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FUJIAN OCEAN
INNOVATION CENTER
鹭江创新实验室

2025
ANNUAL REPORT
年度报告

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FUJIAN OCEAN INNOVATION CENTER

序 言

系统思维，“生态”优先

当陆地的馈赠已难托举文明之重，在时空的宏大坐标中，海洋始终是人类文明最深邃的隐喻——它既是文明的终点，亦是起点。

2025年，随着联合国《尼斯海洋行动计划》将海洋永续发展推向全球共治的新高度，我们已然站在文明演进的关键节点——从单向索取转向深度的生态守护与价值共生。这不仅是发展模式的变革，更是海洋认知范式的时代跃迁。

这一年，是蓝色浪潮挺进深海的里程碑。

中国海洋经济总量昂首迈入“后10万亿纪元”，海洋强国战略向纵深推进。2025年盛夏，中央财经会议以“创新驱动、协同共生”为笔，擘画出海洋强国的新图景。这不仅是一次战略的重构，更是一个古老文明对海洋的重新定义：从“陆权思维”转向“陆海统筹”，从“开发优先”走向“人海和谐”。

这一年，鹭江创新实验室如一颗石子投入时代湖面，激起重塑海洋创新生态的涟漪。

我们以“顶天立地”为哲学根基，让基础研究的星火点燃产业变革的引擎；以“国家战略践行者”为身份自觉，使鹭江脉搏与强国战略同频共振。在科学探索的深海潜行，于技术突破的浪尖起舞，从欧厝基地的方寸起步到未来园区的宏图初展，从初创团队的星火微光到百余名科技精英的汇聚成川，我们正以笃行实干之姿，书写关于‘可能性’的生动范本。

这一年，我们以系统思维构建创新生态的“四维空间”：

- **科研维度：**耦合基础与应用研究，打造互为驱动的“双螺旋”结构；
- **产业维度：**桥接龙头与中小微企业，培育活力迸发的“蓝色共生群落”；
- **人才维度：**聚合科学家、工程师与企业家，成就高能级的复合型人才矩阵；
- **资本维度：**联动多元资本力量，构建全周期、多维度的资本赋能动力系统。

这一年，全球视野下的“鹭江声音”破浪初鸣。

当“中欧蓝色发展投资基金”在第20届厦门国际海洋周扬帆起航，我们见证的不仅是资本与产业的深度融合，更是中西智慧在海洋可持续发展领域的创造性碰撞。这种跨越国界的协作，正在为全球海洋治理注入新动能，推动海洋合作从零和博弈转向共赢共生。

回望2025，我们愈发笃信：海洋创新绝非技术层面的单兵突进，而是文明层面的整体跃迁。它要求我们打破学科樊篱，重构知识体系；跨越国境边界，共建命运共同体；超越短期功利，叩问人类文明的终极归宿。

2026年，鹭江创新实验室将继续以“问题导向”为罗盘，以“系统思维”为帆。

我们将在基础研究的深海探寻真理的珍珠，在产业应用的浅滩培育创新的珊瑚，在资本滋养的潮域夯实发展的海床。我们坚信，当科研的深度、产业的力度、资本的热度与国际的广度形成强烈共振，必将奏响蓝色经济高质量发展的时代强音！

2026.01.19

Message from the Director

The Power of Convergence: Cultivating a World-Class Innovation Ecosystem

A Sea Change in Civilization

As the terrestrial resources that once sustained human progress reach their limits, the ocean has emerged—across the vast dimensions of time and space—as humanity's most profound frontier. It is at once the cradle of our past and the horizon of our renewal.

The year 2025 marked a pivotal shift in the evolution of global governance. With the "UN Ocean Action Plan" elevating sustainability to the pinnacle of international cooperation, we are transitioning from a model of unilateral extraction to one of deep ecological stewardship and shared value creation. This is more than a policy shift; it is a generational transformation in our fundamental relationship with the sea.

The Post-10 Trillion RMB era: A National Imperative

China's marine economy has now surged into the "post-10 trillion RMB era", signaling a new depth in the national strategy of maritime empowerment. In the summer of 2025, the Central Financial and Economic Affairs Conference articulated a transformative vision for ocean development—one driven by radical innovation and sustained through systemic synergy. This recalibration represents a profound redefinition for an ancient civilization: moving from land-centric logic to integrated land-sea governance, and from development-at-all-costs to a harmonious "blue symbiosis" between humanity and the ocean.

Fujian-OI: Ripples of Innovation

In this defining year, the Fujian Ocean Innovation Center (Fujian-OI) entered the tide of history. Like a stone cast into a still lake, our arrival sent ripples across the global ocean innovation ecosystem. Guided by a philosophy that is both visionary and grounded, we ignite industrial transformation with the sparks of fundamental research.

As dedicated practitioners of national strategy, we have aligned the pulse of Fujian-OI with the broader rhythm of China's maritime ambitions. From the inaugural steps at our Oucuo Base to the architectural blueprints of future campuses, and from a modest founding team to a vibrant community of over a hundred top-tier talents—we are proving, through steady action, what is truly possible.

The Four-Dimensional Ecosystem

In 2025, we applied systems thinking to engine a multi-dimensional innovation architecture:

- Research: Fusing fundamental and applied science into a mutually reinforcing "dual-helix" structure.
- Industry: Catalyzing collaboration between industry leaders and Small and Medium-sized Enterprises to cultivate a high-resilience blue innovation ecosystem.
- Talent: Forging a high-impact matrix of scientists, engineers, and entrepreneurs.
- Capital: Mobilizing diverse financial instruments to build a full-cycle, multi-layered empowerment system.

A Resonance on the Global Stage

The "Fujian-OI voice" is now resonating globally. The launch of the China-EU Blue Forward Fund at the 20th Xiamen International Ocean Week was a landmark moment—not only for the integration of capital and industry but for the creative convergence of Eastern and Western perspectives. This cross-border collaboration is injecting fresh momentum into global governance, shifting the international narrative away from zero-sum competition toward shared prosperity.

2026: Navigating the Future

Looking back, we see that ocean innovation is not merely a series of isolated technological feats, but a holistic leap in human civilization. It demands the removal of disciplinary silos, the reconstruction of knowledge systems, and a vision that transcends short-term gain.

In 2026, Fujian-OI will continue to navigate with a problem-oriented compass and the sail of systems thinking. We will seek fundamental truths in the depths of basic research and cultivate innovation in the fertile shallows of industrial application. We firmly believe that when the depth of science, the strength of industry, the vitality of capital, and the breadth of international collaboration resonate in concert, they create an unstoppable movement—driving the high-quality development of the blue economy for decades to come.

2026.01.19

大事记

Milestones & Achievements

MILESTONES

2024年09月
福建省委、省政府批准成立福建省海洋科学与技术创新实验室(鹭江创新实验室)

September 2024
Fujian-OI was officially approved by Fujian Provincial People's Government.

2024年12月25日
签署《厦门市人民政府、厦门大学、自然资源部第三海洋研究所共同建设“福建省海洋科学与技术创新实验室”(鹭江创新实验室）框架协议》

December 25, 2024
Xiamen Municipal People's Government, Xiamen University, and Third Institute of Oceanography, MNR, formally signed the Framework Agreement on the Joint Development of Fujian Ocean Innovation Center.

2025年1月11日
厦门市人民政府批复设立鹭江创新实验室

January 1, 2025
Fujian-OI was officially approved by Xiamen Municipal People's Government.

2025年1月19日
举行海洋科技创新与产业创新融合研讨会暨鹭江创新实验室成立大会

January 19, 2025
The Inaugural Ceremony of Fujian-OI was convened.

2025年5月7日
召开鹭江创新实验室理事会第一次会议

May 7, 2025
The First Board of Directors Meeting of Fujian-OI was convened.

2025年7月17日
全资设立鹭江海洋发展（厦门）有限公司

July 17, 2025
Fujian-OI Ocean Development (Xiamen) Co., Ltd. was founded as a wholly-owned subsidiary of Fujian-OI.

2025年11月5日
鹭江创新实验室暨厦门海洋高新技术产业园区项目集中开工

November 5, 2025
The groundbreaking ceremony for Fujian-OI campus was held.

MAJOR ACHIEVEMENTS

2025年2月6日
实验室首篇论文《循环海洋生物产业重新设计和从头设计》在《中国科学院院刊》正式发表

February 6, 2025
The first research paper "Redesign and *de novo* design of circular blue bioindustry" was published in the "Bulletin of Chinese Academy of Sciences" .

2025年3月11日
福建省海洋与渔业局与鹭江创新实验室举行“洪流计划”首场工作会商

On March 11, 2025
The Fujian Provincial Department of Ocean and Fisheries and Fujian-OI conducted their first joint working consultation regarding the Hong Liu Project (The Great Current Initiative).

2025年5月7日
实验室首个支柱“深海生物制造产业创新中心”启动

May 7, 2025
Deep-Sea Biomanufacturing Innovation Center launched.

2025年6月9-13日
实验室首秀重要国际海洋盛会，赴法国参加第三届联合国海洋大会

June 9-13, 2025
Actively engaged in the Third UN Ocean Conference in Nice, France.

2025年7月3日
与中国银行厦门市分行签署《全面战略合作协议》

July 3, 2025
Signed a Comprehensive Strategic Cooperation MoU with Bank of China (Xiamen Branch).

2025年8月
实验室推进深圳市朗诚科技股份有限公司子公司落地厦门，并入驻鹭江创新实验室

August, 2025
A subsidiary of Shenzhen LightSun Technology Co., Ltd. established residency at Fujian-OI.

2025年9月
实验室领军科学家曹知勉获批国家自然科学基金委青年科学基金项目A类资助

September 2025
Zhimian Cao, Distinguished Scientist, was awarded with the National Natural Science Foundation (NSFC)'s Young Scientist Fund (Category A).

2025年9月25日
加入全球海洋观测合作组织（POGO）

September 25, 2025
Joined Partnership for Observation of the Global Ocean (POGO)

2025年11月3日

海洋生物抗菌肽产业研究院与福建克里贝尔生物技术有限公司等共建抗菌肽联合研发中心

November 3, 2025

A R&D Center for Antimicrobial Peptides was jointly launched by Marine Antimicrobial Peptide Industry Research Institute and Fujian Clinbio Biotechnology Co., Ltd.

2025年11月6日

发布全球首支中欧跨国海洋基金——中欧蓝色发展投资基金

November 6, 2025

China-EU Blue Forward Fund was officially launched.

2025年11月7-8日

举办首届中欧蓝色产业投资研讨会

November 7-8, 2025

China-EU Blue Forward Investment Forum 2025 was convened.

2025年11月7日

“海岸带可持续发展国际合作网络”正式成立

November 7, 2025

International Cooperation Network for Coastal Sustainable Development was established.

2025年12月3日

实验室推进全球海洋通信巨头亨通集团子公司落地厦门，并入驻鹭江创新实验室

December 3, 2025

A subsidiary of Hengtong Group Co., Ltd. established residency at Fujian-OI.

2025年12月9日

实验室领军科学家刘志宇入选首批福建省科技创新领军人才

December 9

Zhiyu Liu, Distinguished Scientist, was selected for the first cohort of Fujian Province's Science and Technology Innovation Leading Talent Program.

2025年12月11日

实验室首件发明专利“3—溴—1H—吡咯—2，5—二酮在制备食管鳞癌治疗组合物中的用途”正式提交申请

December 11, 2025

The first invention patent application was submitted.

2025年12月14日

实验室举办首批“双聘”科学家聘任仪式

December 14, 2025

A ceremony for dual-appointment scientists was convened.

2025年12月29日

国家自然科学基金重大研究计划“海岸带复杂系统演变与临界过程”启动，实验室首席科学家戴民汉发起该重大研究计划，并担任指导专家组组长

December 29, 2025

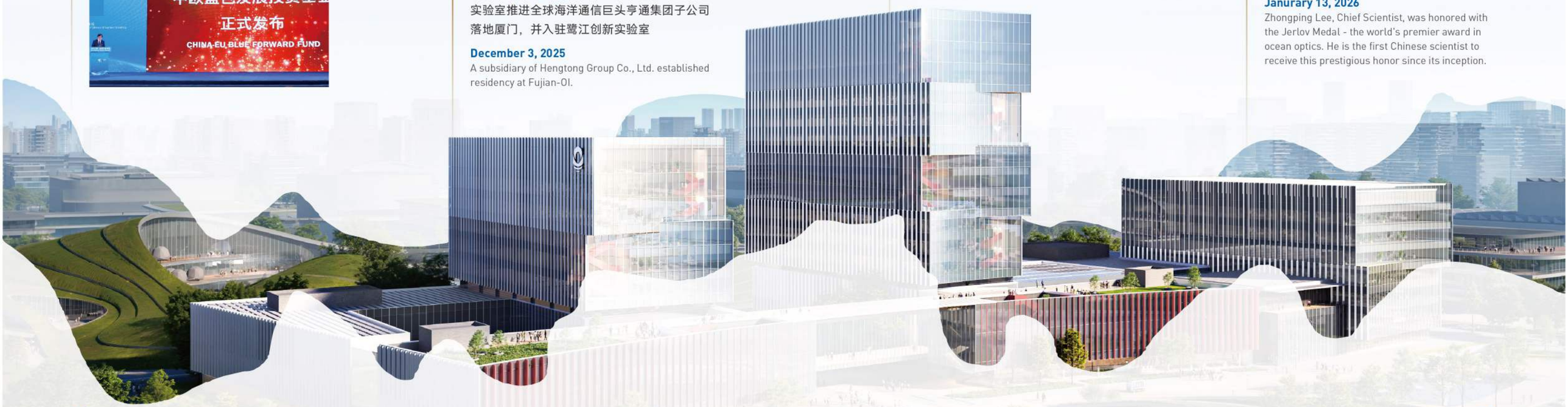
The NSFC Major Research Plan "Evolution and Tipping Dynamics of Complex Coastal Zone Systems (E-Tides)" was launched. Minhan Dai, Chief Scientist, initiated this plan and currently serves as the Chair of the Steering Expert Committee.

2026年1月13日

实验室首席科学家李忠平问鼎海洋光学领域最高学术奖Jerlov奖章（Jerlov Medal），为奖项设立以来的首位华人得主

Janurary 13, 2026

Zhongping Lee, Chief Scientist, was honored with the Jerlov Medal - the world's premier award in ocean optics. He is the first Chinese scientist to receive this prestigious honor since its inception.



体系布局
Overall Design

实验室概述 Institutional Profile

鹭江创新实验室（福建省海洋科学与技术创新实验室，以下简称实验室）于 2024 年 9 月经福建省委、省政府批准成立；2025 年 1 月审批设立为事业单位法人、正式挂牌建设。实验室由厦门市人民政府举办，依托厦门大学和自然资源部第三海洋研究所，并协同省内外优势涉海科技领军企业、科研机构等共同建设，是具备独立法人资格的新型研发机构。

实验室秉持“顶天立地”的规划理念，在服务国家战略的同时，面向区域发展和产业应用需求，着力构建集人才、科技、产业、资本“四位一体”的海洋科技创新生态系统，打造支撑区域发展和服务国家重大需求的战略科技力量，服务全球海洋发展目标。

Established in September 2024 and officially inaugurated in January 2025, Fujian Ocean Innovation Center (Fujian-OI) is a premier independent research institution authorized by the Fujian Provincial People's Government. Sponsored by the Xiamen Municipal People's Government, Fujian-OI was jointly developed through a strategic partnership between Xiamen University and the Third Institute of Oceanography, Ministry of Natural Resouces (MNR). Fujian-OI is committed to cultivating a dynamic marine innovation ecosystem. By integrating elite talent, cutting-edge technology, and strategic capital, Fujian-OI aims to drive local industrial growth and advances regional societal sustainability, and contribute to the advancement of global ocean development goals.

