



Sustainable Dairy Farming in Asia 2025 - Webinar



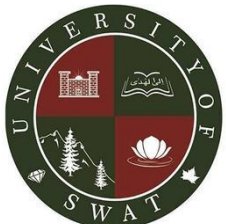
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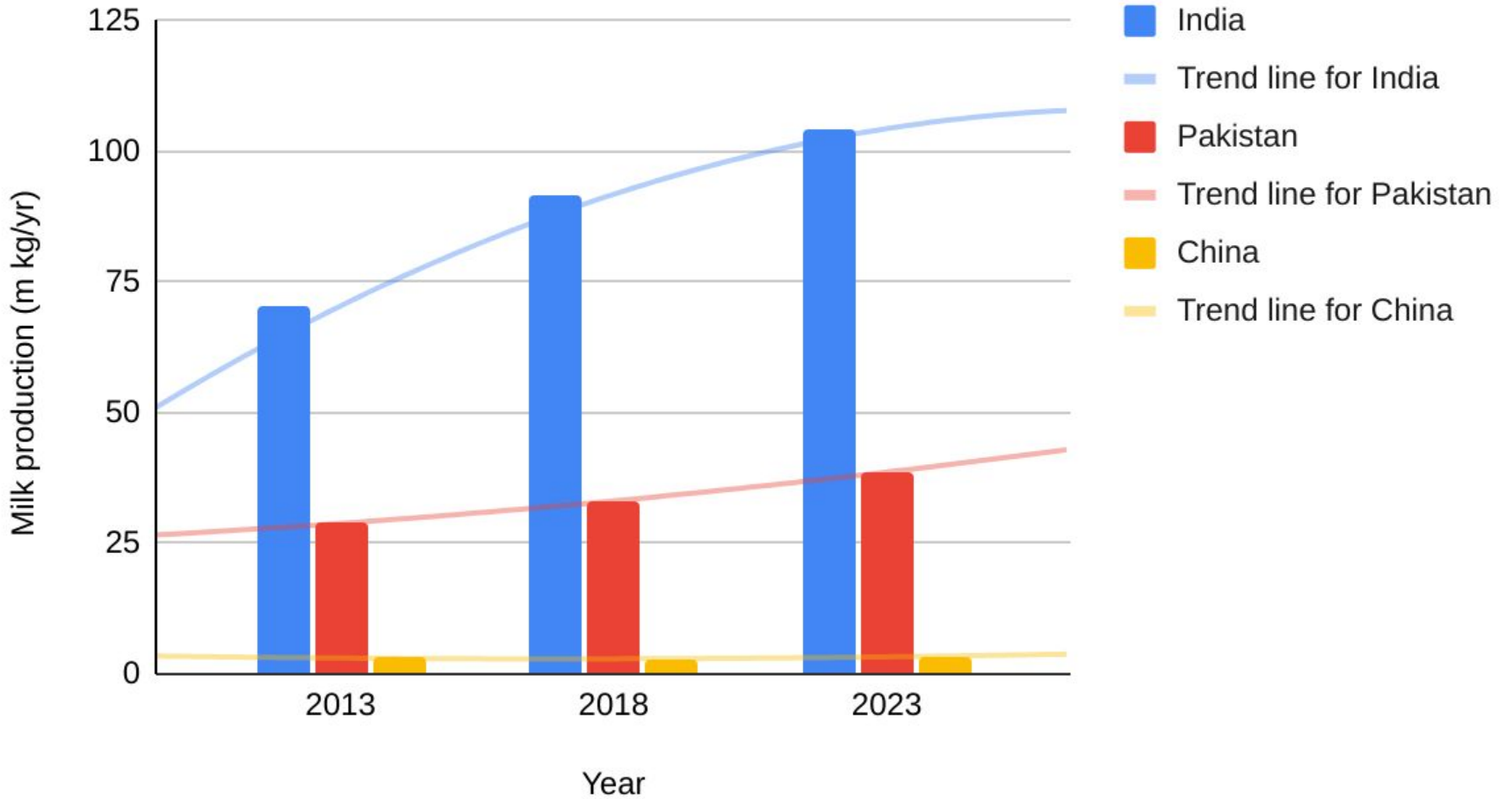
International Trade Centre



