 29-day dry spell



ZBNF



Non ZBNF

Kharif 2017 - Kondapuram, Gudur Mandal, Kurnool  
Non Z.B.N.F Plant Struggling to revive from 30-day dry spell



ZBNF



Non ZBNF

ZBNF plot withstands dry spell,  
has 3 to 4 inflorescence with  
double the number of berries  
per ear head





# Drought Resilience – Kharif 2018

Rayalseema received cumulative rainfall of 91.6 mm as against the normal rainfall of 168.1 mm from June 1 to July 31 2018

296 Mandal declared as Drought hit in early kharif season of 2018-19

Anantpur, Chittoor and Kurnool worst hit. Kadapa received scanty rainfall

ZBNF emerged as a silver lining withstanding dry spells.

Pre-monsoon sowing as a strategy initiated for drought proofing through ZBNF

Tadkanpalli cluster, Kurnool –  
Jowar crop after 20-day dry spell

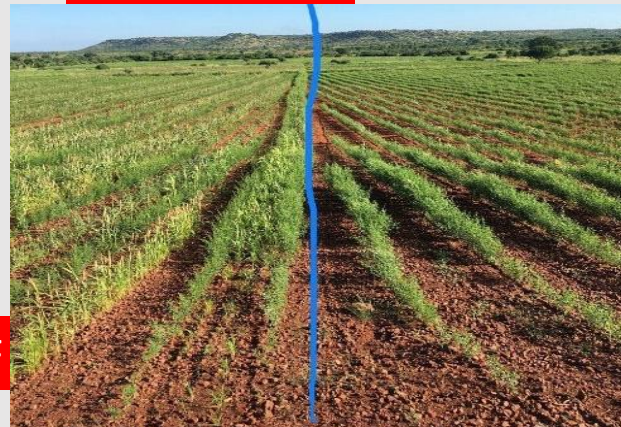


ZBNF

Non ZBNF

ZBNF

Non ZBNF



ZBNF

Non ZBNF

Tammaraju cluster, Kurnool  
Non Z.B.N.F Redgram Plant with no root nodules as compared to ZBNF  
Red Gram with abundant root nodules

Chillies



ZBNF



Variety of ZBNF paddy seedlings Balapanuru cluster thriving in spite of low rainfall



