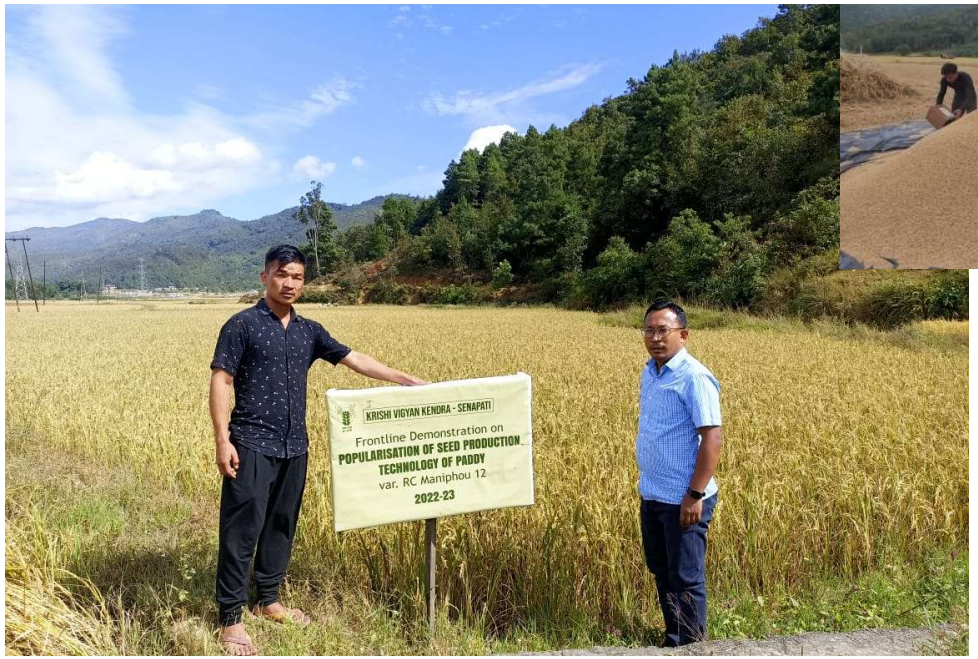
FLDs (Discipline–Wise Summary) for 2022-23

Discipline	Crop/enterprise	No. of Technology	No. of demos proposed	Area (ha) to be covered/ no. of items/ activity	No. of Beneficiaries
PBG	Paddy	1	12	3 ha	12
	Rapeseed	1	12	3 ha	12
	Maize	1	12	3 ha	12
Fishery	Grass carp	1	10	1 ha	10
	Lime	1	10	1 ha	10
	Pengba	1	10	1 ha	10
Plant protection	Chilli	1	4	1 ha	4
	Rice	1	4	1 ha	4
	Maize	1	5	5 ha	5
Horticulture	Broccoli	1	8	2ha	6
	Turmeric	1	8	2ha	6
	Cabbage	1	8	2ha	4
Animal science	Duck	1	10	10units	10
	Piggery	1	10	10units	10
	Piggery	1	10	10 units	20
Agril Extension	Paddy	1	-	50 respondents	
Agro-forestry	Tree bean, citrus, hollock, Pulse crop	1	2	1 ha	2
Home Science	Kiwi	1	10	10 units	10
	Mushroom	1	10	10 units	10
Farm Manager	plum	1	3	3 units	3
Total		20	158	26 ha, 53 units & 50 respondents	160

FLD PBG: Popularisation of seed production technology of paddy var. RC Maniphou 12- 1st Year

Area= 3 ha, No. of Demo.= 12. Village- Ningthoupham, Parengba

Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase in yield
	H	L	A	q/ha)	%
Var. RC Maniphou 12,Duration = 125-135 days, Potential yield=6.5-7.0t/ha,Seed rate @60 kg/ha, NPK @ 60:40:30 kg/ha, Isolation distance- 3m, Roughing as per requirement	42.7	37.6	**38.7**	**31.6**	**22.5**



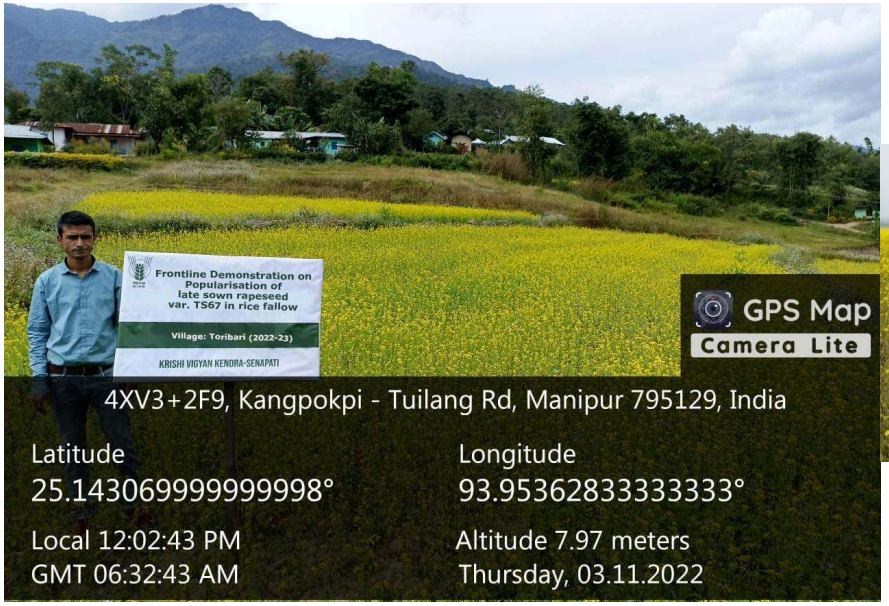
Economics of demonstration (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
42745	**77400**	**34655**	**1.81:1**

Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
37770	63200	25430	**1.67:1**

FLD PBG : Popularization of late sown rapeseed var. TS67 in rice fallow- 1st yr

Area= 3 ha, No. of Demo.= 12. Village- T. Khullen, Toribari

Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase in yield
	H	L	A	q/ha)	%
XX- Var. TS 67 - Duration – 90 days, - Potential yield= 7-10q/ha	8.87	8.11	8.31	5.83	42



