

Status of the seafood industry and investment opportunities

in the Kingdom of Saudi Arabia

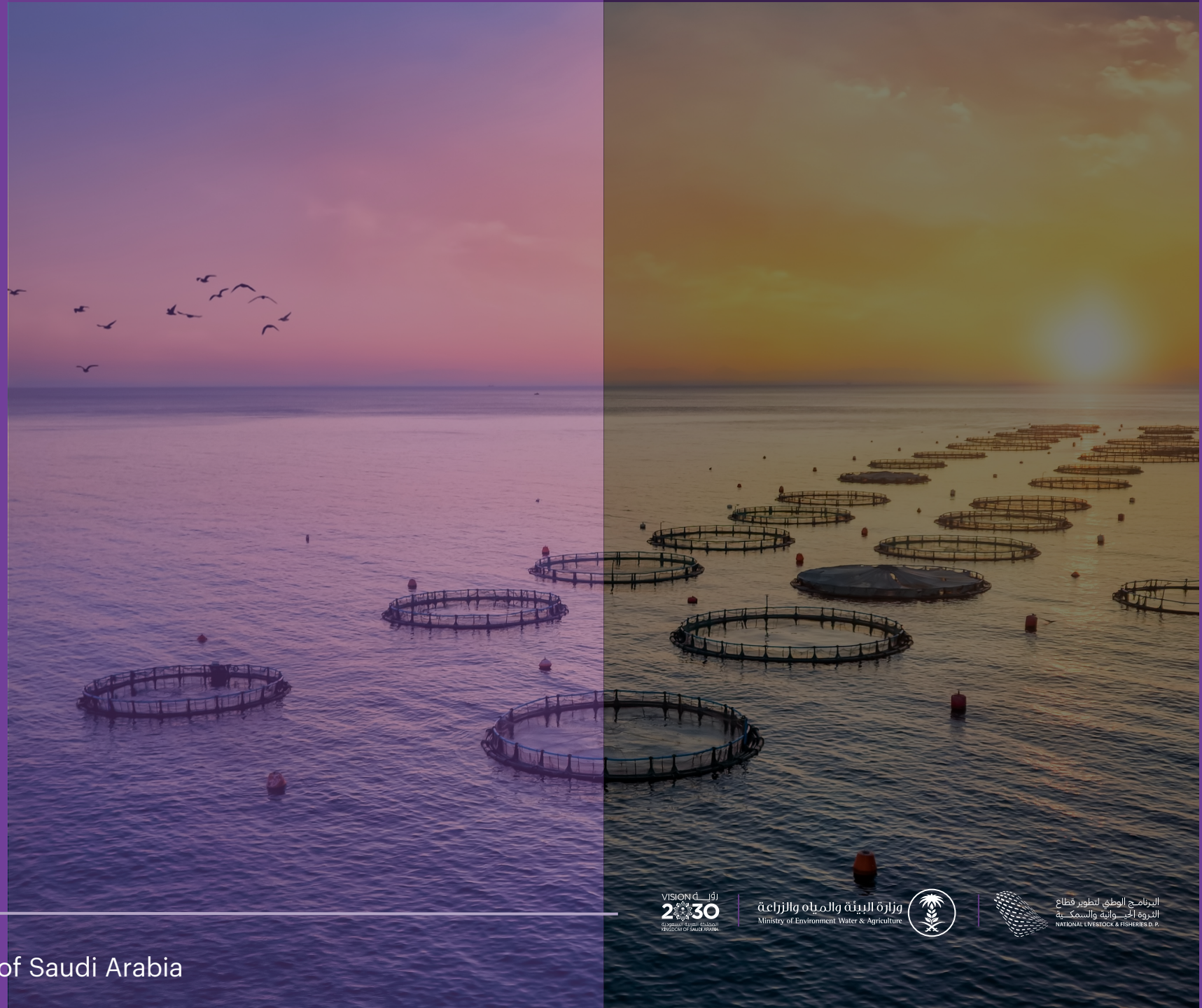
NLFDP



01

NLFDP Strategy

Status of the seafood industry and
investment opportunities in the Kingdom of Saudi Arabia



رؤية
2030
الجمهورية العربية السعودية
SAUDI ARABIA

وزارة البيئة والمياه والزراعة
Ministry of Environment, Water & Agriculture



البرنامج الوطني لتطوير قطاع
الثروة الحيوانية والسمكية
NATIONAL LIVESTOCK & FISHERIES D.P.