Non ZBNF



ZBNF

Non ZBNF



Nature's Sophisticated  
Carbon Capture Mechanism

# Nutrient Cycling in Natural Farming

**PLANT CONVERTS**

**SUNLIGHT, WATER and CO<sub>2</sub> into SUGARS**

**40% of Plant Sugars stored  
in Above Ground Biomass**

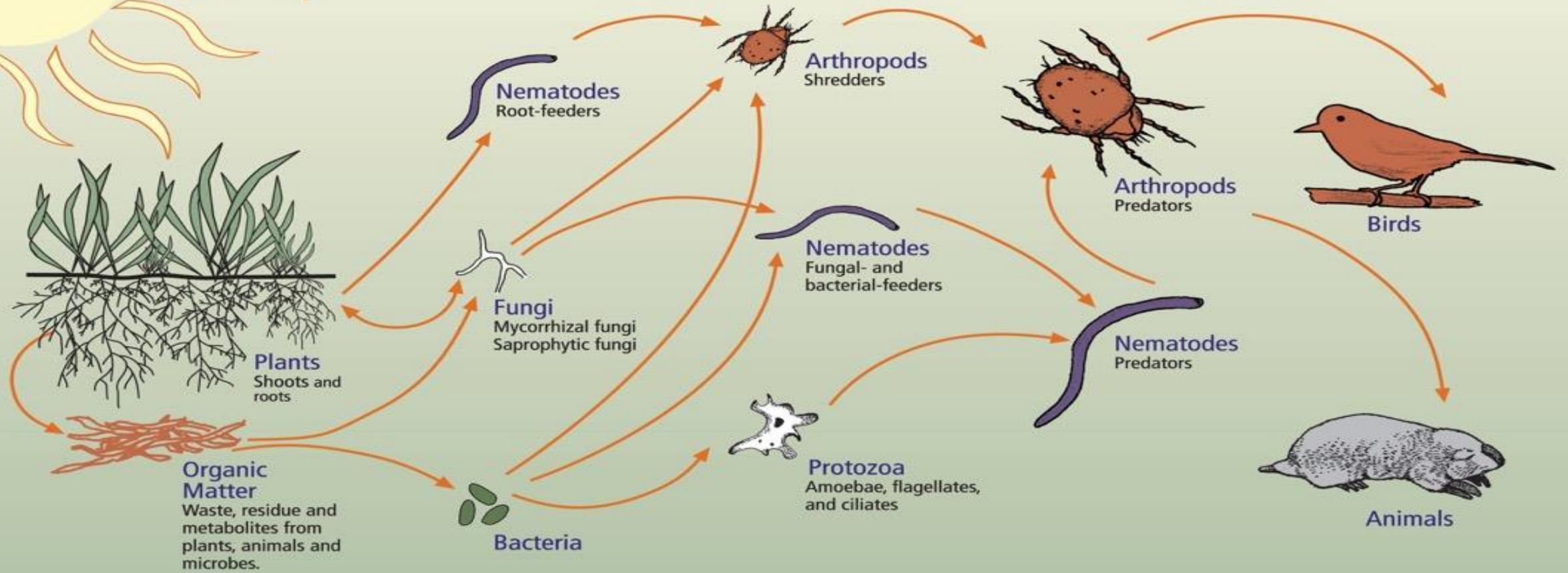
**30% of Sugars stored in Roots**

**30% of Sugars moves into  
the Soil as Exudates,  
feeding vast microbial  
population that makes  
plant healthy**

Image courtesy: Natural Resources SA Murray-Darling Basin YouTube channel



# The Soil Food Web



**First trophic level:**  
Photosynthesizers

**Second trophic level:**  
Decomposers  
Mutualists  
Pathogens, Parasites  
Root-feeders

**Third trophic level:**  
Shredders  
Predators  
Grazers

**Fourth trophic level:**  
Higher level predators

**Fifth and higher trophic levels:**  
Higher level predators



1 gm carbon = 8 gm water

Nutrient absorption mechanism

Mycorrhiza – soil structure

Micro aggregates – porous soil 60 % air

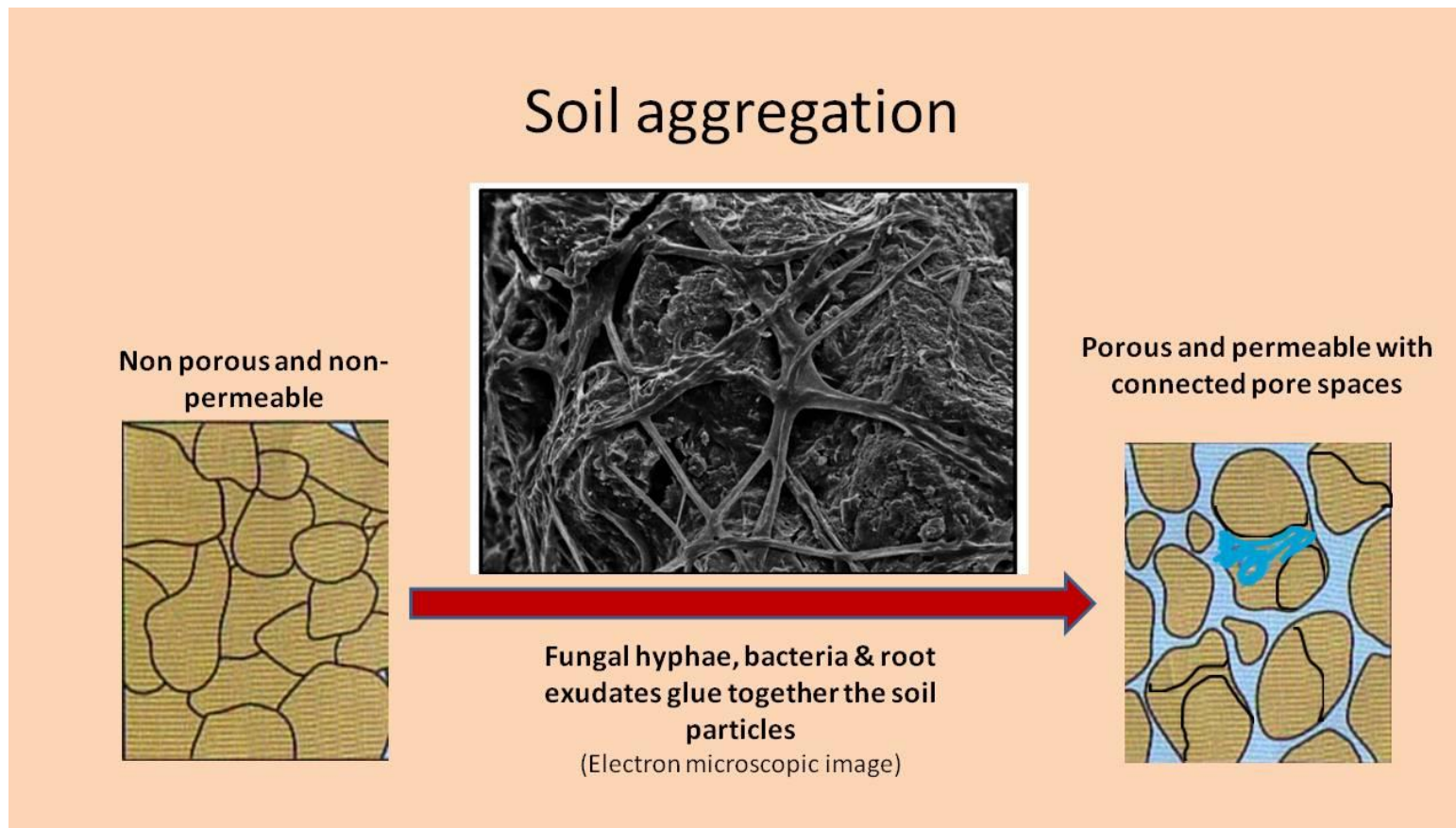
40% of Plant Sugars stored  
in Above Ground Biomass

