



# **Sustainable Development of China's Aquaculture Industry**

**G20 CHINA TEAM**

**20240611**



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**Part.01**

# **Overview of China's Aquaculture Industry**

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Production, Consumption and Trade

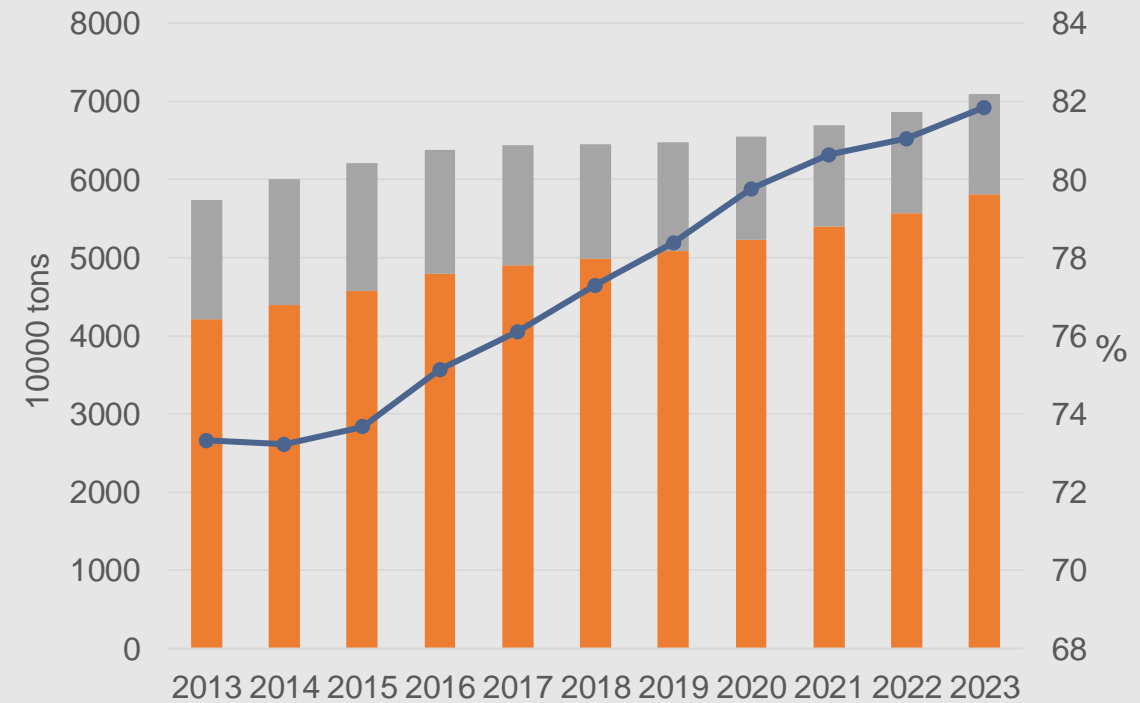


China is one of the major aquaculture producers in the world, taking up nearly **60%** of global farmed aquatic products and ranking first in the world for many years.