规划理念

A Novel Cross-Sectoral Parntership

愿 景 Vision

在科学、技术、综合治理与可持续金融的交叉领域推动创新，致力于共建可持续而繁荣的海洋未来。海洋发展必须摆脱以资源掠夺为特征的旧有模式，转向一种支持生态系统韧性、促进包容性繁荣、维护地球长期健康的新型发展范式。

To advance a sustainable and thriving ocean future by fostering innovation at the intersection of science, technology, integrated governance, and sustained finance. We recognize that ocean development must embrace new models—distinct from the extractive approaches of the past two centuries—to support resilient ecosystems, inclusive prosperity, and long-term planetary health.

使 命 Mission

鹭江创新实验室乘第四次工业革命与新兴技术之浪潮，为海洋领域培育充满活力的创新生态系统。通过联结创新链上的人才、学术界、产业界与金融界，推动蓝色经济的可持续解决方案与包容性增长，助力国家优先战略，服务全球海洋发展目标。

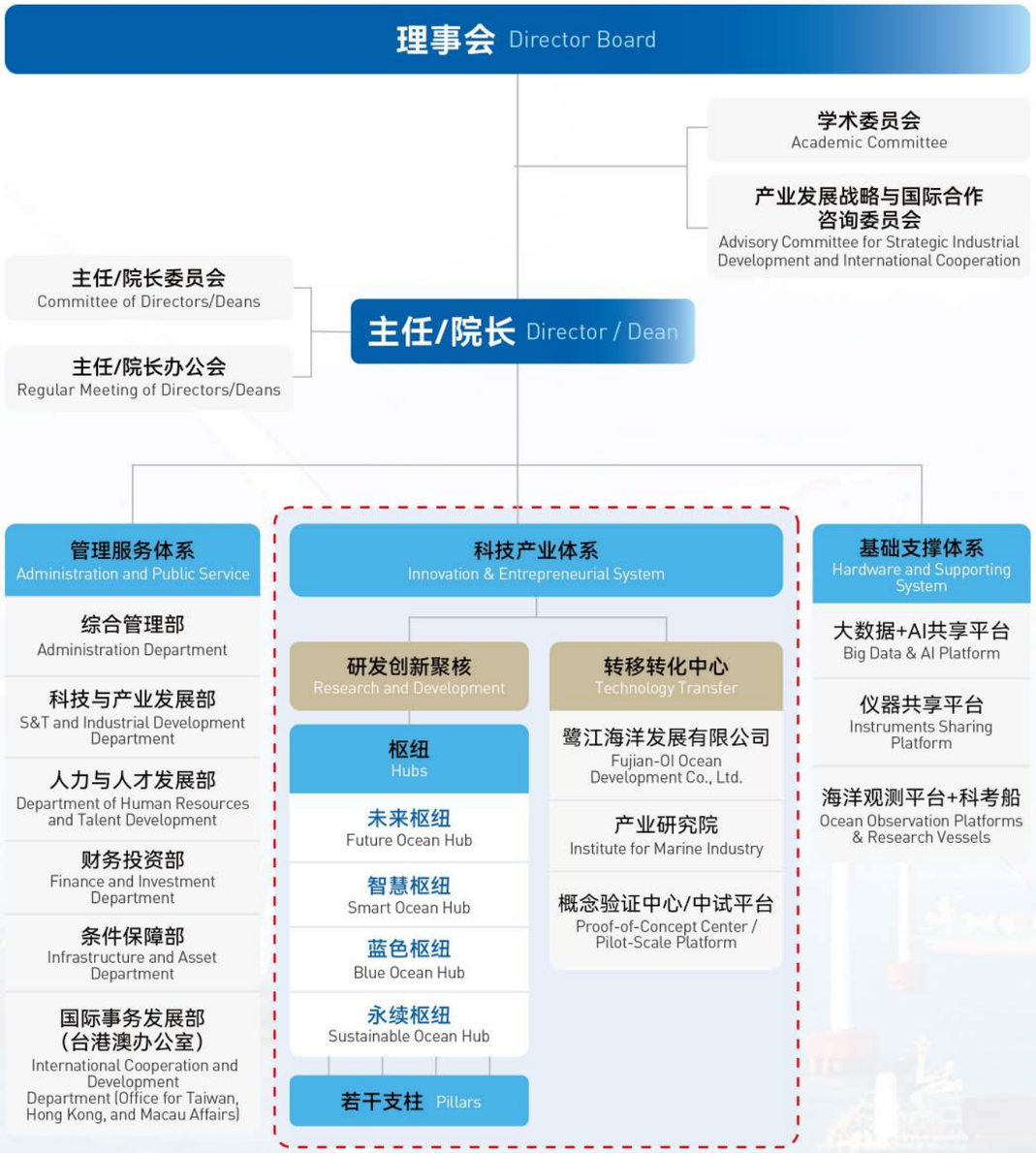
Fujian-OI catalyzes a dynamic marine innovation ecosystem, leveraging the Fourth Industrial Revolution and cutting-edge technologies. By connecting talent, academia, industry, and finance across the innovation chain, we deliever sustainable solutions and drive inclusive growth within the blue economy, advancing both national strategic priorities and global ocean development goals.

经略海洋 =

（科学 + 技术 + 治理 + 金融）× 共同设计 ^{2}

Strategic Ocean Development = (Science + Technology + Governance + Finance) × Co-design^2

组织架构 Organizational Structure



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Director of Fujian Ocean Innovation Center

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Provincial Departments: Science and Technology, Development and Reform Commission, Education, Industry and Information, Finance, Human Resources and Social Security, Ocean and Fisheries, Innovation Research Institute

市级部门：科学技术局、自然资源和规划局、海洋发展局

Municipal Bureaus: Science and Technology, Resources and Planning, Oceanic Development

学术机构：厦门大学、自然资源部第三海洋研究所

Academic Institutions: Xiamen University, Third Institute of Oceanography, Ministry of Natural Resouces

成 员 Members

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Science and Technology, Development and Reform Commission, Education, Industry and Information, Finance, Human Resources and Social Security, Xiamen University, Xiamen Torch Group Limited

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Assistant Director

FUJIAN OCEAN INNOVATION CENTER

科技产业

Innovation and Entrepreneurship

实验室定位于打造科技产业创新核心引擎，深度融合创新链、产业链、资金链和人才链，构建“产业需求牵引、科技创新驱动、资本精准赋能”的协同机制。通过构建清晰的战略架构、夯实平台基础、突破关键产业技术、深化与龙头企业合作、建设高水平创新生态，着力强化战略科技支撑能力，加速海洋科技成果转化与产业化应用，系统推进海洋新质生产力发展。

Fujian-OI is systematically cultivating "new quality maritime productive forces". We achieve this through a multi-dimensional approach: building robust strategic frameworks, establishing solid foundational platforms, securing breakthroughs in pivotal industrial technologies, deepening partnerships with industry leaders, and cultivating a high-level innovation ecosystem.

24个
企业合作签约
24 MoUs/Agreements with Corporate Signed

15.03亿
首期省市建设经费
Initial Phase of Provincial and Municipal Construction Funding

61个
自主部署项目立项
61 R&D Projects Approved

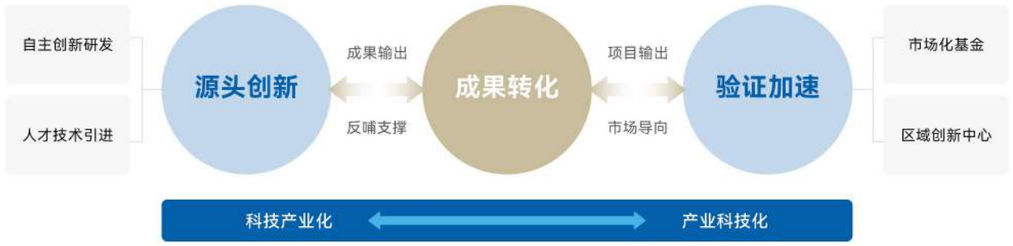
18个
启动建设支柱
18 Pillars Launched

战略引领：构建“有体系科研、有组织转化”的产业创新生态
Strategic Design

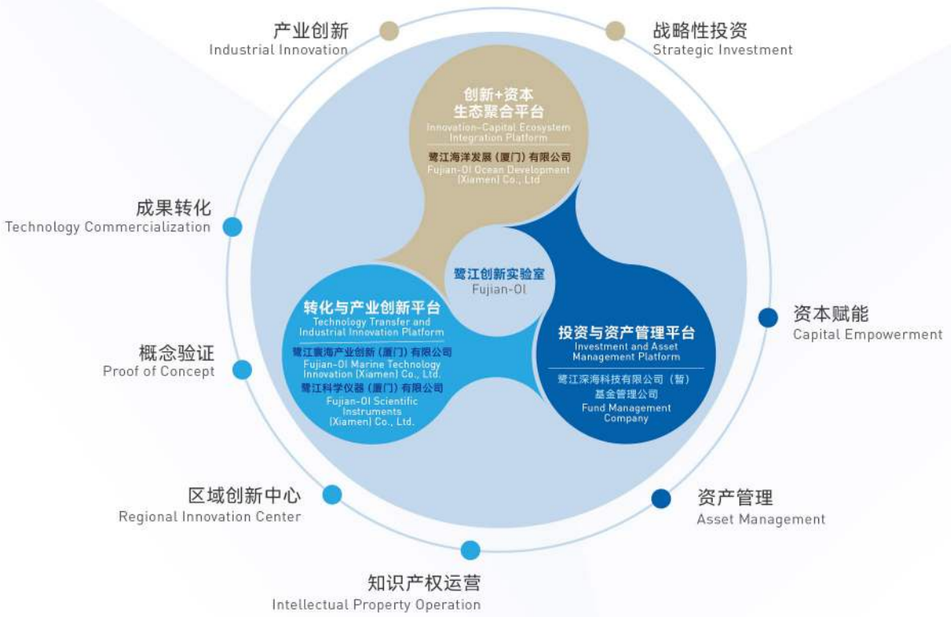
顶层原则：“无转化、不立项”
Top-Level Principle

以产业需求倒逼科技创新、以市场化机制保障转化效率
Demand-Driven Research Innovation and Market-led Commercialization

核心体系：“先横后纵”科技产业体系
A Cross-and-parallel System for Innovation and Entrepreneurship



核心载体：三位一体的市场化运营矩阵
Market-Oriented Operating Matrix



转化路径：孵投服并行精准服务多元主体
Novel Approaches

模型一
产业创新LAB
Model I: Industrial Innovation Lab

- 面向企业合作方
  Partner with Corporates
- 产学研结合 赋能产业发展
  Cross-sectoral Partnership for Empowering Industrial Development

技术转移
Technology Licensing

模型二
PI LAB公司
Model II: PI Lab Company

- 面向大科学家
  Partner with Technolony Clusters
- 赋能创业者 赋能产业发展
  Empowering Cluster for Driving Industrial Development

科技成果转化
Technology Commercialization

模型三
创业孵化公司
Model III: Start-up Incubation Company

- 面向独立创业者
  Partner with Individual Entrepreneurs
- 面向资本化 科技产业化
  Accelerating Star-up Growths, Empowering Entrepreneurs with Venture Investments

平台筑基：体系化布局推进创新支柱建设
Innovation Platforms

围绕四大海洋核心枢纽，打破学科壁垒与实体平台束缚，形成开放、动态、共赢的新型科研组织范式。
Focusing on four ocean hubs, Fujian-OI is cultivating an open, dynamic, and win-win R&D paradigm.

四大枢纽定位与聚焦领域Focus Area of Hubs

海洋科学前沿应用基础研究
——为应用开发提供系统水平认知和颠覆性原理支撑

Basic Research
Cutting-edge ocean science for solutions

- 气候变化与海洋灾害
  Climate Change and Marine Hazards
- 海洋碳汇与增汇技术
  Ocean Carbon Sinks and Carbon Enhancement Technologies
- 生物多样性与资源环境效益
  Biodiversity and Resource-Environment Benefits
- 海洋仿生等新兴交叉领域
  Emerging Interdisciplinary Fields such as Marine Biomimetics

海洋智能观探测技术与装备研发
——为海洋科技创新提供强有力的工程技术支撑

Applied / Original / Integrative Research
Innovative & integrated technologies in ocean observation and monitoring

- 海洋观探测技术与装备
  Marine Observation and Detection Technologies and Equipment
- 海洋空天遥感技术与应用
  Marine Aerospace Remote Sensing Technologies and Applications
- 海洋模拟与智能预测技术
  Ocean Modeling and Intelligent Forecasting Technologies
- 海洋机器人技术与装备
  Marine Robotics Technologies and Equipment

海洋资源开发与绿色制造及应用
——为海洋产业转型、可持续海洋经济发展赋能

Applied / Original Research
Innovations in exploring marine resources for a prosperous blue economy

- 海洋生物功能制品开发与产业化
  Development and Industrialization of Marine Biofunctional Products
- 海洋种业创新与生态智能化养殖
  Marine Breeding Innovation and Ecologically Intelligent Aquaculture
- 沿海碳资源利用与海水综合利用
  Utilization of Coastal Carbon Resources and Integrated Seawater Utilization
- 海洋可再生能源
  Marine Renewable Energy

海洋可持续发展新理论、新模型、新数据、新技术
——为海洋永续发展提供智力方案

Cross-disciplinary & Integrative Research
Integrated & holistic solutions to ocean economy & governance

- 综合治理：海洋可持续发展智库
  Integrated Governance: Think Tank for Sustainable Ocean Development
- 蓝色经济：绿色转型与高质量发展
  Blue Economy: Green Transition and High-Quality Development
- 生态安全：海洋生态保护与修复技术
  Ecological Security: Marine Ecosystem Protection and Restoration Technologies
- 气候金融：蓝色气候投融资新路径
  Climate Finance: New Pathways for Blue Climate Investment and Financing

海洋大数据与人工智能底座
Marine Big Data & AI

海洋大数据 Marine Big Data | 数值模拟 Numerical Modeling | 人工智能 AI | 数字孪生 Digital Twins

未来枢纽 Future Ocean Hub

海洋高等研究所
Advanced Institute for Marine Studies (AIMS)

AIMS致力于推动海洋科技前沿和认知边界的颠覆性研究，聚焦全球变化背景下的海洋复合灾害、海洋生态系统演化和环境适应性等复杂问题及“人工智能+海洋”等前沿交叉领域，打造具备战略引领力的国际化海洋研究高地。

AIMS is committed to promoting disruptive research at the forefront of marine science and the boundaries of knowledge, focusing on complex issues such as marine compound hazards, marine ecosystem evolution, and environmental adaptability against the backdrop of global change, as well as cutting-edge interdisciplinary fields such as "AI + Ocean". It aims to build an internationally recognized highland for marine research with strategic influence.

11月5日，海洋高等研究所正式揭牌。
November 5, 2025, Advanced Institute for Marine Studies (AIMS) was officially inaugurated.

未来海洋生物智造前沿研究中心
OceanBioX_FutureLab

中心旨在引领海洋生物研发“范式革命”，通过构建“AI驱动+干湿闭环”的智能体系，大幅提升研发效率，聚焦光合动物仿生、极端环境材料、深海暗物质生物合成三大生物智造前沿方向，抢占蓝色生物经济制高点，孵化硬科技企业。

OceanBioX_FutureLab aims to lead the "paradigm revolution" in marine biotechnology research and development by constructing an intelligent system driven by "AI + dry-wet closed-loop integration", significantly enhancing R&D efficiency. It focuses on three cutting-edge frontiers of bio-intelligent manufacturing: photosynthetic animal biomimetics, extreme environment materials, and deep-sea dark matter biosynthesis, striving to seize the high ground of the blue bio-economy and incubate hard-tech enterprises.

