



The State Key Laboratory of
Marine Pollution

Strategic Plan

April 2021 - March 2024





MESSAGE FROM THE DIRECTOR

Go Further Together

The pace of development in science and technology has accelerated rapidly in recent decades. The Chinese idiom “逆水行舟，不進則退” (i.e., a boat sailing against the current must forge ahead or it will be driven back) reminds us that we must be vigilant and make efforts to stay ahead of the game. To enable us to better navigate the uncharted future, this strategic plan provides the direction and measurable goals for developing the State Key Laboratory of Marine Pollution (SKLMP) in the coming three years. This strategic plan builds on the strengths of SKLMP, incorporates ideas from our members and academic advisors, seizes opportunities in Hong Kong and the Greater Bay Area of China, and considers the needs of various stakeholders.

To achieve the goals, we have to strengthen the bond among our members so that we will be able to develop more multidisciplinary collaborative projects to tackle and solve big challenges, hence, creating impacts together. We will also catalyze more collaborations with the government and industry to co-create and co-design more innovations for monitoring and control of marine pollution as well as formulating better measures and policies for marine conservation and ecological restoration. We will also provide more support to the Government of the Hong Kong SAR, the Central Government of China and the United Nations through aligning our research programs with local, national and international priorities. To efficiently provide all-rounded support to our members and enhance their incentives, we will revitalize the organization structure and funding schemes of SKLMP. We will continue our effort in recruiting talents and nurturing young researchers for the protection of the marine environment.

These strategic developments will ultimately affirm the vision and missions of SKLMP, making the marine environment cleaner and healthier.

Prof. Kenneth Mei Yee Leung, Director of SKLMP

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INTRODUCTION

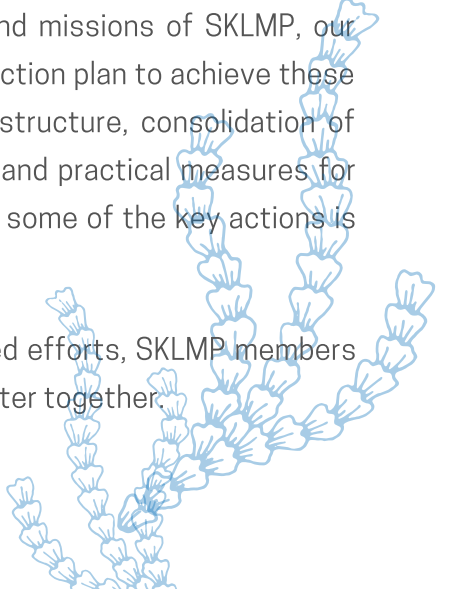
Our State Key Laboratory of Marine Pollution (SKLMP) was formally established at City University of Hong Kong (CityU) in 2010 with over 40 members from six universities in Hong Kong. It was originally a Partner SKL with the SKL of Marine Environmental Science at Xiamen University in Mainland China. Under the able leadership of our former Director, Professor Paul Lam, our laboratory was rated as an outstanding SKL in 2018 by the Ministry of Science and Technology of China (MOST) and the Innovation and Technology Commission (ITC) of the Hong Kong Special Administrative Region Government. The MOST also upgraded our laboratory to be an independent SKL in the same year.

Since 3rd August 2020, Professor Kenneth Leung has succeeded Professor Lam as the second Director of SKLMP at CityU. It is, therefore, very timely for Professor Leung to develop a strategic plan for SKLMP in the coming three years. He has carefully reviewed the history and performance statistics of SKLMP over the past decade, and carried out a comprehensive analysis on our strength, weakness, opportunity and threat (i.e., SWOT analysis; see P.4). Based on the results of this analysis, he has drafted a strategic plan for SKLMP and launched a consultation exercise between September 2020 and January 2021.

Through both face-to-face and online meetings, Professor Leung met with 42 members of SKLMP in total, including the newly recruited members (Appendix A). They thoughtfully discussed about the future of the laboratory, and had productive exchanges of ideas. He also met with the administrative staff, research staff, and research students who worked at the physical laboratory of SKLMP in CityU. Through a series of online forums and face-to-face meetings, they discussed and resolved issues related to the operation of the physical laboratory. The Director also met with the CityU's Vice President (Research & Technology), Professor Michael Yang, introduced his draft strategic plan and received valuable feedbacks from Professor Yang.