## Production

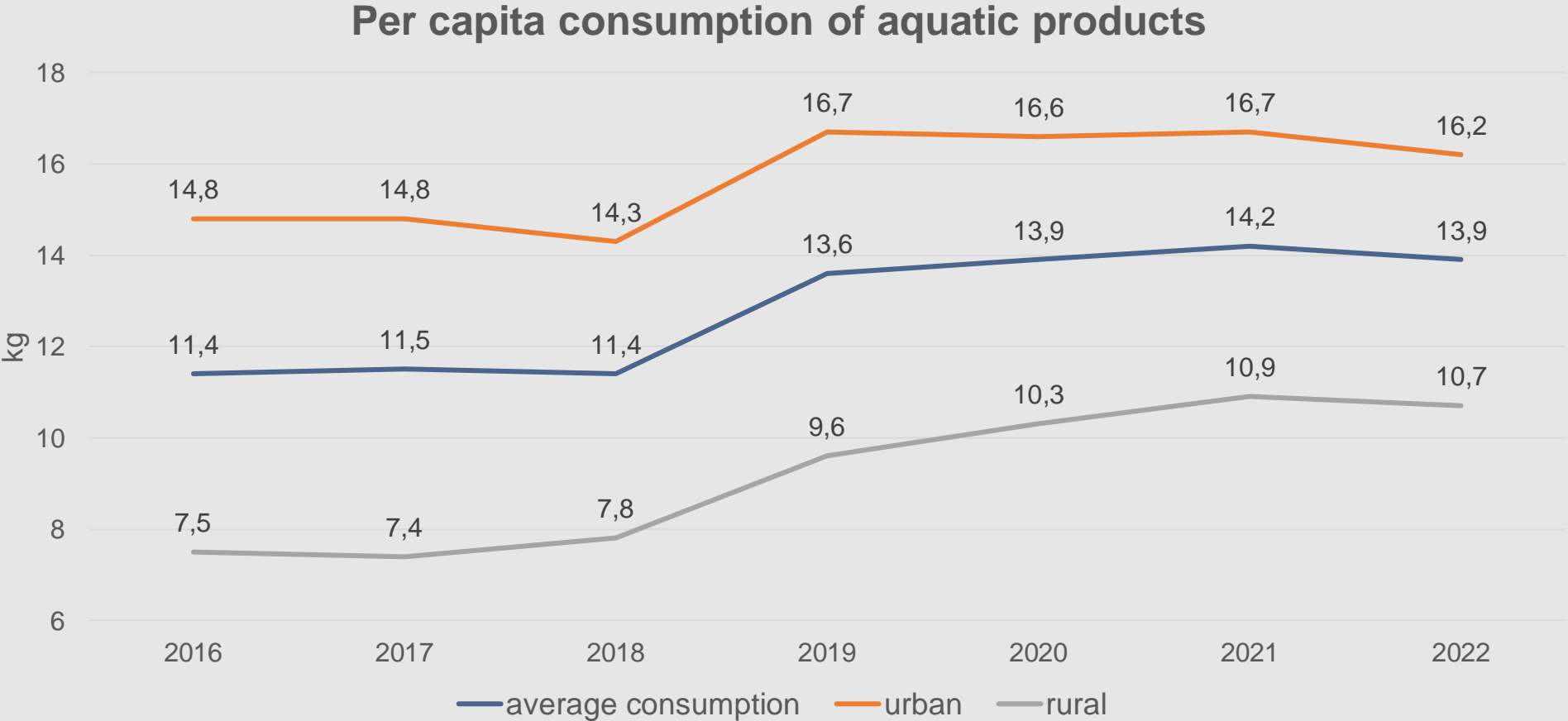
- In 2023, China's aquatic product production exceeded 70 million tons for the first time, reaching 71 million tons
  - Aquaculture production: 58.12 million tons (81.86%).
  - Fishing yield: 12.88 million tons (18.14%).

- The increase in the supply of aquatic products mainly comes from aquaculture.



Source: China Fishery Statistical Yearbook

# Consumption



Source: National Bureau of Statistics of China

Import

**Import markets of Chinese aquatic products in 2022**

Unit: 10000 tons, 100 million US dollars, %

Import Markets	% of Import	2022		Year-on-year Growth	
		Quantity	Value	Quantity	Value
ASEAN: Vietnam	19.1	149.9	45.2	21.6	48.8
	8.4	69.6	19.9	47.8	108.0
Ecuador	15.2	60.3	36.0	38.3	59.7
Russia	12.5	105.1	29.7	48.4	46.7
Peru	8.3	100.6	19.7	-18.8	-2.2
India	5.7	35.4	13.5	51.7	38.0
US	5.5	33.3	13.0	5.4	9.3
Canada	5.2	10.5	12.4	6.7	14.0

Source: China Agricultural Trade Development Report

## Export

**Export markets of Chinese aquatic products in 2022**

Unit: 10000 tons, 100 million US dollars

Export Markets	2022		Year-on-year Growth	
	Quantity	Value	Quantity	Value
ASEAN: Thailand	77.2	54.9	14.1	14.6
	21.6	17.1	9.5	10.1
Japan	53.8	37.4	-5.6	1.9
US	41.2	26.3	-4.6	5.5
EU	41.4	20.1	6.3	18.8
Korea	40.6	18.7	-1.7	6.7