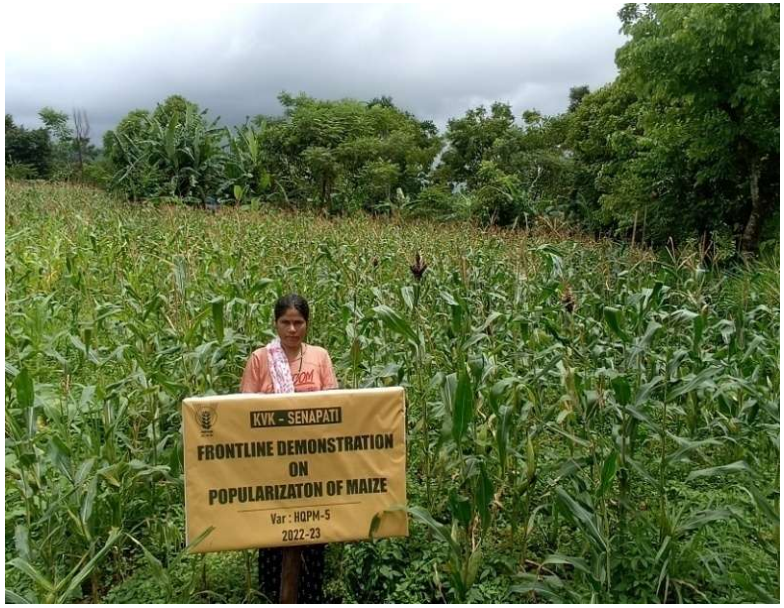
Economics of demonstration (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
27540	49860	22320	1.81:1

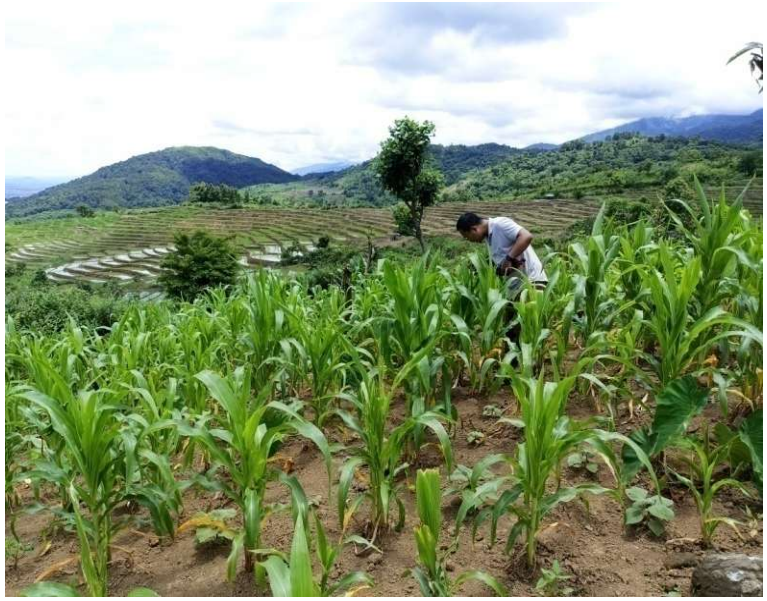
Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
21684	34980	13296	1.6:1

FLD PBG : Popularisation of maize var. HQPM 5- 2nd yr

Area= 3 ha, No. of Demo.= 12. Village- Katomei, Makuilongdi

Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase in yield
	H	L	A	q/ha)	%
Var. HQPM-5, Duration-88-90 days, potential yield-6t/ha, Seed rate 20 kg/ha, Seed treatment with Azotobacter @ 250 g/10kg seed, Spacing 60x 30 cm, NPK @ 100:60:40 kg/ha	47.3	45.8	46.4	35.6	30.3





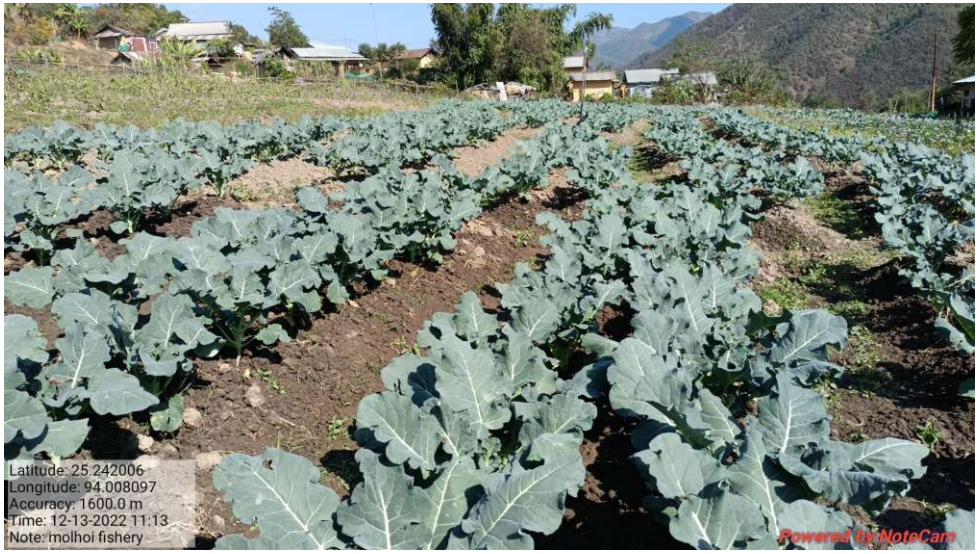
Economics of demonstration (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
42856	78880	36024	1.84:1

Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
35430	60520	25090	1.7:1

FLD Horticulture : Popularization of high yielding broccoli var. T5X0788 -1st yr

Area= 2ha, No. of Demo.= 8 , Village- Makhan, Chawangkining

Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase in yield
	H	L	A	q/ha)	%
✓ Var.- T5X0788 ✓ Dur. – 60-65 days ✓ Yield potential- 15-17t/ha	124	116	120	82	46