The strategic plan has been built on the strengths of SKLMP, and incorporated insightful suggestions from our members. It is also formulated specifically to address and tackle our weaknesses, and seize opportunities. This document starts with the results of SWOT analysis, followed by introducing the revised vision and missions of SKLMP, our new goals in the coming three years, and an action plan to achieve these goals through revamping our organizational structure, consolidation of strategic research themes with leaderships, and practical measures for us to attain our goals. The latest progress of some of the key actions is also highlighted.

With this blue print in place and our concerted efforts, SKLMP members working under the same roof will become greater together.

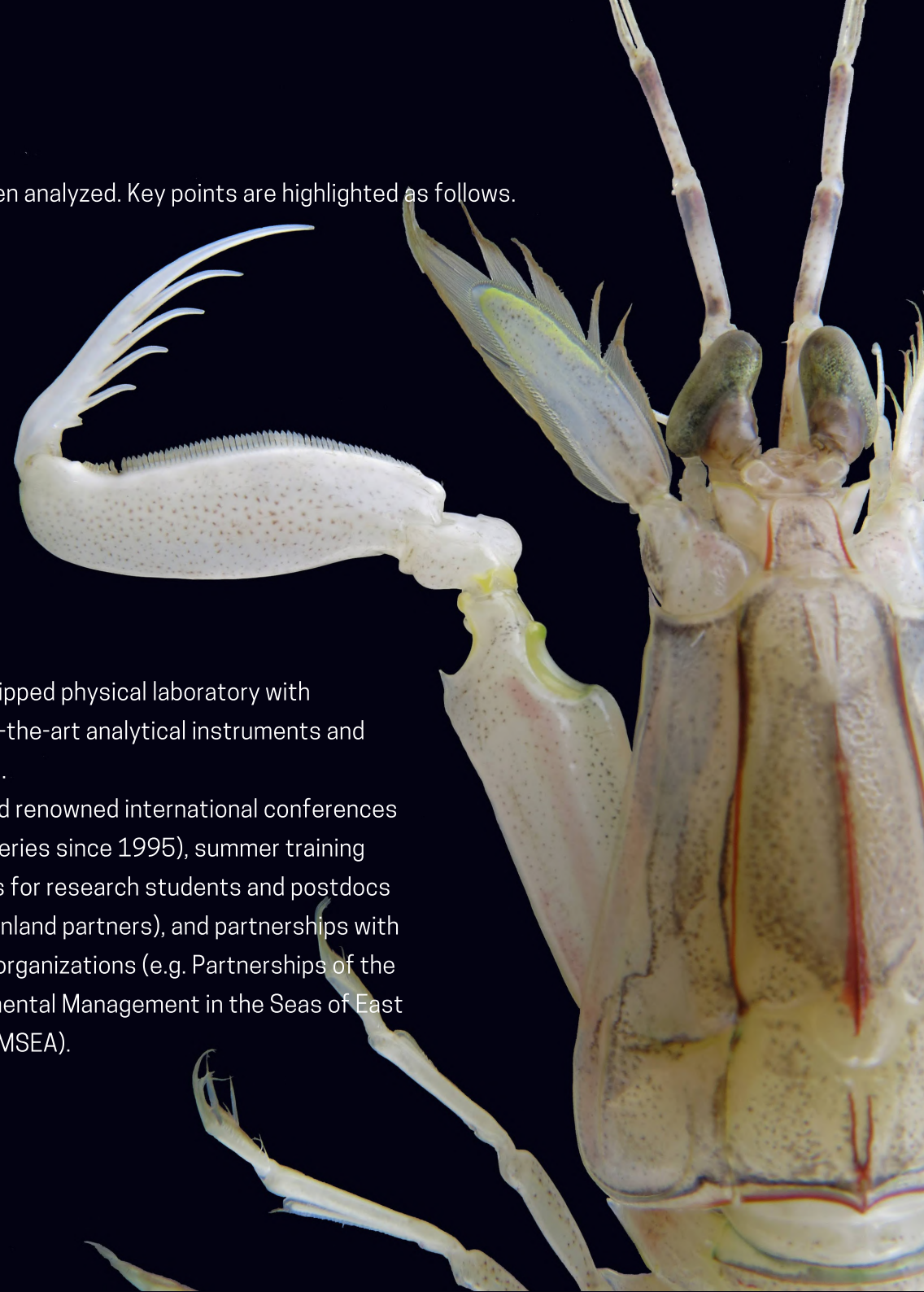


SWOT ANALYSIS

The strengths, weaknesses, opportunities and threats of SKLMP have been analyzed. Key points are highlighted as follows.