30% of Sugars stored in Roots

30% of Sugars moves into  
the Soil as Exudates,  
feeding vast microbial  
population that enable  
exchange of nutrients and  
water, and carbon  
sequestration



# ZBNF enables these processes efficiently



## Soil Aeration

- Water infiltration
- Water holding
- Water vapour harvested for irrigation

**there are Rivers in the air – air contains 10 times the water in the rivers**



# Drought proofing through ZBNF

## Pre-monsoon sowing

- Sowing before Monsoon
- April onwards
- Effectively utilize the moisture available in the atmosphere

## Dry sowing

- Sowing during dry-periods
- Dry situations regardless of regular monsoon
- Helps to maintain year-round ground cover in all districts





# Drought proofing through Z.B.N.F – 2019 - 20

DISTRICT	Number of Farmers as on 15 <sup>th</sup> June'19			
	April'19	May'19	June'19	Total
Srikakulam	131	444	8	<b>583</b>
Vizianagaram	82	512	421	<b>1015</b>
Visakhapatnam	6	145	181	<b>332</b>
East Godavari	90	927	9	<b>1026</b>
West Godavari	272	442	15	<b>729</b>
Krishna	135	352	5	<b>492</b>
Guntur	36	437	414	<b>887</b>
Prakasam	10	332	434	<b>776</b>
Nellore	21	328	70	<b>419</b>
Chittor	10	600	70	<b>680</b>
Y.S.R	25	691	1265	<b>1981</b>
Kurnool	18	219	526	<b>763</b>
Anantapur	69	684	22	<b>775</b>
Grand Total	<b>905</b>	<b>6113</b>	<b>3440</b>	<b>10458</b>



- 10458 Farmers undertook pre monsoon sowing in 2043.8 acres during 2019-20 across the state with average land coverage of 0.19 acres