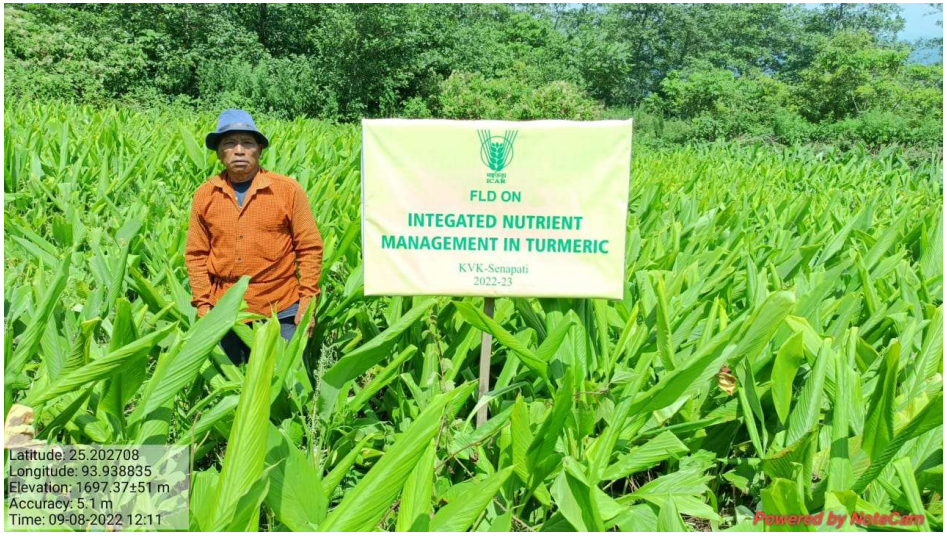
Economics of demonstration (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
109550	360000	250450	3.28:1

Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
104300	246000	141700	2.35:1

FLD Horticulture: Integrated Nutrient management in Turmeric – 1st yr.

Area= 2 ha, No. of Demo.= 8 Village- Chawangkining

Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase in yield
	H	L	A	q/ha)	%
Cow-dung manures @2.5 t/ha. + bio-inoculation with 4 kg Azotobacter and 4 kg PSB+75% of RD of NPK	204.5	201.8	**203.15**	**150.8**	**34.7**



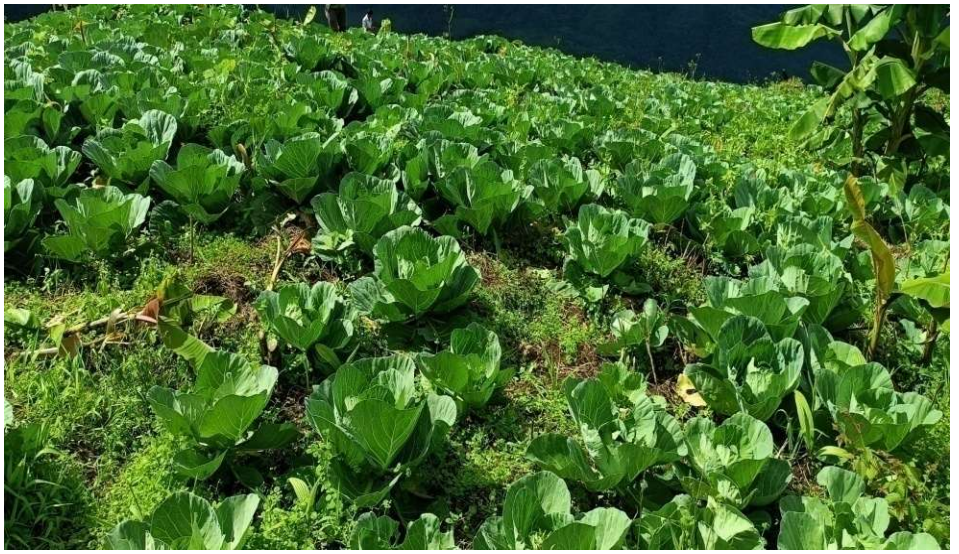
Economics of demonstration (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
45750	182835	137085	**3.9:1**

Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
52600	135720	83120	**2.58:1**

FLD Horticulture: Offseason cultivation of cabbage -2nd yr

Area= 2 ha, No. of Demo.= 8, Village- Karong, T.Khullen

Technology demonstrated	Demonstration Yield (kg/unit)			Yield of local Check	% increase in yield
	H	L	A	(q/ha)	%
Sowing during off season (May and June) Spacing: 45x45 cm FYM: @5 ton/ha.	165.5	163.3	164.4	231.3	-28.9%



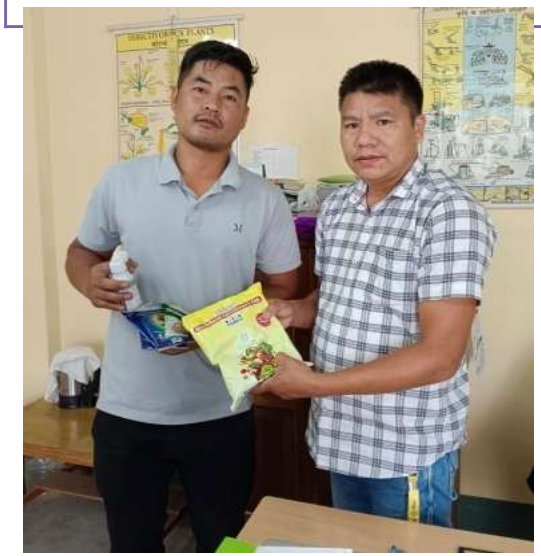
Economics of demonstration (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
62800	246600	183800	3.9:1