Source: China Agricultural Trade Development Report





**Part.02**

# **Sustainable Development of China's Aquaculture Industry**

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Actions and Approaches

农 业 农 村 部  
 生 态 环 境 部  
 自 然 资 源 部  
 国 家 发 展 和 改 革 委 员 会  
 财 政 部  
 科 学 技 术 部  
 工 业 和 信 息 化 部  
 商 务 部  
 国 家 市 场 监 督 管 理 总 局  
 中 国 银 行 保 险 监 督 管 理 委 员 会

文件

农渔发[2019]1号

农业农村部 生态环境部 自然资源部  
 国家发展和改革委员会 财政部 科学技术部  
 工业和信息化部 商务部 国家市场监督管理总局  
 中国银行保险监督管理委员会关于加快推进  
 水产养殖业绿色发展的若干意见

各省、自治区、直辖市人民政府，国务院各部委、各直属机构：

近年来，我国水产养殖业发展取得了显著成绩，为保障优质蛋

- 1 -

## 农业农村部办公厅文件

农办渔[2020]8号

### 农业农村部办公厅关于实施2020年 水产绿色健康养殖“五大行动”的通知

各省、自治区、直辖市农业农村(农牧)厅(局、委)，福建省海洋与渔业局，新疆生产建设兵团农业农村局，各计划单列市渔业主管局，全国水产技术推广总站：

为认真贯彻党中央、国务院关于应对新冠肺炎疫情、做好农产品稳产保供工作等重要精神，深入落实2020年中央1号文件作出的“推进水产绿色健康养殖”重要部署，以及《关于加快推进水产养殖业绿色发展的若干意见》有关工作要求，推广先进适用的水产绿色健康养殖技术和模式，加快推进水产养殖业绿色发展，我部决

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2019

Strategies on Accelerating the Green Development of Aquaculture Industry

2020

MARA of China launched a national project called "Five Actions" for sustainable development of aquaculture

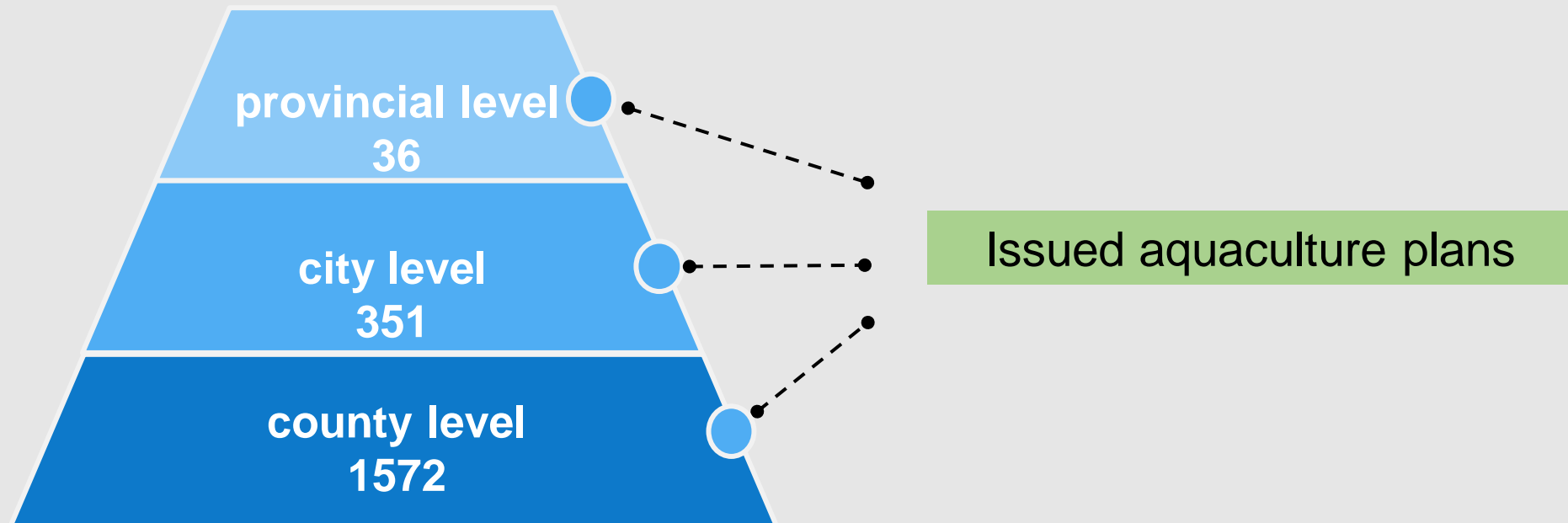
## □ China's Actions for Sustainable Aquaculture

