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Saudi efforts to foster sustainable and resilient agri-food systems

By

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The views expressed are those of the author and do not necessarily reflect the views of UNCTAD.







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Ministry of Environment Water & Agriculture





Saudi Efforts to Foster Sustainable and Resilient Agri-Food Systems

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Saudi Arabia's Food Systems



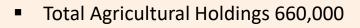
Saudi Arabia is well known as a net food importing country; however, the country sustain selfsufficiency in some food products, and even produce surplus in some food products.

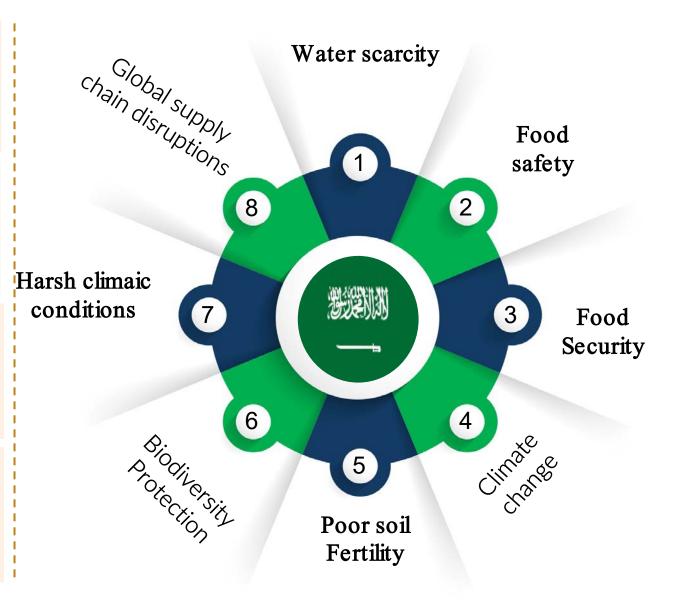


Agriculture sector provide approximately 30% of the total food available for consumption, and contribute 72.25 billion SR to the GDP in 2021, which is 3.6 % of non-Oil GDP.



Total workers involved in Agriculture sector are ~900,000





Different Pillars for Resilience



Agriculture sub-sectors: Kingdom of Saudi Arabia

Staple Crops	Wheat and rice, source of carbohydrate	Key takeaways
Fruits & Vegetables	High portion of needs especially vegetables are grown locally	 GFSI: Saudi Arabia ranked 41st as per latest Global Food Security Index Affordability: Ranked 40th
Poultry	Chicken, eggs	 Anordability: Ranked 40th Availability: Ranked 23rd Quality and safety: Ranked 49th
Meat	Local breeds for genetic improvement	Needs improvement in safety standard implementation and food waste; current food waste 33.1%
Seatood	KSA consumes 300K tons of seafood annually	 Sustainability and Adaptation: Low ranking (567th) due to arid and water stressed environment
Dairy	Advanced production systems	stressed environment

1. Increasing domestic production: Agriculture sector Measures



Agricultural Development Fund





- Kingdom of Saudi Arabia has aligned the Agricultural Development Fund's strategy with investment in the agricultural sector
- Increased lending by 400% over the past four years and we will continue to support the agricultural sector to contribute to the sustainability of our food systems.

- Promoting efficient irrigation systems for fruits production (>70% drip irrigation)
- Vegetables production by drip irrigation ~ 49 %, and sprinkler ~ 36%.
- Cereals production by sprinkler ~ 47%, drip irrigation by ~ 10%.
- Increasing existing crop yield for key crops by ~ 30 40% (on average) through increased adoption of modern practices and usage of new seed varieties / cultivars.
- Developing stress tolerant improved crop varieties
- Extension / training services to develop farmer know-how and enable uptake of modern tech
- Efficient border control and quarantine biosecurity
- Veterinary diagnostic and health services
- Integrated animal resources data management and monitoring tools
- Enhancing R&D and innovation capabilities
- Institutional setup enhancement and public sector coordination
- Active partnerships with regional and global entities





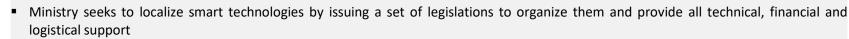




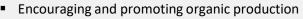
1. Increasing domestic production: Agriculture sector Measures







- Promoting Climate Smart Agriculture
- Monitoring and Forecasting by Remote sensing
- Smart Irrigation to enhance water use efficiency
- Vertical farming



- 130% increase in organic production since 2018 to last year.
- 46 % increase in organic production area since 2018 to last year
- Saudi G.A.P was launched on 1st of January 2020 for Food safety, Animal safety, Environment protection, Workers health & safety