**Sarweswar Reddy**  
**Mandaloor Village**  
**Mandaloor Cluster**  
**Kurnool**



**Pre-Monsoon Dry sowing**

**PMDS sowing on 20th June 2019**

**Land extent 0.30 acres**



16<sup>th</sup> June' 19



Preparation of Ghana Jeevamrutham

20<sup>th</sup> June' 19



Land Preparation

20<sup>th</sup> June' 19



Seed treatment with Beejamrutham

7<sup>th</sup> July' 19



Preparation of Dhrava Jeevamrutham



20<sup>th</sup> June' 19



Sowing seeds- Broadcasting

28<sup>th</sup> June' 19



Paddy Straw as a mulch material

28<sup>th</sup> June' 19



Greengram as a mulch material

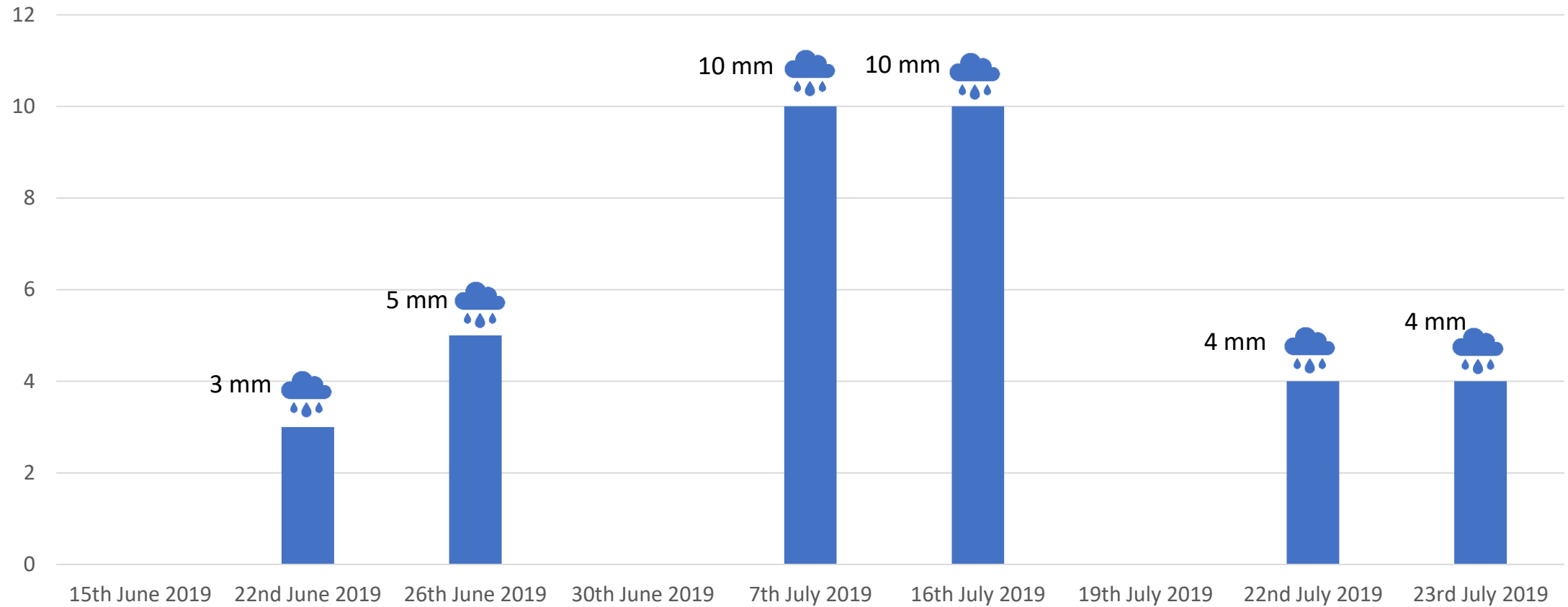
30<sup>th</sup> June' 19



Germination



## Timeline- Rainfall & Dry Spell







30<sup>th</sup> June, 2019

21<sup>st</sup> July, 2019

Application of Neemastram-  
23<sup>rd</sup> July, 2019

| Brown top millet | Foxtail millet | Finger millet | Kodomillet | Barnyard millet | Redgram | Jowar | Cowpea | Sesamum | Greengram |  
Blackgram | Cluster bean | Radish | Beet root | Carrot | Coriander | Castor |



25th July, 2019



**Expenditure: Rs. 5050**

Seeds : Rs.750

Land preparation with bullocks : Rs.400

Labours : Rs.1000

Mulch material : Rs.1000

Ghanajeevamrutham : Rs.800 (100kgs)

Jeevamrutham & Botanical extracts : Rs.600 (12 liters)

Others : Rs.500

**Income:**

**Expected income: Rs.8000**

**Farmer Opinion (NFF):**

In places like Rayalaseema where farmers leave their land without cultivation, this is a boon. Solves Global warming issue and especially "it gives a hope to farmers to continue farming rather than cutting"