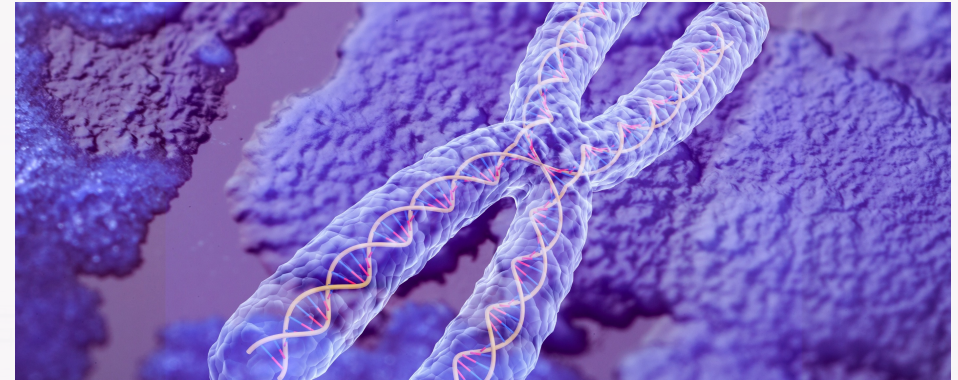
NLFDP contributes directly to achieving:

Agriculture Strategy



- Promoting effective plant and animal protection according to One Health approach
- Improving and enhancing agricultural productivity

Biotechnology Strategy



- Enhancing integrated manufacturing capabilities and supporting vaccine R&D.
- Empowering vital industries locally to achieve self-sufficiency and increase quality exports.
- Enhancing health prevention and innovation to improve life quality of citizens.

NLFDP's strategy has been developed to leverage biotechnology to develop the sector

Biotechnology

Developing genomic technologies to
improve breeds and prevent disease

Development of vaccines and laboratory
technologies

Business Development & Investments

Capacity Building and Business
Empowerment in Biotechnology

Enhancing biomanufacturing and
localization of vaccines and laboratory
technologies

Enhancing production efficiency in the
sector

AQUACULTURE SECTOR TARGETS FOR 2030

Global competitiveness



Vision

As part of a larger drive to further develop the Saudi non-oil economic growth under Vision 2030, MEWA has set a strategic goal to develop a globally competitive aquaculture sector



Increase local seafood consumption

100 %

Increase in seafood consumption per capita



Enhance food security

600K tons

Total seafood production



Reduce local production costs

-30%

Production costs reduction (economies of scale and improved efficiency)

1.Targets set by NIDLP investor attraction - source : MEWA, Vision 2030, NIDLP



National Industrial Development & Logistics Program



National Transformation Program

National Aquaculture Development Strategic Plan

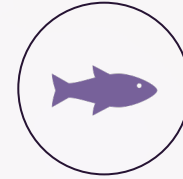
6 Strategic Objectives



Increase total production
output to achieve self
sufficiency target



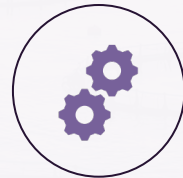
Support industry &
enhance domestic
competitiveness