Trends in Dairy Production

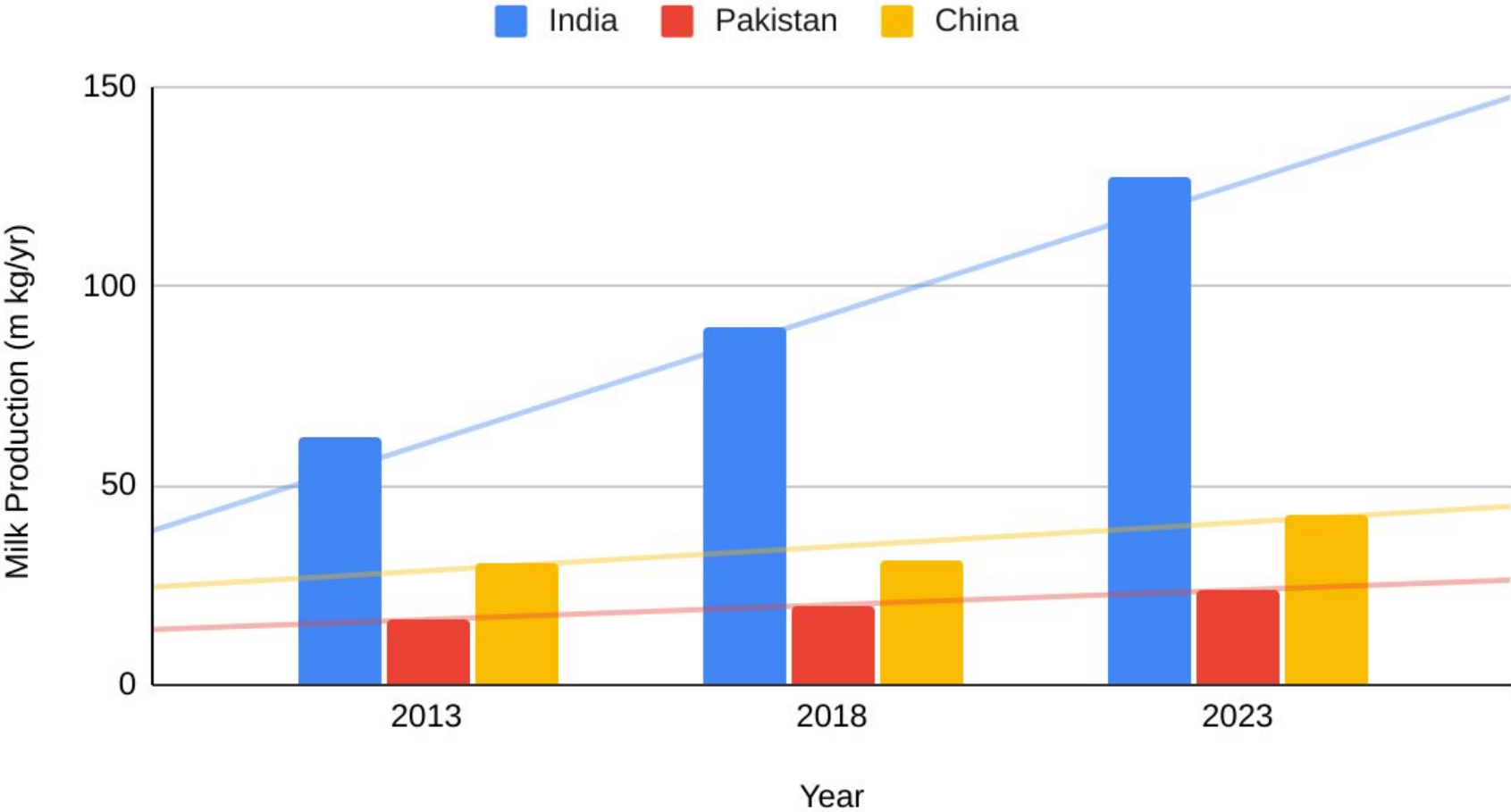
- Approximately 150 million households around the globe are engaged in milk production ([FAO 2025](#)).
- In most developing countries, milk is produced by smallholders, contributing to household livelihoods, food security and nutrition.
- In the last three decades, world milk production has increased by more than 77 percent, from 524 million tonnes in 1992 to 930 million tonnes in 2022.
- India is the world's largest milk producer, with 22 percent of global production, followed by the United States of America, Pakistan, China and Brazil.
- Since the 1970s, most of the expansion in milk production has been in South Asia, which is the main driver of milk production growth in the developing world.