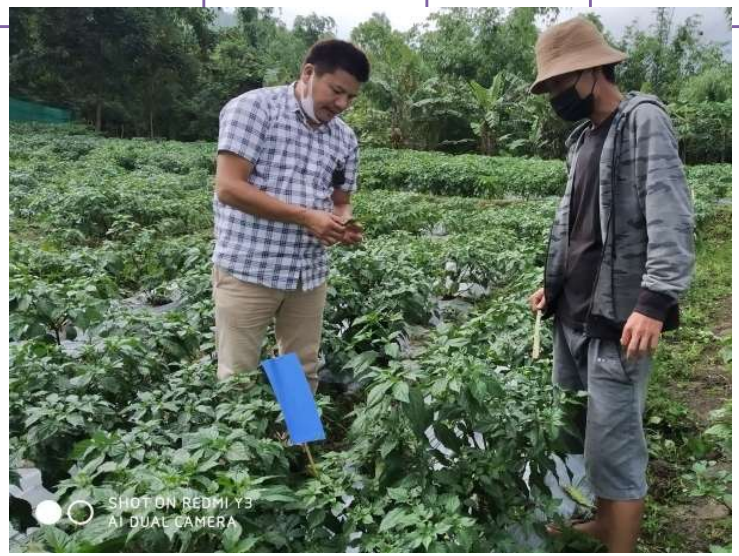
Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
56900	185040	128140	3.2:1

FLD PP: Integrated Pest Management of thrips and mite in Chilli -1st yr

Area=2ha, No. of Demo.= 8. Village- Nungang, Parengba

Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase in yield	Percent pest incidence	
	H	L	A	q/ha)	%	Demo	Local
i. Use of yellow sticky trap@20 traps/acres ii. Appln. of beauveria bassiana @2g/L,twice at 10 days interval, iii. Appln. of neem oil 0.3% iv. Applin. of imidachlorprid@0.3 ml/L	49.8	46.2	48	30	60	11.4%	28.8%





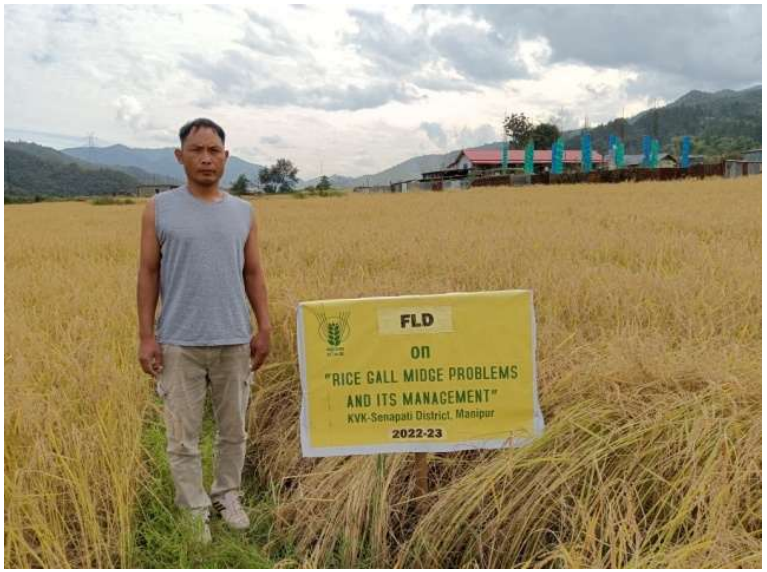
Economics of demonstration (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
149016	520000	370984	3.48:1

Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
142050	350000	207950	2.46:1

FLD PP: IPM for rice gall midge in kharif terrace fields- 1st yr

Area= 1 ha, No. of Demo.= 4. Village- Taphou Phyamai , Tungjoy and Kalaphar

Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase in yield	Percent pest incidence	
	H	L	A	q/ha)	%	Demo	Local
i. Appln. Of Beauveria bassiana 22g/L twice at 10 days intervals during tillering stage, ii. Soak seed in chlorpyriphos 20 EC @50ml/10 L water , iii. Spray thiamethoxam 25WG@100g/ha. at 20 days after transplant	39	37.4	**38**	**28.4**	**33**	**10.4%**	**27.6%**



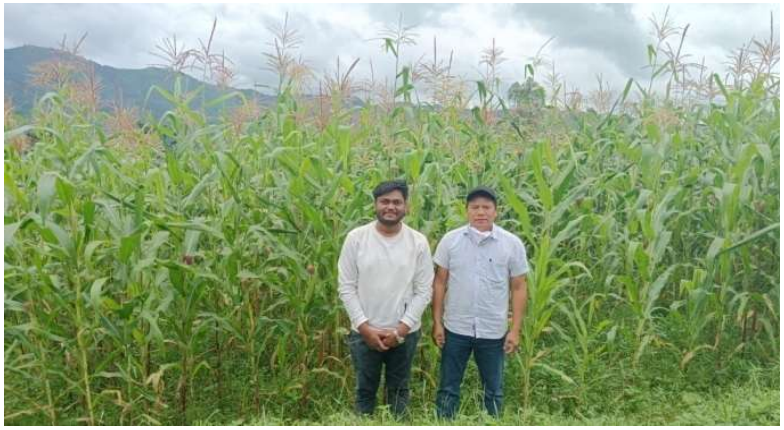
Economics of demonstration (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
45720	81200	35480	**1.77:1**

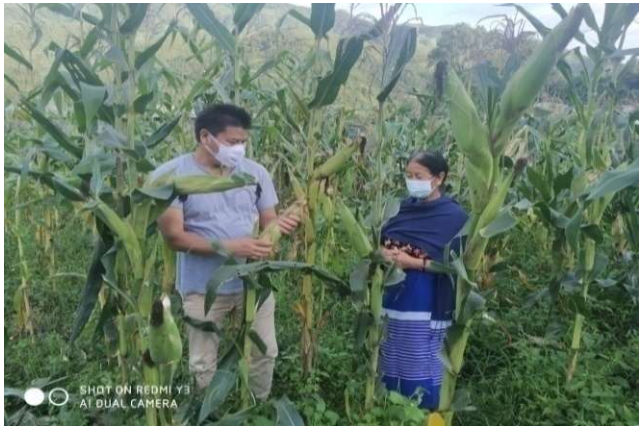
Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
44860	74200	29340	**1.65:1**

