How important is agriculture for Pakistan’s economic growth?

Agriculture is the mainstay of Pakistan economy. It contributes 21.4% to Pakistan’s GDP. About 67% of the population in the country is living in villages & 45% of the labor force is engaged in agriculture. Agriculture is also one of the most important export sectors of Pakistan. Wheat, rice, cotton, sugarcane, maize, pulses, oilseeds, fodder crops, fruits and vegetables are some of the important crops grown in Pakistan.

Pakistan produced 24.3 million tons of Wheat and 6.0 million tons of Rice during 2012-13

What are the major challenges in agriculture in Pakistan, especially in Punjab, which is the major food bowl of Pakistan?

Punjab is the largest province in terms of population and has the vibrant and fastest growing economy with 56 % share in national GDP. Punjab contributes about 76% to annual food grain production in the country. Wheat, cotton, sugarcane, basmati rice, maize, potato, citrus and mango are the major crops grown in Punjab.

Despite its tropical wet and dry climate, rich alluvial soils and extensive irrigation, agriculture in Punjab is confronted with stagnation in yields, loss of fertile soils due to urbanization, dwindling water resources, land fragmentation, climate change, low pace of diversification, increasing costs of production, energy crisis and issues related to marketing

Which are the organizations working for agricultural development in Punjab and what roles do they play?

Agriculture is a provincial subject. However, the Federal Government coordinates with provinces through dedicated committees related to research and development activities. Pakistan Agricultural Research Council (PARC), the apex national level organization works in close collaboration with provincial research institutes and the universities.

Pakistan has several agricultural universities and agricultural colleges. The University of Agriculture (UAF), Faisalabad is one of the oldest agricultural research centres in the region. The Ayub Agriculture Research Institute (AARI) located at Faisalabad is a major research organization in Punjab working under

Extension services in Punjab need new capacities to deal with the evolving challenges in agriculture. Sharing of agricultural knowledge and good practices in extension and advisory provision in the region can go a long way in strengthening these capacities and enhancing productivity and rural incomes.

Dr Muhammad Anjum Ali
Director General of Agriculture (Extension and Adaptive Research), Punjab, Pakistan
the Department of Agriculture. Extension activities are organized at the Provincial and District levels.

How extension services in the public sector are organized in Punjab?

Agriculture Extension field services in Punjab are devolved to districts, although, a New Local Government Act 2013 has been passed by the Punjab assembly to administer Agriculture Extension at provincial level through a regional setup but this law is yet to be implemented, therefore, at present field extension activities are governed through District Governments where, Agriculture Extension, Water Management, Soil Fertility and Soil Testing Laboratories, Soil Conservation, Livestock, Forest & Fisheries are clubbed together for transfer of technology.

Provincial Agriculture Extension is working on preparation of crop specific plans, fixing of area and production targets for rabi/kharif crops, preparation of Provincial level development projects, interaction with other Provincial and Federal governments, Amendments in Agricultural Laws and Provincial level implementation, monitoring of the District level activities and planning and testing of new strategies for transfer of technology.

District Governments are responsible for achievement of area and production targets, maintenance of agricultural statistics, implementation of production technologies, organizing village level farmer trainings, implementation of approved projects, preparation of district level projects, participation in provincial review meetings and providing feedback on researchable problems.

Punjab follows a modified T&V (Training and Visit) program, where, graduate extension agent is visiting groups of farmers on a notified date after getting training from master trainers. In addition, Punjab is also following Farmers Field School approach for fruit and vegetable programs. Since 2012 “plant-wise” approaches have been introduced with the support of CABI to conduct plant diagnostics and data management. ICTs (Information & Communication Technologies) are increasingly used to reach farmers with information. The Department of Agriculture is also using SMS, Voice Calls and websites to reach more farmers.

What is the current status of extension provision in Punjab?

The Punjab Province has 9 Divisions, 36 Districts and 136 Tehsils. It has over 10,000 staff (located at the provincial and district levels) for agricultural extension. Each district has a District Officer Agriculture (Extension) heading extension activities and a Deputy District Officer Agriculture (Extension) for each Tehsil and an Agriculture Officer for each Markaz.

Each Markaz has 6-7 Union Councils covering 45-50 Villages. A Field Assistant is working at each Union Council (7-10 Villages) and he/she is a three year post SSC agriculture diploma holder. But all officers are graduates and some of them are even post graduates and PhD’s in Agriculture sciences.

Apart from field extension service, the Department of Agriculture is involved in adaptive research to showcase, fine tune and tailor the technologies in different agro-ecological zones. With the advancement of knowledge and skills, Agriculture Officer is now a frontline worker who trains his field staff and farmers and also demonstrates new technologies.

The University of Agriculture (UAF), Faisalabad also organizes extension activities such as Kisan Melas in every kharif and rabi season in collaboration with the Department of Agriculture. However its major focus is on education. The university is involved in training of extension officers and implementing the ICT Projects such as www.zaraibaithek.com.
Private extension service providers are also active in transferring new technologies in Punjab. For instance, input companies dealing with seeds, fertilizers, pesticides and agriculture machinery have a professional field force to promote technologies. Non-Governmental Organizations especially the Rural Support Program Network (RSPN) is promoting new technologies in agriculture.

Pakistan is a major exporter of fruits and vegetables. Fruit and vegetable exports went up by 40 and 33 per cent respectively in dollar terms in the first five months of the 2013-14 compared to the same period last year. Almost 95% of citrus, 82% of guava and 66% of mangoes produced in Pakistan originate in Punjab.

What are the current challenges faced by extensionists in region?

There are over 4 million farming families in Punjab. But the number of graduate extension officers is less. The current ratio is about 1: 9500 (1 graduate extension officer for 9500 farm families). According to a notified schedule of 50 Villages (Markaz), an officer can reach each village once in 40-45 days only.

Extension in Pakistan became weaker with its decentralization to District Governments. Extension is not getting the priority it deserves at the District Government level as they are more interested in developing road networks, offering municipal services, beautification, landscaping etc.

Extension currently has to deal with several new challenges such as post harvest losses, declining soil and water health, adaptation to climate change and linking small farmers to markets. To deal with these challenges, extension staff needs regular training and technical backstopping from national and international organizations and the extension organization needs to improve its monitoring and evaluation activities. The Government of Punjab is preparing a short, medium and long term vision on agriculture to address many of these issues in a befitting manner.

Keeping in view the common challenges faced in the Indo-Gangetic Plans across India and Pakistan, do the extension agencies in the two countries, say Indian state of Punjab and the Punjab province of Pakistan collaborate on any issues?

Apart from personal relationships, there is no institutional collaboration among extension agencies in these two countries. Perhaps, the Agricultural Extension in South Asia (AESA) network (http://www.aesa-gfras.net) can play a lead role in strengthening collaboration among agriculture extensionists in this region. As the Indian and Pakistan Punjab have similar agro-ecologies, joint initiatives to address common problems and sharing experiences from this region would be of great value for each other.

Can AESA make a difference in strengthening extension and advisory services in the region?

Yes. I hope the Agricultural Extension in South Asia (AESA) Network will facilitate sharing of viable, economical, adaptable and sustainable technologies and good practices in extension across the countries. Similarly sharing of knowledge on good agricultural practices for small farmers on productivity enhancement, diversification and value addition would also help. I hope the AESA network will facilitate reforms in agricultural extension system in South Asia and help change the fate of small farmers in one of the most populous area of the world.