Buffaloes milk production (m kg.yr)



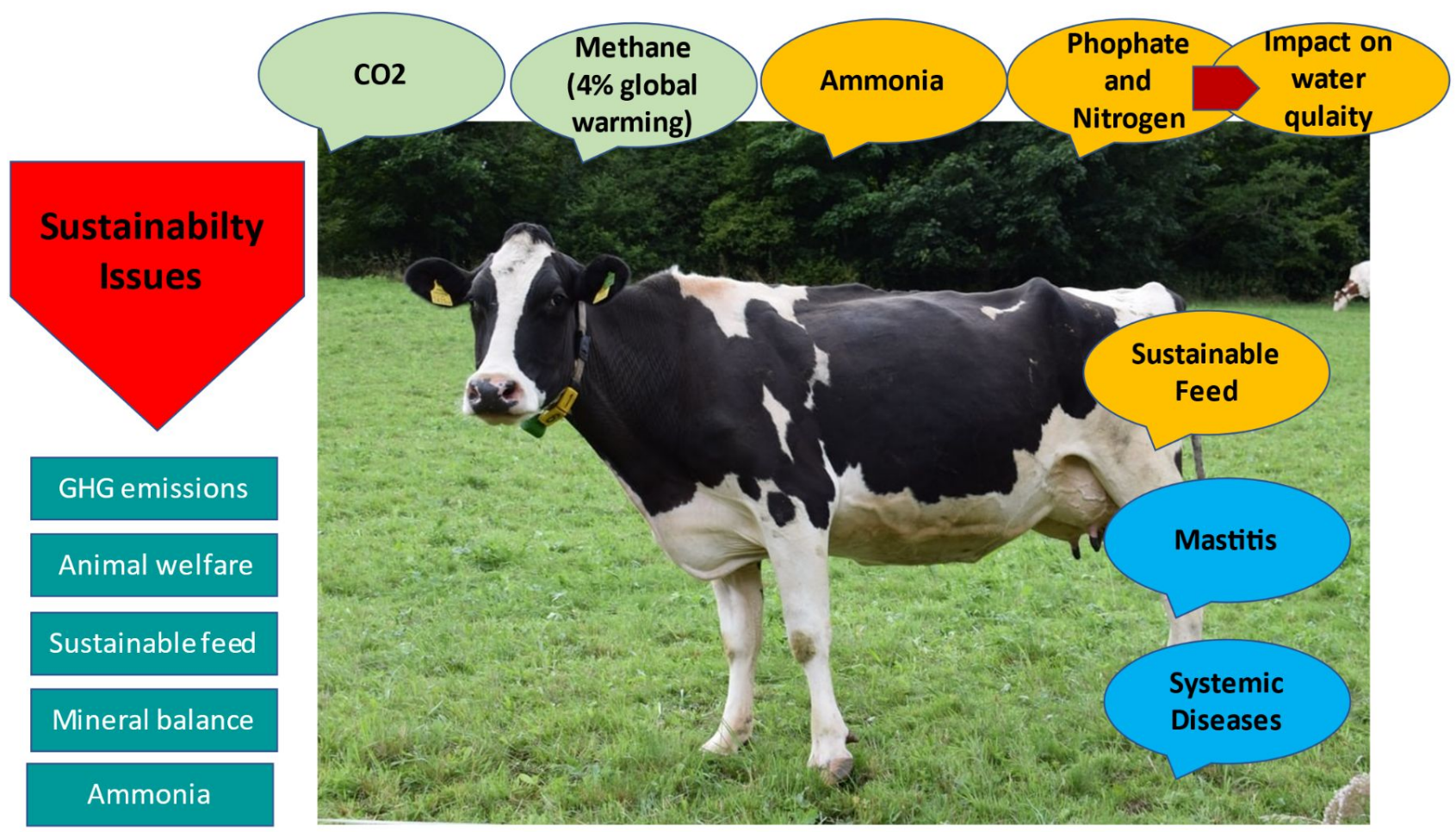
FAOSTAT 2025

Cattle milk production



FAOSTAT 2025

Sustainability issues in Dairy Production



(By Team Pashudhan Praharee - May 28, 2022)



Production Issues in Pakistan

Total value **Rs.1000 b**
An meat prod **Rs.200 b**

- Entrepreneurship contribution???
- Hygienic food production ?????





Processing Issues

- *Animal transportation ?*
- *Products processing ?*
- *Formal investment ?*

- *Traceability of products ???*
- *QC certification ????*

Institutional focus

- Livestock Extension, health coverage
- Livestock Research, vaccine and diagnosis
- Livestock Education, veterinary medicine
- Agric Extension/Research, Crops Production & Mngt

- Deputy Commissioner, price capping, no QC
- Legal courts, price capping, no QC
- SMEDA, little attempts
- KPCCI, low priority
- Public health, low priority
- ORIC Offices of Universities, underutilized

- **Entrepreneurship/exports, missing**
- **Hygienic/Halal concepts, missing**
- **QC Control/Traceability, missing**



Co-Founders
of Dairy
Science Park
at Cairo in
2010



It was my most memorable moment when I met Prof. Subhan Qureshi in Egypt and found him to be a truly committed scientist with a deep empathy towards the livestock and dairy farming community of the province of Pakhtunkhwa and Pakistan at large. His deep understanding of the problems and aspiration to find innovative solutions, which can attract the attention of donors and policy makers so that the needed resource base is generated to impact incomes and livelihoods of the poor dairy farmers as well as strengthen the scientific environment to benefit the students.