智慧枢纽 Smart Ocean Hub

◉ 海洋与海岸带遥感应用中心
Coastal Remote Sensing Application Center

中心面向国家安全、防灾减灾和海洋经济发展需求，基于高分辨率光学和SAR卫星、无人机、岸基光电和雷达等遥感观测手段，以福建近海、台湾海峡及海岸带等为重点研究区域，开展海陆遥感技术与应用研究，服务智慧海洋枢纽和国家海洋强国战略。

The Ocean and Coastal Remote Sensing Application Center is dedicated to addressing national needs in security, disaster prevention and mitigation, and the marine economy development. Based on remote sensing observation technologies — including high-resolution optical and SAR satellites, unmanned aerial vehicles (UAVs), shore-based optical instruments and radar systems — the Center conducts research on marine and terrestrial remote sensing technologies and their applications.

- 01 高空间分辨率、高重访率近海生态环境遥感
- 02 高精度近海海洋动力环境遥感反演与智能预测
- 03 台风、赤潮、溢油等海洋灾害监测
- 04 复杂海洋环境下舰艇类目标的智能检测与识别
- 05 典型海岸带场景变化检测与态势评估

+海丝五号、海丝星座

◉ 海洋传感技术与装备研发中心
Marine Sensing Technology and Equipment R&D Center

中心聚焦国家深远海战略与海洋观测重大需求，致力于开展前瞻性、引领性的海洋传感技术与高端装备研发，聚焦船载走航式分析系统、原位传感器、实验室及公民科学仪器等方向，开展关键技术攻关与创新方法研究。

Aligned with the national deep-sea strategy and key marine observation priorities, the Marine Sensing Technology and Equipment R&D Center focuses on shipborne underway analysis systems, in situ sensors, laboratory instruments, and citizen science devices. It addresses critical core technologies via independent R&D and industry collaboration, striving to accelerate the localization of high-end marine sensors and equipment.

◉ 水声通信与海洋信息技术教育部重点实验室*
Key Laboratory of Underwater Acoustic Communication and Marine Information Technology

该实验室是我国最早开展水声通信研究的单位之一，基于六十余年的深厚积累，形成了独具特色的水声通信、海洋信息技术优势。现加盟鹭江创新实验室，以“感、传、算”三大方向为支点，加速技术产业化，赋能海洋新质生产力。

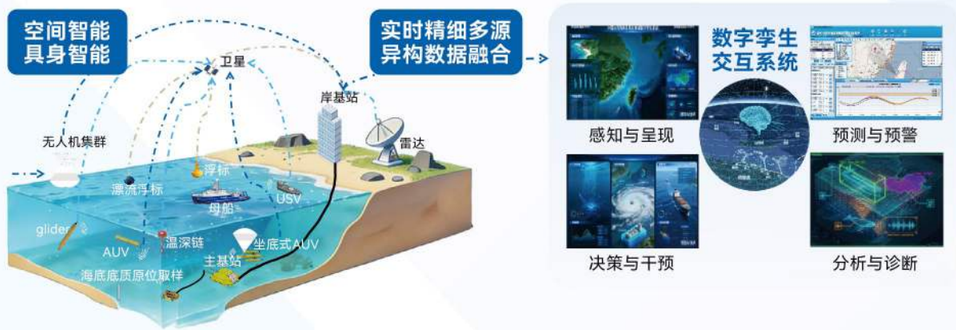
The Laboratory is one of the earliest institutions in China dedicated to underwater acoustic communication research. Building on more than six decades of profound expertise in oceanography and information technology, it has grown into a leading center with distinctive strengths in underwater acoustic communication and marine information technology. Now affiliated with Fujian-OI, the lab advances technology commercialization and cultivates new-quality marine productivity by integrating three core capabilities: uses "sensing, transmission, and computing" .

*平移支柱：依托原单位建设基础和深厚积淀，借助鹭江创新实验室体制机制优势，开展不重复、有增量的研究，实现价值提升和加速成果转化。

◉ 海洋立体观探测与数值模拟预报中心
Center for Integrated Marine Observation and Numerical Modeling & Forecasting

中心以服务国家海洋安全保障与区域防灾减灾为根本定位，以构建“空天陆海潜”立体观探测智能化系统与谱系化数值模拟预报系统为核心任务，充分利用空间智能与边缘计算等前沿技术，打造海洋环境数字孪生体（“海镜”）与任务智能体（“龙王”）。

This pillar supports national maritime security and regional disaster prevention and mitigation. Its primary task is to establish a stereoscopic observation and sensing system, together with a systematic numerical simulation and forecasting framework. By leveraging cutting-edge technologies such as spatial intelligence and edge computing, it aims to create a digital twin of ocean and an AI agent.



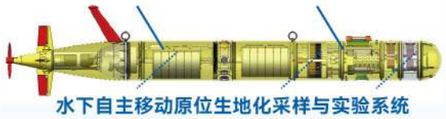
◉ 特种海洋机器人研发中心
Marine Robotics R&D Center

中心瞄准国家海洋强国战略及海洋经济建设需求，开展海洋机器人科学仪器、海气界面与低空大气无人观探测、水下激光清洗/修复特种机器人等前沿科技攻关与装备研发，发展高端海洋观探测装备、科学仪器与特种作业装备。

Targeting national strategies for building a maritime power and the development needs of the marine economy, the Center focuses on research and equipment development in marine robotics. Its work covers marine robotic scientific instruments, unmanned observation of the air–sea interface and low-altitude atmosphere, as well as specialized underwater robots for laser cleaning and repair. The Center develops high-end marine observation equipment, scientific instruments, and specialized operation systems.


自主移动观测与智能决策分系统

原位生物地球化学实验与采样分系统


水下自主移动原位生地化采样与实验系统


第一代全矢量ROV


多功能机械臂


第二代水下特种作业机器人

水下激光清洗/修复特种机器人


TX-G500无人自旋翼机


GF-2000通用无人飞行平台


多旋翼无人机


垂直起降无人机

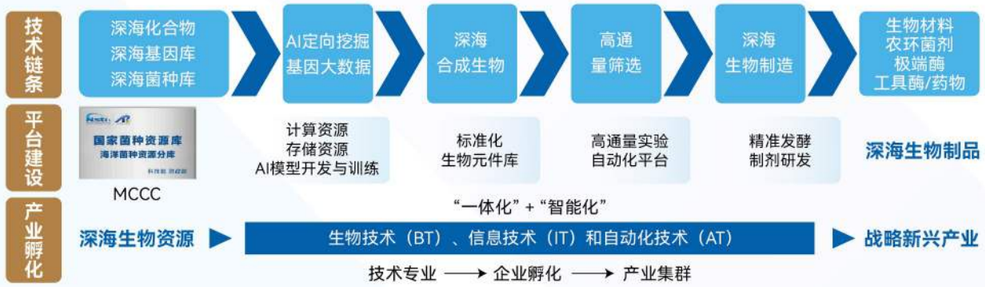
海气界面无人观探测与海上低空大气要素观测装备

蓝色枢纽 Blue Ocean Hub

◉ 深海生物制造产业创新中心
Deep-Sea Biomanufacturing Innovation Center（DSBM）

中心致力于深海生物遗传资源的产业化开发，聚焦生物制造与大健康领域，构建“资源发现-基因改造-产品开发”全链条技术体系。通过AI赋能与资本对接，推动深海微生物制剂、极端酶等新产品创制，打造深海生物产业高地。

The Center focuses on the industrial development of deep-sea biological genetic resources, with an emphasis on biomanufacturing and health-related applications. It is advancing an integrated technology framework spanning resource discovery, genetic modification, and product development, leveraging AI-enabled tools and capital linkages to support deep-sea biomanufacturing.



11月7日，深海生物制造产业创新中心正式揭牌。
On November 7, 2025, the Deep-Sea Biomanufacturing Innovation Center was officially inaugurated.

◉ 海洋生物抗菌肽产业研究院
Marine Bio-Antimicrobial Peptide Industry Research Institute

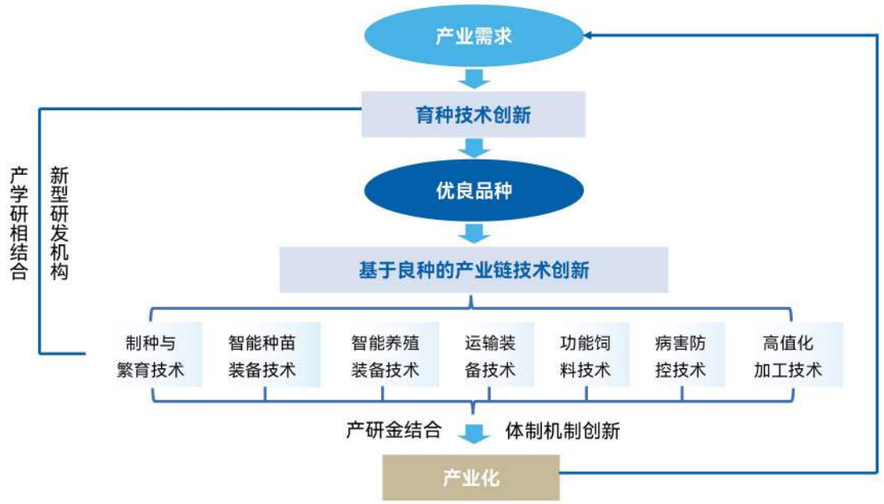
研究院聚焦我国替抗的重大需求，聚焦水产养殖健康产品、天然功效日化品、新型食品防腐保鲜剂、医用健康产品的研发与产业化，重点突破抗菌肽产业化关键技术，实现低成本规模化生产，开发出满足市场需求的天然绿色产品。

The Institute focuses on the development of antibiotic alternatives in response to national demand, with an emphasis on applications in healthy aquaculture, functional personal care, food preservation, and medical health. By advancing key technologies in antimicrobial peptide industrialization, it supports low-cost, scalable production and the development of natural, green products aligned with market needs.

◉ 海洋种业与先进养殖中心
Center for Marine Breeding and Advanced Aquaculture Technology

中心聚焦大黄鱼、鲍鱼、对虾和海带等福建优势养殖种，研发前沿育种技术、培育优良新品种和构建“育繁推一体化”种业体系，同时开展智能化养殖、病害防控等先进养殖技术研发，旨在打造现代海水养殖的“福建模式”，服务于蓝色食品可持续供应。

The Center focuses on the breeding and improvement of key mariculture species with regional advantages in Fujian Province, including large yellow croaker, abalone, shrimp, and kelp. It advances integrated breeding and aquaculture systems, including intelligent aquaculture and disease control, supporting the development of a modern “Fujian Model” for sustainable mariculture and blue food supply.



◉ 循环海洋生物产业研究中心

Circular Marine Bio-industry Research Center

中心聚焦解决海洋产业“增产不增值”的瓶颈，以海参、海藻、大藻、鲍鱼、牡蛎、大黄鱼等福建六大优势资源为核心，重构“育种—养殖—加工—循环”全价值链，打造“福海”品牌产业集群，实现增值增效，孵化高技术海洋生物企业。

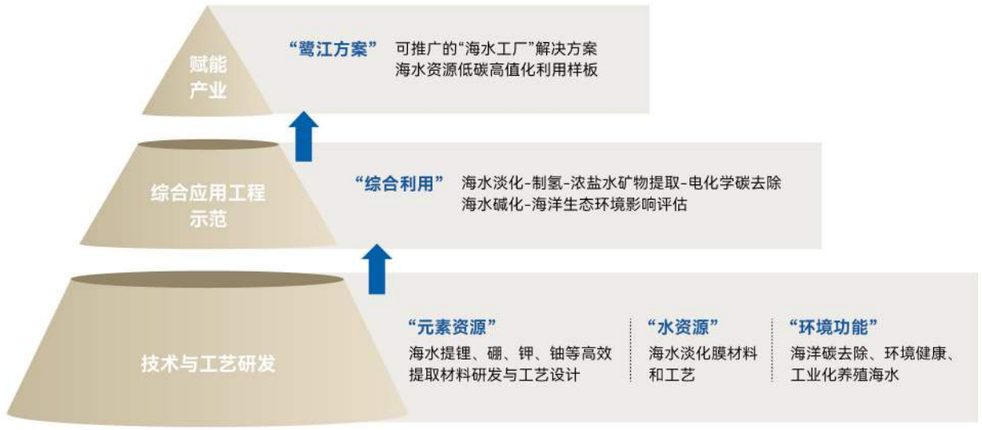
The Center addresses the challenge of limited value creation in marine industries by leveraging Fujian Province's six regionally advantaged resources — sea cucumber, seaweed, macroalgae, abalone, oyster, and large yellow croaker. By integrating the full value chain spanning breeding, aquaculture, processing, and circular utilization, it is building the "Fuhai" branded industrial cluster, enhancing value creation and efficiency, and incubating high-tech marine biotechnology enterprises.

◉ 海洋蓝色化工工程中心

Marine Blue Chemical Engineering Center

中心以海水综合利用为核心，集成海水淡化、绿氢制备、战略元素提取与养殖水处理等技术，推动浓盐水资源化与养殖系统绿色革新。通过“新材料-装备-工艺包”转化链，打造可复制的“海水工厂”解决方案，助力海洋产业低碳发展。

The Center focuses on the integrated utilization of seawater resources, advancing technologies such as desalination, green hydrogen production, strategic element extraction, and aquaculture water treatment. Through integrated pathways linking materials, equipment, and processes, it develops replicable "seawater factory" solutions to support the low-carbon transition of marine industries.



◉ 海洋生物制备技术国家地方联合工程研究中心*

State-Province Joint Engineering Research Center of Marine Bioproducts and Technology

中心由国家发展改革委员会批准建设，平移后重点聚焦海洋生物活性物质开发利用、绿色制备技术及工艺、海洋药物和海洋健康产品等研发方向，旨在打造成为高水平的海洋生物制备技术平台，赋能海洋生物产业高质量发展。

Approved by the National Development and Reform Commission, the Center is now affiliated with Fujian-OI. It focuses on the development and utilization of marine bioactive substances, green biomanufacturing technologies, and marine pharmaceuticals and health products. The Center advances a high-level marine bioproduct engineering and technology platform to support the high-quality development of the marine bioproduct industry.

*平移支柱：依托原单位建设基础和深厚积淀，借助鹭江创新实验室体制机制优势，开展不重复、有增量的研究，实现价值提升和加速成果转化。

永续枢纽 Sustainable Ocean Hub

◉ 福建海洋可持续发展研究院*

Fujian Institute for Sustainable Oceans (FISO)

研究院是鹭江创新实验室先行先试单位，聚焦科研成果向政策、标准和服务转化，重点开展海洋智能决策系统、海岸带可持续发展数据库和海洋领域ESG评估研究，搭建海洋治理技术研发、政策落地与国际合作桥梁，为国家战略、地方发展和全球海洋治理提供支撑。

FISO is a core pillar of the Sustainable Ocean Hub. It focuses on translating marine science into policy, standards, and services, bridging marine governance technology development, policy implementation, and international cooperation. Its work centers on intelligent marine decision-support systems, capacity databases for sustainable coastal management, and ESG frameworks for the marine sector, providing interdisciplinary solutions to support national strategies, regional development, and global ocean governance.