Sustainable Agricultural Rural Development

- launched a unified electronic services portal NAAMA in Saudi Arabia for individual and business sector dealing with food and agriculture
- It provides beneficiaries with all electronic services in the various sectors of the ministry including environment, water, agriculture, livestock, land, and fisheries
- The NAAMA platform is providing altogether more than 260 electronic services covering different aspects
- Electronic Extension Platform for Supporting the small farmers by advising and providing free of cost pest control services
- Small producers represent 80 % of the total number of agricultural holdings, & they occupied only 6% of the total area of holdings in KSA
- Strengthening the capacities of small-hold family farmers to enable them to access productive resources, services and markets in collaboration with FAO
- Diversifying the productive base, food security
- Providing jobs, Social stability and settlement
- Preserving environment and natural resources









2. Circular Agriculture for Sustainability



Circular agriculture focuses on

- Using minimal amounts of external inputs,
- Closing nutrients loops,
- Regenerating soils,
- Minimizing the impact on the environment



Circular agricultural practices

- Mixed farming
- Organic agriculture

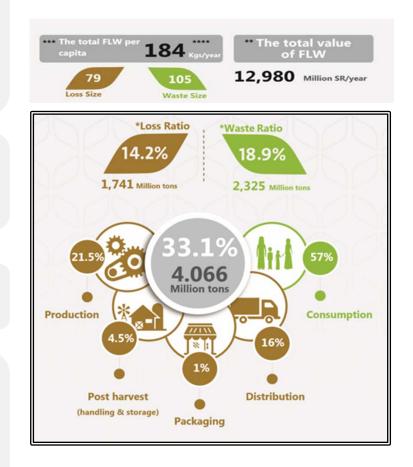


Water recycling and wastewater use



Policies

- Invest in technologies and research for circular agriculture
- Strengthen institutions and incentives to foster circular agriculture
- Enhance international cooperation to accelerate efforts to reduce food loss and waste



3. Diversifying food import







Food

- Diversify the import products by type to increase the number of trading partners, and reduce import price variability
- Food safety governance for ensuring safety, quality, and authenticity of imported food and their compliance to local standards (HALAL)

Intermediate goods/Inputs

- Diversifying import sources of agricultural inputs such as Seeds, and Plant protection products to ensure quality products, availability & stabilize prices
- Fertilizers

Partnerships

- Developing strategic partnerships for better food diversification with countries to address local food deficiencies
- Closely working with International institutions (FAO, WB, IFAD, IsDB etc.,)



Trade and industrial policies

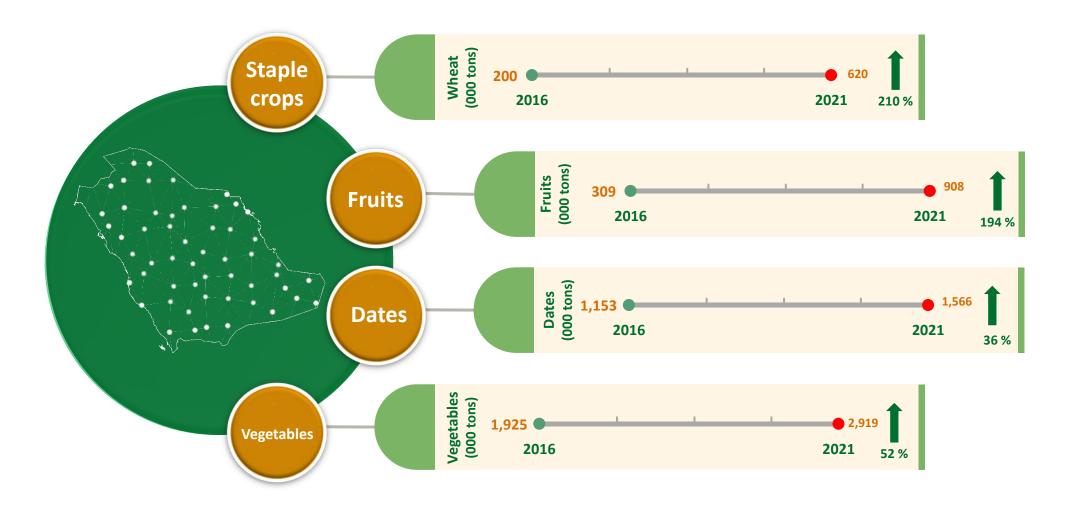
- Policy reforms for joint actions for Regional integration
- Reshaping supply chain by focusing on long supply chains to regional chains