(Dr Abdul Rahman Ilyas, 2010 Cairo/India)

Dairy Science Park Cairo (DSPC) will be supported, commissioned and hosted by Academy of Scientific Research and Technology (ASRT), Cairo. The concept of DSPC is in line with the Production Transformation Policy Review (PTPR) calling for scaling up productive investments and innovation, needed to unlock opportunities for all and achieve sustained and sustainable, job-rich growth. Understanding the unique status of attributes of each of the farming systems in Egypt, is fundamental to our proposal for establishing the DSPC. This project aims to innovate and optimise the existing systems, enhancing productivity, fostering sustainable practices, and creating entrepreneurship models.

Prof M Subhan Qureshi, 2024, Peshawar

Dairy Science Park - The Intervention

- Registered as a Society under Societies' Registration Act XXI of 1860 (Reg No.4582/5/8589 dated 2-7-2015) by Government of Khyber Pakhtunkhwa
- Accepted by KP Chamber of Commerce and Industries as a Corporate Member.
- Accepted by the United Nations as SDG Action 9671, notified at <https://sustainabledevelopment.un.org/partnership/?p=9671>.
- DSP is taking care of Sustainable Development under:
 - SDG 2, covering production of milk, meat and milk for local consumption;
 - SDG #3 covering food safety for protection of public health;
 - SDG 5, engaging women in the livestock sector transformation process;
 - SDG 7, providing biogas and solar energy for farm operations and processing factories;
 - SDG 8, ensuring generation of decent employment for the youth through business incubation and entrepreneurship development and;
 - SDG 16, ensuring end of conflict among stakeholders in the private and public sectors