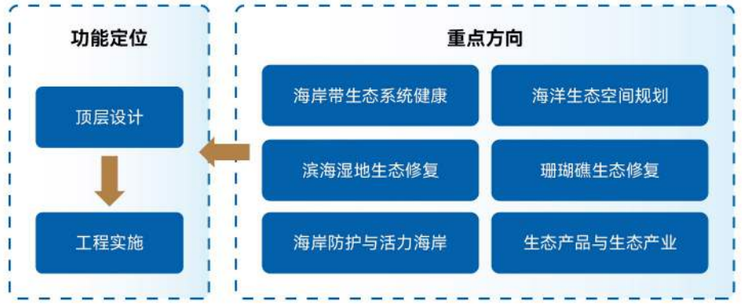
*平移支柱：依托原单位建设基础和深厚积淀，借助鹭江创新实验室体制机制优势，开展不重复、有增量的研究，实现价值提升和加速成果转化。

◉ 海洋生态保护与修复工程中心

Marine Ecosystem Conservation and Restoration Center

中心聚焦海岸带生态系统健康、海洋生态空间规划、滨海湿地生态修复、珊瑚礁生态修复及海岸防护和活力海岸建设等方向，开展关键技术攻关，探索生态保护修复与生态产业融合发展，为海洋生态保护修复顶层设计、生态治理和修复工程实施提供技术支撑。

The center conducts key technology research with focus on coastal ecosystem health, marine ecological spatial planning, coastal wetland restoration, coral reef restoration, as well as coastal protection and living shore construction. It promotes the integrated development of ecological restoration and ecological industries, and provides technical services to support top-level planning and design, ecological governance, and the implementation of marine ecological protection and restoration projects in Fujian Province and across China.



◉ 气候海洋协同创新中心

Climate-Ocean Nexus Innovation Center

中心聚焦蓝碳资源开发、CCUS 项目开发、碳核算及气候物理风险评估等方向，遵循四大核心原则，打通蓝碳科学到商业价值闭环，助力海洋经济低碳转型，致力于打造国际一流的蓝碳与气候海洋金融综合服务商及高端智库。

The center is committed to building a world-class comprehensive service provider and high-end think tank for blue carbon and climate-ocean finance. Focusing on blue carbon resource development, CCUS project development, carbon accounting, and climate physical risk assessment, it connects the closed loop from blue carbon science to commercial value and facilitates the low-carbon transformation of the marine economy.

从蓝碳科学到商业价值

硬核突破：突破关键核心技术，储备高价值转化项目
Cutting-edge Breakthroughs

海洋观探测技术突破
Advanced Marine Observation Breakthroughs

1. 创新高精度近岸大气校正算法ACA-SIM
李忠平教授团队

聚焦核心水色参数反演，创新性提出基于人工智能的近岸大气校正方案ACA-SIM，有效克服高度浑浊水体、强吸收性气溶胶以及传感器噪声影等瓶颈，实现了近岸水域复杂大气-水体条件下的高精度大气校正。该方法整体性能显著优于NASA标准算法及同类方案，尤其在蓝光波段，将平均绝对百分比误差从约35%降至约15%，提升了我国近海遥感数据的自主处理精度与可靠性。

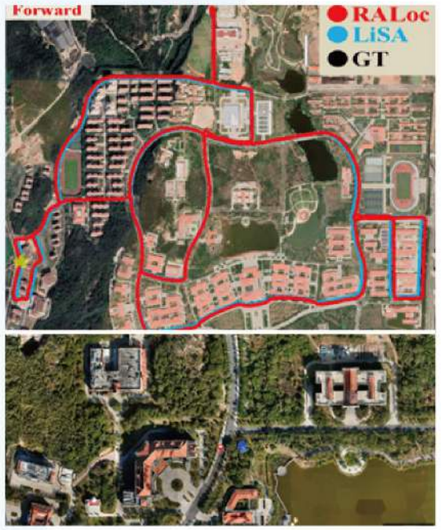
High-Precision Coastal Atmospheric Correction Algorithm (ACA-SIM)
R&D Team: Professor Zhongping Lee
Focusing on core water color parameter inversion, this study proposes an AI-based coastal atmospheric correction scheme (ACA-SIM), effectively overcoming bottlenecks such as highly turbid waters, strong absorbing aerosols, and sensor noise. The method achieves high-precision correction under complex coastal atmospheric-water conditions, outperforming NASA standard algorithms and existing solutions by reducing mean absolute percentage error (MAPE) in blue spectral bands from ~35% to ~15%.

基于星-地数据匹配的大气校正算法（ACA-SIM）显著提升水色卫星数据产品质量

2.建立不依赖卫星的激光雷达视觉定位模型
王程教授团队

聚焦激光雷达三维视觉与空间智能方面研究，针对GNSS拒止情况下移动平台的定位需求，创新性提出基于端到端的激光雷达视觉定位导航模型，可实现复杂环境下稳定实时定位能力。定位导航模块具备全天时工作能力，支持快速拆装，实时当前位置显示。该模块已在多地完成了实测和验证，定位范围达百公里，定位精度指标先进，目前正在推广应用中。

Develop a satellite-independent LiDAR-vision-based positioning model
R&D Team: Professor Cheng Wang
Focusing on LiDAR-based 3D vision and spatial intelligence, this study innovatively proposes an end-to-end LiDAR-vision positioning and navigation model tailored for mobile platforms in GNSS-denied environments. Validated through field tests in multiple locations, the module achieves a positioning range of hundreds of kilometers with state-of-the-art accuracy metrics.

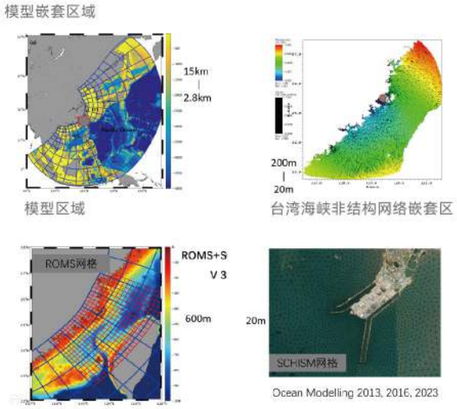


厦门大学校区实测和验证

3.建立中国近海高精度温盐流业务化系统
江毓武教授团队

成功建立台湾海峡三维温盐流、海浪耦合预报ROMS+Schism嵌套模型（第三代覆西北太平洋区），较第一代POM模型和第二代ROMS模型，可同化海表高度、海表温度及地波雷达海流，在福建沿岸实现了达到高达十米的精细业务化预报。结合精细化三维模型轨迹预报结果，在全省范围内率先实现了海漂垃圾漂移轨迹的日常预测。

Development of a High-Resolution Operational Temperature-Salinity-Current System for China's Coastal Area
R&D Team: Professor Yuwu Jiang
Successfully established a 3D temperature-salinity-current (TSC) and wave-coupled forecasting system (ROMS+Schism nested model, Generation III covering the Northwest Pacific). Compared to the first-generation POM model and second-generation ROMS model, this system assimilates sea surface height, sea surface temperature, and HF radar-derived currents, achieving sub-10-meter resolution operational forecasts along Fujian's coast. Combined with refined 3D model trajectory forecasts, it pioneered daily prediction of marine debris drift trajectories across the province.



4.研发小目标高精度定位与交互操作算法
温程璐教授团队

聚焦三维视觉与具身智能方面研究，面向国家重要工程应用需求，研发面向空间精细操作的三维目标感知与交互操作算法。成功在小型操作臂和大型装载装备上完成小目标高精定位和操作验证，目标三维定位精度达到毫米级。实现端到端视觉-语言-动作VLA模型的国产端侧计算平台部署和操作，指导学生获挑战杯人工智能专项赛全国特等奖。

Development of High-Precision Localization and Interactive Manipulation Algorithms for Small Targets
R&D Team: Professor Chenglu Wen
Targeting national engineering demands, 3D perception and interactive manipulation algorithms were developed for precision tasks. Validated on small-scale robotic arms and large-scale equipment, these algorithms achieve millimeter-level 3D localization and manipulation of small targets. End-to-end deployment of a Vision-Language-Action (VLA) model on domestic edge platforms was achieved. Guided students to the National Grand Prize in the Challenge Cup AI Special Competition.


小目标高精定位和操作验证

5.突破海-空跨域立体通信与信息智能处理技术
袁飞教授团队

技术突破：
针对日益增长的水下探测需求与有限传输能力之间的矛盾，团队创新性提出“以算力换能力”的新一代“数智”通信新方法，基于仿生视觉与语义驱动，有限度地突破香农信息论约束，实现高压缩率（1000:1）、高误码率（10^{-1}—10^{-2}）情况下的鲁棒且高效水下图像通信，同等重构成功率下的通信容错力相比传统方案提升1-2个数量级。
产业化前景：
已在海洋牧场、水库生态监测等多个场景完成理论仿真与海测验证，可为水下航行器、水下机器人等水下画面传输提供通信技术保障支持。


海上-水下综合态势感知与智能计算

Mastering Maritime-Air Cross-Domain Integrated Communication and Intelligent Information Processing Technology
R&D Team: Professor Fei Yuan
Proposed “computing power for capability”- a bionic vision and semantic-driven communication methodology – overcoming Shannon theory limits. Achieves robust underwater image transmission at 1000:1 compression ratio and 10^{-1} –10^{-2} bit error rates, enhancing fault tolerance by 1–2 orders of magnitude while maintaining equivalent reconstruction fidelity. Validated via sea trials in marine ranching and reservoir monitoring, enabling reliable image transmission for underwater vehicles and submersibles.

◉ 海洋高端装备研制
Development of High-end Marine Equipment

1. 研制国际首款水下单光子剖面探测激光雷达
上官明佳教授团队

技术突破：
团队系统突破了量子单光子技术在深海极端环境下工程化应用的关键瓶颈，解决了海洋水体剖面多生态参数难以同步获取的技术难题，成功研制国际首款水下单光子激光雷达，实现叶绿素、水下目标、浮游生物及底质等多参数的水体剖面同步反演，并完成水下千米级部署验证。研究成果被美国光学学会(Optica)和美国科学促进会(AAAS)专题报道，并荣获 Applied Optics 最佳论文奖。
产业化前景：
设备已通过多场景验证，并可灵活搭载于 AUV、ROV 等多类水下平台，实现水体叶绿素浓度、底质类型及水下小目标三维成像等参数的同步获取，支撑海洋与近岸环境的多参数探测与数据分析。

工作水深	雷达通道	探测参数
0.2 km	米-拉曼	生物光学剖面等
1 km	米-荧光	浮游植物剖面等
2 km	拉曼光谱	锰结核\冷泉等
3 km	荧光光谱	底质\生物等
5 km	偏振	颗粒物分布等
8 km	成像	军事目标\珊瑚等

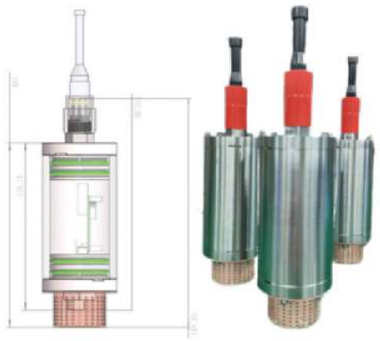
深海量子雷达系列

Development of the World’s First Underwater Single-Photon Profiling LiDAR
R&D Team: Professor Mingjia Shangguan
Overcame key bottlenecks in quantum single-photon LiDAR for deep-sea multi-parameter profiling, enabling synchronized inversion of chlorophyll, plankton, targets, and seabed properties. World’s first underwater single-photon LiDAR validated across diverse scenarios and AUV/ROV platforms, featured in Optica/AAAS, and awarded Applied Optics Best Paper. Supports real-time 3D seabed mapping and multi-parameter sensing for oceanic/coastal environmental analysis.

2.研制国际首款4000 m级pH传感器
马剑教授团队

技术突破：
成功研制基于ISFET芯片的海水pH传感器，测定范围宽6.5–9.0，准确度±0.04，精密度0.004，功耗低于0.5W，具备小型化、低功耗、高稳定性、测定速度快、操作简便等特点；已完成80MPa打压实验与4000m海试验证，性能稳定，满足全海深pH原位高精度测定需求。
产业化前景：
完成搭载浮标、水质多参数平台、Argo、水下滑翔机等多种海洋观测平台及场景测试，性能指标达到工程化要求，具备小批量试制能力，已获首批百万元订单，预计三年国内市场占有率突破20%。

Development of the first 4000-meter depth-rated pH sensor
R&D Team: Professor Jian Ma
Developed an ISFET-based seawater pH sensor (6.5–9.0 range, ±0.04 accuracy) validated at 4,000 m depth and 80 MPa pressure. Integrated across buoys, Argo floats, and underwater gliders for real-time full-ocean in-situ monitoring. Meets engineering standards for high-precision deep-sea pH sensing. Secured RMB 1 million in commercial orders, enabling scalable deployment for oceanographic applications.


μSEA-pH设计图与实物图

3.突破原位海水总碱度测定仪器研制关键技术
李权龙教授团队

技术突破：
团队基于单点滴定-分光光度法测定pH的原理，采用环流分析流路以及独创的在线二氧化碳去除器，实现单点滴定的自动化，成功研制具有自主知识产权的原位海水总碱度测定仪；仪器精密度达到±1 μmol/kg，具备标样在线校正功能，是目前性能最为先进原位海水总碱度测量仪。
产业化前景：
通过标准化过程，建立了仪器生产工艺和检验流程，实现小批量制造，在中科院等多家单位应用，获得德国GEOMAR采购订单，并通过EMC认证。

Key technical Breakthrough in developing an in-situ seawater total alkalinity analyzer.
R&D Team: Professor Quanlong Li
Developed an in-situ seawater total alkalinity analyzer using single-point titration with spectrophotometric pH determination. Integrated loop flow analysis and CO_2 removal enable full automation, achieving ±1 μmol/kg precision with onboard calibration. Validated for oceanographic use, it has been deployed by CAS and procured by GEOMAR (Germany). The instrument meets full manufacturing standards for small-scale production and holds EMC certification for operational reliability.


原位海水总碱度测定仪及仪器海上测试

海水绿色养殖与新型生物制品研发
Marine Breeding & Sustainable Aquaculture

1. 创制日本囊对虾“闽海2号”新品系及高效养殖模式
毛勇正高级工程师团队

技术突破：
以耐高温性状为核心选育目标，配套创建基于心率与运动行为的智能表型筛选技术，研发日本对虾40KSNP液相基因芯片“鹭江芯1号”，采用BLUP家系育种值评价技术，成功培育出日本对虾耐高温新品系“闽海2号”；新品系较对照组生长速度增加11.94%，高温临界值CTmax提升3.6℃，养殖单产达2.1kg/m²。同步突破日本对虾对底质的依赖，研发了高效无沙养殖技术体系，实现了“良种+良法”的融合。
产业化前景：
作为南美白对虾的重要替代者之一，日本对虾有望快速扩大产业规模，发展成为我国活虾消费市场的主力品种，已吸引企业投资并开展商业化推广。


日本囊对虾“闽海2号”新品系

Breakthroughs in the New Strain "Minhai No.2" of Kuruma shrimp (*Penaeus japonicus*) and Its High-Efficiency Farming Model
R&D Team: Professor Yong Mao
Developed a heat-tolerant *P. japonicus* strain ("Minhai No.2") via intelligent phenotyping and 40K SNP chip "Lujiangxin No.1," achieving 11.94% higher growth, 3.6°C higher CTmax, and 2.1 kg/m² yield. Overcame sediment dependency with a sand-free aquaculture system, enabling "superior strain + optimized technique" integration. Validated in commercial-scale trials, the strain surpasses whiteleg shrimp in thermal resilience and has secured enterprise investment for rapid market expansion in China's live shrimp industry.