Develop a thriving
domestic seafood
market



Invest in training
to build capacity



Drive government
led interventions

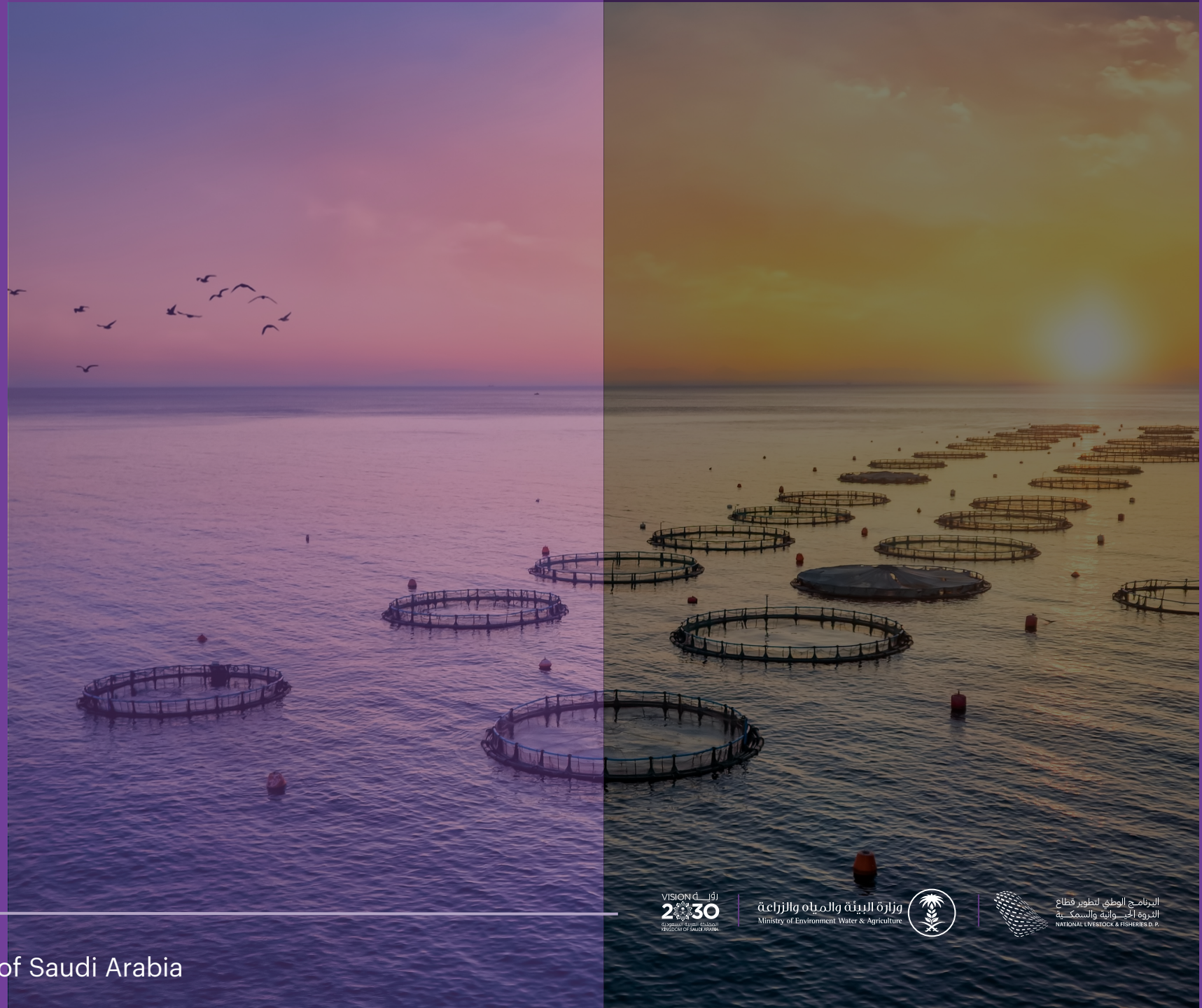


Attract investors
& foreign players

02

Current Industry Status

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Significant Investment in Infrastructure & Know-how

Shrimp farming

White Shrimp (*Litopenaeus vannamei*)