1. International Conferences and Industrial Exhibitions Series

DSP I - 2011 Peshawar



DSP-II - 2013 Peshawar



DSP III - 2015 Peshawar



DSP-IV - 2017 Konya



*Dairy Science
Park Congress
Konya, TURKEY
November 1-5
2017*



*4'üncü
Uluslararası
Sütçülük
Kongresi
Konya, TÜRKİYE
1-5 Kasım
2017*



DSP V - 2019 Quetta + BLE

DSP Quetta established at QCCI



2. Biorisk Management Workshops Series

DSP BRM I - 2015 Amsterdam

2015 - Amsterdam

Sandia National Laboratory USDS agreed
on Biorisk Management Collaboration



DSP BRM II – 2016 Dubai

Sandia National Laboratory-Dairy Science Park BRM Workshop

**DSP BRM III - 2016 Bangkok
SNL-DSP Workshop on BRM
Curriculum Development**



**DSP BRM IV - 2017 Phuket
SNL-DSP BRM Workshop on public health awareness**

AUP Curriculum Development Phase III



DSP BRM V - 2017 Colombo

SNL-DSP Workshop on BRM integration into DVM Curriculum

DSP BRM VI - 2017 Konya

**DSP IV integrating Biorisk
Management into conference theme**

DSP BRM VII - 2018

Amman

SNL-DSP Workshop on
BRM techniques in
Research Methodologies



DSP BRM VIII - 2019 Dubai

Top Management trained in on Implementation Strategy

3. Entrepreneurship Development through Academia Industries Linkages

2014

Minister Agric inaugurated Livestock Desk at KPCCI



2014: Univ Feed Mill functionalized



DSP introduced farming innovations

- Stock arranged at Chamkani DSP Center
- Introduced at dairy and meat farms
- Connected with livestock markets
- Displayed at Agric Univ Vet Clinic

Farm Fresh Dairy Products at Your Door Steps..



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Dairy entrepreneurship models

- Dairy/meat Farming Elite animals production
- Feed production Silage making
- Pharmaceuticals prod Training and consultancy
- Diagnostic labs Clinics
- Dairy Processing Products marking



UAP developed
Quails
entrepreneurship
Models

GreenWend Solar
Energy Solutions
developed solar
incubators models





Poultry Entrepreneurship models

Broiler farming Breeding Inputs supplies
Meat processing Biotech Products Diagnostic/QC labs
Packaging/marketing



Jan Meat Shop
Certified in QC for price fixation exercise





Certified Quality



Peshawar Meat introduced



- Hygienic & Halal Meat
- Quality Ensured at Each Stage of Processing

Economy Beef

Dairy Science Park Innovations, 120-Industrial Estate, KPEZDMC Hayatabad,
Peshawar-25000, Pakistan
Phone: +92 91 582 5004, Fax: +92 91 582 4858
Email: dsp@dsp.com, Web: www.dairy-science-park.org.pk/dspi/



Best Teachers Award - Socio Economic Impact

Raised confidence Applied Research Quality Control
Entrepreneurship dev Exportable surpluses



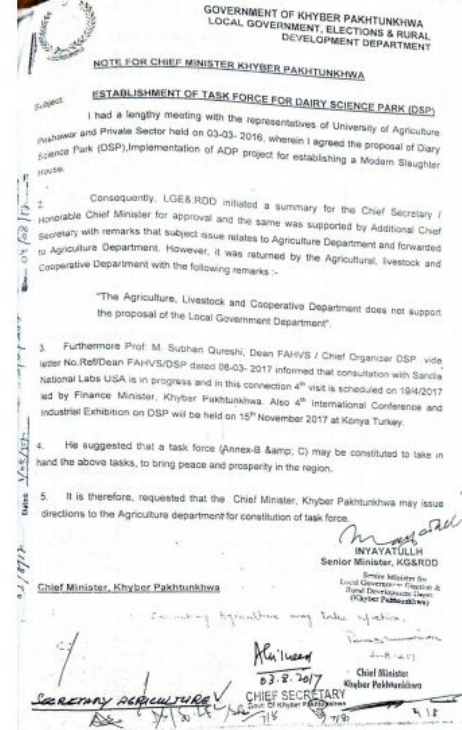
The Beacon of Hope

Kamran Khan



4. Policy Dialogue

Government of KP accepted DSP as a Task Force



- **Minister LGE&RD** chaired a high level meeting and agreed on establishing Task Force on Dairy Science Park; approved Rs.200 m for Slaughter-house
- **Additional Chief Secretary** appreciated DSP as “the innovative idea of the LG regarding establishment of Dairy Science Park at Peshawar to provide hygienic food production to the whole province
- **Chief Minister KP** approved Task Force for DSP on 2-8-2018; notification pending at Agriculture Department