“鹭江芯1号”对虾育种核心工具

2. 突破鲍鱼珍珠培育技术
柯才焕教授、游伟伟教授团队

技术突破：
采用团队培育的国审水产新品种绿盘鲍作为育珠母贝，成功培育出国内首批鲍鱼珍珠7000多粒，成珠率达到85%，鲍鱼珍珠呈美丽的蓝绿色，并有丰富的炫彩。鲍鱼珍珠的育成，标志着我国鲍珠培育取得了重大突破，将有效提升鲍鱼养殖的综合效益，促进我国鲍鱼产业的高质量发展，同时为国内珠宝行业增添一个新的品类。
产业化前景：
海水珍珠具有天然的稀缺性，特别是鲍鱼珍珠，因其具有特殊光泽，市场价格是普通海水珍珠的2倍以上且供不应求，具有极佳的市场前景。


鲍鱼珍珠

Abalone Pearl Cultivation Technology
R&D Team: Professor Caihuan Ke & Professor Weiwei You
Pioneered China's first 7,000+ sapphire-blue emerald-green abalone pearls (85% formation rate) using nationally certified Lvpan Abalone. These rare pearls command >100% market premium over standard pearls, boosting aquaculture value and introducing a new luxury category to global jewelry.

3. 攻克溏心鲍鱼加工工艺
柯才焕教授、游伟伟教授团队

技术突破：
采用团队自主培育的绿盘鲍和经选育的皱纹盘鲍为原料，成功建立“品种+工艺”的二元化优质干制溏心鲍鱼加工技术；初步形成媲美“日本吉品干鲍”的国产溏心干鲍核心关键工艺，现已批量生产出优质溏心干鲍。
产业化前景：
溏心干鲍制作工序复杂，具有“一年陈、三年香、五年醇”的独特风味，获得烹饪美食界认可，并推向市场。


溏心干鲍

"Tangxin" Abalone Processing Technology
R&D Team: Professor Caihuan Ke & Professor Weiwei You
Using proprietary Lvpan Abalone and elite Haliotis discus hannai strains, the team developed a dual-core "breeding-process" technology for premium Tangxin dried abalone. Achieving core processes rivaling Japanese "Kippon" dried abalone, mass production of high-quality batches has been realized. With a complex production process yielding a distinctive "tender in one year, aromatic in three years, and sublime in five years." , it has gained acclaim from culinary experts and entered gourmet markets.

4. 大黄鱼种质创新与良种培育
徐鹏教授团队

技术突破：
成功构建大黄鱼种质遗传鉴定技术体系，研发基于“宁芯”系列育种芯片的大黄鱼复杂性状基因组选择育种技术，达成高准确性、高通量、低成本的海量SNP检测；成功培育出大黄鱼抗刺激隐核虫新品系“宁抗1号”、抗假单胞菌新品系“宁抗2号”、高饲料利用效率新品系以及抗流新品系等优良品种。
产业化前景：
构建“育繁推”一体化的种业体系，推动了“富发1号”良种的产业化应用，该良种已在宁德市富发水产有限公司等单位得到应用。


抗刺激隐核虫“宁抗1号”

Germplasm innovation and improved variety breeding of large yellow croaker
R&D Team: Professor Peng Xu
Developed genomic selection breeding technology using "Ningxin" chips for large yellow croaker, enabling high-accuracy SNP detection and breeding multiple superior strains, including Cryptocaryon-resistant "Ningkang No. 1" and high-feed-efficiency lines. Established integrated "breeding-propagation-extension" system, commercializing "Fufa No. 1" strain with Ningde Fufa Aquatic Products.

5.抗病原弧菌的海洋动物新型抗菌肽
王克坚教授团队

技术突破:
已成功筛选获得多种抗对虾病原弧菌的海洋动物新型抗菌肽，所研发的抗弧肽产品可有效抑制副溶血弧菌、哈维氏弧菌、溶藻弧菌、创伤弧菌等多种常见水产致病性弧菌，对对虾弧菌病、刺参腐皮综合征等具有显著的防治效果。该技术已突破抗弧肽高效表达的发酵瓶颈，表达量每升可达到克级。目前相关专利已转让给企业并开展示范应用。
产业化前景:
已有1件专利在企业转化，并建立生产线并进行示范应用；可替代抗生素应用于养殖业、动保产品等，对鱼类、刺参、对虾等多种弧菌病的精准防控。

Development of Novel Marine Animal Antimicrobial Peptides Against Pathogenic Vibrio
R&D Team: Professor Kejian Wang
Developed marine-derived antimicrobial peptides effective against key aquaculture pathogens (*V. parahaemolyticus, V. harveyi,* etc.), overcoming fermentation bottlenecks to achieve gram-per-liter expression. The anti-Vibrio product prevents shrimp vibriosis and sea cucumber ulcers. Patents transferred to industry partners with pilot-scale trials underway.

海洋动物抗弧肽

6.海洋分散型微针及其关联技术
陈铭教授团队

技术突破
首创蜂海绵骨针微通道高效构建技术，利用天然骨针独特力学特性解决透皮效率瓶颈，实现>10,000个/平方厘米微通道的皮肤穿透密度，提升皮肤通透性5倍以上，为透皮给药建立全新物理路径。攻克亲水分子在任意面积任意部位经皮吸收的世界性难题，开发亲水性功能分子皮肤递送系统，提升分子量≤2000 Da的亲水性药物在皮肤深层递送效率，药物吸收量提升5倍以上。
产业化前景:
已建设一条蜂海绵骨针医疗器械产品生产线，产能粉末产品3KG/每批次，凝胶产10KG/每批次；超5项技术转化或转让，年度融资近500万，具备持续拓展能力。

Discrete Microneedles and Related Technologies
R&D Team: Professor Ming Chen
Pioneered a high-efficiency technology for constructing Sponge *Haliclona sp.* Spicules(SHS). By leveraging the unique mechanical properties of natural spicules, the technology significantly enhances skin permeability—increasing penetration efficiency by over fivefold—and enables efficient transdermal delivery of hydrophilic molecules across different body areas. The resulting delivery system markedly improves deep-skin absorption of hydrophilic drugs with molecular weights of ≤ 2000 Da, increasing drug absorption by more than 5 times.
A production line for SHS medical device products has been established, with a capacity of 3 kg of powder products per batch and 10 kg of gel products per batch. More than 5 technologies have been transformed or transferred. The team has secured nearly 5 million in annual financing and possesses the capability for continuous expansion.

"Fronall"产品系列

国家自然科学基金重大研究计划“海岸带复杂系统演变与临界过程”启动
The NSFC Major Research Program "Evolution and Tipping Dynamics of Complex Coastal Zone Systems (E-Tides)" was launched

国家自然科学基金“海岸带复杂系统演变与临界过程”重大研究计划围绕海岸带复杂系统临界动力学这一核心科学问题，聚焦我国环渤海经济区、长三角经济圈、台湾海峡经济区及粤港澳大湾区四大关键海岸带区域，重点研究海岸带物理结构演变和关键生物地球化学循环的协同演化与耦合机制，旨在构建多源融合数据产品与高精度区域地球系统模式，发展数字孪生海岸带系统，以期在系统演变与临界过程认知上取得原创突破，并构建跨学科基础研究网络，为海岸带可持续管理提供理论与技术支撑。
实验室首席科学家担任该计划的指导专家组组长。

The "E-Tides" Program investigates the critical dynamics of coastal systems under combined human and climate pressures. Focusing on four representative regions of China, the project integrates multi-source observations, high-resolution Earth system models, and coastal digital twins to detect early warning signals, quantify tipping thresholds, and project multi-scale futures. The outcomes will support development pathways that balance ecological security with socio-economic sustainability.

竞争性科研项目申报“开门红”
Strong Start in Competitive Research Project Funding

实验室在首批纵向项目竞争中，共有**4项获得“福建省促进海洋与渔业产业高质量发展专项资金”立项**，项目总经费 1273万元，聚焦水产良种、病害防控、智慧养殖等关键技术领域。

In the first round of competitive vertical project funding, the laboratory has secured four projects under the "Special Fund for Promoting High-Quality Development of the Marine and Fishery Industries in Fujian Province." The total funding amounts to 12.73 million RMB. These projects focus on key technological areas, including improved aquaculture varieties, disease prevention and control, and intelligent aquaculture systems.

项目名称	负责人	资助总额（万元）
高食物转化率皱纹盘鲍新品系的培育	游伟伟	330
日本囊对虾"闽海2号"良种培育和高效养殖技术研发与产业化应用	毛勇	444
高效抗对虾弧菌病的海洋动物新型抗菌肽产品的研发与应用	陈芳奕	233
三沙湾智慧养殖数字孪生系统研发与应用示范	陈能汪	266

产业转化：深化龙头企业合作，构建区域产业生态
Entrepreneurship

标杆项目落地
Flagship Projects Established

江苏亨通集团已在厦门注册子公司，首期注册资金5000万元，规划用地约100亩，以打造海洋观测装备与水下机器人现代化制造基地为愿景。双方将共建“鹭江亨通产业创新中心”及“水下特种机器人产业研究院”，拟打造成为“科技+产业+地方经济”融合创新的典范。

Hengtong Group Co., Ltd has registered a subsidiary in Xiamen with an initial registered capital of 50 million RMB and a planned land area of approximately 67,000 m². The project aims to develop a modern manufacturing base for marine observation equipment and underwater robotics. Fujian-OI and Hengtong will jointly establish an Innovation Center and an Institute of Underwater Special Robotics, aiming to serve as a model for the integrated development of technology, industry, and the local economy.

深圳市朗诚科技股份有限公司已在厦门注册子公司，团队入驻实验室欧厝基地联合办公，并联合申报项目。

Shenzhen LightSun Technology Co., Ltd. has registered a subsidiary in Xiamen, with its team co-located at the laboratory to support joint operations and collaborative project applications.

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深度协同推进
Advancing Cross-sectoral Cooperation

与中石化上海工程有限公司签署战略协议，组建联合工作组，重点推动油泥处理、蓝碳增汇、微生物降解等5个具体项目的落地。

A strategic cooperation MoU has also been signed with SINOPEC Shanghai Engineering Co., Ltd., establishing a joint working group to advance the implementation of five targeted projects focused on oil sludge treatment, blue carbon enhancement, and microbial degradation.

与福建福光科技集团有限公司围绕智能光电监测达成合作意向，正在推进联合产业研究院及合资公司落地。

A strategic cooperation MoU has been signed with Fujian Fuguang Technology Group Co., Ltd., focusing on intelligent photoelectric monitoring. Preparations are underway to establish an industrial research institute and a joint venture company.

与福建克里贝尔生物技术有限公司共建的“抗菌肽联合研发中心”首期资金已到位，加速海洋活性物质在健康领域的应用转化。

In collaboration with Fujian ClinBio Biotechnology Co., Ltd., an agreement has been signed. The “Antimicrobial Peptide Joint R&D Center” has been established with initial funding secured, accelerating the application and commercialization of marine bioactive substances in the health sector.

新兴合作拓展
Expanding Emerging Partnership

深海生物制造产业创新中心正式启动并实现首批重点企业集中签约，南宁汉和生物科技股份有限公司、生合万物（上海）生物科技有限公司、绵阳禾本生物工程有限公司、元之道生物科技有限公司等四家企业成为首批共建伙伴。此次签约标志着深海生物制造领域产学研用的深度融合正式落地。

The Deep Sea Bio-Manufacturing Industrial Innovation Center was officially launched, with the first group of leading enterprises signing collective cooperation agreements. Four companies — Nanning Harworld Biological Techology Corp., GsynBioT (Shanghai) Co., Ltd., Mianyang Habio Bioengineering Co., Ltd., and Xiamen Yuanzhidao Biotechnology Co., Ltd. — became the initial partners in the initiative. The signing ceremony marked the formal implementation of deep integration across industry, academia, research, and application in the field of deep sea bio-manufacturing.

与青岛镭测创芯科技有限公司在海洋气象监测、激光雷达装备研发及产业化等方面推动产学研深度融合；与青岛国实信息科技有限公司围绕海洋数字孪生、海洋大数据和模型、数据可信空间等领域开展合作。

Collaboration has been carried out with Qingdao Leice Transient Technology Co., Ltd. in marine meteorological monitoring, LiDAR equipment R&D, and industrialization. Collaboration has been established with Gosci Information Technology Co., Ltd. in marine digital twins, marine big data and models, and trusted data spaces.

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资本赋能：链接全球资本加速科技企业成长
Capital Empowerment

中欧蓝色发展投资基金
China-EU Blue Forward Fund

11月6日
在厦门国际海洋周开幕式上，主任戴民汉系统介绍了实验室的战略布局与创新体系，展示了自2025年初成立以来在科技创新、产业协同、国际合作与交流等方面取得的阶段性成果。同时，正式发布**全球首支中欧跨国海洋基金——中欧蓝色发展投资基金。**

November 6
At the Opening Ceremony of World Ocean Week in Xiamen 2025, China-EU Blue Forward Fund was officially launched.

中欧蓝色发展投资基金由鹭江创新实验室联合法国 Seventure Partners等国内外资本机构和上市企业共同发起，首期募资规模为20亿欧元，并在此框架下设立人民币基金100亿元；启动规模为2亿欧元，对应启动人民币基金20亿元。

Jointly established by Fujian-OI and Seventure Partners (France), China-EU Blue Forward Fund targets a total scale of 2 billion EUR, including a dedicated 10 billion RMB-denominated pool. The initial funds are 200 million EUR with a corresponding 2 billion RMB fund.

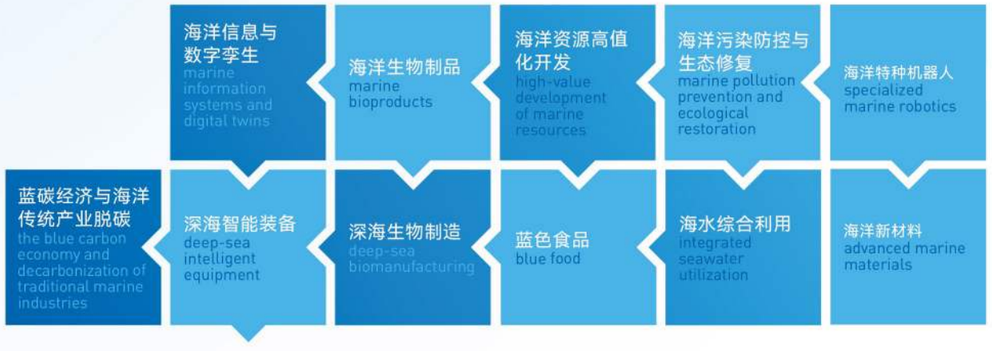
首期募资规模为
20 亿欧元

设立人民币基金
100 亿元

启动规模为
2 亿欧元

启动人民币基金
20 亿元

基金重点投向可持续蓝色经济与产业领域
The Fund invests across the sustainable blue economy value chain covering areas such as



CAPITAL EMPOWERMENT

基金旨在加速推动海洋科技成果产业化，促进中欧之间的双向技术转化与合作交流，构建可持续的国际蓝色创新合作网络，为海洋经济高质量发展注入持续资本与创新动能。

The Fund serves as a catalyst for marine innovation, bridging the gap between scientific breakthroughs and market application, as well as promotes high-level technology exchange between China and Europe.

▶ 鹭江创新实验室与法国Seventure Partners签署《中欧蓝色发展投资基金章程》

The China-EU Blue Forward Fund Cooperation Charter signed.

▶ 鹭江创新实验室与钦实集团有限公司、粤民溯锋创业投资(深圳)有限公司达成人民币基金合作

An agreement on RMB fund signed with Qinshi Group Co., Ltd. and Yuemin Sufeng Venture Capital (Shenzhen) Co., Ltd.

▶ 鹭江创新实验室与福州新投创业投资有限公司、上海久有川谷投资管理有限公司达成人民币基金合作

An agreement on RMB fund signed with Fuzhou Xintou Venture Capital Co., Ltd. and Shanghai Jiuyou Chuangu Investment Management Co., Ltd.

▶ 鹭江创新实验室与厦门创合鹭翔投资管理有限公司达成人民币基金合作

An agreement on RMB fund signed with Xiamen Chuanghe Luxiang Investment Management Co., Ltd.

