## Feeding growing cities

## Towards enhancing the livelihood capacities of small and marginal peri-urban farmers, Magadi, Karnataka, India

**Background and objectives:** Magadi is a rapidly developing satellite town of Bangalore ear-marked for development (Figs 1, 2 3, 4 and 5). Current population is 32,000. Livelihood activities are center around agriculture, supported by other activities like silk reeling, floriculture and small business activities. The objective of the project was to strengthen farmer organizations; help innovate food production systems, and using ecological principals; enhance marketing capacities to benefit from on-going development activities as well as contribute to the "Ecocity" concept of the Magadi municipality. This poster describes some of the outcomes observed during the first year of activities.

Methods: An urban producers' association was formed comprising small and marginal farmers: the Magadi Vavalagam Vegetable Growers' Souharda Cooperative Society (MVVGSCS), RUAF team carried out activities to enhance capacities for production, marketing, organizational and technology strengthening and credit and financing

context analysis \* inventory of available resources \* change analysis \* selection of most promising options \* identifying innovations \* market analysis \* seasonal calendars and value chain mapping \* promotion of savings and internal lending schemes \* demonstration of off season carrot production \* urban producers' field schools \* production and marketing of products \* promotion of ecological farming principles \* exposure visits \* development of business and project plans \* book keeping

The Association: The MVVGSCS comprises 6 neighbourhood groups (Fig 6). Of its 97 members, 30% are women. The executive committee, and three subcommittees (procurement and production, marketing and transportation, and finance) are the decision makers of the association.

Savings and internal lending schemes within groups: Small groups (n<=20) met at monthly intervals to save, lend and collect the repayments based on a fixed interest rate (2% per month). The funds collected (100/- per month) for the period are given in Table 1 and Figure 7.

Table 1. WV V COCO Cavings and internal Lending Ocheme as at 13 Oct 2010						
Description	SCNVAS *	SMVAS *	SDDVAS *	SCMVAS *	Overall	
Date of commencement	16-Apr-09	10-Apr-09	01-Apr-09	01-Apr-2009 (Reformation)		
Number of producers	17	18	20	19	74	
Total savings - Group(₹)	13,147	23,000	34,250	4,7560	11,7957	
Average savings per producer(₹)	773	1,278	1,713	2,503	1,594	
Loan recipients	14	16	15	19	64	
Interest earned for the group @ 2% per month(₹)	2,372	4,877	8,232	16,677	32,158	
Loan in circulation (including interest) (₹)	15,519	27,877	42,482	64,237	150,115	

SCNVAS: Sri Cheluvanarayaswamy Vyavasaya Abhivruddi Sangha SMVAS : Sri Maruthi Vyavasaya Abhivruddi Sangha SDDVAS: Sri Durga Devi Vyavasaya Abhivruddi Sangha SCMVAS: Sri Cheluvanaraya Mahila Vyavasaya Abhivruddi Sangha

Revolving fund: A revolving fund supported the farmers in need of funds for inputs. Group based disbursement was adopted. Interest earned is used for the Association's overheads

Details of revolving fund distribution and earnings to the MVVGSCS as on 15 Oct 2010

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Description	SCNVAS	SMVAS	SDDVAS	SCMVAS	Overall		
Date of distribution	25-Jun-10	25-Jun-10	25-Jun-10	08-Sep-10	-		
Number of producers	6	6	13	7	32		
Total amount distributed(₹)	26,560	25,872	56,056	35,000	143,488		
Equity monthly instalment(*)	1,476	1,437	3,114	1,944	7,971		
Loan repayment(₹)	3,264	4,322	9,834	2,200	19,620		
Interest earned for the association @ 2% per month(₹)	1,257	1,548	3,061	700	6,566		
Loan outstanding (₹)	23 296	21 550	46 222	32 800	123 868		

Urban producers' field schools: Farmers exchanged innovation experiences in the field (Fig 8): package of best practices, integrated crop management, marketing and financial aspects, harvesting and post harvest technologies, feedback, record keeping and mixed cropping.

Ecological farming practices: 25 beneficiaries were willing to contribute 25% of the total cost to establish vermi-composting units(Fig 9). Expected earnings are INR 6000 per cycle of three months per unit. 20% goes to the association cover costs. The first results are expected by the end of the month.

Exposure visits: Farmers participated in exposure visits (Fig 10 & 11) to enhance their skills related to production, marketing and finance. Several capacity building workshops and meetings have been conducted for organizational and technical strengthening.

Production and marketing: Carrots were selected as the most promising option (MoPO) based on a rank matrix. Production was aimed for high-end markets. Innovations were identified after discussion, and a value chain map was developed (Fig 12). Innovation was pitched at both technical and organizational levels. The timing of production was based on seasonal calendars.

**Economics of carrot production** 

Staggered groups	Area (m²)	Cost of cultivation	Quantity produced	Rate (₹/kg)		Gross profit	Net profit	Net profit/ 1000 m <sup>2</sup>	
	(111 )	(₹)	(kg)	Min	Max	(4)	(₹)	(₹)	
1	3813	25,207	2611	12	17	36,874	11,667	3,060	
2	3098	24,542	2783	12	18	34,564	10,022	3,235	
3	2574	21,448	2336	13	19	33,044	11,596	4,506	
4	4099	27,431	2266	17	22	41,243	13,812	3,370	
5	4003	27,450	1365	20	26	30,030	2,580	644	
6	4289	28,637	1212	24	28	30,785	2,148	501	
7	3527	26,376	1979	24	26	49,475	23,099	6,550	
Total	25402	101 001	1/551	122	155	256 015	74 024	2 040	



Urban producer family cleaning and grading carrots



Fig 1: Location map



Fig 2: Irrigated crops



Fig 3: Rain-fed crops



Fig 4: Land-use map of Magadi municipality



Fig 5: Proposed land-use map of Magadi (2021)

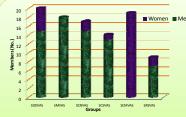


Fig 6: The MVVGSCS groups



Participatory situation analysis on urban



Fig 7: Group saving and internal



Fig 8: Urban producers field



Fig 9: Vermi-composting unit



Fig 10: Participatory diagnosis and market analysis



Fig 11: Learning marketing strategies in Tamil Nadu



Fresh carrots for the supermarket



**RUAF-From Seed to Table (FStT)** 