2016

**MoU on Collaborative BRM Initiative
between KMU, UAP, DSP and HEC**

FAO-UN KP Livestock Action Plan 2019 submitted



Establishing Gomal Technopark agreed at DI Khan
Establishing Livestock Business Facilitation Centers agreed at
Divisional Headquarters

Guidelines for procurement and sales rules at FAO KP Livestock Action Plan 2019

1. The Rules must be simple, transparent and must ensure quick delivery of goods.
2. The purchase committee for a functioning Unit of an organization shall comprise 2 senior officers and a person from the industry/civil society, with delegation of powers to purchase the desired items.
3. The purchase committee for an Organization would comprise three senior most officer one member of industry/civil society and one independent auditor.
4. An Endowment Fund would be available in an authorized bank account.
5. Three quotation may be obtained, if required.
6. The Rules must be followed while reviewing, ordering, obtaining, and paying for goods/services.
7. Checkpoints/steps must be minimum to avoid the complexity of the purchase process.
8. The Funds available to the organization shall be non-lapsable.
9. The bill shall be passed by the chairman of the committee within 3 days in case of a Unit and within 10 days in case of an Organization.
10. Transparency of the process shall be monitored by an M&E Committee. Accessibility of records would be ensured to the relevant accountability organization. No member of the purchase committee would be harassed by the audit parties, NAB or senior officials/elected peoples' representatives.



Livestock Farmers
Welfare Association was
the real stakeholder of
Policy Dialogue under
**FAO KP Action Plan
2019**

FAO KP Livestock Action Plan 2019 recommended establishment of Livestock Technopark Peshawar as an autonomous authority with legislative, regulatory, financial and administrative powers to protect interests of all the stakeholders across the Livestock Value Chain in line with UN SDGs 2, 3, 5, 7, 8 and 16.



Livestock Technopark Quetta proposed under ITC-UN Consultancy (Qureshi 2022)

Establishing Livestock Technopark - Functions

- An active and visible interaction among the academia, industries, government and the civil society, to provide feasible solutions to the emerging issues faced by producers, processors, service providers, marketing partners and consumers.
- Introducing farming innovations like introduction of biotechnologies, solar technologies, food technologies and bio-waste management.
- Development and replication of interlinked entrepreneurship models in livestock, poultry and fish production, processing, marketing, quality control, diagnostics, veterinary clinical, processing and biotech products, marketing and legislative services, engaging university student and graduates; as source of decent employment and exportable surpluses; engaging SMEDA in entrepreneurship development
- Improving/establishing, slaughterhouses and meat processing facilities through joint ventures or public/private sector investment.

Establishing Livestock Technopark - Functions (contd)

- Establishing cold chain for transportation of milk, meat and by products across district, provincial and national/international borders for meeting local and international marketing requirements and standards.
- Development of environment-friendly and ethically sound, transportation system for animals through public private partnership or other models.
- Development and notifying standard operating procedures for quality control, food inspection and traceability of livestock based food products, foods, feeds, medicines, vaccines, other biologics testing for local and international market; through registered laboratories in the public and private sector; the farm inputs available would be analyzed for quality and price comparison and notified for reducing production cost and enhancing quality of farm products.
- Protecting financial, marketing, legal and public health interests of the stakeholders, especially the price regulation, across the livestock food value chain and exemption of the registered entrepreneurs and institutional units from all type of taxations.