- **Further optimize the structure of the fishery industry**
  - Stabilize and protect mudflat
  - Accelerate the promotion of deep and offshore aquaculture
  - Carry out large-scale ecological fishery pilot projects
  - Stabilize the development of rice and fishery comprehensive cultivation
  - Expand saline alkali land aquaculture and diversify fishery production



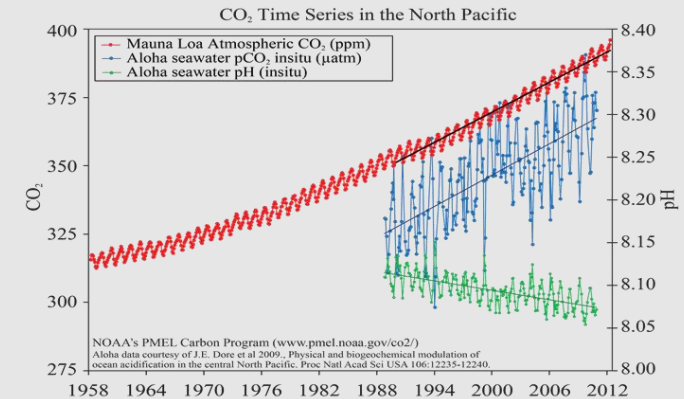
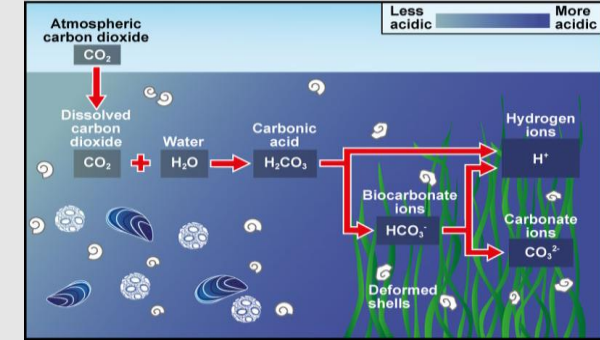
## □ China's Actions for Sustainable Aquaculture

- Solidly Promote healthy aquaculture



## □ China's Actions for Sustainable Aquaculture

- Promote healthy aquaculture
- ✓ Implement the action of revitalizing the aquatic seed industry
- ✓ Build a national marine fishery biological germplasm resource database