OUR STRENGTHS

- Strong collaborative and multidisciplinary foundation with members from 7 universities in Hong Kong.
- Rated as an outstanding SKL by MOST and ITC, and upgraded to an independent SKL status by MOST in 2018.
- Four well-defined and interlinked strategic research themes in the past.
- Collaborations with top scientists from Mainland China and overseas.
- Had a critical mass of excellent researchers for developing novel and impactful, large-scale multidisciplinary projects.
- Won 3 RGC Theme-based Research Scheme projects, with the latest one on Environmental Antibiotic Resistome (HK\$ 34 million) led by Prof. Tong Zhang.
- Well-equipped physical laboratory with state-of-the-art analytical instruments and facilities.
- Organized renowned international conferences (ICMPE series since 1995), summer training programs for research students and postdocs (with Mainland partners), and partnerships with regional organizations (e.g. Partnerships of the Environmental Management in the Seas of East Asia - PEMSEA).



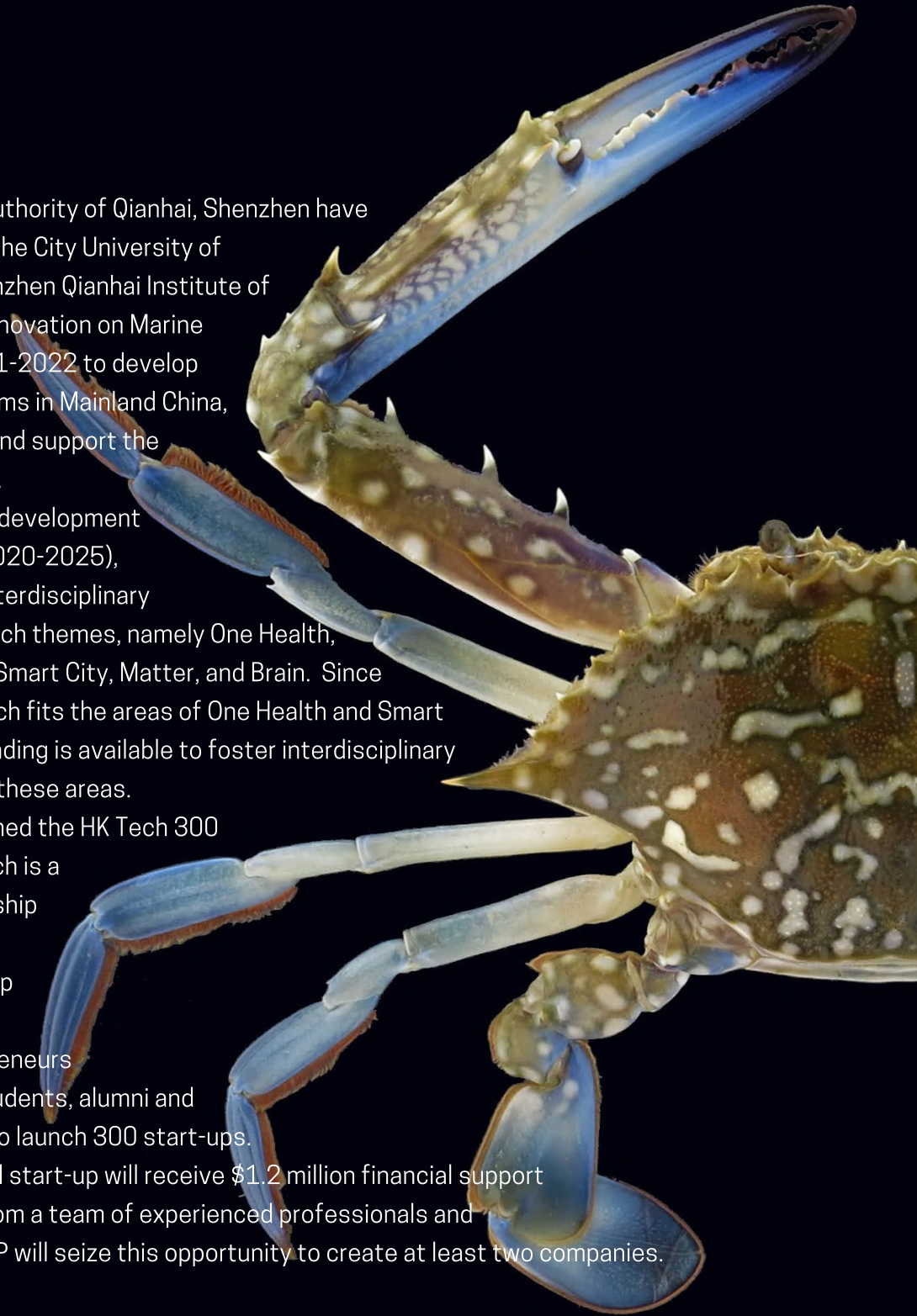
OUR WEAKNESSES

- Need to engage and incentivize members to work together, as collaborations and publication contributions from members have weakened in recent years.
- Need to strengthen translational research, especially in innovation, commercialization of products and policies related to pollution monitoring, pollution control, chemical management and ecological restoration.
- Need to increase the number of publications that listed SKLMP as the first affiliation or corresponding author address following MOST's requirement stipulated in 2019-2020.
- Need to increase the impact of our research and produce more publications in high-impact multidisciplinary journals and as highly cited, top papers by working on global topical issues with societal impact.
- Need to actively recruit talents to maintain our performance in face of the retirement and departure of core members, and to strengthen our capacity in environmental economics, environmental policy, social science and public health areas.
- Need to seize opportunities to lead projects in Mainland China especially in the Greater Bay Area.
- Need to actively promote our research outcomes and increase SKLMP's publicity and visibility in Hong Kong, Mainland China and beyond.
- Need to expand and strengthen partnerships with relevant industries, national and international organizations.