Marine fish farming

Asian Seabass

Lates calcarifer

Sobaity

Sparidentex hasta

Mediterranean Seabream

Sparus aurata

Marine Tilapia

Oreochromis spilurus



Fresh water fish farming

Tilapia

Oreochromis niloticus

Salmon trout

Oncorhynchus mykiss



Significant Investment in Infrastructure & Know-how

RAS or Aquaponics



RA High food-hygiene standards

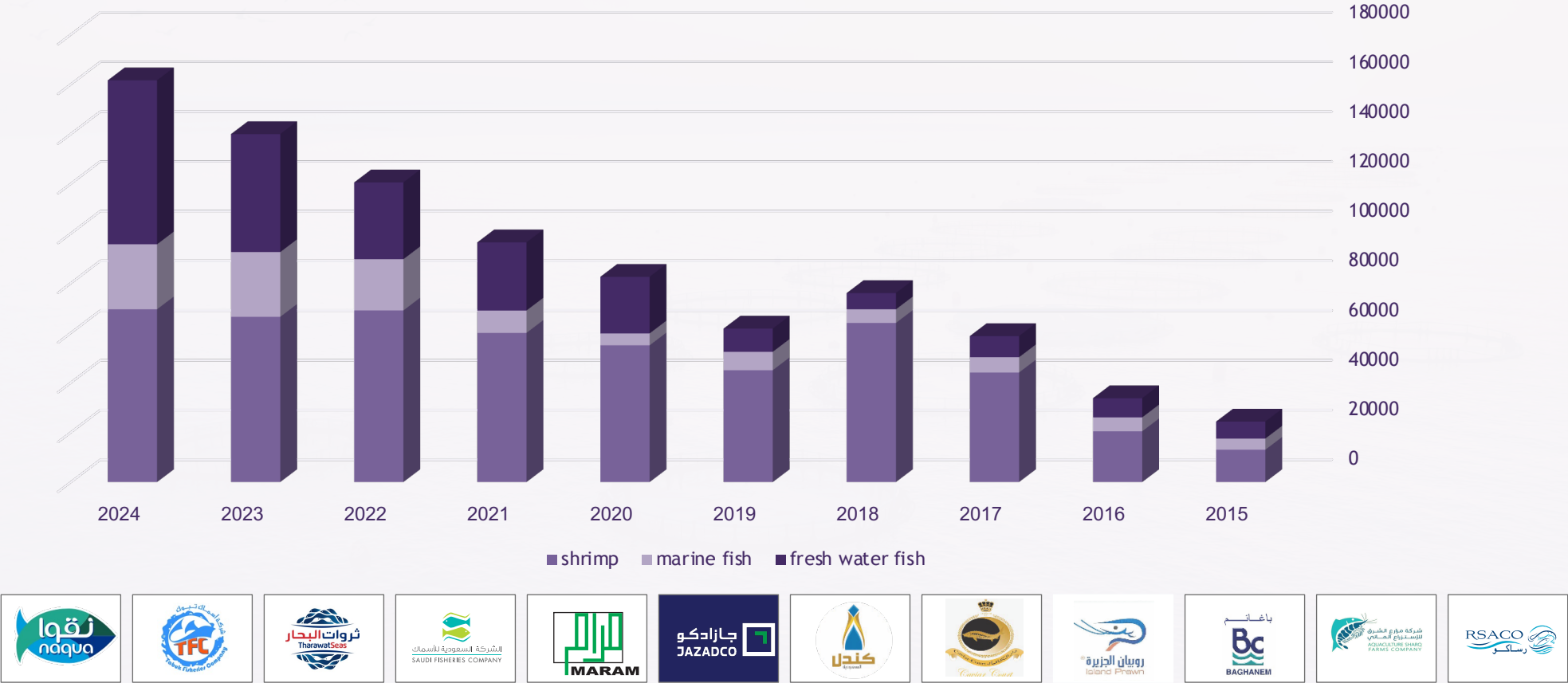


Aqua feed mills-Supporting industries



Current Production

From 2015 to 2018, total aquaculture production increased by 200%, from around 25 thousand tons to almost 75 thousand tons, and in 2024 surpassed 161 thousand tons



Strong Exports- Over 35 countries



3 Process and product quality drivers

NATIONAL BIOSECURITY PROGRAM



INTERNATIONAL CERTIFICATION GSA/BAP

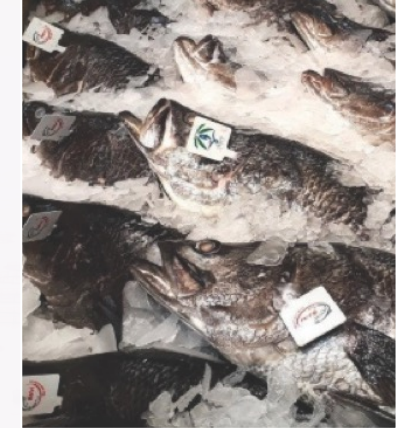


NATIONAL CERTIFICATION SAMAQ



Local product awareness increase and market development

SAMAQ B2C Labelling



Regional Aquaculture Center of Excellence

Key Differentiators



Largest Center with the most comprehensive aquaculture R&D and aquatic animal health offering in the Red Sea and in the region



Extensive focus on developing and promoting local and regional species



Dedicated programs to develop local and regional capabilities across all aquaculture activities

