

# ICTs for Rural Development

*An Integrated Approach to Bridge the Divide*



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ICTs for Rural  
Development

# The Role of Media in Agricultural and Rural Development

Media tools in the early days of development assistance

- Radio, print, television, cinema – powerful instruments to reach the *masses* and teach new ways of thinking, new attitudes and techniques that would stimulate economic development

New communication tools and shift in development thinking:

- Participatory video
- Rural Radio
- Information and Communication Technologies



# The Role of Media in Agricultural and Rural Development

ICTs for development - a difficult concept to grasp

- Observation and measurement of ICTs potential is the most neglected in the area of policies and projects (OECD 2001)
- Initial hype: a technological promise without consideration for the underlying social, economic, regulatory and cultural barriers.
- Divergent models of technological adoption



# Knowledge and Information for Rural Development

Sustainable agricultural development is based less on material inputs (e.g., seeds and fertilizers) than on the people involved in their use.

Knowledge and information are essential for empowering rural communities to more effectively influence local development.

The challenge is to assist farmers to produce more food and secure the means to overcome food-insecurity and poverty.

This calls for new technologies, skills, practices and ways to collaborate and, most of all, it requires that farmers have access to relevant information and knowledge.



# The Information Age

- New communication tools and channels
- Information economy
- Dramatic expansion in information technology and services
- World-wide increase in the reach of mass media and electronic communication
- New forms of social interaction, new relationships, new types of transactions
- New economic opportunities and challenges



# The Information Age: Threats and Opportunities

## Rural Development in the Information Age: some issues

- Building the information technology infrastructure
- Social impact of Information and Communication Technologies on the lives of people
- Content relevance and reliability
- Language
- Format

# The Information Age: Threats and Opportunities

## Rural Development in the Information Age: some issues

- Access - technological, educational, cultural
- Training
- North-South discussion: Is the technology narrowing or widening the knowledge gap between rich and poor communities
- What about rural communities where basic access to telecommunication facilities is lacking?



# The Information Age: Threats and Opportunities

## Information Poverty

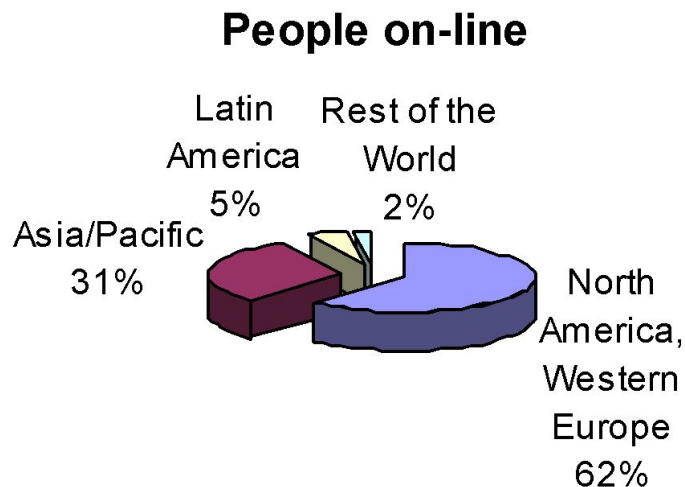
- Information “haves (rich) ”and information “have nots (poor)”
- Technology access will not put an end to poverty
- People with access do not automatically move to the “rich”group

*The information revolution has bypassed nearly one billion rural people and exacerbated the existing differences.*

***Digital Divide -----> Rural Digital Divide***



# The Information Age: Threats and Opportunities



Total on-line: 606  
million

# Rural Development in the Information Age

## Why are ICTs important?

- Potential for economic growth via inward and international investment
- employment and income generation
- Telecommunications, electricity are key utilities forming an integral part of development
- Shift towards knowledge economies



# Harnessing Knowledge for Development

Need for new strategies involving different technologies and building on existing strengths.

Information must be available in appropriate languages and formats, up-to-date and communicated through appropriate channels.

***Information intermediaries:*** a bridge between the information providers and the community members.

Good intermediaries include proximity, trust and knowledge (extension workers, educators, radio broadcasters, community leaders)



# ICTs for rural development, the FAO experience

## **A Communication for Development Approach: starting with the communities.**

Main objective: assist farmers in developing local communication processes through the use of media tools such as community radio, small format video and new ICTs.

The communication for development approach provides development planners with a conceptual tool that puts rural people and rural organisations at the centre of any communication strategy design and in control of communication and information network development.



# ICTs for rural development, the FAO experience

## Communication for Development

Enhance Information and Knowledge sharing among development actors.