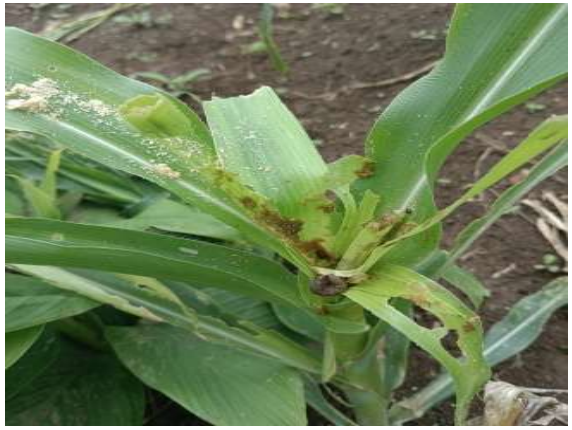
FLD PP: IPM of FAW on Maize - 2nd yr.

Area= 2 ha, No. of Demo.= 8. Village- Karong, Toribari, Khongnem

Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase in yield	Percent pest incidence	
	H	L	A	q/ha)	%	Demo	check
i. Seed treatment with Thiomethoxam @ 4ml/kg seed ii. Use of microbial pesticide *Metarhizium anisopliae* talc formulation @ 5g/l whorl application at 15-25 DAP, twice at 10 days interval iii. Application of Neem oil 1500 ppm @ 15ml/l at early whorl to late whorl stage	49.6	46.4	48	36	33	12.6%	32%







Economics of demonstration (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
41540	76800	35260	1.84:1

Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
37300	57600	20300	1.54:1

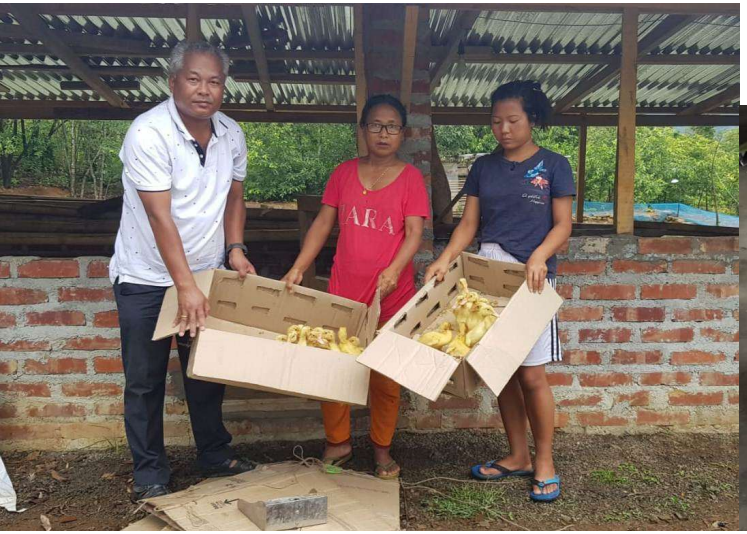
FLD Animal Sc. : Performance of White Pekin under backyard rearing system- 2nd yr

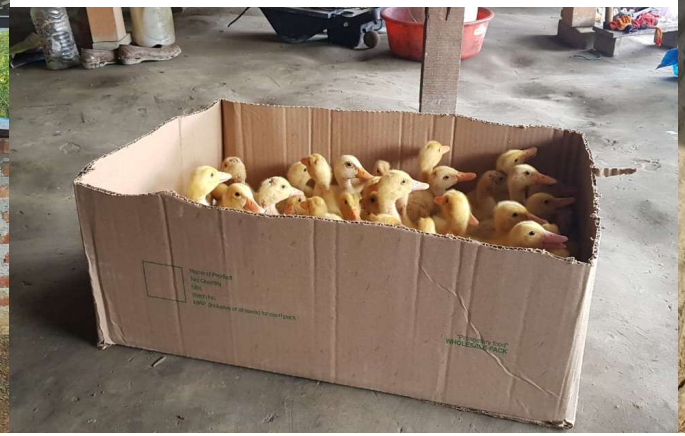
No. of Units.= 10, No. of demo= 10, Village- Toribari & Jangmol villages

Technology demonstrated	Nos. of animals/ poultry birds etc.	Performance parameters/ indicators	Results on parameters in relation to technology demonstrated		% change
			Demo	Local	
White pekin Duck	200 (@ 20 ducks per unit)	Av. Live b. wt. in Kg. (4 months)	2.513 kg	1.716 kg	46.44%

Economics of demonstration (Rs./unit)			
Gross Cost	Gross Return	Net Return	B:C Ratio
8650	17591	8941	2.03:1

Economics of check (Rs./unit)			
Gross Cost	Gross Return	Net Return	B:C Ratio
8400	13728	5328	1.63:1





FLD Animal Sc. : Feeding of growing piglets with AAUVETMIN for enhancing farm income - 1st yr

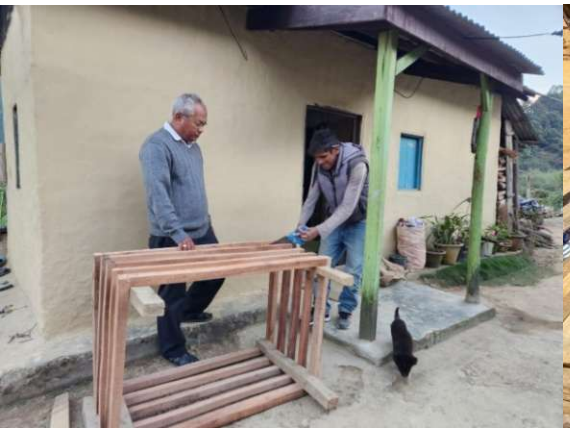
No. of Units= 10, No. of demo= 10, Village- Wainem & T. Kuki villages.