## □ China's Actions for Sustainable Aquaculture

### ● Accelerate the development of facility fisheries

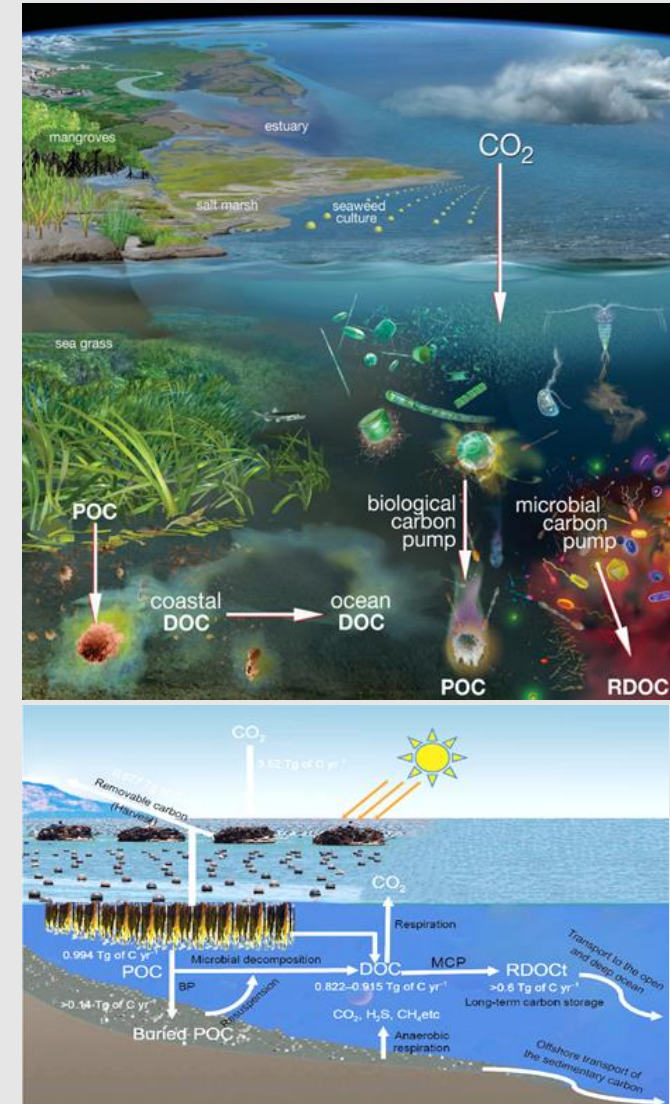
- Promote the construction of “offshore granaries”
- Select suitable species for open sea aquaculture.
- Develop specialized equipment and intelligent control system for open sea aquaculture.
- Build land-sea relay aquaculture technology system and industrialized smart production model.



## □ China's Actions for Sustainable Aquaculture

### ● Improve environment for aquaculture

- Introduce standards for the discharge of pollutants from aquaculture tail water.
- Orderly develop the aquaculture of shellfish and algae in mudflat and shallow waters.



## □ China's Actions for Sustainable Aquaculture

### ● Vigorously promoting the transformation of aquaculture methods

#### 全国水产技术推广总站文件

农渔技办〔2021〕12号

#### 全国水产技术推广总站关于做好2021年水产绿色健康养殖技术推广“五大行动”实施工作的通知

各省、自治区、直辖市及计划单列市水产技术推广部门,新疆生产建设兵团水产技术推广总站:

2020年,农业农村部组织实施水产绿色健康养殖“五大行动”,各级水产技术推广部门积极响应,采取有力举措扎实推进实施,取得积极成效。全国共培育“五大行动”骨干基地926个(名单见附件),推广生态健康养殖模式9个,实现养殖尾水资源化综合利用或达标排放,水产养殖用兽药使用量同比减少5.93%,配合饲料替代率平均达到73.5%,示范推广水产新品种(新品系)98个,全面完成2020年各项行动目标任务。日前,农业农村部印发《关于实施水产绿色健康养殖技术推广“五大行动”的通知》(农办渔〔2021〕6号,

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- 1 | Action on the demonstration and extension of eco-healthy aquaculture model
- 2 | Action on technology extension of effluent treatment
- 3 | Action on the prudent use of medical drugs
- 4 | Action on the replacement of trash fish with formulated feed
- 5 | Action on aquatic seed industry quality improvement

Five Actions



1

## Action on the demonstration and extension of eco-healthy aquaculture model

Summarize, refine and popularize a series of mature and eco-friendly aquaculture technical models according to local conditions, such as **in-pond raceway system**, **recirculating aquaculture systems**, **rice-fish system**, etc.