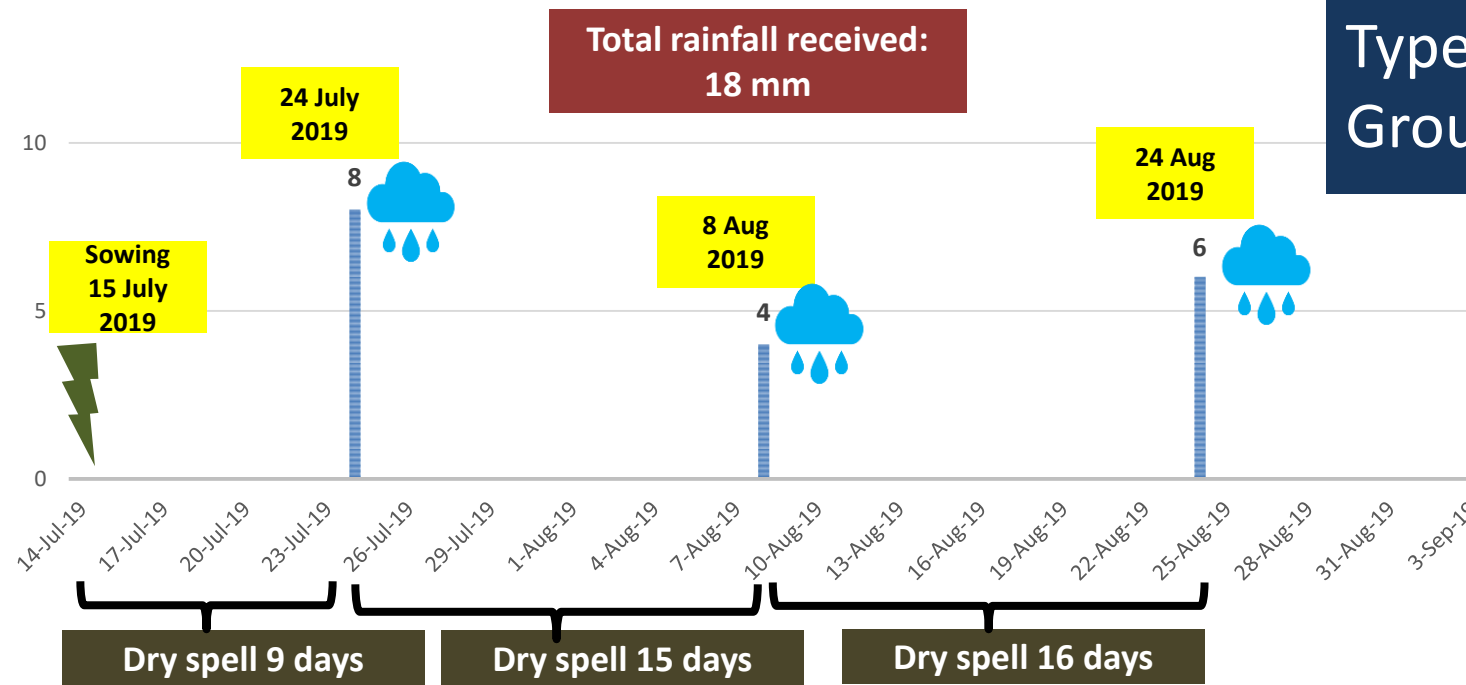


Ghanajeevamrutham application



Seeds and seed treatment

Name of the Farmer : Gopal  
 Land preparation: July 11  
 Extent: 0.80 acres  
*Ghanajeevamrutham* Used (in KGs): 320kgs  
 Date of Sowing: July 15  
 Date of Germination: July 28  
 Type of Mulch Materials Used : Groundnut shells



Date of *Dravajeevamrutham* Sprayings:  
 30 July 2019  
 18 August 2019





**Ghanajeevamrutam: 200**

**Mulching: 8000**

**Land preparation: 2000**

**Seeds: 1500**

**Labour: 1000**

**Total: Rs 12,700**

**Expected harvesting in the  
coming month**

**Present status of the crop on 28 August 2019**

**Farmer is delighted to see the growth inspite of rain  
deficiency**





Yanamadala Veeraju  
Shubhanapuram village  
Nuzvidu division  
Krishna district

ZBNF farmer  
since two years

Dry sowing in  
0.10 acres

Harvested maize  
in the land before  
PMDS

Line sowing of  
the seed post  
seed treatment

Light ploughing  
post sowing to  
cover the soil

Application of 50  
kgs of  
ghanajeevamruth  
am

Date of sowing 25 April  
2019

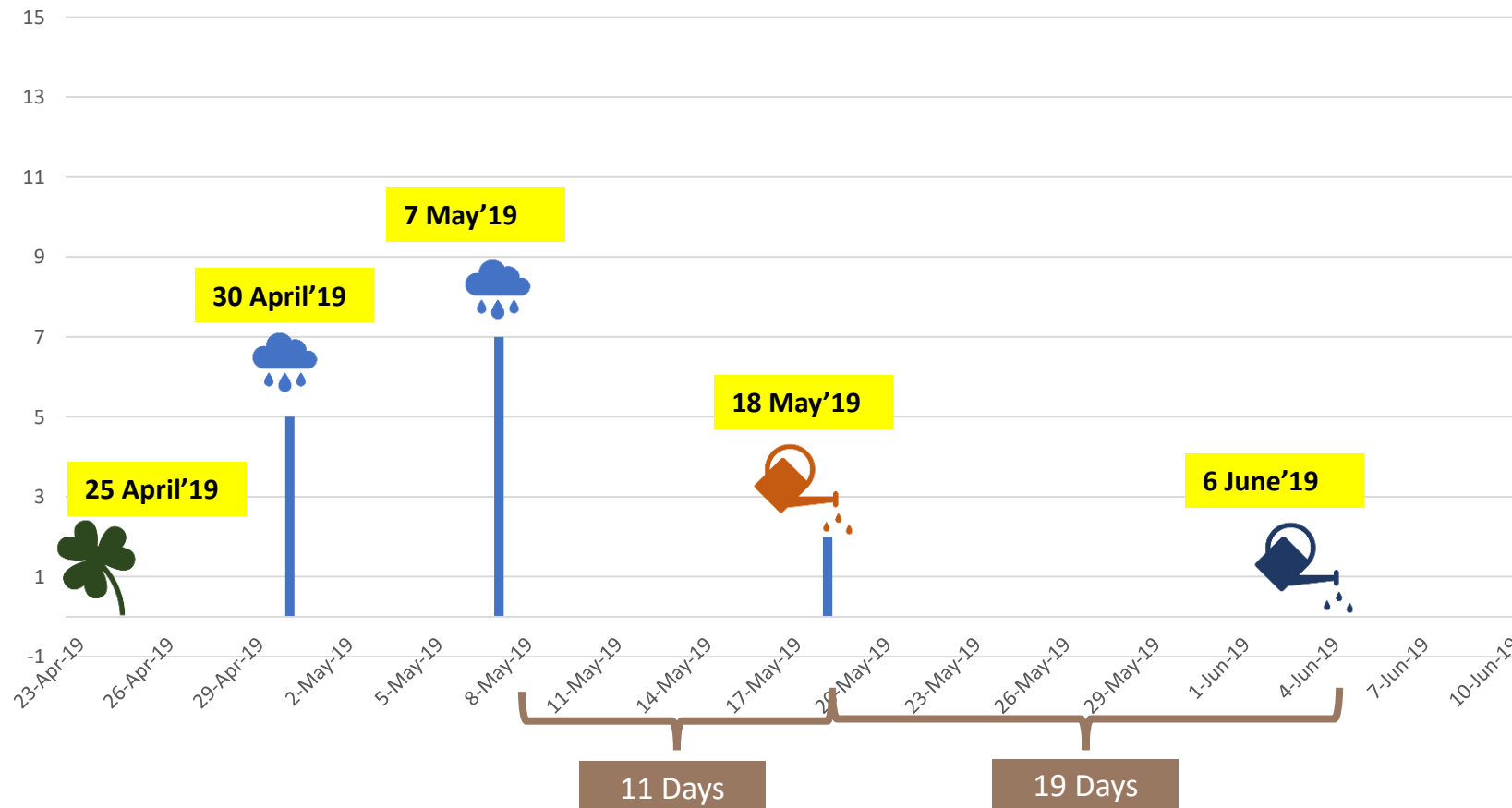
Sorgam | Cowpea | Bajra | Cucumber | Ridge  
gourd | Leafy vegetables