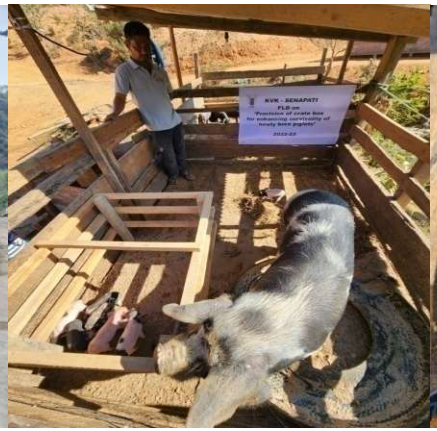
<table>
<tr><th rowspan="2">Technology demonstrated</th><th rowspan="2">Nos. of animals/ poultry birds etc.</th><th rowspan="2">Performance parameters/ indicators</th><th colspan="2">Results on parameters in relation to technology demonstrated</th><th rowspan="2">% change</th></tr>
<tr><th>Demo</th><th>Local</th></tr>
<tr><td>AAUVETMIN (@ 20 gm per pig per day)</td><td>89 piglets (from 10 units)</td><td>i.Av. l.b.wt. (in Kg)</td><td><table><tr><td>Month</td><td>0</td><td>1</td></tr><tr><td>Av.l.b.wt. (kg)</td><td>0.71</td><td>4.93</td></tr></table></td><td><table><tr><td>Month</td><td>0</td><td>1</td></tr><tr><td>Av.l.b.wt. (kg)</td><td>0.52</td><td>3.11</td></tr></table></td><td>58%</td></tr>
</table>

FLD Animal Sc. : Provision of crate box for enhancing survivality of newly born piglets- 1st yr

No. of Units= 10, No. of demo= 10, Village- Keithalmanbi & Makhan villages

Technology demonstrated	Nos. of animals/poultry birds etc.	Performance parameters/ indicators	Results on parameters in relation to technology demonstrated		% change
			Demo	Local	
Crate Box (Size : 2x3x2 ft^3)	93 piglets (from 10 units)	i.Mortality %	8.21% mortality	19.56% mortality	-58%

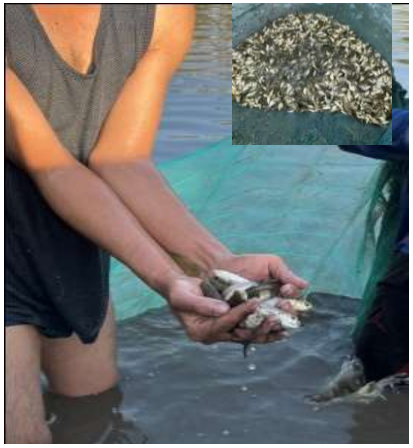




FLD Fisheries: Nursery rearing of fish spawn for fish fingerling production -1st yr

No. of units= 10, No. of demo= 10, Village- Leilon, T. Khullen, Karong

Technology demonstrated	Performance parameters	Results on parameters in relation to technology demonstrated
Species: **Grass carp** Stocking density: 15 lakh spawn/ ha Feeding: 5-10% body weight, twice a day	i. Survival percentage	**Spawn to Fry = 40%**
		Fry to Fingerling = 64%
	i. Growth rate	Average weight at 2 months = 10 gm Average length at 2 months = 6.5 cm

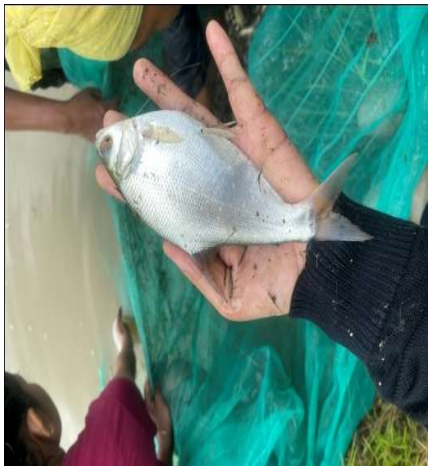



Economics of demonstration (Rs./ha)			
Gross Cost	**Gross Return**	**Net Return**	**B:C Ratio**
156000	**576000**	**420000**	**3.69 :1**

FLD Fisheries : Popularisation of Pengba fish in composite culture system- 1st yr

Area= 1, No. of demo= 10, Village- Hengbung, Makuilongdi

Technology demonstrated	Performance parameters	Results on parameters in relation to technology demonstrated
Stocking of IMC, Exotic carp & pengba @ 8000 nos./ha, catla 20%, silver carp 10%, Rohu 30%, Pengba 10%, Mrigal 15%, C. carp 15%	i. Fish growth rate	**Av. Weight:** 5 months and 10 months = 150 gm and 420 gm
		Av. Length: 5 month and 10 months = 8 cm and 12.7 cm
	i. Yield	Demo: 2520 kg/ha Check: 2640 kg/ha



Economics of demonstration (Rs./ha)			
Gross Cost	**Gross Return**	**Net Return**	**B:C Ratio**
2,80,350	8,52,480	5,72,130	3.04:1

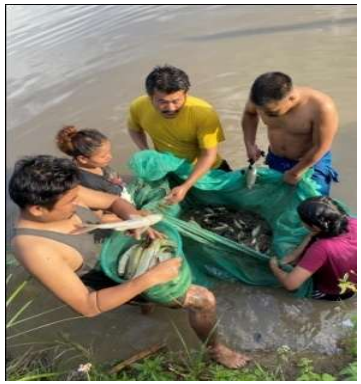
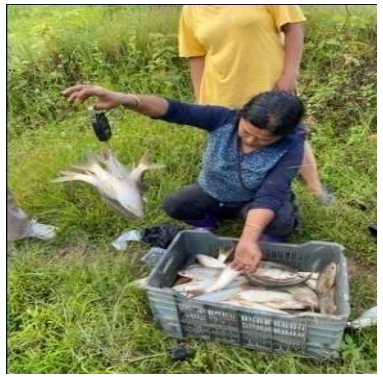
Economics of check (Rs./ha)			
Gross Cost	**Gross Return**	**Net Return**	**B:C Ratio**
2,60,890	7,12,890	4,51,910	**2.7:1**

FLD Fisheries : Lime application for water quality management in composite fish culture - 2nd yr.