1

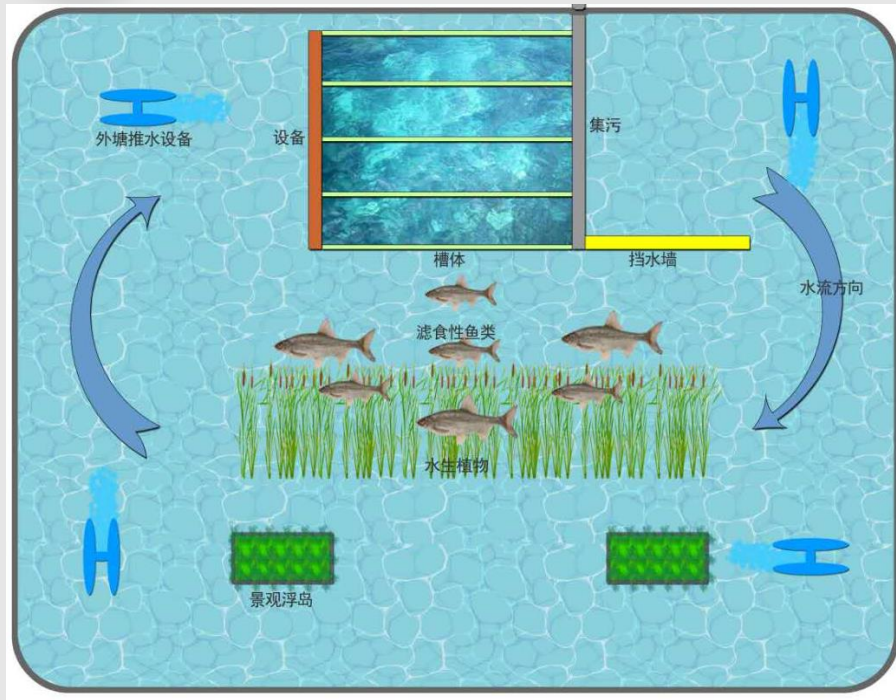
# Action on the demonstration and extension of eco-friendly aquaculture model



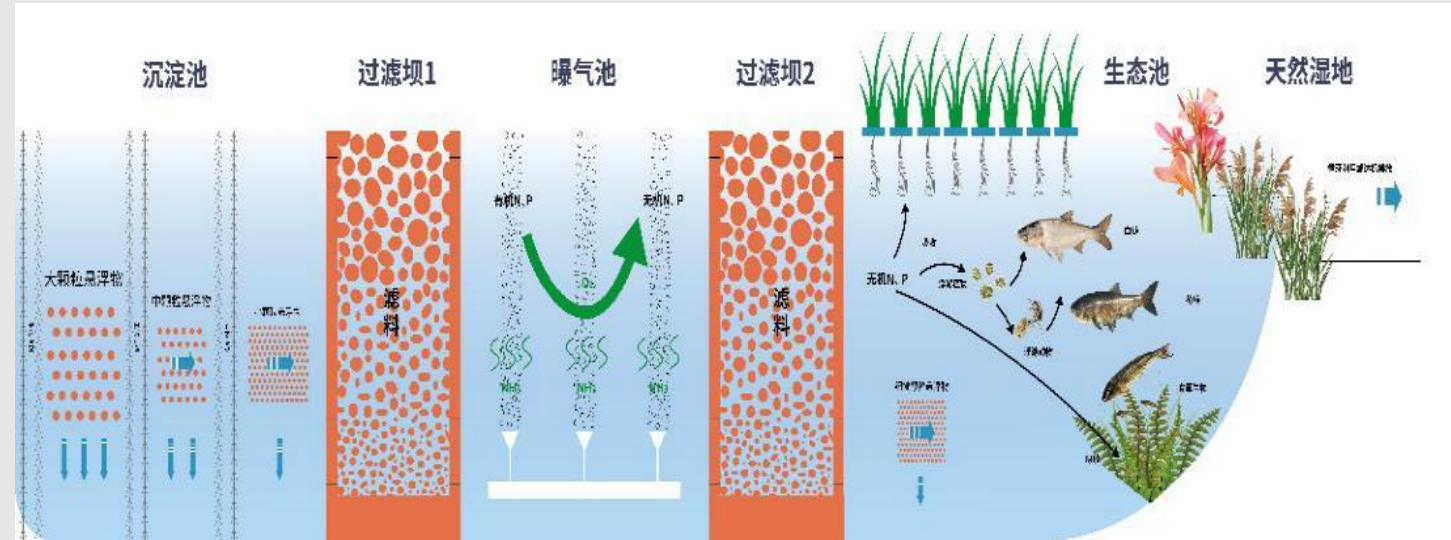
Compile the **“Series of Typical Technical Models of eco-friendly Aquaculture”** for reference.