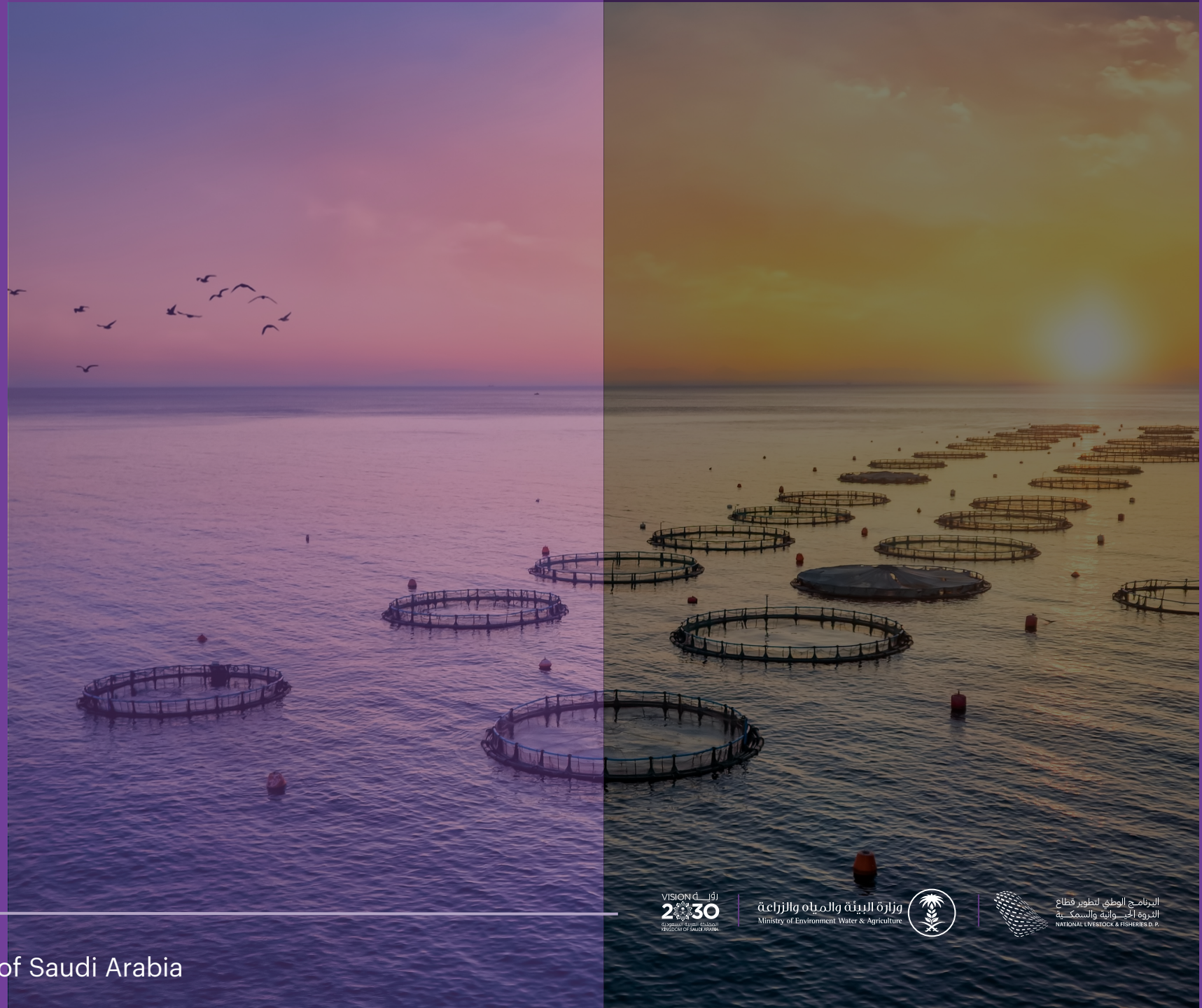


Environmentally sustainable through renewable energy usage, extensive water treatment, and mangrove plantation

03

Aquaculture Investment Opportunities

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Investment Opportunities

Attract investors & foreign players



Investment opportunities in lined ponds

	Opportunity (1) Shrimp
	Opportunity (2) Shrimp
	Opportunity (3) Fish



Investment opportunities in sea cages

	Opportunity I (4) Fish	Opportunity (8) Fish	
	Opportunity (5) Fish	Opportunity (9) Fish	
	Opportunity (6) Fish	Opportunity (10) Fish	
	Opportunity (7) Fish	Opportunity (11) Fish	



Investment opportunities in RAS

(Recirculating Aquaculture System)

Opportunity (12) Fish	
Opportunity (13) Fish	
Opportunity (14) Fish	
Opportunity (15) Fish	

Investment Opportunities # 3,4,5



Specie	Sobaity (Sparidentex hasta)	Production Method	Floating Sea Cages		
Location	Licensed Areas	Licensed Capacity			
Red Sea Coast	100 Ha Offshore 10 Ha Coastal land	2500 tons/year			
Production period	Avg harvest size	Avg FCR(e)			
13 months	800 grams	2.0			
AVG production cost /kg*	Cost breakdown /kg				
4.82 USD	Juveniles	0.16 USD	Feed	2.67 USD	
*Ex-farm cost	Labour	0.42 USD	Other	0.58 USD	
Total Investment	CAPEX	OPEX	TOTAL		
19.964.601 USD	4.521.272 USD	5.461.028 USD	9.982.300 USD		
Equity	4.521.272 USD	5.461.028 USD	9.982.300 USD		
Loan	4.521.272 USD	5.461.028 USD	9.982.300 USD		
TOTAL	9.042.544 USD	10.922.057 USD	19.964.601 USD		
NPV	9.962.370 USD <th>IRR</th> <td>7.81 %</td> <th>Pay back</th> <td>6 years 2 months</td>	IRR	7.81 %	Pay back	6 years 2 months

Other Investment Opportunities (Upstream)



Hatcheries

For the national production of around 260,000 tons of marine fish, the aquaculture farms will require 840 million fish juveniles

AquaFeed mills

For the national production of around 530,000 tons of aquaculture products, the aquaculture farms will require 926,000 tons of aquafeed.