No. of Units.= 10., No. of demo= 10, Village- Leilon, Molhoi, Hengbung

Technology demonstrated	Performance parameters/ indicators	Results on parameters in relation to technology demonstrated		% change
		Demo	Local	
Lime application: @300kg/ha. Fish stocking density: 8000/ha , 40% (Catla), 20 % (Rohu), 40%(C.carp)	i.Water pH	6.9	5.7	-
	i.Mortality due to diseases	10%	35%	-
	ii. Yield	2340 kg/ha.	1860 kg/ha.	18.4%



Economics of demonstration (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
2,60,890	7,02,800	4,41,910	2.6:1

Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
2,42,390	5,20,800	278410	2.14

FLD Agri. Extn. : Impact assessment of FLD on performance of Paddy var. RC Maniphou 13 demonstrated during last 3 years

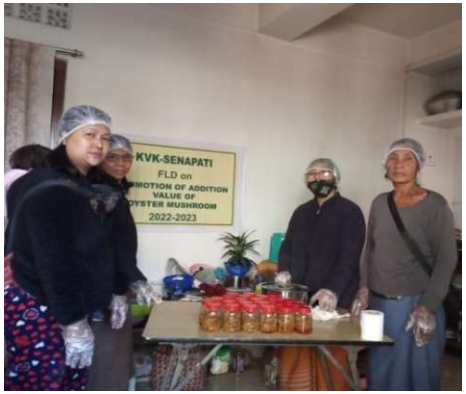
No. of respondents= 50

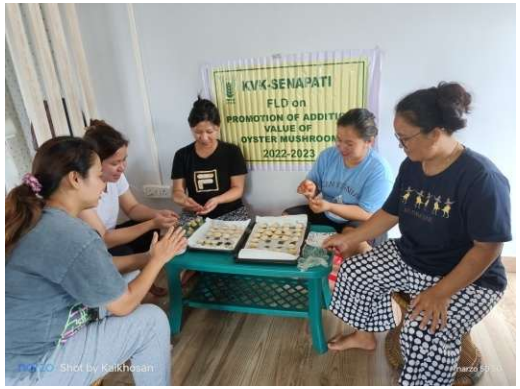
Technology	Performance parameters/ indicators	Result on parameters in relation to technology demonstrated	% Change	Remarks
➢ RC Maniphou-13 ➢ Local cultivar	**Yield gap** ➢ Technology gap:=Potential yield – Demo. Yield ➢ Extension gap:=Demo yield- farmers practices yield ➢ Extension index = technology gap/extension gapx X 100	25.6q/ha 9.1q/ha 281.31%	65% less yield over potential 30% increase over farmer practice	Data on farmers' profile and problem faced by farmers will be submitted separately if required

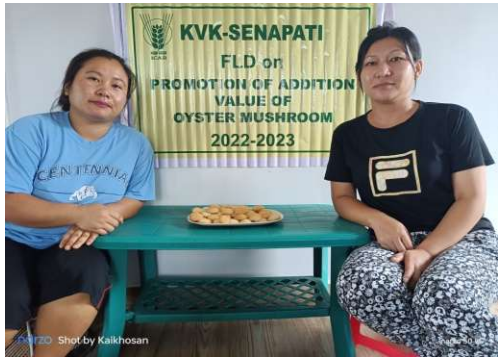
FLD Home Sc. : Promotion of value addition of Oyster Mushroom (Dried mushroom, cookies and Pickle- 1st yr.

No. of Units = 10, No. of demo= 10, Village- Mayangkhang, Molhoi

Technology demonstrated	Performance parameters/ indicators	Results on parameters		% change
		Demo	Check	
✓ Dehydrated mushroom -Blanching at 100ºC for 30 Sec and wash in cold water -Dry in solar dryer for 4 days ✓ Pickle ✓ Cookies	Shelf Life	Cookies- 1 month Pickle- 6 months	Fresh mushroom-3 days	
	Acceptability (hedonic scale)	8	5	60%
	BCR	3.2:1	2.2:1	



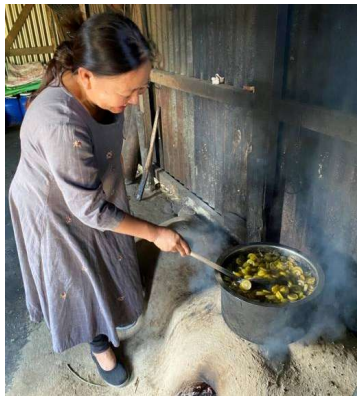
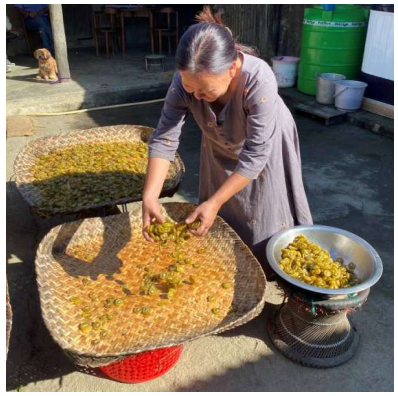


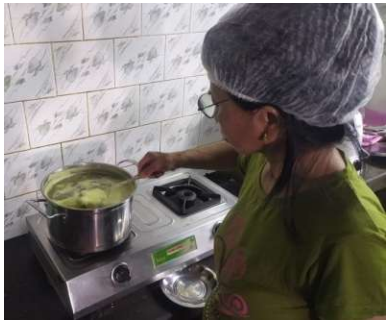


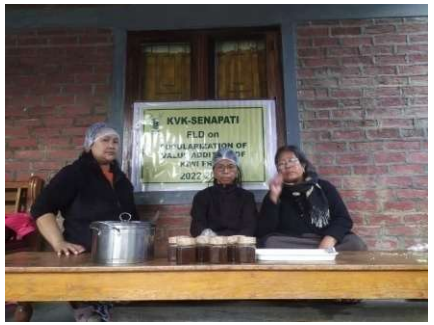
FLD Home Sc. : Popularization of Value addition of Kiwi fruit (Candy and Jam) -1st yr.