2

# Action on technology extension of effluent treatment



Recirculation



Filtration

Aiming to improve the aquatic ecosystem progressively, research has been carried out to develop technical standards and operational specifications for treatment of aquaculture effluent, with guidance and services provided on the effluent treatment.

## 3

## Action on the prudent use of antimicrobial drugs

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- Organize surveillance and monitoring of **antimicrobial resistance (AMR)** in aquaculture, and provide guidance to reduce the usage of antimicrobials based on surveillance data.
- Promote vaccination and establish labs for drug susceptibility test.

4

# Action on the replacement of trash fish with formulated feed



Promote research on **feed formulations** for different culture species in different life stage in nutrient requirements, advance the **feed processing technologies** and steadily increase the ratio of replacement by formulated feed.

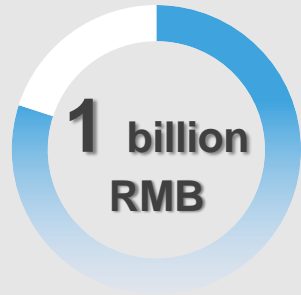


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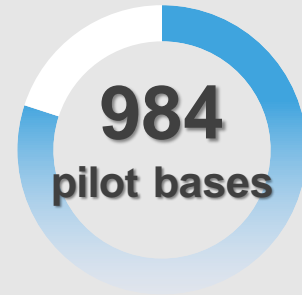
## Action on aquatic seed industry quality improvement



Encourage **genetic improvement programs**, accelerate the demonstration and extension of **aquatic varieties** with **high-quality** and **high-efficiency**, and develop the commercial system of breeding and seed production.



China has invested more than 1 billion RMB on the “Five Actions” for the past two years.



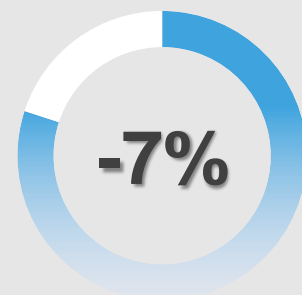
A total of 984 **pilot bases** for the “Five Actions” have been nurtured.



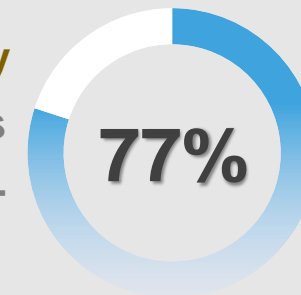
The **demonstration area** was 328 thousand hectares.



96 **new varieties** of aquaculture have been introduced and extended to farmers.



The **total use of veterinary drugs** for aquaculture has **decreased** by 7% year-on-year.



The **replacement rate** of formulated feed has reached 77% on average.



**Part.03**

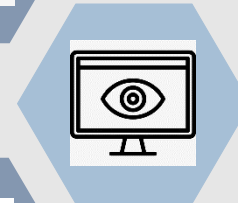
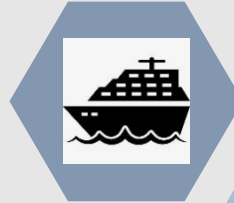
# **International Cooperation in Aquaculture Sector**

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## □ China's operation against IUU

Strengthen the monitoring of the position of deep-sea fishing vessels



Strengthen the supervision of the transfer of high seas catch

Support boarding inspections on the high seas



Supervise the import and export of deep-sea aquatic products

Crack down on illegal fishing



## □ WTO Agreement on Fisheries Subsidies

China takes the establishment of fisheries subsidy discipline as an important area for WTO to contribute to the SDGs.

China has always actively supported and participated in negotiations and consultations guided by pragmatism and consensus-seeking, reflecting transparency and inclusiveness.

China will continue to actively and constructively participate in consultations, make contributions that are in line with its own capabilities and development level, help other developing members to achieve common development.





**THANK YOU**