



Agricultural Innovation in Asia Pacific:

Responding to the Future of Agricultural Innovation Systems in Asia-Pacific

Dr. Murat Sartas, Chief Scaling & Impact Officer from APAARI

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Outlook of Agricultural Innovations in Asia-Pacific

Key Facts

- 2.8 Billion People live in South, South-east Asia and Pacific in 31 Countries
- South Asia has a risk of 50% reduction in staple crop yields by 2050 due to climate change and have the highest number of undernourished people globally
- Southeast Asia has top exporters of rice and aquaculture, rapid urbanization is leading to increasing demand for animal-sourced foods
- Pacific has indigenous agroecological practices that can integrate with modern techniques, vulnerable to raising sea levels and soil erosion, and emphasizes community-based approaches

Emerging Trends

- Digital agriculture is transforming the sector with the increasing use of technologies like drones, AI, and IoT for precision farming, data-driven decision-making, and improved resource management.
- Climate-smart technologies are crucial for building resilience to climate change impacts, with a focus on sustainable practices and resource-efficient solutions
- Traceability and transparency in agricultural supply chains are becoming increasingly important
- Homegrown agritech startups are emerging, offering innovative solutions tailored to local needs, such as automated weather stations, fish-feeding technology,



Demand from Asia-Pacific Regional and National Innovation Actors:

Strengthening Innovation Systems

Investing in research and development organizational capabilities (funding, frameworks, mechanisms), promoting collaboration between public and private sectors

Scaling Up Successful Innovations

Bridging the gap between research and impact by scaling and impact management infrastructure and supporting the use of proven technologies and practices among farmers.

Promoting Sustainable Agriculture

Addressing environmental challenges like soil degradation and resource inefficiency and food safety through sustainable practices and technologies.





Underinvested Niches

Internationalization of Capabilities

Asian countries have significant capabilities in skills, expertise, and workflows that can support intra-regional and inter-regional agricultural efforts.

Deployment of European Experts

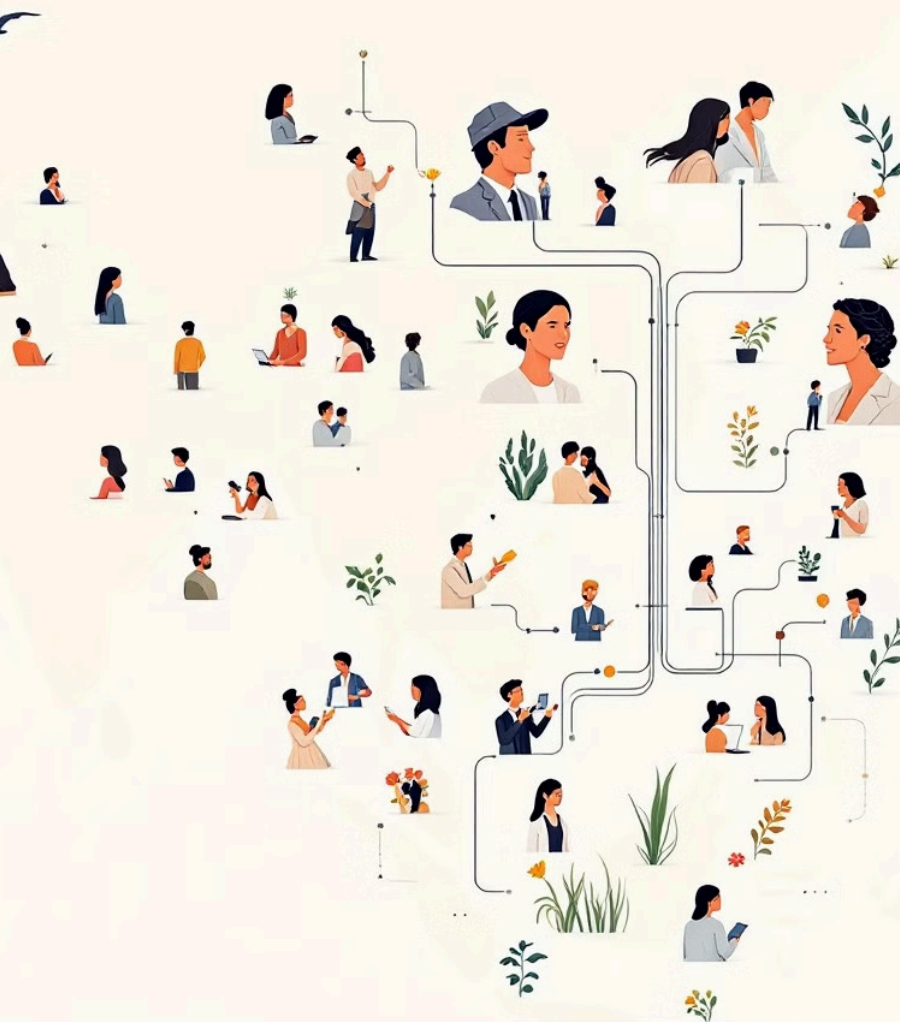
Europe has a large pool of highly educated senior and junior experts who can make significant contributions to Asia-Pacific agricultural innovation systems.

Use of Human-Elevating AI

AI is transforming agricultural innovation globally. Asia and the Pacific need to develop plans for leveraging human-elevating AI strategically.

Building Network Intelligence

Measuring the (individual, organization, system) capabilities of innovation networks and learning on what works and what does not



Thank You

We appreciate your time. We look forward to working together to advance agricultural innovation in the Asia Pacific region.