*Communication for development rests on the premise that successful rural development calls for the conscious and active participation of the intended beneficiaries, especially women and the “poorest of the poor” at every stage of the development process.*



# ICTs for rural development, the FAO experience

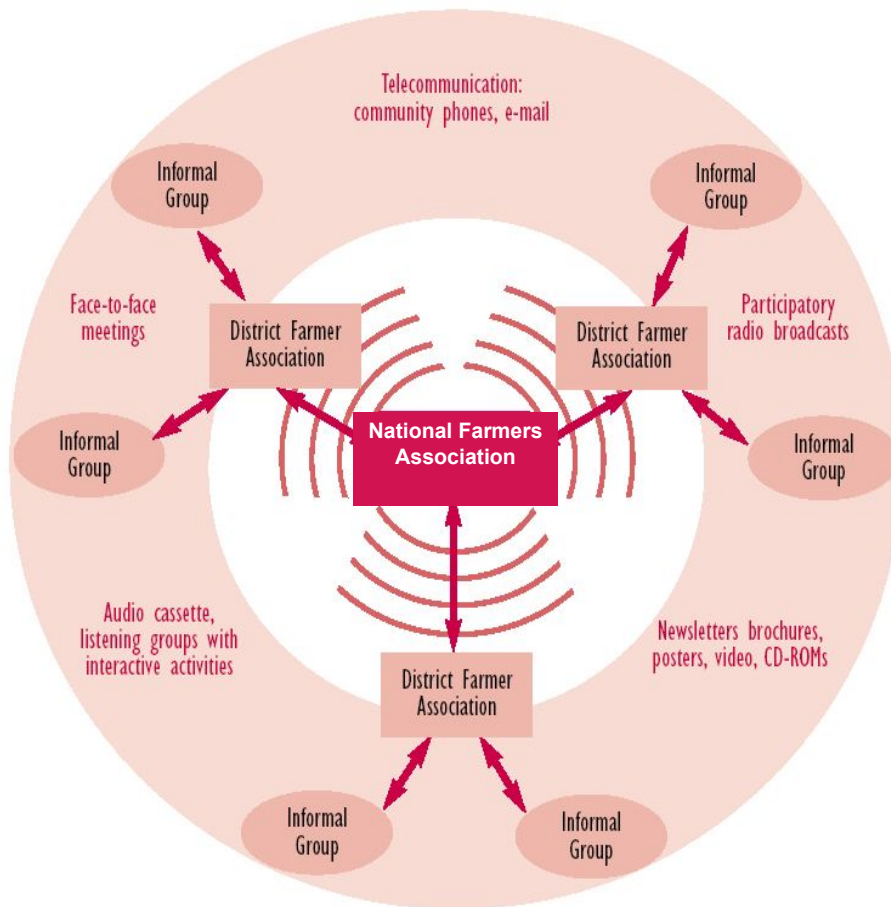
## Farmer Information Networks (FarmNets)

A network operated by groups of farmers in collaboration with support services (agricultural research and extension, NGOs, input suppliers and marketing agents).

ICTs linked to more conventional media (e.g. radio) as well as to interpersonal communication processes, such as farmer-to-farmer information exchange.



# ICTs for rural development, the FAO experience



## Objectives:

- Facilitate interactions for generating, gathering, adapting and exchanging agricultural information and knowledge.
- Facilitate transactions for better, more productive farming.

# ICTs for rural development, the FAO experience

## FarmNets

### Benefits:

Lower-cost inputs, improved transportation links, better crop storage arrangements, profitable negotiation with buyers.

Access to local, regional, national and global agricultural information.

A valuable tool for strategic planning and decision making by farmers and their organisations which can contribute to sustainable agricultural production

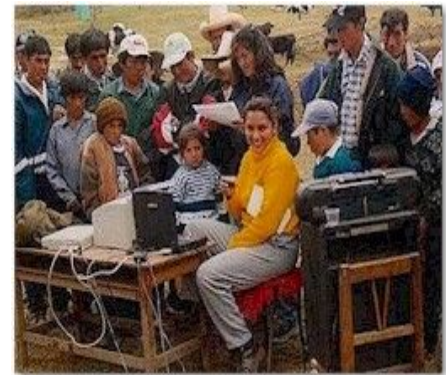


# ICTs for rural development, the FAO experience

## Linking Rural Radio to ICTs

Information and knowledge systems are extremely effective when they are built on existing information systems and complemented by community intermediaries, institutions or individuals, who may act as a bridge between global networks and the communities.

Radio is the most pervasive, accessible and affordable mass medium



# ICTs for rural development, the FAO experience

## Linking Rural Radio to ICTs

### Rural Radio functions:

- rapid diffusion of development information to remote geographical areas
- channel for interactive communication, dialogue and debate on major rural development issues.
- a tool for cultural expression, entertainment.
- A platform for democratic expression of opinions, needs and aspirations of rural communities