Establishing Livestock Technopark - Functions (contd)

- Establishing common facilities centers for entrepreneurship inputs supplies, advocacy, training and marketing
- Improving the livestock markets and introducing innovative technologies in marketing and communication among stakeholders to maintain quality standards, traceability, linkages with the local and international market and for harvesting new talent
- Holding international conferences and industrial exhibitions on Livestock Transformation; workshops on bio risk management; collaboration with international organizations.
- Establishing disease free zones for various disease through surveillance and quarantine across the district, provincial and national borders, qualifying products for exports.
- Removing bottlenecks impeding development of entrepreneurship models, across LBVC, to achieve and maintain self-sufficiency and efficiency in meat/milk/wool production, processing and marketing and providing feedback to administrative and legislative bodies for taking corrective measures.
-



Signed MoU with Chinese Academy of Agric Science and visited great Masjid of Xian



Dairy Science Park - China Collaboration



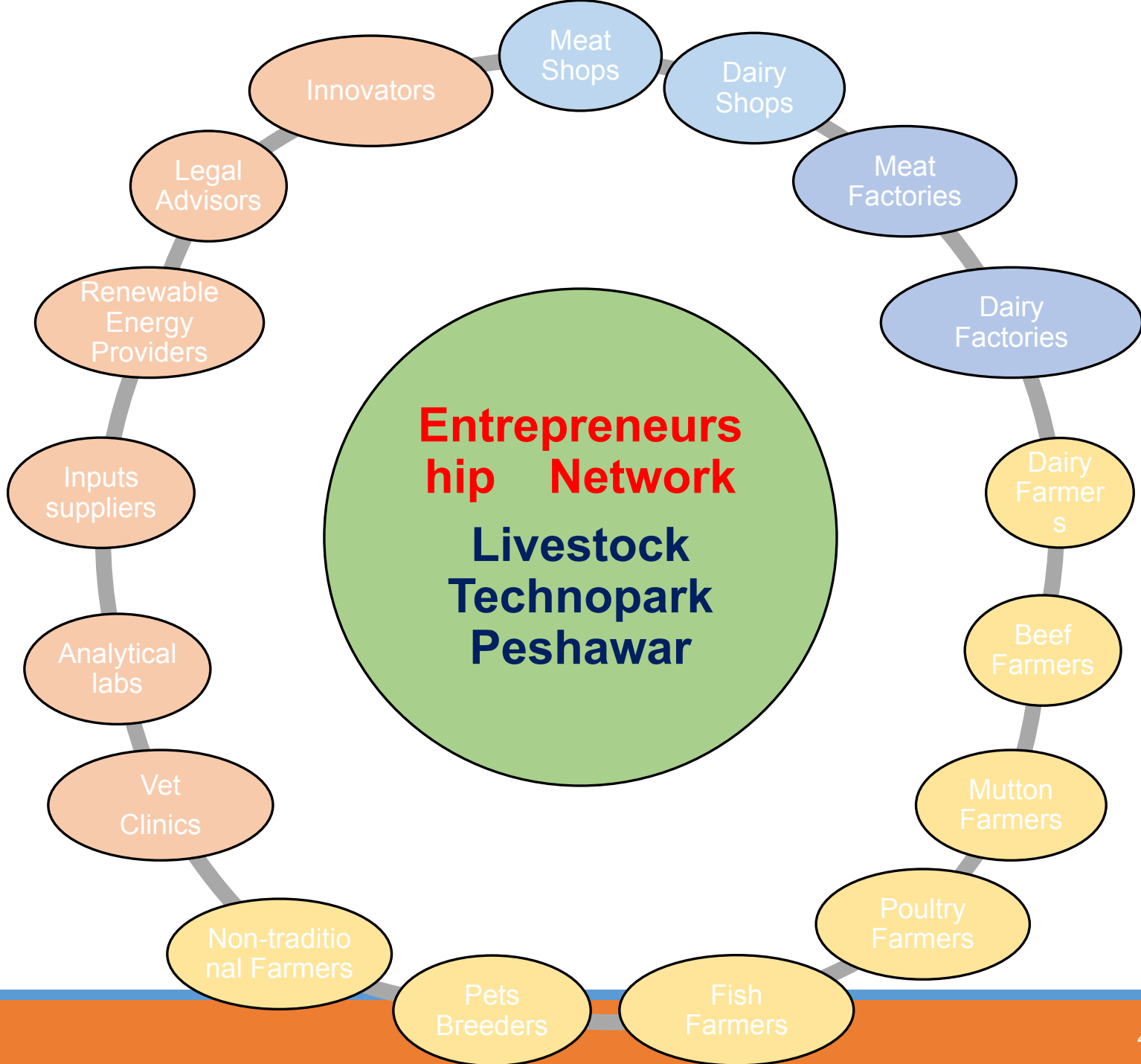
Zafar Parach DSP delegate visited Tashkurgan, China for exploring self-employment and hygienic food production in the CPEC Region.