与中行厦门分行达成全面战略合作

Comprehensive Strategic Partnership with Bank of China (Xiamen Branch)

7月3日 · 厦门

实验室与中国银行厦门市分行签署全面战略合作协议。双方将聚焦全周期金融支持、科技成果转化加速和开放生态共建三大领域，通过定制化金融服务、金融绿色通道和“1+N”产业基金框架，推动海洋科技创新与产业应用深度融合，共同构建“海洋-产业-金融”良性循环，为海洋经济高质量发展注入新动能。

July 3 · Xiamen

Fujian-OI and Bank of China (Xiamen Branch) signed a Comprehensive Strategic Cooperation Agreement to catalyze blue economy. Through targeted green finance and an open ecosystem approach, the partnership creates a seamless link between marine research, industrial application, and capital - driving a virtuous cycle of "ocean-industry-finance."

合作交流

Cooperation and Exchanges

政

◉ 第三届联合国海洋大会

The Third United Nations Ocean Conference

同一海洋科学大会

One Ocean Science Congress

6月3日-6日·法国尼斯

作为第三届联合国海洋大会的重要活动之一，同一海洋科学大会共有来自113个国家的2150位科学家和代表参加，共有9位杰出科学家发表了主旨报告。实验室主任戴民汉受邀做了题为“海岸带复杂系统演化与临界过程——理解并治理人类活动和气候变化双重压力下的海岸带突变”的大会主旨报告。

June 3-6 · Nice, France

Minhan Dai was honored to be invited to deliver a keynote speech titled "Evolution and Tipping Dynamics of Complex Coastal Zone Systems."

官方绿区主题边会：蓝色协同——通过跨界合作共同设计可再生蓝色经济

Official Green Zone Side Event: Blue Synergy - Co-Designing a Regenerative Blue Economy through Cross-Sector Partnerships

6月9日 · 法国尼斯

由鹭江创新实验室、厦门大学和中国环境与发展国际合作委员会（国合会）海洋治理专题政策研究项目组联合主办。联合国前副秘书长Erik Solheim、联合国全球契约组织海洋特别顾问Sturla Henriksen致开幕辞。通过“政产商学金”各界代表的主旨报告，活动深度锚定“可再生蓝色经济”这一核心，共同探讨如何跨界合作共同设计可再生蓝色经济。

June 9 · Nice, France

The Official Green Zone Side Event was featured with keynote presentations from policy, industry, academia, and finance. It centered on regenerative blue economy, aiming to mobilize global stakeholders in outlining pathways and collaborative models for a sustainable development.

官方蓝区主题边会：碳中和愿景下的可持续蓝色经济

Official Blue Zone Side Event: Sustainable Blue Economy in the Vision of Carbon Neutrality

6月13日 · 法国尼斯

由国合会、厦门大学、世界经济论坛等联合主办，鹭江创新实验室承办，自然资源部副部长孙书贤、联合国秘书长海洋事务特使Peter Thomson、教科文组织政府间海洋学委员会执行秘书长Vidar Helgesen以及法国总统联合国海洋大会副特使Ashok Adicéam等80余位中外嘉宾参会。会议围绕“海洋核算和蓝色金融如何助力中国实现可持续的蓝色转型”议题深入研讨，并发布《推进中国可持续蓝色经济——构建坚实的海洋核算与蓝色金融政策基础》研究报告。

June 13 · Nice, France

The Official Blue Zone Side Event convened over 80 international delegates in Nice, France, which was distinguished by the presence of high-level dignitaries. Centered on the theme “How Ocean Accounting and Blue Finance Can Support China’s Sustainable Blue Transition”, the event facilitated regiorous strategic dialogue and marked the official release of the landmark research report: *Advancing China’s Sustainable Blue Economy-Building Strong Policy Foundations for Ocean Accounting and Blue Finance.*

中国环境与发展国际合作委员会2025年会自然海洋主题论坛

CCICED 2025 Aannual General Meeting Open Forum

10月16日 · 北京

中国环境与发展国际合作委员会（以下简称“国合会”）2025年年会期间，第七届国合会海洋专题政策研究项目组联合自然专题政策研究项目组，于10月16日在北京共同举办了年会系列主题论坛——“陆海统筹，迈向人与自然和谐共生的未来”。本次论坛重点强调了自然系统与海洋在全球气候变化、生物多样性保护以及人类未来繁荣中的关键作用。围绕相关议题，与会专家从政策协同、科学保护、金融创新等多个维度提出了政策建议，呼吁推动构建“从山顶到海洋”的一体化治理格局，为全球海洋可持续发展注入新的动力。

October 16 · Beijing

During the China Council for International Cooperation on Environment and Development (CCICED) 2025 Annual General Meeting, the Special Policy Study Groups on Oceans and Nature jointly convened an Open Forum titled "Land-Sea Coordination: Toward a Future of Harmonious Coexistence Between Humans and Nature". The discussions highlighted the critical role of oceans in climate and biodiversity, advancing key policy recommendations for integrated governance, science-based protection, and financial innovation.

产

园区产融共生

Cross-sectoral Gathering at Fujian-OI

9月24日

9月24日，实验室与厦门临空经济片区指挥部联合举办创赢鹭江系列沙龙之“海洋科技产业”，36家海洋科技企业、金融机构、高校等单位的70余位代表齐聚一堂，共同开启“政产学研金”协同创新的“鹭创共赢”新篇章。

October 28–29 · Shenzhen

On September 24, co-hosted with the Xiamen Airport Economy Zone Headquarter, Fujian-OI convened over 70 leaders from 36 enterprises and universities at a marine tech salon, bridging the gap among research, industry, and capital.

学

国际大科学计划

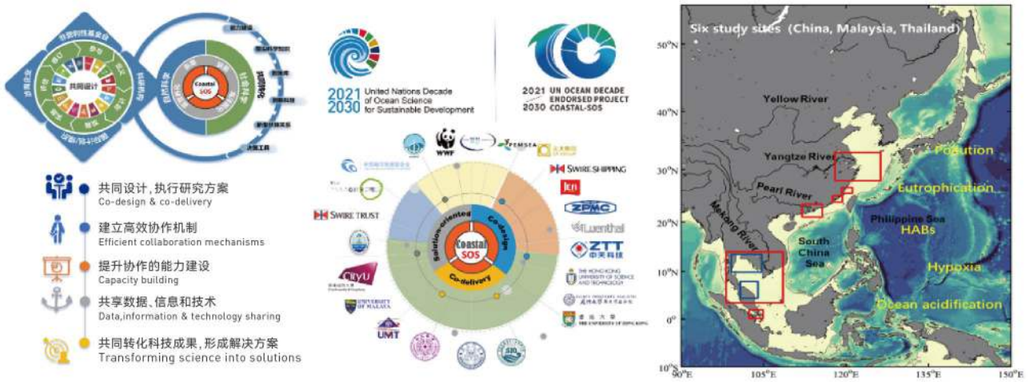
International Programs

海岸带计划

Coastal Zones Under Intensifying Human Activities and Changing Climate: A Regional Programme Integrating Science, Management and Society to Support Ocean Sustainability Program (COASTAL-SOS)

COASTAL-SOS计划，致力于应对人类活动与气候变化双重压力下的海岸带可持续发展挑战，由厦门大学讲席教授、中国科学院院士戴民汉领衔发起，鹭江创新实验室参与共同策划及执行。

Coastal-SOS is an UN Ocean Decade endorsed program. The Programme enables effecfive integration of science, governance, and society to fundamentally change the business-as-usual development model of the coastal zone.



2025年10月，实验室协办了在泰国举办的“COASTAL-SOS Thailand研讨会”。研讨会聚焦泰国湾北部富营养化与缺氧的科学问题，并开展相关调研，推动了该项目的前期启动与工作。

In October 2025, Fujian-OI co-hosted the "COASTAL-SOS Thailand Workshop," discussing eutrophication and hypoxia in the northern Gulf of Thailand.

数字孪生海洋计划

Digital Twins of the Ocean (DITTO) Program

DITTO计划由德国亥姆霍兹海洋研究中心等国际机构发起，旨在构建开放共享的全球数字框架，融合数据、模型与先进算力，赋能海洋保护、治理与可持续蓝色经济；其核心使命是凝聚共识、输出最佳实践，帮助各界开发并部署专属的数字孪生海洋。实验室柴扉教授现任该计划共同主席。

DITTO, a UN Ocean Decade endorsed program, enables users and partners to build their own digital twin of the ocean. By simulating "what if" scenarios, it supports informed decision-making for a sustainable blue economy and effective maritime spatial planning.

鹭江创新实验室海洋高等研究所国际咨询委员会首届会议暨鹭江海洋研讨会

The First Meeting of the International Advisory Committee of the Fujian-OI Advanced Institute for Marine Studies & Fujian-OI Ocean Forum 2025

11月5日 · 厦门

由鹭江创新实验室和海洋生物地球化学全国重点实验室（厦门大学）联合主办，全球7个国家、20余位顶尖海洋学者与行业领袖等近70位参会者，围绕海洋气候变化与生态系统响应、从浮游生物到蓝色科技创业等四大核心议题，呈现了23个学术报告。

November 5 · Xiamen

The forum brought together nearly 70 global experts, including 20+ distinguished scientists and industry leaders from 7 countries. The event featured 23 presentations focused on four critical themes, notably marine climate change and ecosystem response.

23个报告 | 约**70**位参会者 | 来自**15**家单位 | **7**个国家

中国海洋保护智库联盟年会2025

China Marine Protection Alliance (ChinaMPA) Annual Meeting 2025

11月5日 · 厦门

由中国海洋保护智库联盟、鹭江创新实验室、海洋生物地球化学全国重点实验室（厦门大学）联合主办，来自科研院所、高校、管理部门和社会组织的近百位代表参会。会议围绕海洋保护与可持续渔业深入研讨，发布六大“跨界协作优化行动建议”，凝聚推进协同治理的共识与行动。

November 5 · Xiamen

The annual meeting brought together nearly 100 experts from research, policy, and civil society sectors. Discussions focused on marine conservation and sustainable fisheries, culminating in the release of six "Cross-Sector Collaboration Action Recommendations" for integrated ocean governance.

全球海洋观测大会战略研讨会

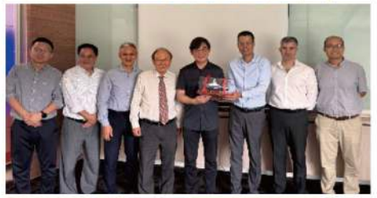
OceanObs'29 Strategic Planning Workshop

11月20-21日 · 厦门

由鹭江创新实验室主办，海洋生物地球化学全国重点实验室（厦门大学）协办，全球7个国家25位中外海洋观测领域的跨界高层次专家，深入研讨2029年全球海洋观测大会（OceanObs'29）筹办事宜，共谋全球海洋观测事业的持续发展。

November 20–21 · Xiamen

25 leading cross-disciplinary experts gathered in Xiamen, China, to coordinate the preparation for OceanObs'29 and to discuss the long-term strategies for ensuring the substainable development of global ocean observation networks.



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创新研发机构调研

Site Visits to International R&D Centers

7月 · 新加坡

实验室赴新加坡专题调研当地创新研发机构，深入了解新加坡近岸与海洋科技中心（TCOMS）作为国家级研发中心在深海模拟技术与产学研融合方面的先进模式，学习新加坡海庭集团（Seatrium）为海事与可再生能源行业提供全生命周期解决方案的行业经验，并与相关机构探讨了潜在的国际合作机会。

July · Singapore

A delegation from Fujian-OI visited Singapore to benchmark world-class R&D practices. They explored TCOMS's advanced deep-sea simulation capabilities and its integrated model for industry-led research. Additionally, meeting with Seatrium provided valuable insights into full-lifecycle solutions in maritime and renewable energy sector.

中法蓝色经济合作研讨会

China-EU Blue Economy Cooperation Workshop

6月10日 · 法国巴黎

由法国BioMarine公司主办，鹭江创新实验室、法国Seventure Partners投资公司和法国比亚里茨市政府共同协办，35位法方及中方代表参与。会议聚焦中法在蓝色金融与蓝色经济、海洋科技创新、海洋产业发展等领域的合作机遇与潜在项目，取得一系列重要合作成果：签署三份战略合作协议，共同推进筹建中欧蓝色发展投资基金、运营中欧蓝色产业加速器，商定举办中欧蓝色发展投资研讨会等具体合作项目。

June 10 · Paris, France

35 Chinese and French delegates gathered for a strategic dialogue on blue finance and innovation. The workshop resulted in three pivotal MoUs, establishing the foundation for China–EU Blue Forward Fund, the Blue Industry Accelerator, and the upcoming Blue Forward Investment Forum.

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2025年中欧蓝色发展投资研讨会

China-EU Blue Forward Investment Forum 2025

Nov. 6 - 9, 2025 · Xiamen, China

BFIF 2025

中欧蓝色发展投资研讨会

China-EU Blue Forward Investment Forum 2025

11月6-8日 · 厦门

由鹭江创新实验室联合法国BioMarine、福建省海洋与渔业局共同主办。会上详细介绍了中欧蓝色发展投资基金，签订了《中欧蓝色发展投资基金章程》，举行了人民币基金、企业战略合作协议签约。

国家绿色发展基金董事长寿伟光、法国Seventure Partners首席执行官Isabelle de Cremoux、亨通集团有限公司投资总监秦克鼎、澳大利亚技术科学与工程院院士Rob Lewis作主旨演讲。

17位来自不同领域的中欧嘉宾，围绕全球蓝色经济新浪潮、资本赋能蓝色创新与中欧金融合作等三大议题展开深度探讨与经验分享。12家中法企业逐一路演，展示其在蓝色经济核心赛道前沿技术方面的创新解决方案，并推介未来发展前景。

November 6–8 · Xiamen

A high-level forum was convened to launch the China-EU Blue Forward Fund. The event marked several milestones, including the signing of the Fund's Charter and key agreements for its RMB fund and corporate strategic partnerships. The forum featured insights from preeminent figures. In addtion to high-level keynotes, 17 experts participated in strategic dialogues on the blue economy, while 12 Chinese and European enterprises showcased innovative solutions during a competitive investment pitching session.

寿伟光 Weiguang Shou

国家绿色发展基金董事长

Chairman of the National Green Development Fund

Isabelle de Cremoux

法国Seventure Partners首席执行官

Chief Executive Officer of Seventure Partners (France)

秦克鼎 Keding Qin

亨通集团有限公司投资总监

Investment Director of Hengtong Group Co., Ltd.

Rob Lewis

澳大利亚技术科学与工程院院士

Fellow of Australian Academy of Technological Sciences and Engineering

其他合作与交流
Other exchanges

2025海上丝绸之路国际产学研用合作会议海洋科技与工程分会暨永续海洋论坛
Sub-forum on Marine Technology and Engineering & Workshop on Sustainable Oceans *cum* 2025 Maritime Silk Road International Conference on the Cooperation and Integration of Industry, Education and Application

第一届海洋物理与观测探测技术论坛
The First Marine Physics and Observational Technology Forum

第三届海洋内波与混合研讨会
The Third Symposium on Ocean Internal Waves and Mixing

首届深海生物制造与生物经济研讨会
The First Symposium on Deep-Sea Biomanufacturing and Bioeconomy

戴民汉受邀在中国海洋经济博览会上作主旨报告
Minhan Dai was invited to deliver a keynote speech at China Marine Economy Expo

柴扉受邀参加北太平洋海洋科学组织2025年会并作主旨报告
Fei Chai was invited to deliver a keynote speech at North Pacific Marine Science Organization (PICES) 2025 Annual Meeting

10月31日 A*STAR青年学者见面交流会
October 31, meeting A*STAR Young Scholars

11月1日 新加坡国立大学青年学者见面交流会
November 1, meeting Young Scholars at National University of Singapore

11月1日 南洋理工大学青年学者见面交流会
November 1, meeting Young Scholars at Nanyang Technological University

10月29日 2025年博士后八闽行活动
October 29, 2025 Postdoctoral Exchange Program in Fujian

国际人才交流
Visiting Scholars and Experts

邀请国际顶尖科学家、海洋科技创新实践者、海洋综合管理者、海洋卓越工程师等各领域高层次人才来访，通过前沿论坛报告、创新专题研讨、技能培训讲座等多种方式促进交流，构建国际人才引力场，打造海洋科技创新人才高地。

Fujian-OI invited high-level talent from various fields, including top international scientists, marine innovation practitioners, comprehensive marine managers, and outstanding marine engineers. Through diverse formats such as forum reports, innovation-themed seminars, and skills training lectures, Fujian-OI aims to promote exchange and create a highland for marine innovation talent.