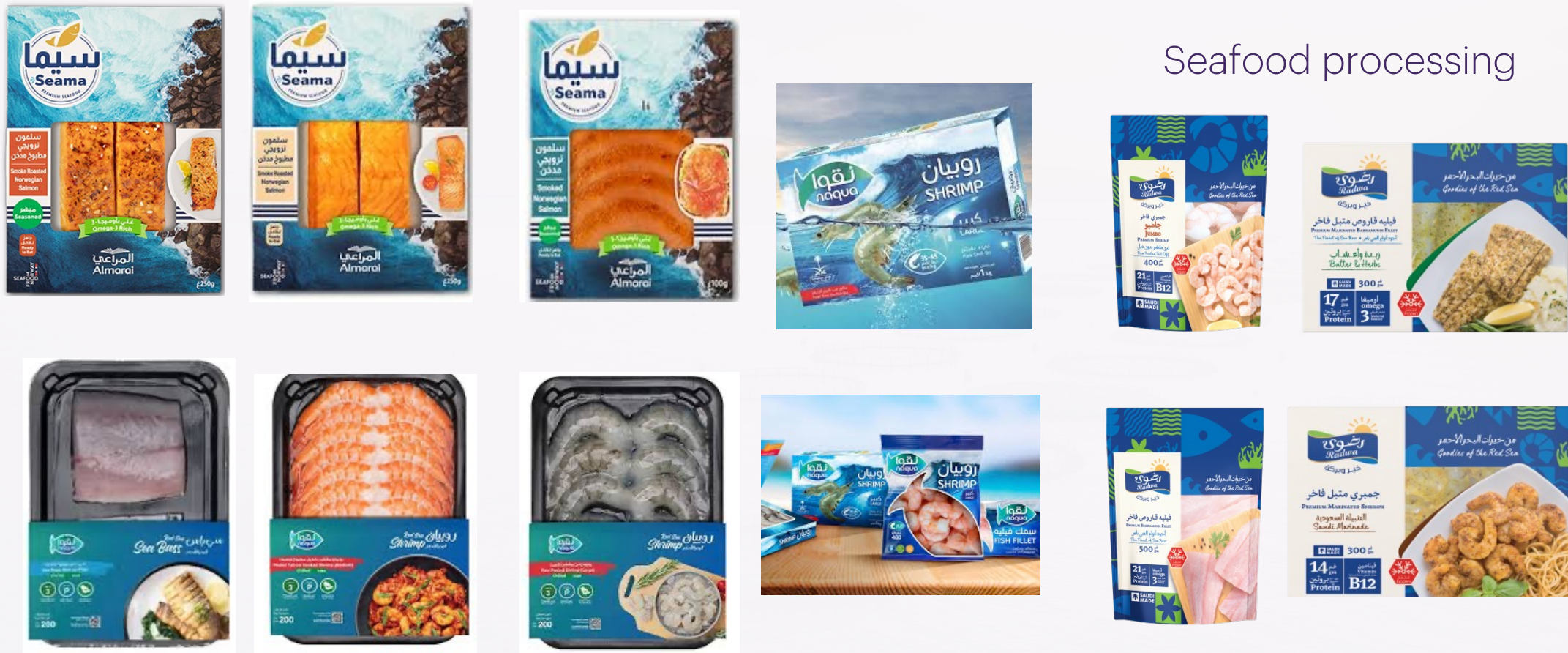
Seafood processing

Seafood processing and product value adding, based on the constant supply of high quality raw material (fish and shrimp) from the local farms, in order to satisfy the ever growing market demand for more convenient seafood products by the modern generation of consumers.



Other Investment Opportunities (Downstream)