No. of Units = 10, No. of demo= 10, Village- Purul, Oiname

Technology demonstrated	Performance parameters/ indicators	Results on parameters		% change
		Demo	Local	
✓ Candy: Osmotic dehydration using sugar syrup of slice kiwi at 60 degree brix ✓ Tray drying of Osmo-dried slices ✓ Jam: kiwi fruit: citric acid: sugar (1:0.08:1)	Shelf Life i.Candy ii. Jam	4 months 6 months	Fresh kiwi fruit-2 weeks	
	Acceptability (hedonic scale)	8.4	5.3	58.5%
	BCR	3.31:1	2.2:1	

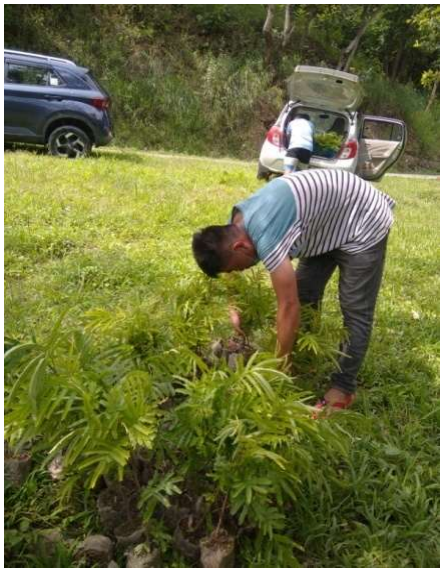



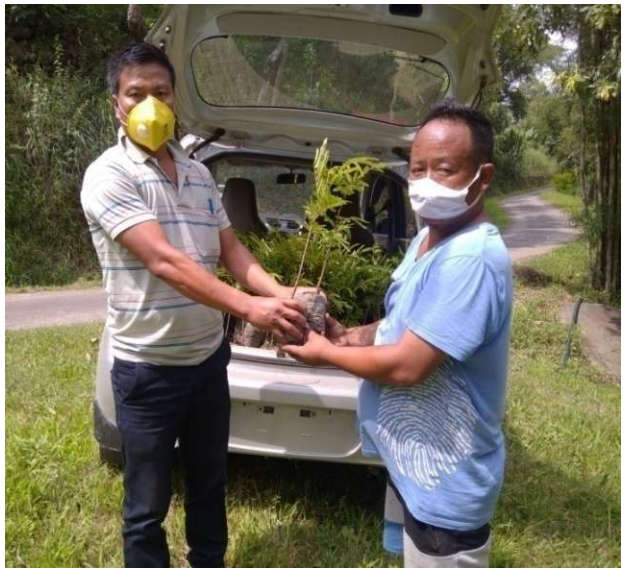
FLD Agroforestry : Introduction of MPTS with existing farming system - 2nd yr

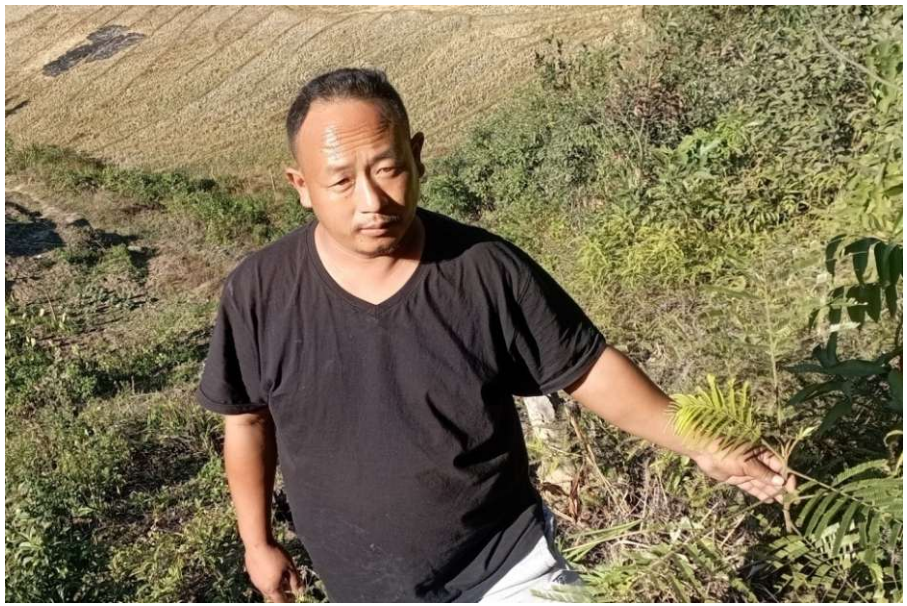
Area= 1 ha, No. of demo= 2, Village- Katomei

Technology demonstrated	Performance parameters/ indicators	Results on parameters			
		Tree bean	Citrus	Terminalia	Blackgram
Tree bean – 8mx8m as main crop **Terminalia** as Boundary planting **Citrus** as filler crop **Pulse crop-** blackgram as interspaced crop	Tree height	**3-3.5ft**	**1.5-2ft**	**1.7-2.1ft**	**-**
	Crop yield (blackgram)	-	-	-	**6.4q/ha**

Economics of blackgram (Rs./ha)			
Gross Cost	**Gross Return**	**Net Return**	**B:C Ratio**
31160	44940	13780	1.44:1







FLD Farm Management : Promotion of air layering technique for mass production of planting materials of plum –2nd yr.

No. of Units = 3, No. of demo= 3, Village- Mayangkhang, Purul

Technology demonstrated	Performance parameters/ indicators	Results on parameters		% change
		Demo	Check	
✓ Selection of pencil size branches, ✓ Making incision and removal of barks (3 mm size), ✓ Application of rooting hormone (IBA) with sphagnum moss, ✓ Wrapping of rooting media with polyethylene foil and tied with a thread, ✓ After rooting, transplanting in primary nursery bag.	Survival Percentage	90%	69%	**30%**
	Rapid root growth	80%	55%	**45%**