VISITING SCHOLARS AND EXPERTS

Pierre Erwes
BioMarine全球组织董事长
法国
Chairman of BioMarine Global Organization
France

Jean-François Martin
创新设计思维导师
法国
Innovation Design Thinking Mentor
France

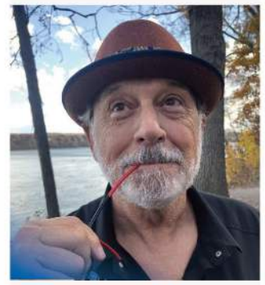
Nishan Degnarain
海洋科技创新先锋
美国
Pioneer in Marine Science and Technology Innovation
United States

Choo Yoo Sang
资深海洋工程专家、教授
新加坡国立大学
Senior Marine Engineering Expert, Professor
Singapore

Jean-Pierre Gattuso
海洋学家，欧洲科学院院士
法国
Ocean Scientist, Member of the European Academy of Sciences
France

Isabelle de Cremoux
Seventure Partners首席执行官
法国
CEO of Seventure Partners
France

Véronique Erwes
BioMarine全球组织首席执行官
法国
CEO of BioMarine Global Organization
France



Charles Trick
公共健康与社会健康领域的跨学科专家、教授
加拿大
Interdisciplinary Expert in Public Health and Social Health, Professor
Canada

Nicholas Owens
苏格兰海洋科学协会主任
英国
Director of Scottish Association for Marine Science
United Kingdom

Jürgen Kurths
物理学家、应用数学家
欧洲科学院院士
德国
Physicist, Mathematician Member of the Academia Europaea
Germany

Nicholas Rome
资深海洋项目管理者
美国
Senior Marine Project Manager
United States

Mark Wells
资深海洋学家、教授
美国
Senior Oceanographer, Professor
United States

Mark Huang
SeaAhead公司创始人兼风险合伙人
美国
Founder and Venture Partner of SeaAhead, Inc.
United States

Enrique Alvarez Fanjul
物理海洋学家
西班牙
Physical Oceanographer
Spain

Brynjar Bustnes
投资组合经理
挪威
Portfolio Manager
Norway

队伍建设

Team Development

创新体制机制
Institutional Innovation

实验室以“平等协同、共治共创、贡献为本”为核心理念，系统构建新型人事人才制度体系：坚持科学研究、技术工程、产业创新、管理服务四类人员地位平等、价值对等，打破身份壁垒，形成Peer-to-Peer的协作生态；建立以创造和贡献为导向的激励体系，薪酬分配、资源投入与成果转化收益直接挂钩，真正做到“谁创造价值，谁就享有价值”。将人才从层级束缚中解放出来，打造了一个开放、动态、自驱的海洋科技创新共同体。

Fujian-OI is advancing a novel HR governance framework to empoer high-level innovation. It features a multi-track career system and professional hierarchy, ensuring an efficient and incentivized mechanism for world-class talent to thrive.

人才为本，构筑高地
People-Centered Development: Building a High-Caliber Talent Hub

实验室有序推进“精准引才”战略，加快构建高水平人才队伍。2025年，实验室各类人员共计113人，并新获批省级博士后创新实践基地，为实验室储备高水平青年人才筑牢基础。

Fujian-OI has steadily advanced its targeted talent recruitment strategy to build a high-caliber talent pool. In 2025, Fujian-OI expanded its workforce to a total of 113 staff members and was approved to establish a provincial-level Postdoctoral Innovation Practice Base, laying a solid foundation for the cultivation of high-potential young talent.

招贤纳士，赴海加盟
Attracting Global Talent to Advance the Ocean Mission

实验室积极拓展海外人才引进渠道，在新加坡设立海外人才引进工作站，并赴当地顶尖科研机构开展青年人才专场推介活动，吸引150余位青年学者参与；同步推进澳大利亚工程院院士、中国台湾产业界精英等6位境外高层次人才的全职引进或访问合作，持续强化人才集聚力与国际影响力。

Fujian-OI has expanded its international talent recruitment channels by establishing an overseas recruitment hub in Singapore and conducting targeted outreach activities, engaging over 150 young scholars. It has also advanced full-time recruitment and visiting collaborations with six high-level overseas talents, further strengthening its global talent base and international influence.

非驻地高层次人才计划
Non-Residential Fellow Program

“非驻地高层次人才计划”是实验室面向全球涉海领域顶尖人才设立的战略性引才机制，本计划秉持“不求所有，但求所用”原则，通过“非驻地”柔性合作式，送选并集聚引领海洋科技与产业变革的高层次人才，使其在充分利用实验室平台资源的基础上，灵活持续地参与实验室前沿探索与建设发展，共同打造具有全球影响力的海洋人才高地。申请者类别包括但不限于：**自然科学家、工程师、社会科学家、经济学家、企业管理者、金融投资人、政策顾问，以及活跃于技术转化、创新设计、历史文化、海洋科普等**领域的思想引领者和资深实践者。

The Non-Residential Fellow Program is a flagship initiative designed to engage global top experts in ocean-related fields. The Program adopts a flexible, non-residential engagement model to assemble top-tier talents capable of driving breakthrougs in marine science, technology, and industry.
By leveraging Fujian-OI's robust platform, Non-Residential Fellows can contribute to frontier exploration and institutional development, collectively building a world-class hub for marine talents.
We welcome a diverse range of experts — from natural and social scientists to investors, policy advisors, and thought leaders in technology transfer and marine culture.

支持措施
Support and Incentives

科研启动支持 Research startup support	提供专项科研启动资金，实行“一人一策”精准配置，分阶段推进项目落地 We provide dedicated start-up funding to support the initiation of research projects. Funding arrangements will be tailored to each project and be allocated in stages to align with project progress.
全球化团队共建 Team building and talent development	支持组建全球联合研究团队，并在人才引进、博士后及研究生培养等方面提供制度通道。 We support the formation of international collaborative research teams and provide streamlined institutional channels for talent recruitment, as well as cultivation of postdoctoral fellows and graduate students.
平台资源共享 Shared research platforms and infrastructure	全面开放实验室核心科研基础设施及成果转化空间，打破资源壁垒，支撑前沿探索与技术验证。 The shared scientific facilities, infrastructure, and technology transfer platforms are fully accessible to fellows, which enables breaking down barriers to empower frontier innovation and technical validation.
一体化协作保障 Mobility and on-site support	提供便捷高效的差旅、驻地与生活服务支持，消除后顾之忧，确保学者能够深度融入、高效协作。 We support short-term visits and on-site research activities in Xiamen, including travel arrangements and living allowances in accordance with institutional standards, enabling flexible and sustained collaboration.
价值激励机制 Recognition and incentives	通过聘任认可、人才计划推荐、成果绩效联动等方式，共享创新红利，实现个人成长与实验室发展的同频共振。 Through formal appointment recognition, recommendations for prestigious talent programs, etc., we ensure that fellows' individual professional growth resonates with Fujian-OI's long-term development.

访问学者计划
Visiting Scholar Program

“访问学者计划”是实验室面向全球涉海领域优秀研发及创新人员设立的短期驻地科研交流项目。本计划以“实地驻留、协同创新”模式为核心，汇聚国内外优质人才、加强全球创新合作，通过1-6月的驻地工作，推动实验室四大海洋枢纽聚焦领域的前沿突破拓展国际化研发及创新合作网络，助力实验室打造全球人才聚集的新高地。

申请条件：
1. 全球涉海领域高校、科研院所或企业研发、创新人员、工程技术人员；
2. 已明确一名实验室固定科研成员（PI）或工程技术人员作为驻留期间固定合作伙伴，并获其书面同意

The Visiting Scholar Program is a short-term, residential research exchange initiative established by Fujian-OI for outstanding R&D and innovation professionals in ocean-related fields worldwide. Centered on the model of on-site residency and collaborative innovation, the Program brings together top talents from home and abroad and strengthens global innovation collaboration through residency periods of 1 to 6 months.
Through on-site engagement, the Program advances frontier research in Fujian-OI's key marine focus areas, expands international R&D and innovation networks, and supports Fujian-OI in building a globally connected hub for marine talent.

Eligibility
1. Applicants include researchers, engineers, and innovation professionals from universities, research institutions, and industry in marine-related fields worldwide.
2. Applicants are required to identify a designated Fujian-OI principal investigator (PI) or engineering professional as a host collaborator for the residency period and obtain their prior written consent.

支持措施 Support and Incentives

科研生活保障 Research and living support	根据合作深度，提供分级生活支持，让学者访学期间心无旁骛，专注投身创新研究。 We offer tiered living allowances subject to different categories, which enables visiting scholars to remain fully engaged in innovative research during visiting periods.
国际差旅与安居安排 International travel and accommodation support	承担多次往返差旅费用，并提供高品质住宿安排，助力学者便捷融入鹭江科研社区。 We are happy to cover multiple international round-trip travels, along with high-quality accommodation to support scholar's short-term visit to Fujian-OI.
一流科研条件共享 Access to world-class research facilities	全面开放实验室核心设施资源，为前沿探索提供坚实支撑。 Visiting scholars will enjoy full access to Fujian-OI's core research facilities and infrastructure, which will provide a solid foundation and strong support for frontier explorations and breakthroughs.
全链条协同服务 End-to-end coordination and services	提供一站式服务支持，涵盖签证协调、保险、成果转化、联合项目申报等关键环节，降低制度性成本，释放创新潜能。 We provide comprehensive, one-stop support throughout the visit, including visa application endorsement, insurance, joint research project application, and project entrepreneurial development. This aims to eliminate scholars' administrative burdens for unlocking their full innovative potential.

113 人员情况 Members

35 全职人员 Full-time staff members

77 双聘人员 Jointly appointed personnel

科研人员 Researcher

首席科学家 Chief Scientist

柴 扉 Fei Chai — fchai@xmu.edu.cn

研究领域：海洋科学；海洋碳循环；物理-生物地球化学模型

Research Interests: Marine Sciences;Oceanic Carbon Cycle; Physical-Biogeochemical Models

戴民汉 Minhan Dai — mdai@xmu.edu.cn

研究领域：海洋生物地球化学；海岸带可持续发展；海洋政策

Research Interests: Marine Biogeochemistry; Coastal Sustainability; Ocean Policy

李忠平 Zhongping Lee — zpli2015@xmu.edu.cn

研究领域：海洋光学；海洋遥感应用；自然水体辐射传输

Research Interests: Marine Optics; Marine Remote Sensing Applications; Radiative Transfer in Natural Waters

吕永龙 Yonglong Lu — yllu@xmu.edu.cn

研究领域：可持续生态学；环境生态学；环境地理学

Research Interests: Sustainability Ecology; Environmental Ecology; Environmental Geography

史大林 Dalin Shi — dshi@xmu.edu.cn

研究领域：痕量金属在海洋碳、氮、磷生物地球化学循环中的作用；海洋浮游植物对全球变化的生理生态响应；海洋生物固氮

Research Interests: Role of Trace Metals in Marine Biogeochemical Cycles of Carbon, Nitrogen and Phosphorus; Physiological and Ecological Response of Marine Phytoplankton to Global Change; Biological Nitrogen Fixation

领军科学家 Distinguished Scientist

曹 玲 Ling Cao — caoling@xmu.edu.cn

研究领域：渔业系统与全球变化；可持续性评估；海洋生态保护与综合管理

Research Interests: Fisheries, Aquaculture and Global Change; Sustainability Assessment; Marine Ecological Conservation and Integrated Management

曹知勉 Zhimian Cao — zmcao@xmu.edu.cn

研究领域：海洋生物地球化学；海洋碳循环；海洋硅循环

Research Interests: Nontraditional Stable Isotope Geochemistry; Ocean Carbon Cycling; Ocean Silicon Cycling

陈 彬 Bin Chen — chenbin@tio.org.cn

研究领域：海洋生态保护修复、生态系统管理

Research Interests: Marine Ecological Conservation and Restoration; Ecosystem Management

邓贤明 Xianming Deng — xmdeng@xmu.edu.cn

研究领域：化学生物学；药物化学；针对蛋白激酶和表观遗传蛋白的小分子抑制剂

Research Interests: Chemical biology; Medicinal Chemistry; Small-Molecule Inhibitors Targeting Protein Kinases and Epigenetic Proteins

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研究领域：气候变化；青藏高原气象学；海-陆-气相互作用

Research Interests: Climate Change; Tibetan Plateau Meteorology; Ocean-Land-Atmosphere Interactions

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研究领域：海洋生态系统与全球变化；近岸生态学；海洋生态学

Research Interests: Marine Ecosystems and Global Changes; Coastal Ecology; Marine Ecology

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研究领域：水产生物遗传育种学；贝类遗传育种；海水养殖技术

Research Interests: Marine Shellfish Genetics and Breeding; Mariculture Technology

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研究领域：海洋动力学、海洋湍流与混合

Research Interests: Ocean Dynamics; Ocean Turbulence and Mixing

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研究领域：海洋环境监测技术，海洋环境数值预报技术，海洋信息技术

Research Interests: Marine Environmental Monitoring Technology; Marine Environmental Numerical Prediction Technology; Marine Information Technology

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研究领域：蓝色经济；环境政策；低碳转型

Research Interests: Blue Economy; Environmental Policy; Low-Carbon Transition

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研究领域：海洋生物学；生物化学；生物工程

Research Interests: Marine Biology; Biochemistry; Biotechnology

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Research Interests: Spatial Intelligence; 3D Vision; LiDAR Data Processing; Intelligent Processing of Remote Sensing Data

领军科学家 Distinguished Scientist

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研究领域：海洋环境与生态组学；海洋浮游生物多样性与全球变化；海洋分子生物地球化学与分子生态学等研究

Research Interests: Marine Environmental and Ecological Omics; Marine Plankton Biodiversity and Global Change; Marine molecular Biogeochemistry and Molecular Ecology

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研究领域：海洋生物技术；海洋生物分子生物学与基因工程；海洋动物抗菌肽

Research Interests: Marine Biotechnology; Marine Molecular Biology and Genetic Engineering; Antimicrobial Peptides in Marine Animals

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研究领域：鱼类基因组资源开发；经济鱼类的基因组辅助选育；种群遗传学和进化基因组学

Research Interests: Fish Genomics and Genetics; Genome-assisted Breeding and Selection; Population Genetics and Evolution Genomics

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Research Interests: Ocean Dynamics and Numerical Modeling; Coastal Ocean Prediction and Applications

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Research Interests: Sustainable Development of Oceans and Coastal Zones; Integrated Management of Oceans and Coastal Zones; Assessment of Ocean Carbon Sinks and Ecological Security

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研究领域：微生物海洋学；海洋微生物生态学；碳循环；氮循环

Research Interests: Microbial Oceanography; Marine Microbial Ecology; Carbon Cycle; Nitrogen Cycle