Responsible Investment in Agriculture and Food Systems

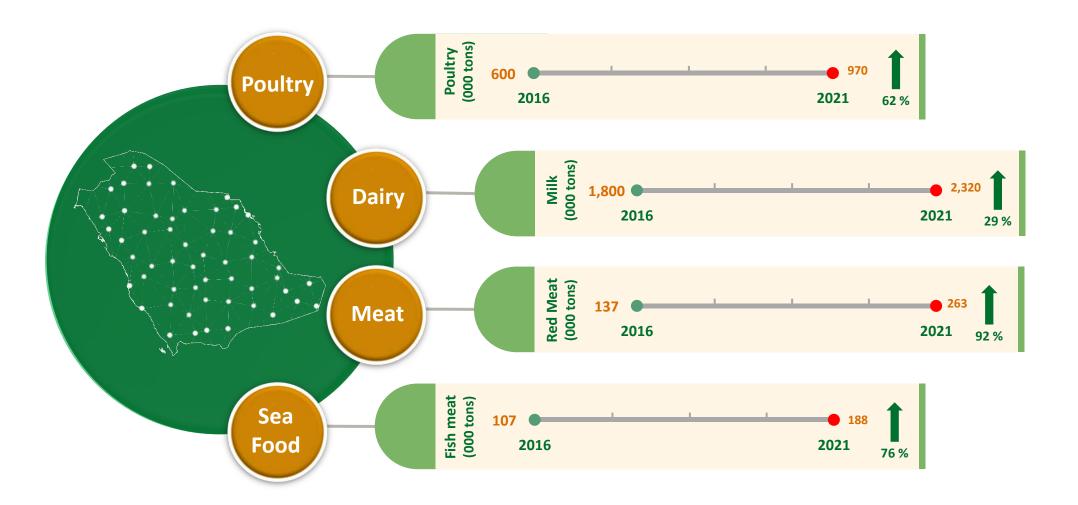


- Fill the investment gap in agriculture for inclusive economic development
- Creating decent job for all agricultural and food workers in the host country
- Eradicating poverty
- Achieving sustainable development, protecting food security and nutrition of both countries, and contribution to SDGs
- Advancement in the host agriculture system by investment on innovative technologies to increase the efficiency and production

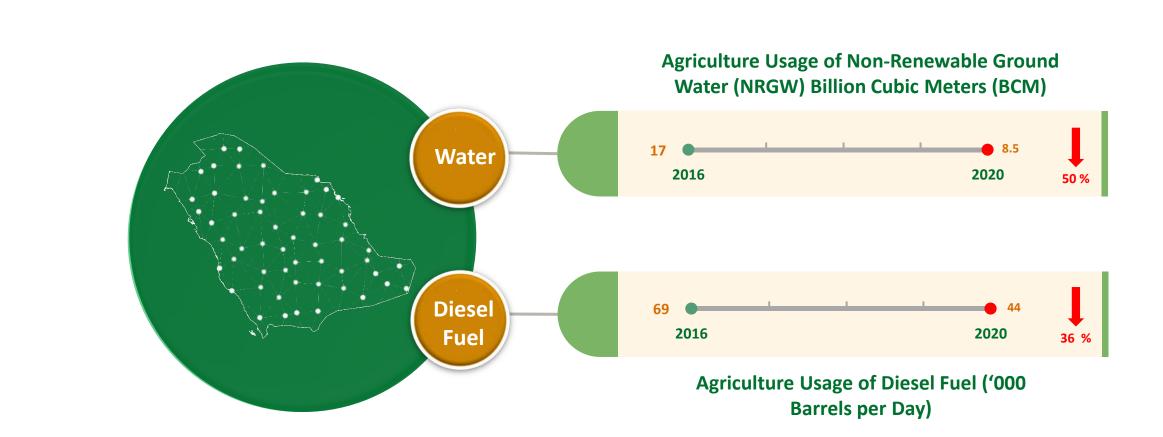
Local Status & Production targets

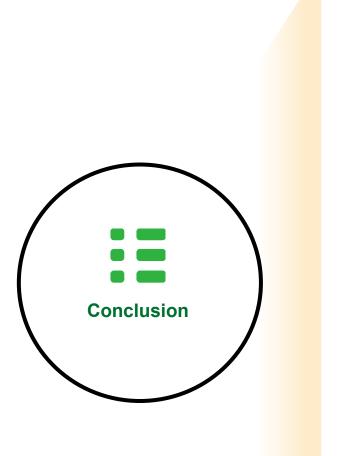


Local Status & Production targets



Local Status & Production targets









Boosting local productivity, through innovative technologies such as vertical farming and precision agriculture, etc.



Building a circular food economy that targets efforts on reducing, reusing and recycling across the entire value chain including Production, postharvest handling, packaging, distribution, & consumption.



Develop the Foods of the Future sector (cultured meat, insect proteins, algae, alternative proteins.



Building strategies for sustainable food systems through early warning systems to address Crises at local and regional level



Enhancing investment opportunities and build Environmental Partnerships at local, regional and global level

THANK YOU