# Timeline- Rainfall & Dry Spell in this Pre-monsoon Field



Total Irrigation/ dravajeevamrutham		Total Rainfall	
Light Irrigation 2 days	10 mm	2 days	12 mm
Dravajeevamrutham			



Dry spells





Date of seed germination 6 May 2019





Vegetative state observed on 28th May 2019



## Expenditure (Rs.)

*Ploughing : 300*

*Seeds : 250*

*Ghanajeevamrutham : 100*

*Total investment : 650*

## Income (Rs.)

*10 kgs Ridge guard: Rs 300/-*

*15 kgs Cucumber: Rs 225/-*

*150 bundles of leafy vegetables: Rs 750/-*

*Total income: 1275/-*

*Net income = 1275 - 650 = Rs. 625*



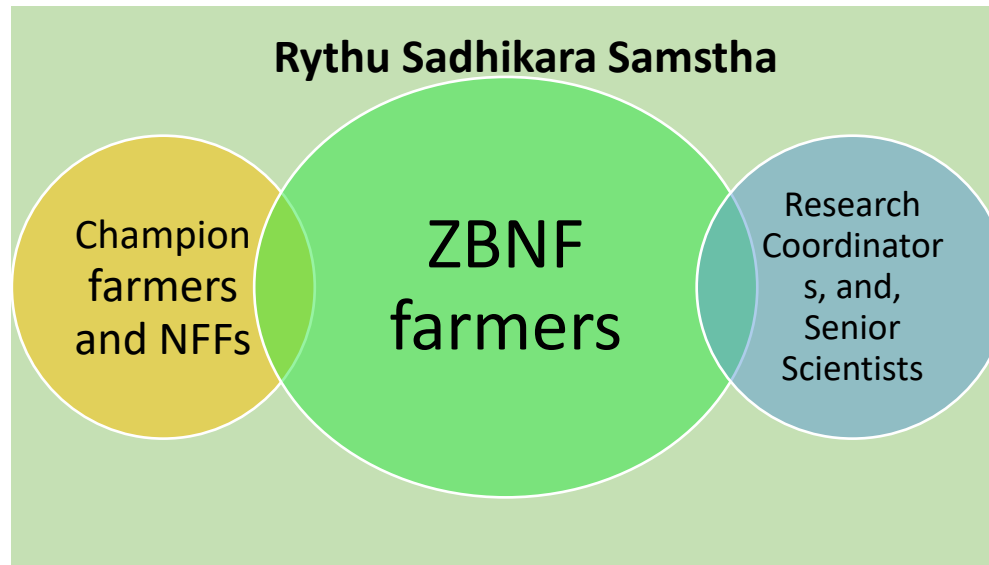




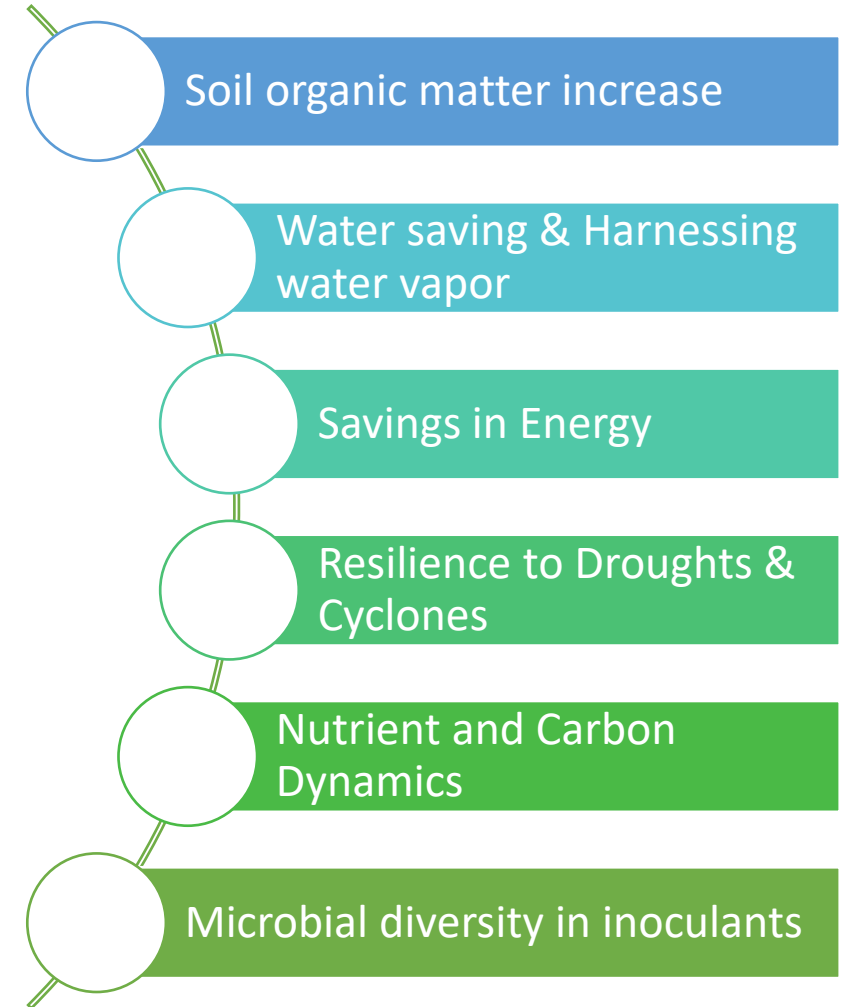
PMDS plot as observed on 24 July 2019



# Collaborations for Establishing the Science behind ZBNF



**National Institutions**  
IIS, IISS, IITB, TERI





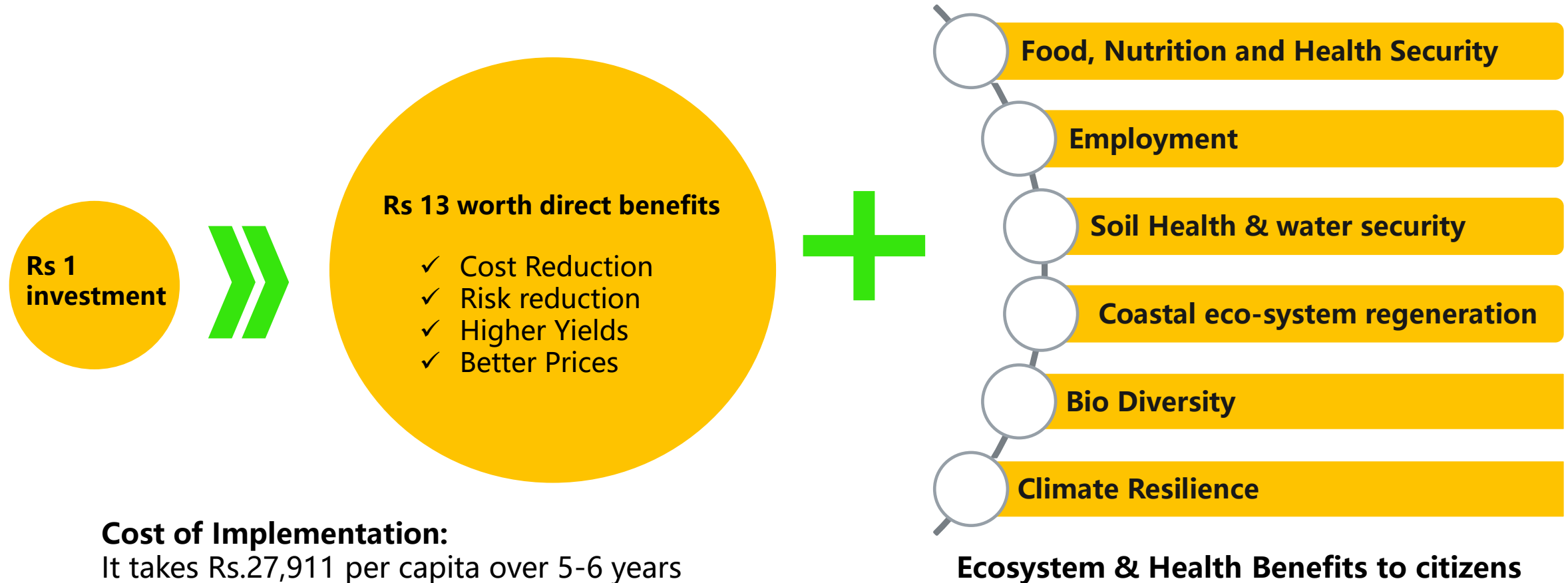
## Cost Structure in 6 years (5 years implementation + 1 year preparatory) for one farmer