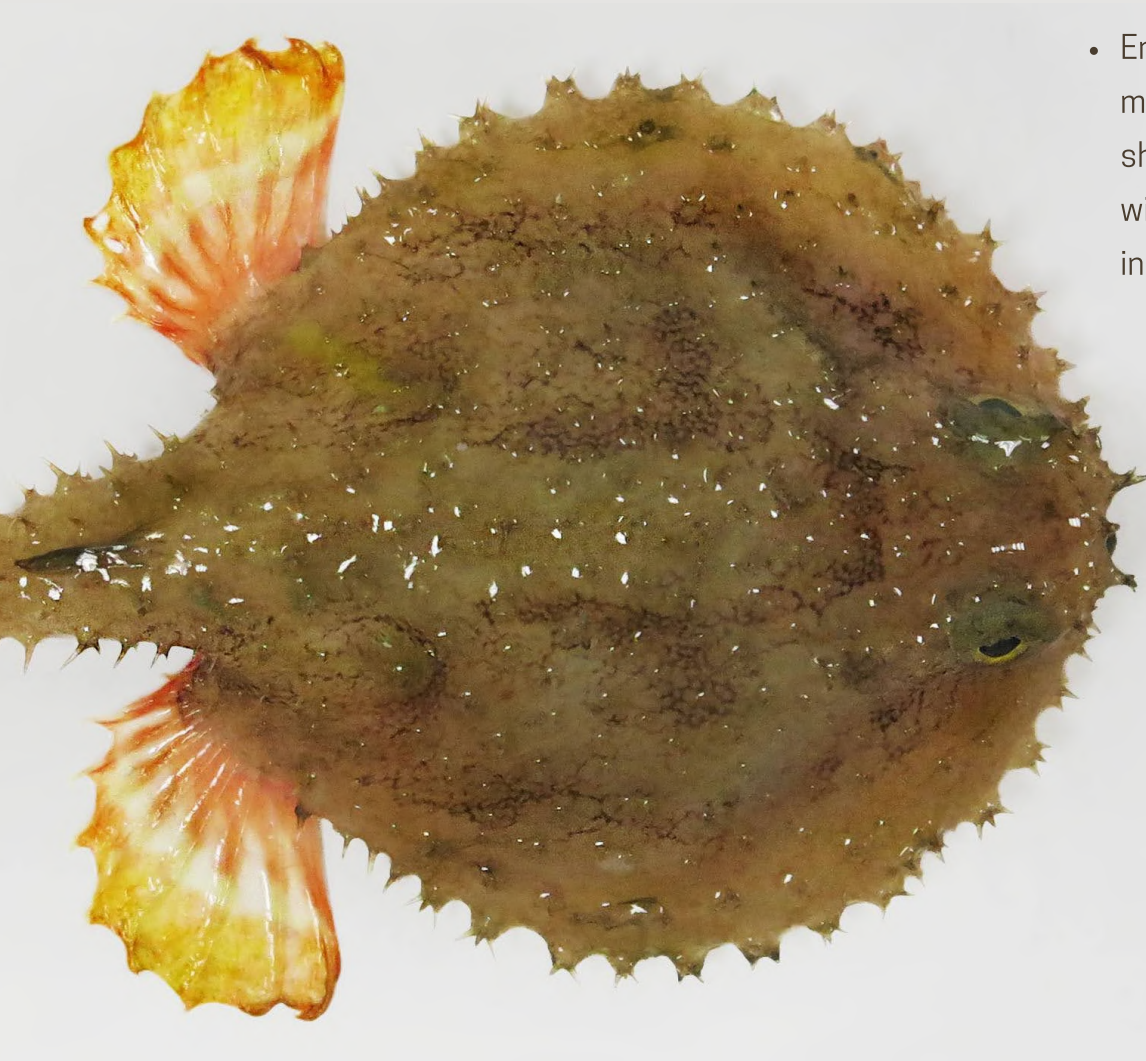


OUR OPPORTUNITIES

- Increased funding opportunities to support innovation and R&D area with larger funds, new funding schemes, and some transferable funds from Mainland China.
- Emerging opportunities for closer collaboration in the Greater Bay Area (GBA) and the Belt and Road Initiative.
- China's 'Ecological Civilization' policy to greatly improve environmental quality by 2035, has made monitoring and control of marine pollution, and conservation of marine biodiversity and fisheries resources more relevant and important.
- Ocean science is regarded as a priority research area in China, hence more resources will be available at national level.
- The National Development and Reform Commission and the Ministry of Natural Resources jointly issued the Master Plan for the Protection and Restoration of Important National Ecosystems (2021-2035) to strengthen the protection and restoration of important ecosystems in China, including the coastal marine environment. The main focus of the GBA strategic project is the protection of marine biodiversity and restoration of important habitats along the coastal marine environment. Given our core capability and strengths in this area, SKLMP will be able to contribute to this national initiative.
- CityU and the Authority of Qianhai, Shenzhen have agreed to build the City University of Hong Kong-Shenzhen Qianhai Institute of Research and Innovation on Marine Pollution in 2021-2022 to develop research programs in Mainland China, recruit talents and support the national agenda.
- In the strategic development plan of CityU (2020-2025), there are five interdisciplinary strategic research themes, namely One Health, Digital Society, Smart City, Matter, and Brain. Since SKLMP's research fits the areas of One Health and Smart City, internal funding is available to foster interdisciplinary collaboration in these areas.
- CityU has launched the HK Tech 300 Programme which is a large-scale flagship innovation and entrepreneurship programme for aspiring entrepreneurs among CityU students, alumni and research staff to launch 300 start-ups. Each successful start-up will receive \$1.2 million financial support and supports from a team of experienced professionals and mentors. SKLMP will seize this opportunity to create at least two companies.