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Research Interests: Maritime History; History of Southeast Asia; History of Sino-Foreign Relations

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研究领域：海洋生物医学材料；经皮给药技术；海洋生物制药

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Research Interests: Marine Biotechnology; Settlement Mechanisms of Marine Fouling Organisms; Environmentally Friendly Marine Antifouling Technology

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Research Interests: Marine carbon storage; Bubble Acoustics; Underwater Acoustic Communication

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Research Interests: Sea Level Change; Decadal Climate Variability; Southern Ocean Dynamics

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研究领域：海洋环境原位分析仪器；营养盐、碳酸盐参数、重金属现场分析技术；流动分析与自动化仪器

Research Interests: In situ Marine and Environmental Sensor and Analyzer; In-field Nutrients, Carbonate Parameters and Metals Measurement; Flow Analysis and Automatic Instrumentation

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Research Interests: Renewable Energy-Driven Efficient Utilization of Carbon Resource; Marine CO_2 Capture and Utilization; Electroreduction of CO_2 to High-value Chemicals

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研究领域：贝类基因组学与遗传育种，海洋贝类对全球变化的响应

Research Interests: Genomics and Genetic Breeding on Shellfish; Adaptation Mechanism for Shellfish Aquaculture to Multiple Climate Change Stressors

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Research Interests: Industry Applications of Next-Generation Information Technologies; Marine and Underwater Information Sensing and Processing; Cross-Domain Intelligent Communication and Networking between Maritime and Aerial Domains

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Research Interests: Monitoring System Construction for Blue Carbon Ecosystems Such as Mangroves; Development of Blue Carbon Monitoring and Accounting Methodologies

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Research Interests: Systematics and Evolutionary Biology in Marine Fish; Marine Resources and Conservation; Reproductive Biology in Fish

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Research Interests: Numerical Modeling; Coastal Dynamic Processes; Physical-biological Coupled Pocesse

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Research Interests: Environmental chemistry; Development of Monitoring Instrumentation and Sensing Devices; Novel Methodologies for Sample Pretreatment

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研究领域：河口-大洋连续体天然和人造有机物的生物地球化学循环；溶解有机物在珠江口-南海-西北太平洋的来源、传输通量、微生物转化过程和机制，及其对上层海洋营养盐循环的影响；新兴有机污染物的高分辨率质谱解析及其河口环境行为

Research Interests: Biogeochemical Cycles of Organic Matter; Sources, Transport, and Transformation Mechanisms of Dissolved Organic Matter; Environmental Behavior of Organic Pollutants in Estuarine Systems

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Research Interests: Seaweed Genetics; Seaweed Breeding; Seaweed Biodiversity

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Research Interests: Marine Ecosystem Dynamics; Carbon Cycle and Climate Change; Coupled Physical–Biogeochemical–Ecosystem Modeling

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Research Interests: Molecular Toxicology; Environmental Epidemiology; Environmental Reproductive and Developmental Health

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研究领域：海洋生物技术，海洋能源微藻，海洋功能基因，海洋生物活性物质，海洋防污损材料

Research Interests:Marine Biotechnology, Marine Microalgae Energy, Marine Functional Genes, Marine Bioactive Substances, Marine Antifouling Materials.

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研究领域：水声通信及组网技术；人工智能算法在水声网络中的应用；水声目标智能探测

Research Interests: Underwater Acoustic Communications and Networking Technology; Application of AI Algorithm in Underwater Acoustic Networks; Intelligent Detection of Underwater Acoustic Targets

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研究领域：全球变化与藻华；藻类驱动的CO2捕集利用与封存；藻类的恢复与进化

Research Interests: Global Change and Algal Blooms; Algae-driven Carbon Capture Utilisation and Storage; Algal Resillence and Evolution

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研究领域：卫星遥感技术与应用；海洋遥感，SAR成像处理

Research Interests: Satellite Remote Sensing Technology and Applications;Ocean Remote Sensing; SAR Image Processing

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Research Interests: Intelligent Sensing and Trustworthy Decision-Making for Nearshore Aquaculture Environments; Data-Intelligent Algorithms; Automated Aquaculture Equipment

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研究领域：应用海洋化学；海洋二氧化碳移除；海洋碱度增强
Research Interests: Applied Marine Biogeochemistry; Marine Carbon Dioxide Removal; Ocean Alkalinity

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研究领域：海城耦合与韧性；生态环境遥感；空间分析
Research Interests: Coastal Urbanization and Resilience; Remote Sensing of the Environment; Spatial Analysis

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研究领域：沿岸海平面时空变化机制及动力重构；海洋中尺度-亚中尺度动力学
Research Interests: Coastal Sea Level Variability; Mechanisms and Dynamical Reconstruction; Oceanic Mesoscale/Submesoscale Dynamics

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研究领域：生物固氮；异养细菌-溶解有机物动态；病毒生态
Research Interests: Nitrogen Fixation; Dynamics of Heterotrophic Bacteria and Dissolved Organic Matter (DOM); Viral Ecology

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研究领域：海洋法；公海治理；极地治理；船舶温室气体减排；中国东南海疆海权维护
Research Interests: Law of the Sea; High Seas Governance; Polar Governance; Reduction of GHG Emissions from Ships; Maritime Rights and Interests Related Issues in East and South China Sea

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研究领域：海洋应用微生物学；水产健康养殖微生物技术；功能性饲料添加剂开发
Research Interests: Applied Marine Microbiology; Synthetic Consortium for Healthy Aquaculture; Functional Feed Additive Development

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Research Interests: Vehicle Dynamics and Control; Intelligent and Connected New Energy Vehicles; Intelligent Instruments and Equipment

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Research Interests: Air-Sea Interaction; Aerodynamics; Gas-Liquid Two-Phase Flow

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Research Interests: Wetland Ecology; Wetland Carbon Cycling; Coastal Remote Sensing

副研究员 Associate Scientist

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研究领域：非线性内波等海洋多尺度动力过程；区域环境海洋学与海洋观测及数值模拟；水下滑坡及异重流动力学
Research Interests: Multiscale Ocean Dynamics with Emphasis on Internal Waves; Observational and Numerical Studies in Regional Oceanography; Dynamics of Submarine Landslides and Density Currents

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研究领域：海洋与大气边界层湍流动力学；浪流相互作用过程；高性能数值计算
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Research Interests: Molecular Biology and Immunology of Marine Animals; Discovery, Mechanisms, and Applications of Marine-Derived Antimicrobial Peptides

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研究领域：大气海洋模拟预报模型的应用与改进；机器学习在海洋科学中的应用；数字孪生海洋技术的集成与开发
Research Interests: Application and Improvement of Atmospheric-Oceanic Simulation and Forecasting Models; Application of Machine Learning in Ocean Science; Integration and Development of the Technology for Digital Twins of the Ocean

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Research Interests: Plankton Ecology and Ecological Processes; Molecular Physiology and Ecology of Phytoplankton

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Research Interests: Molecular Biology and Molecular Ecology of Phytoplankton; Roles of Phytoplankton in Marine Carbon Sequestration; Diatom-Based Resource Utilization

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Research Interests: Integrated Air–Sea Unmanned Systems; Cross-Domain Unmanned Vehicle Technologies; Applications of Unmanned Aerial Vehicles (UAVs) in Ocean Remote Sensing

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Research Interests: Sustainable Water Treatment Technologies; Seawater Desalination and Resource Recovery; Wastewater Treatment

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Research Interests: Laser Remote Sensing; Single-photon Lidar Technology and Its Aapplications in Marine and Atmospheric Research; Marine Stereoscopic Observation Technology

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Research Interests: Marine Observation Engineer

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基础建设

Development

愿景 Vision

科学家的创新之城、创业者的生态之源、年轻人的荟萃之地
Home for Scientists Ecosystem for Entrepreneurs Hub for Youths

—— 打造一个产、学、研、创一体化发展、面向未来的现代化新园区
—— 资源开放的共享空间、创新链条的复合空间、职住平衡的混合空间
A Live-Work-Play-Innovation Ecosystem

园区规划
Campus Planning

实验室核心区是智力的汇聚中心，赋予海洋科技基因内核。以共享绿廊形成整体的空间贯通体系，串联核心区与产业区。实现科技、产业、艺术的跨界碰撞，研发、文化与创新的多元态融合；形成具有未来感、科技感的生态园区。

The core zone of Fujian-OI is the central hub of intellectual convergence, forming the genetic identity of marine technology. Connected seamlessly to the industrial sector by a shared green corridor, it serves as a meeting ground where science, industry, and art intersect, integrating R&D, culture, and innovation.

面向未来的智能、零碳、可持续园区
Smart & Green Campus

海陆融合
Sea-land Integration

突出海洋学科的特色，打造海陆空融合发展的研发创新基地

Highlight the characteristics of marine disciplines and build a research and innovation base for the development of the integration of sea, land and air.

数字孪生
Digital Twin

模拟不同情况下真实海洋的虚拟表达，控制和优化海洋探测技术

Simulate the virtual expression of the real ocean in different scenarios, control and optimize ocean exploration technology.

虚实结合
Virtual & Real

建设"Digital Fujian-OI"，将现实园区与数字大脑紧密结合

Build "Digital Fujian-OI" to realize the close integration of the reality park and the digital brain.

建设规划
Construction Planning

实验室基础建设项目位于厦门翔安区海洋高新产业技术园区内，用地面积约80亩，总建设规模约12万平方米。布局建设科学探索、技术创造、中试工程、数字服务功能平台，同时提供公共支撑硬件载体。截至12月，项目已取得立项批复，部分基坑支护及土石方工程将先行开工建设。

Located in the Marine Hi-tech Industrial Park of Xiamen Xiang'an District, Xiamen, Fujian-OI's construction project covers approximately 5.3 hectares (53,000 m²) of land, with a total planned floor area of about 120,000 m². The project is designed to establish multifunctional platforms for scientific research, technology development, pilot-scale engineering, and digital services, supported by shared infrastructure.

有思想·会呼吸·能汇聚

An architecture that thinks,breathes
and brings minds together

科学传播

Science Communication

《海洋文化十八讲》出版

Publication of *Eighteen Lectures on Ocean Culture*

《海洋文化十八讲》是厦门大学戴民汉院士领衔主编的一部海洋通识核心读本。全书立足文理融合，从海洋科学、历史人文、经济法制等多维视角系统“解剖”海洋，内容涵盖海洋的起源演化、文明驱动、全球联结及当代治理。它旨在为大学生及广大读者开启一扇全面认知海洋的窗口，培养系统的海洋素养、跨学科思维与全球视野。

"Eighteen Lectures on Ocean Culture," led by Academician Dai Minhan of Xiamen University, serves as a foundational guide to ocean literacy. Adopting an interdisciplinary lens spanning marine science, history, humanities, economics, and law, it systematically explores the ocean's origins, its role in civilization and globalization, and modern governance. It seeks to provide university students and general readers with a complete understanding of the ocean by promoting systematic ocean literacy, interdisciplinary thinking, and a global viewpoint.

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“临水而兴”中法海洋主题系列活动

Au bord de l'Eau：China-France Ocean Thematic Events

2025年6月30日，鹭江创新实验室联合厦门大学、法国驻广州总领事馆在厦门举办“临水而兴”中法海洋主题系列活动，汇集了中法两国科学家、企业家、教师、青少年等120余人参与。活动期间，法国总统联合国海洋大会副特使Ashok Adicéam与戴民汉主任深度解读了联合国海洋大会成果，同步举行了“可持续蓝色经济”圆桌对话，并发布《海洋：了解与行动》中文版手册，通过多平台直播触达公众约10万人次。活动还举办了蓝碳主题的青少年模拟联合国大会，并面向公众推出了海洋科普展。

On June 30, 2025, Fujian-OI and the French Consulate Genreal in Guangzhou convened "Au bord de l'eau – Thriving by the Water" series in Xiamen. The workshop featured keynotes from Ashok Adicéam and Minhan Dai to further promote UNOC 2025 goals. Major outputs includes the release of a Chinese edition of the handbook Ocean: Knowledge and Action, and a Youth Model United Nations Conference.

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第十四届厦门大学海洋科学开放日

The 14th Xiamen University Ocean Science Open Day

2025年11月15日，第十四届厦门大学海洋科学开放日在厦门大学翔安校区成功举办，鹭江创新实验室为联合主办单位。本届开放日集结60余个课题组、900余名师生志愿者之力，面向厦门全市及周边地区大中小学师生与社会公众推出了83个原创科普展位、89堂趣味实验课、13场科普讲座及1项青少年科技赛事，当日累计吸引超 12000 人参与。

On November 15, 2025, Fujian-OI co-organized the 14th Xiamen University Ocean Science Open Day.

60余个	900余名	83个	89堂	13场	1项	当日累计参与超
课题组	师生志愿者	原创科普展位	趣味实验课	科普讲座	青少年科技赛事	12000人
60 research groups	more than 900 volunteers	83 booths	89 interactive experiments	13 science literacy lectures	1 youth S&T competition	over 12000 participants

全平台播放量超
600万
over 6 million video views across all platforms

微博双话题阅读量达
1.63亿
163 million pageviews on Weibo hashtagged topics

©70.8 Media Lab

“70.8TALK：跨年海洋文化第一讲”跨年直播

“70.8 TALK: Starting the Ocean Culture Journey Through Science on the Eve of 2026“ Live Broadcast

2025年12月31日，基于《海洋文化十八讲》打造的首届跨年直播活动“70.8TALK：跨年海洋文化第一讲”在中共福建省委宣传部媒体矩阵、厦门大学官方账号及新浪新闻、微博公益等多个平台上线直播，全省“千屏联动”同步进行线下展播。戴民汉院士、王传超教授分别作海洋科普主题演讲，并联动科普作家游识猷展开跨界对话，创新形式推动海洋知识“破圈”，活动触达粉丝约2.65亿人次，全平台播放量超600万，微博双话题阅读量达1.63亿。

On December 31 2025, the live-streamed event 70.8 TALK reached a wide audience across multiple platforms, sparking public curiosity in marine science through an innovative, engaging format. Building on the mission of *Eighteen Lectures on Ocean Culture*, the broadcast featured keynotes by Minhan Dai and Chuanchao Wang, as well as a cross-disciplinary dialogue with Shiyou You.

致谢

鹭江创新实验室的建设发展得到部委及省市各级领导的高度关注与悉心指导，各级领导通过实地走访调研、专题听取汇报等形式，为实验室高质量发展精准指导、定向护航。

Fujian-OI's strategic growth is anchored by strong support from national and local authorities. Through regular site visits and executive briefings, government leadership provides the high-level oversight and guidance essential to Fujian-OI's continued pursuit of excellence.


1月19日
福建省副省长林瑞良及厦门市委书记崔永辉出席实验室成立大会
Ruiliang Lin, Vice Governor of Fujian Province, and Yonghui Cui, Secretary of the CPC Xiamen Municipal Committee, attended the Inaugural Ceremony of Fujian-OI


6月15日
科技部副部长陈家昌调研实验室
Jiachang Chen, Vice Minister of Science and Technology, visited Fujian-OI.
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10月14日
福建省人大常委会副主任袁毅调研实验室
Yi Yuan, Vice Chair of the Standing Committee of the Fujian Provincial People's Congress, visited Fujian-OI.


11月6日
厦门市市长伍斌参加BFIF作致辞
Bin Wu, Mayor of Xiamen, attended the BFIF2025 and delivered an opening remarks.


11月3日
厦门市委副书记李辉跃调研实验室
Huiyue Li, Deputy Secretary of the CPC Xiamen Municipal Committee, visited Fujian-OI.


11月26日
厦门市常务副市长黄燕添调研实验室
Yantian Huang, Executive Vice Mayor of Xiamen Municipal People's Government, visited Fujian-OI.


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