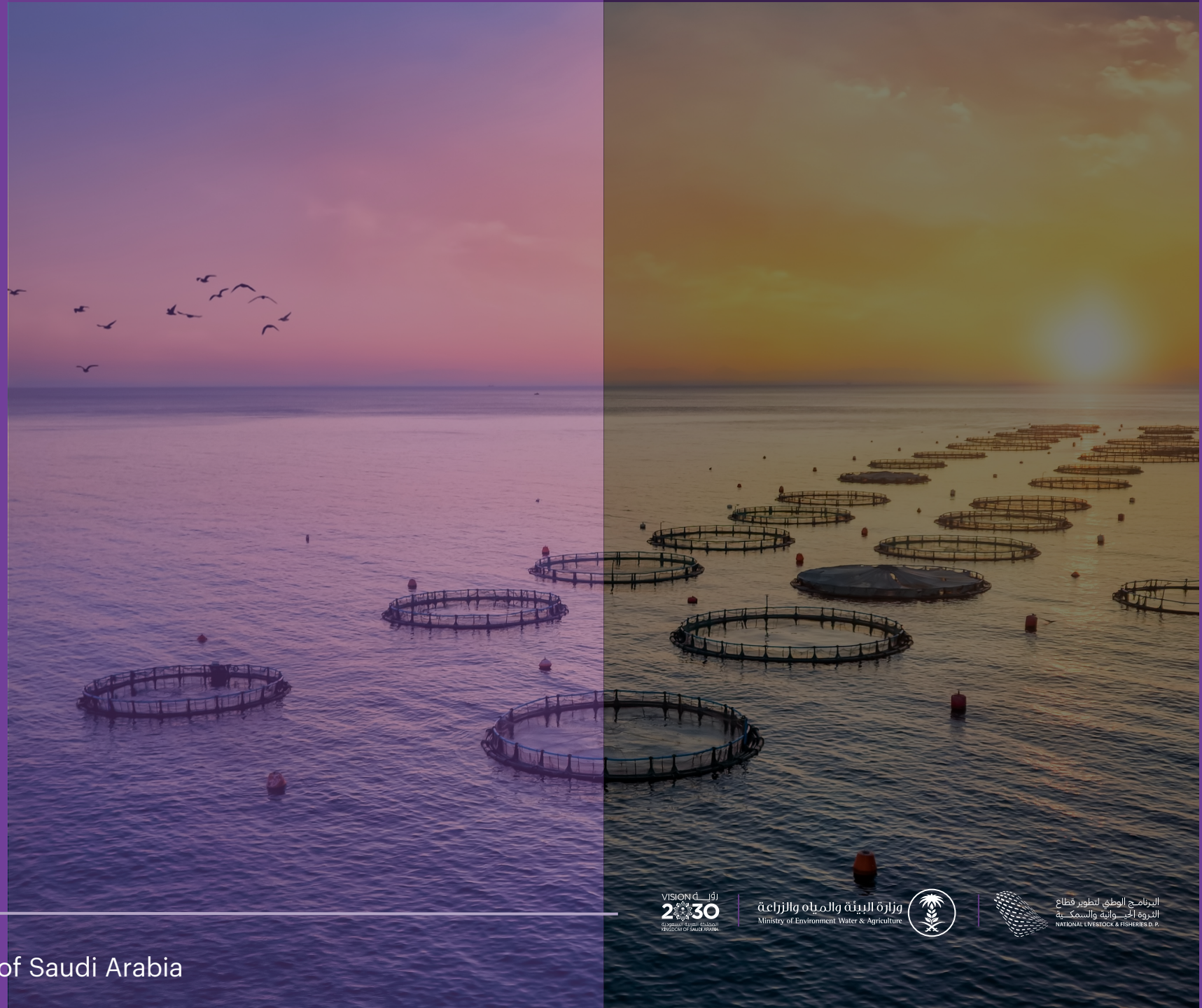
Seafood processing



04

Seafood Processing Investment Opportunities

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All regions of KSA contribute to Vision 2030, with one of the mega projects located in the Jazan Region

Key Regions, Projects and Special Economic Zones (SEZ)



1	JCPDI / Jazan SEZ Jazan Region, KSA
2	NEOM Tabuk, KSA
3	AL ULA Madinah, KSA
4	Red Sea Project Western Coast, KSA
5	Ras Al-Khair SEZ Ras Al-Khair, KSA
6	King Abdullah Economic City SEZ KSA
7	Riyadh Integrated Special Logistics Zone Riyadh, KSA
8	Cloud Computing SEZ Riyadh, KSA

Note: Jazan SEZ focus sectors: food processing, metal conversion, logistics, KAEC SEZ focus: automotive, consumer goods, ICT, pharmaceuticals, medtech, logistics; Ras Al-Khair SEZ focus: shipbuilding, rig platforms, MRO; Cloud computing SEZ focus: cloud computing services; RIZLS focus: consumer products, computer parts, pharmaceuticals, medical supplies, luxury goods.

Source: Team analysis.

JCPDI Key insights

- Jazan City for Primary and Downstream Industries (JCPDI) is one of the megaprojects with Special Economic Zone status.
- JCPDI is the only SEZ in the Kingdom dedicated to food processing.



JCPDI is an industrial city hosting a SEZ and developing the Food Park

~110Km2	Total JCPDI land area
~30Km2	Community Zone and Downtown City Precinct
~80Km2	Total Industrial Area (e.g., food processing, metals, petrochemicals)
~21Km2	Special Economic Zone area
-3Km2	Jazan Food Park Area