OUR THREATS



- Emerging laboratories that have similar research areas to SKLMP may result in keener competition for funding resources. SKLMP should differentiate its role and niche while working collaboratively with these groups towards common goals (e.g. bid for large projects in Hong Kong and the GBA).
- Competition on resources among local universities are intensified due to more talented scientists have been recruited and the overall research quality and standard advance speedily.
- There are more regional competitions, as research performance and scientific competence of universities have been greatly improved in the region over the past decade (e.g. Mainland China, Korea and Singapore).



OUR VISION

- To be a key international research center in advancing marine environmental research that contributes to the protection and management of the marine environment and generates positive societal impact.

AND MISSION

- To protect marine environments of Hong Kong, South China, and Asia-Pacific region through high quality multidisciplinary research and innovations relevant to pollution monitoring and control, environmental risk assessment, ecosystem responses to stressors, and ecological restoration.
- To build capacity by nurturing and training environmental scientists, managers, and entrepreneurs in the region.
- To support the Hong Kong SAR Government and the Chinese Central Government in the management of environmental quality and protection of marine ecosystems.

OUR GOALS

We have adopted the SMART criteria when setting our goals (i.e. Specific, Measurable, Attainable, Realistic, and Timely). The goals addressed the key performance indicators (KPIs), governmental priorities, the identified weaknesses and opportunities of SKLMP. Based on these considerations, the following ten goals are set for SKLMP in the next three years (April 2021 – March 2024):

1 Grants

- Maintain our outstanding grant records of at least HK\$50 million and 30 grants per year on average.
- Obtain at least one large-scale grant (over HK\$10 million) in Hong Kong and Mainland China, respectively by March 2024.

