Innovations in Vegetables

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Overview

What's appropriate What we're currently doing What's also new in those areas What else is novel?







Appropriate Innovations

Suitable for smallholder farmers Publicly available and already implemented Accessible by AVRDC and partners Only local adaption needed





Our current innovative introductions

Protected cultivation







Our current innovative introductions







Our current innovative introductions

Value chains

















Soil solarization for non-chemical control of nematodes







Core mungbean collection







Sources of resistance to viruses and insect pests







Rootstocks and scions grafted to produce high-yielding, biotic stress resistant and/or abiotic stress tolerant plants



Lam Dong Province, Vietnam: 100% uptake by farmers grafting with resistant eggplant and tomato rootstocks to manage bacterial wilt of tomato







IPM for Eggplant fruit and shoot borer



Biopesticides for diamond back moth in crucifers



Phosphorous acid for control of late blight







Identification of virus complexes



Farmers' knowledge of virus management



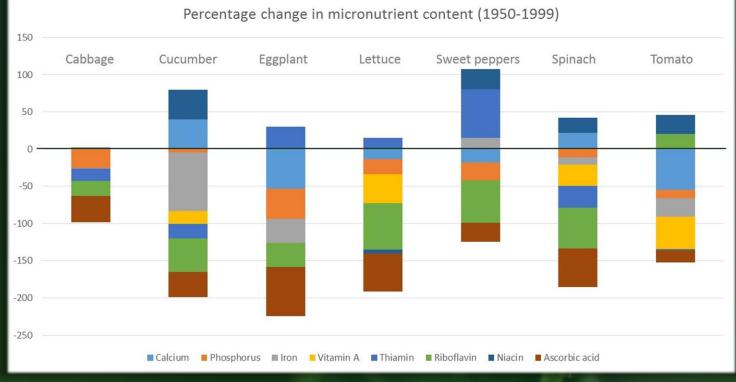
Training in insecticide use







Nutrient dense crops







Expanding the use of traditional vegetables

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	Ranges	Tomato	Cabbage	Moringa	Amaranth	Aibika	Sweet potato leaf
β-carotene (mg/100g)	0.0 - 22	0.40	0.00	15.28	9.23	5.11	6.82
Vitamin C (mg/100g)	1.1 - 353	19	22	459	113	82	81
Vitamin E (mg/100g)	0.0 - 71	1.16	0.05	25.25	3.44	4.51	4.69
Iron (mg/100g)	0.2 – 26	0.54	0.30	10.09	5.54	1.40	1.88
Folates (mg/100g)	2.8 - 175	5	ND	93	78	177	39
Antioxidant activity (TE/100g)	0.6 - 82,000	323	496	2858	394	560	870







Peri-urban vegetable production



Gardens and dietary diversity



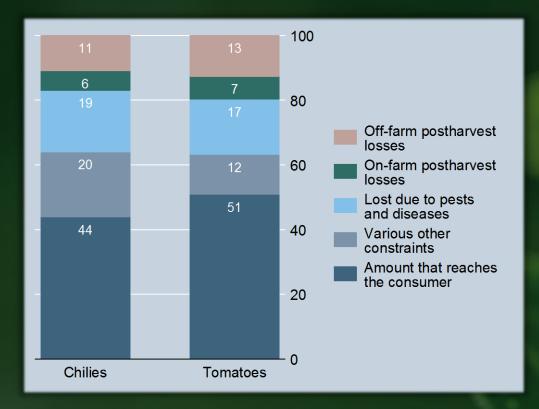
Smallscale seed kits







Identifying pre- and postharvest losses in chili and tomato is just the start





Sources: AVRDC-TNAU survey 2013 (preharvest losses); Viswanathan et al. 1998 Status of Harvest and Post Harvest Losses of Tomato in Tamil Nadu, Agricultural Engineering Today 22(5/6): 28-35 (postharvest losses)

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Stronger engagement with the private sector in best-practice hubs











Thank you



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