DSP Delegates discussed scientific and business collaboration with St Fulin Group Co Ltd, China during the CPEC Summit 2016 held at Pak-China Friendship Center, Islamabad.

Irfan Qureshi DSP delegate attended Seminar on agricultural industrialization for Asian Countries Agric Mangt Instt Oct 2016

Dairy Science Park - China Collaboration

5. Investment Proposal



Livestock Entrepreneurship Development Centers (LEDC)

- LEDCs would be established at PSOs or private firms and run as joint ventures through management committees under an LTQ Endowment Fund.
- LEDCs would support farmers to access farm inputs, products sale, training and regulatory support. LEDC would be run as PPP-based joint ventures.
- The Centres would be providing facilities of establishing model farming, milk/meat shops, products processing factories, diagnostic labs and marketing and allied facilities.
- Outgoing graduates at the universities would be facilitated for internship and enthusiastic faculty members would be facilitated in demonstrating feasible entrepreneurship models across livestock value chains.
- Specialized facilities would be provided like mini feed mills, mini slaughterhouses, mini dairy factories, hatchery services to the farmers for producing fancy birds.
- Facilities for cold chain and value addition of livestock products would be provided to the farmers for enhanced profitability and prevention of post-harvest losses.

DSP – Southern Punjab Chapter established at DSP2023



6. Eco-Security Initiative

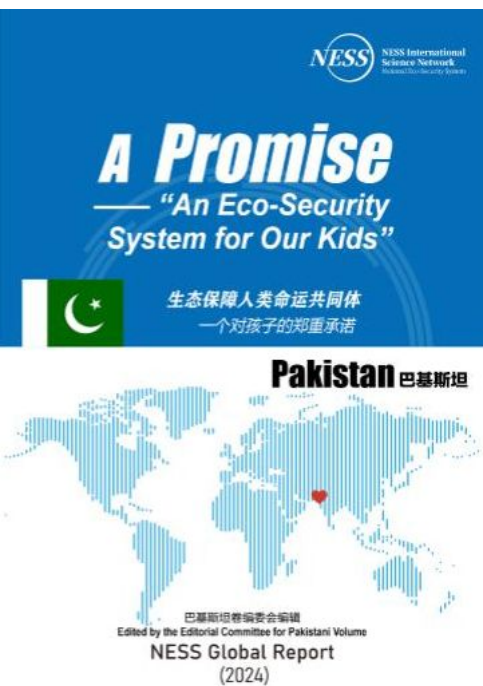
National Eco-Security System Pakistan (NESS-Pak) established

<https://dairysciencepark.org/ness/>



NESS Global Development Report 2024 - Pakistan Volume published.

- Out of **341** higher education, research and other institutes in Pakistan and abroad, 21.7%, 18.7% and 59.5% have made institutional, individual and no promises yet.
- The number of members of the Editorial Committee has been: **97** for Pakistan Volume, as well as **47** Youth Editorial Committee members and **3** executive members.
- A total of **515** persons have got registered as NESS Supporters through NESS-Pak.
- More institutions and individuals are welcome to join.



Halal Food & Biotech Exports

Entrepreneurship Network

Government Bodies



Industry, Civil Society

Livestock Technopark, an autonomous regulatory, legislative and financing authority

Academia – Business Incubation

2
CLEAN WATER AND
SANITATION



3
GOOD HEALTH
AND WELL-BEING



5
GENDER
EQUALITY



7
RENEWABLE
ENERGY



8
GOOD JOBS AND
ECONOMIC GROWTH



16
PEACE AND
JUSTICE