2 Publications

- Double the number of SCI publications with SKLMP as the first affiliation or corresponding author's address by March 2024 (from 51 in 2020).

3 Journals

- Publish at least 3 high impact or highly cited, top papers annually.

4 Impact

- Generate more innovations with at least five patents and create at least two start-up companies by March 2024.
- Engage more in research and consultancy projects that will generate direct benefits to the HKSAR Government and the Central Government of China in terms of environmental management and ecological civilization (e.g. scientific derivation of water and sediment quality criteria for protection of marine environments in China).
- Lead and engage in Decade Action(s) of the United Nations' Decade of Ocean Science for Sustainable Development (2021-2030) Programme.

5 Incentives

- Increase member incentives, create conducive research environment and foster collaborative research through increasing internal annual research funding to HK\$6 million, and creating awards to recognize achievements and contributions of students, postdocs and members.

6 Recruitment

- Actively recruit talents at all levels (i.e., PhD students, postdocs, research assistant professors, junior and senior faculties), especially experts in environmental hydrology, water quality modelling, environmental economics, environmental policy and environmental health.

7 Training

- Train 20% more young scientists (including PhD students and postdocs) compared to 2020.

8 Support

- Strengthen and align research effort to support priority concerns of the Hong Kong SAR Government and the Central Government of China.

9 Leadership

- Assume leadership in global research initiatives (e.g., Global Estuaries Monitoring (GEM) Programme, World Harbour Project (WHP), UN Decade of Ocean Science), and become regional training centers of UNESCO/IOC and PEMSEA.

10 Promotion

- Promote SKLMP and its excellent research works in Hong Kong, Mainland China and overseas through strategic scientific communication and knowledge exchange efforts.