#	Categories	COSTS (in Rs.)	%
1	<b>Capacity building</b> [ZBNF Knowledge dissemination, Extension, Capacity Building and Human Resource Development ]	15,511	56%
2	Women and Men Farmers' <b>Institution building</b> and funds to farmers' institutions, Support in establishing markets (inter-village, inter-cluster, inter-district) using farmers own institutions	7,600	27%
4	ICT, PGS Certification, Quality Assurance, <b>Tracking</b> and Monitoring	3,750	13%
5	<b>Technical Support</b> and Overall Programme Management at the District and State levels	1,050	4%
	TOTAL	27,911	

Cost to convert one farmer: 27,911 over 5-6 years



# Benefits of Scaling up ZBNF in India



## Cost of Implementation:

It takes Rs.27,911 per capita over 5-6 years for a farmer to adopt ZBNF



# Farmers Outreach and Transformation

**2019**

- 50% GPs entered

**2020**

- All GPs entered

**2021**

- 350 Bio villages emerge

**2022**

- *Enrolling all farmers in the state*
- 1,000 Bio villages emerge

**2024**

- 3,000 bio villages emerge

**2027**

- All bio villages
- *Transforming all 60 lakh farmers to ZBNF*

All Villages

All Farmers

All Farms

All Practices



# 2019 – 20 : APZBNF at National level

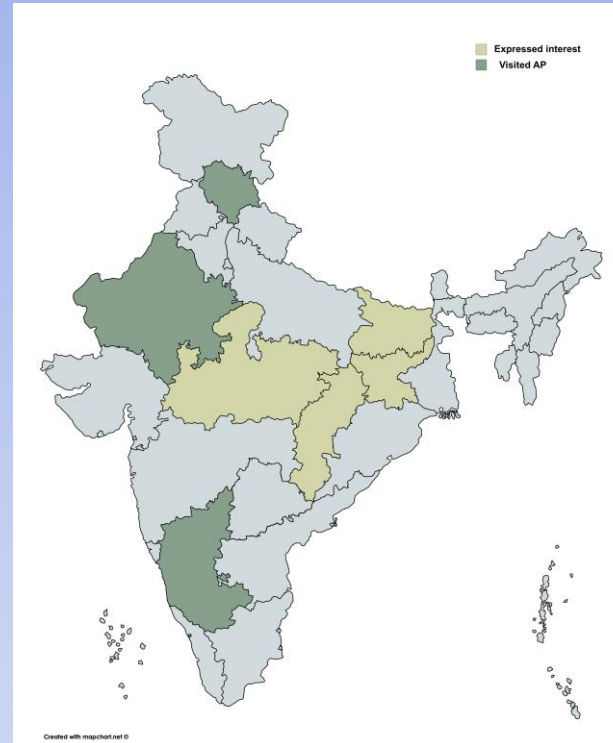


सत्यमेव जयते

Union Govt has announced a National Mission for Z.B.N.F. Andhra Pradesh is providing technical support to the Ministry of Agriculture



Indian Council of Agriculture Research invited AP to be part of National Committee to assess the impact of ZBNF



AP's support to Other States in India

■ States interested  
Gujarat  
Himachal Pradesh  
Meghalaya  
Rajasthan



# Global Recognitions for APZBNF

UN General Assembly Event, ZBNF as case study was discussed as part of south-south collaboration, 24 Sep 2018

Paris Peace Forum: AP ZBNF is selected as top 10 projects that will receive scaling up support

Global Alliance for the Future of Food has selected AP ZBNF as one of the 21 'Beacons of Hope'

Indonesian Ministerial delegation visited AP to learn about ZBNF

World Future Council selected AP ZBNF as one of the top 30 most promising policies in agroecology





# 2019 – 20: APZBNF in International fora



United Nations  
Climate Change Summit September  
2019

Andhra Pradesh ZBNF Model is  
being showcased

UN Agencies (WFP, UNEP, CBD, WHO, IFAD, FAO, UNDEP) jointly approved the Scaling up Agroecology Initiative work plan for 2019-2020. Mexico, Senegal and India (specifically the region of **Andhra Pradesh**) selected for the first phase of implementation – Launch in October, 2019.



Global Environment Facility has  
approved the proposal submitted  
by UN Environment India to  
provide technical support to AP  
Govt – in 2020 -21



United Nations Convention to  
Combat Desertification invited  
Hon'ble Chief Minister of Andhra  
Pradesh (2 September 2019)



World Health  
Organization



UNEP



Food and Agriculture  
Organization of the  
United Nations







# Thank You

visit: [apzbnf.in](http://apzbnf.in)  
tweet: [@apzbnf](https://twitter.com/apzbnf)  
facebook: [@apzbnf](https://www.facebook.com/apzbnf)