



Development Action Planning (DAP)

34th International Vegetable Training Course "Vegetables: From Seed to Table and Beyond" Module 2 (October/ November, 2015)

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AVRDC-Pakistan-Vision

- Diversification of vegetable crops / varieties with reduced pesticide use and efficient management to increase income
- Expansion of mungbean in various existing cropping systems with improved production and IPM practices
- Increased quality seed supply of improved varieties with reduced price
- Improving production technologies for specific agro-ecosystem
- Additional income through the development and promotion of postharvest and value addition technologies.





Partnerships

- Generation of Technology AVRDC-NARS
- Dissemination of Technology
 NARES- Provincial Partners and Line Departments
- Adaptation of Technologies
 NARES and Service Providers
- Seed Companies and Community Organizations/NGOs

NARS=National Agriculture Research Services
NARES=National Agriculture Research and Extension Services





Location of Activities





Three topics in module 2 that were most useful to my work.

- 1. Value Chain (From Seed to Table)
- 2. Protected Cultivation for Vegetable Crop Production (Structures, types and green house management)
- 3. Food Safety and Nutrition (Especially Bio active compounds in Fruits and Vegetable)



Purpose of DAP

- Protected Cultivation of Vegetables (PCV)
- Tomato
- Bitter gourd
- Chili
- Sweet Pepper
- Cucumber
- Marrow
- Musk melon
- Water Melons
- Gourds
- Strengthening of the Vegetable Seed Production Value Chain (VVC)
- Onion
- Chilies
- Peas
- Tomatoes
- Okra

Protected Cultivation Techniques in Pakistan

Tissue Net Farming



Plastic Tunnel Farming





Green Net Farming

Pictorial Glimpses



Cucumber grown in a plastic tunnel



Introducing green net tunnels in Pakuistan



A happy farmer with a tomato basket produced under Protected cultivation



Site view of plasti-culture (locally design bamboo tunnel)

















Action Plan Development

Problems:

PCV:

- Traditional approaches (Structures, material use and management)
- Maximum use of chemicals
- No proper marketing (grading, packing and packaging)
- Post-harvest loses
- No Sustainability and year round production (thinking big?)

VVC:

- Missing links in VVC
- Quality seed production
- Seed certification
- Meeting the demand



Objectives:

 To build capacity of *farmers for green house/tunnel management for year round efficient and profitable production of vegetables

 To develop a complete value chain of Vegetable Seed production (especially onion, Chilies, Peas and Tomatoes)

* (for AVRDC-Pakistan beneficiaries)



Target Audience:

- Vegetable growers
- Vegetable Seed Producers and dealers
- Working partners of AVRDC-Pakistan

Specific Activities

- Trainings
- Farmers field days
- Workshops
- Exhibitions
- Print and mass media (TV, Radio, booklets, newspapers, pamphlets', brushers and flyers etc)





Human resources/Activities/Time:

- The Research Associates (9 RAs) of AVRDC will identify the need base trainings in the potential area where PCV is practiced.
- A quarterly event plan will be developed with the consents of working partners and farmers.
- AVRDC Pakistan Training budget will utilized for the activities.
- Trainings will be executed as per the developed training plan (on quarterly basis) till the end of project.



Challenges:

- Slow adoption of Protected Cultivation among small vegetable growers
- Low awareness level of farmer (literacy rate, illiterate)
- Lack of storage of vegetables
- Low level of understanding about hybrids and Cultivated Varieties & high prices
- Indiscriminate use of pesticide in protected cultivation
- Import of vegetable seed / hybrid without considering adaptability
- Lacking awareness about benefits of drip irrigation technology PCV
- Practice of adulteration of seed in markets
- Poor linkage of Research institutes with farmers
- Bottlenecks in postharvest handling, value addition and value chains





Thank You