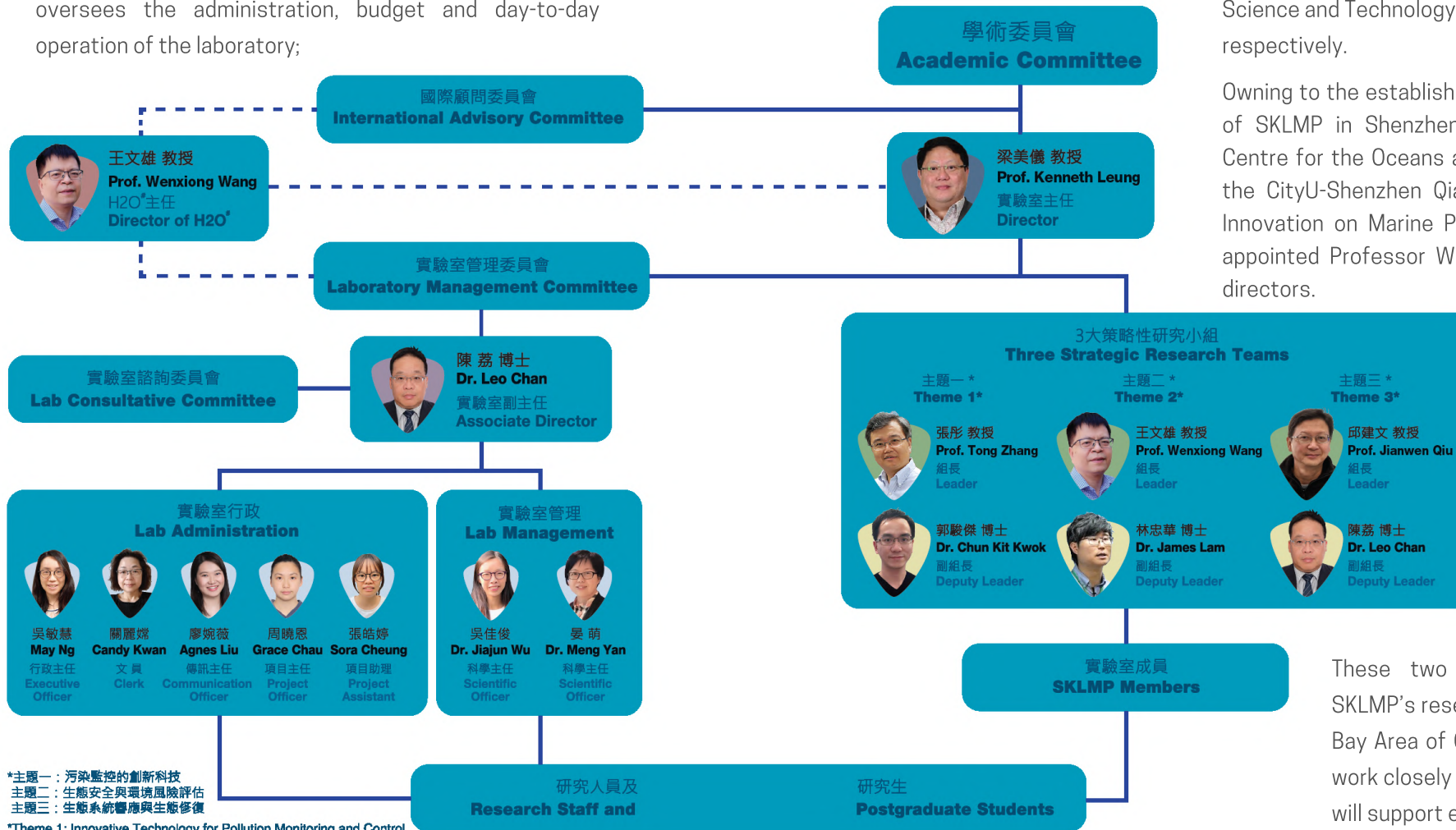
ACTION PLAN ORGANIZATIONAL STRUCTURE

To facilitate and support SKLMP members in achieving the new goals, the organizational structure has been revised as shown in Figure 1. The laboratory remains to be governed by the Academic Committee and International Advisory Committee as in the past. The SKLMP Director oversees the administration, budget and day-to-day operation of the laboratory;

sets directions, goals and action plan for the laboratory to advance; develops policies to allocate internal funding, monitors research progress, and provides support to members, research staff and students where need be, enabling them to achieve the goals together.

The Director is supported by the Laboratory Management Committee which consists of senior SKLMP members from the Chinese University of Hong Kong, City University of Hong Kong (CityU), Hong Kong Baptist University, Hong Kong Polytechnic University, the Hong Kong University of Science and Technology, and the University of Hong Kong, respectively.

Owing to the establishment of two satellite institutions of SKLMP in Shenzhen, China including the Research Centre for the Oceans and Human Health (H2O Lab) and the CityU-Shenzhen Qianhai Institute of Research and Innovation on Marine Pollution (Qianhai Lab), CityU has appointed Professor Wenxiong Wang to serve as their directors.



*主題一：污染監控的創新科技
 主題二：生態安全與環境風險評估
 主題三：生態系統響應與生態修復

*Theme 1: Innovative Technology for Pollution Monitoring and Control
 Theme 2: Eco-safety and Environmental Risk Assessment
 Theme 3: Ecosystem Responses and Ecological Restoration

*H2O：海洋與人類健康研究中心
 Research Centre for the Oceans and Human Health

Figure 1. The revised organization chart of SKLMP.

These two labs will primarily support SKLMP's research endeavors in the Greater Bay Area of China. The SKLMP Director will work closely with Professor Wang, and they will support each other.

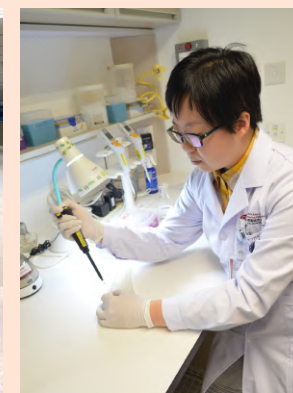
ORGANIZATIONAL STRUCTURE

SKLMP consists of a two-tier structure, namely SKLMP-at-large and SKLMP-at-CityU.



The SKLMP-at-large consists of members from seven sister universities in Hong Kong, who form three research teams under the three Strategic Research Themes (SRT) (see P.12). In each SRT, the leader and deputy leader lead and oversee collaborative research projects and activities with a common goal to develop successful proposals that tackle grand challenges and secure large-scale, impactful project grants in Hong Kong and Mainland China. SKLMP will provide seed funding for members to initiate collaborative projects on priority areas via various funding schemes.