# ICTs for rural development, the FAO experience

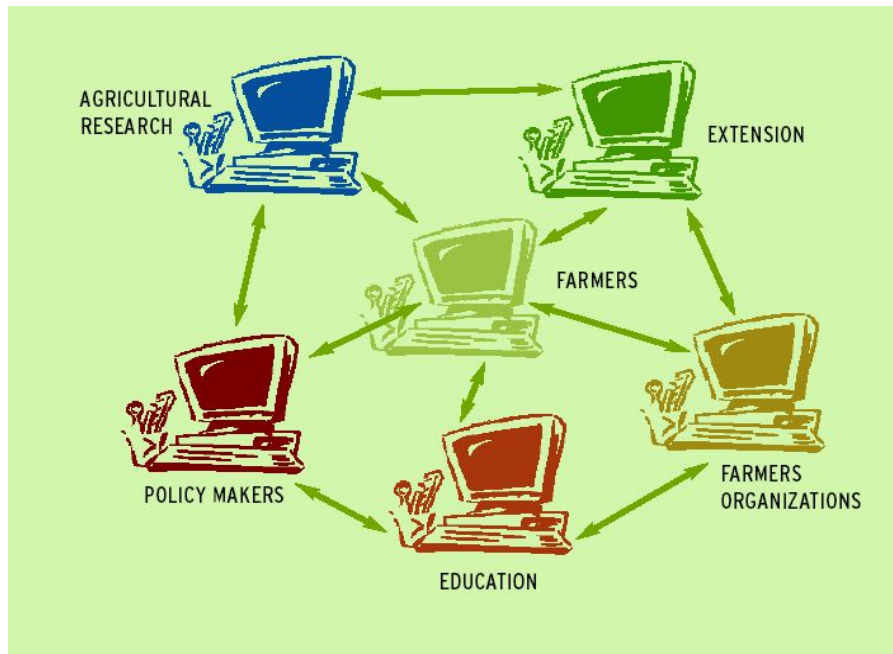
## **The Virtual Extension, Research and Communication Network (VERCON)**

Weak linkages between extension and research are a documented global problem and often result in systematic knowledge and information "bottlenecks" and limit the effectiveness of research to contribute to agricultural development.



# ICTs for rural development, the FAO experience

## The Virtual Extension, Research and Communication Network (VERCON)



A conceptual model that employs Internet-based ICTs to strengthen linkages among agricultural policy, research and extension institutions and individuals.

# ICTs for rural development, the FAO experience

The VERCON's innovative nature is its capability to achieve effective linkages by connecting geographically dispersed people and enhance two-way communication, managing large volumes of data, and rapidly collecting, processing and dispersing information in a variety of forms.

The VERCON concept consists of two fully-integrated and inter-dependent components; the human and the technological.



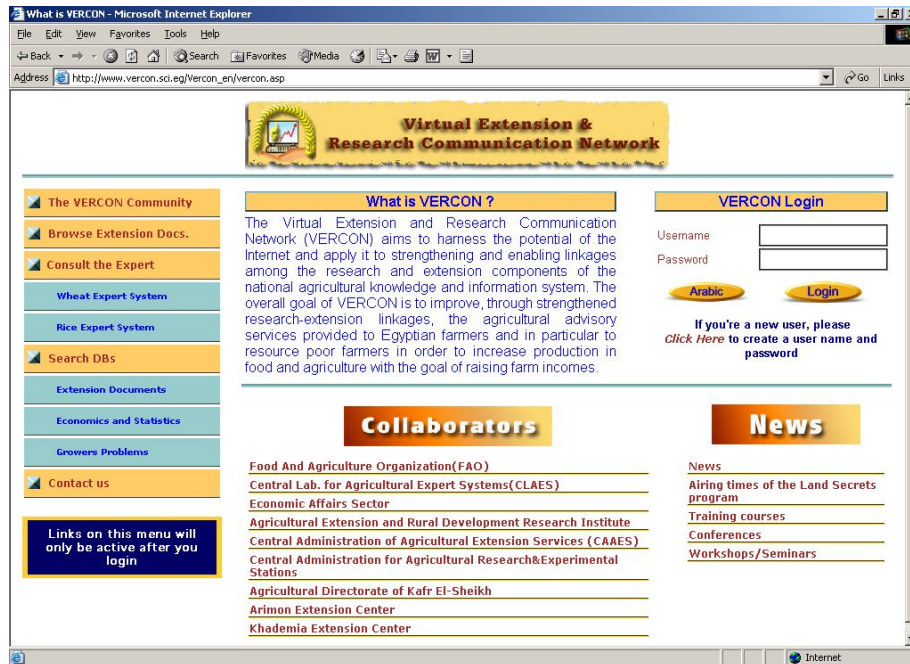
# ICTs for rural development, the FAO experience



## **The human component**

A network of policy-makers, research and extension workers, academics, NGOs and farmers, committed to collaboration, communication and supporting agricultural producers

# ICTs for rural development, the FAO experience



## The technological component

The tool which allows members of the network to communicate and develop, share, store, retrieve and disseminate information. It relies on the network of people to contribute, update and create knowledge and information



# ICTs for rural development

## The Way Forward

- Work with government, private sector & civil society to influence ICT policy/regulatory environment and ensure affordable access
- Involve all stakeholders and promote bottom up local participation and demand-led approaches
- Encourage decentralized and flexible control of resources
- Build on and strengthen local appropriation of ICTs and support local entrepreneurs



# ICTs for rural development

## The Way Forward

- Promote the generation of local content
- Remove barriers to rural access and increase access by women and youth
- Support ICT training and encourage ICT-based learning (e.g. in schools)
- Support field work and research on integrating ICTs and radio, other media and innovative networks



# ICTs for Rural Development

*An Integrated Approach to Bridge the Divide*

*Thank you*