Six Reasons to Invest in Jazan Food Park

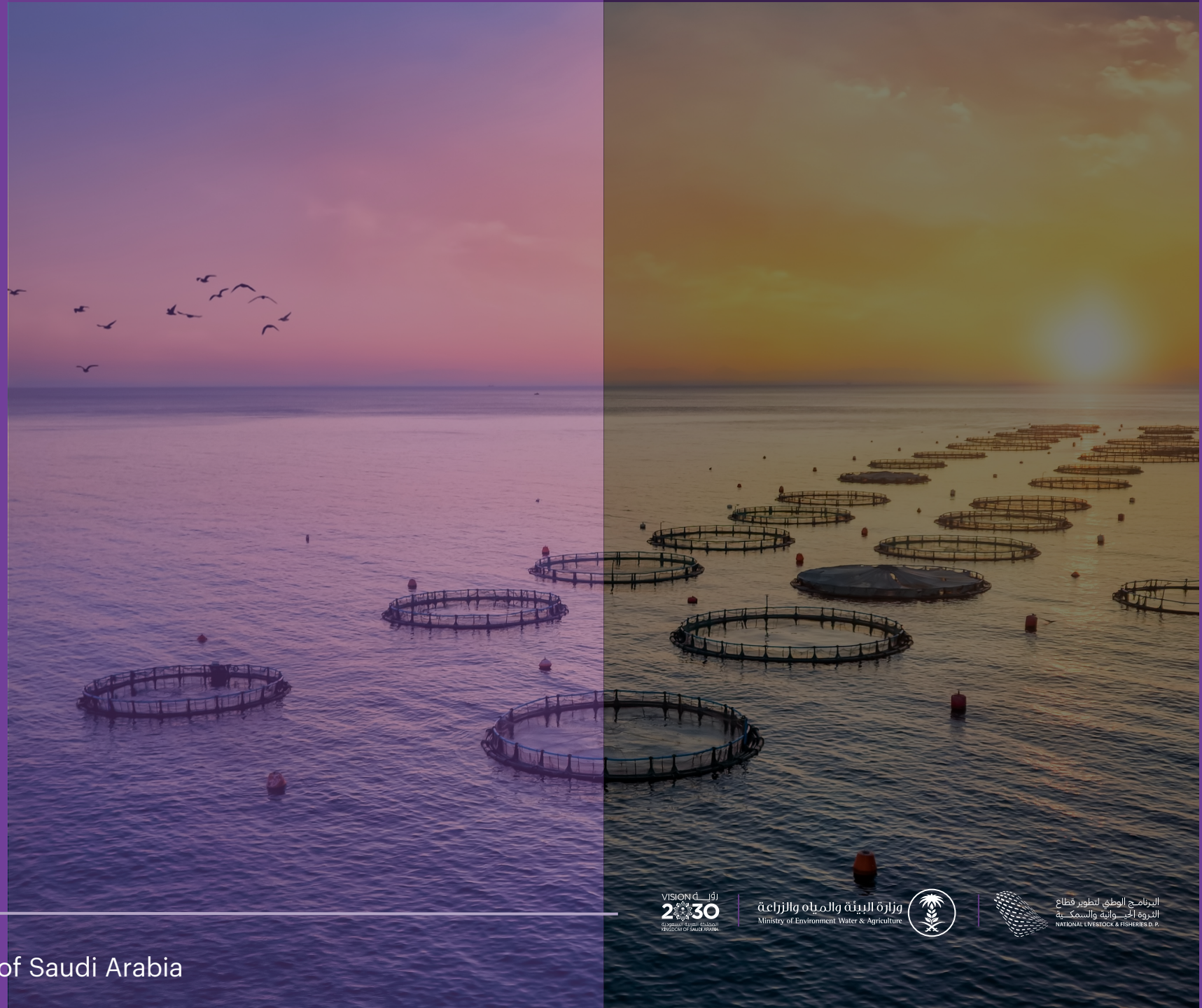
01	High market prospects in Seafood	High market demand and production opportunities in Jazan for animal proteins and access to raw materials in Jazan.
02	Tailored solutions to jumpstart operations	Pre-built factories ranging from 500 to 1500 m2, tailored built-to-suit facilities, and available land plots available for tenants.
03	Food processing shared and support facilities	A variety of food-related shared and support facilities to streamline processes across the value chain, including advanced gutting, scaling, and filleting facilities, packaging facilities, cold storage, warehouses, and waste management.
04	Compelling pack of special economic zone incentiv	A variety of food-related shared and support facilities to streamline processes across the value chain, including advanced gutting, scaling, and filleting facilities, packaging facilities, cold storage, warehouses, and waste management.
05	Ease of doing business	One-stop shop with access to business and professional services including training.
06	Advantageous geography and strong connectivity	Highly strategic location along key sea trade routes, with proximity to the port unlocking export opportunities.



05

Research and Development

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Extensive R&D in cooperation with universities and research centers



Algae technology Development

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للعلوم والتقنية
King Abdullah University of
Science and Technology



Applied Research for Inland Aquaculture Development



Applied Research for Marine Aquaculture Development

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Evaluation of major fish stocks and essential fisheries habitats

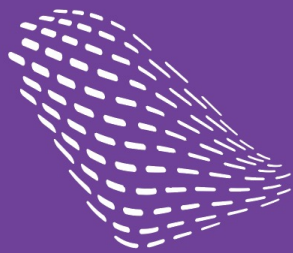
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New Feed Formulations

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Thank you

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نتطور...بشكل متسارع

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