The SKLMP-at-CityU refers to the physical laboratory at CityU which will be managed by the Associate Director of SKLMP, Dr. Leo Chan with the support of the administration and laboratory supporting teams. The administrative team also assists the SKLMP Director in the administration and operation of the SKLMP-at-Large, including the administration of internal funding schemes, organization of annual meetings, and preparation of annual reports for ITC and MOST. We recently hired a Scientific Officer with a background in molecular biology to strengthen our capacity in laboratory management and a Communication Officer to revamp our website and develop strategies for scientific communication and promotion on conventional and social media. With financial support from ITC and CityU, SKLMP-at-CityU will recruit two Research Assistant Professors to enhance our research capacity in Environmental Chemistry and Environmental Toxicology.



CONSOLIDATED RESEARCH THEMES

SKLMP endeavors to align our research with local and national priorities, and deliver recommendations on environmental management strategies and policies to support the Government of the Hong Kong SAR and the Central Government of China. Based on our competitive advantage and core capability, three strategic research themes have been identified, namely (1) innovative technology for pollution monitoring and control, (2) eco-safety and environmental risk assessment, and (3) ecosystem responses and ecological restoration. Each theme will be led by a leader and a deputy leader, and will receive seed funding support from SKLMP on an annual basis (HK\$700,000 per theme for 2021-2022 financial year). Each SKLMP member can join up to two themes.

The leaders of each theme will organize regular meetings for members to exchange ideas, identify grand challenges under the theme, and develop collaborative projects together. With the seed funding, each team will conduct preliminary works and collect relevant data for building better proposals to bid for large-scale external competitive grants (e.g., Collaborative Research Fund, Theme-based Research Scheme, Area of Excellence, Green Tech Fund, National Science and Technology Major Project of MOST). Each team is also encouraged to collaborate with outstanding researchers in Mainland China and overseas.

Innovative Technology for Pollution Monitoring and Control

Eco-Safety and Environmental Risk Assessment

Ecosystem Responses and Ecological Restoration

T R E E

CONSOLIDATED RESEARCH THEMES



Innovative Technology for Pollution Monitoring and Control

Team leader: Prof. Tong Zhang (HKU)
Deputy Team Leader: Dr. Chun Kit Kwok (CityU)

This team aims to develop a variety of novel technologies for monitoring and controlling marine pollution. These may include, but not limited to, new methods and tools for monitoring of priority chemical contaminants, algal toxins, waterborne pathogens and microplastics; innovative numerical models for forecasting the fate of pollutants and pathogens and estimating their carrying capacity in water bodies; real-time monitoring of water and sediment quality with novel sensors and Internet-of-things; advanced and cost-effective treatment technologies for removal of pollutants from wastewater; in situ methods for combating harmful algal blooms, and emerging technologies for monitoring marine biodiversity and ecosystem health (e.g. remote sensing, artificial intelligence, environmental DNA).



Eco-Safety and Environmental Risk Assessment

Team leader: Prof. Wenxiong Wang (CityU)
Deputy Team Leader: Dr. James Lam (EdU)

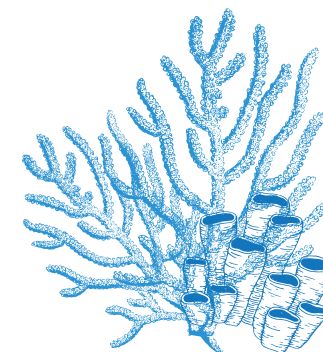
This team targets to investigate the environmental fate, exposure, bioaccumulation, biological effect and environmental risk of chemical contaminants, algal toxins and waterborne pathogens in the marine environment, and their implication to seafood safety and human health. The results will provide scientific basis for environmental risk assessment and for the derivation of water, sediment and tissue quality criteria for regulation and management of these stressors to ensure ecosystem safety and safeguard human health. In particular, SKLMP is keen to contribute to the establishment of national marine water quality criteria for protecting coastal marine environments in China.



Ecosystem Responses and Ecological Restoration

Team leader: Prof. Jianwen Qiu (HKBU)
Deputy Team Leader: Dr. Leo Chan (CityU)

This team aims to reveal the response of the marine ecosystem to anthropogenic stressors such as water pollution, eutrophication, hypoxia, habitat destruction, overharvesting, warming, and acidification; understand the processes and mechanisms of ecosystem recovery after cessation of an environmental insult, and develop effective policy and novel technologies for restoration of degraded ecosystems (e.g. eco-engineering technologies).

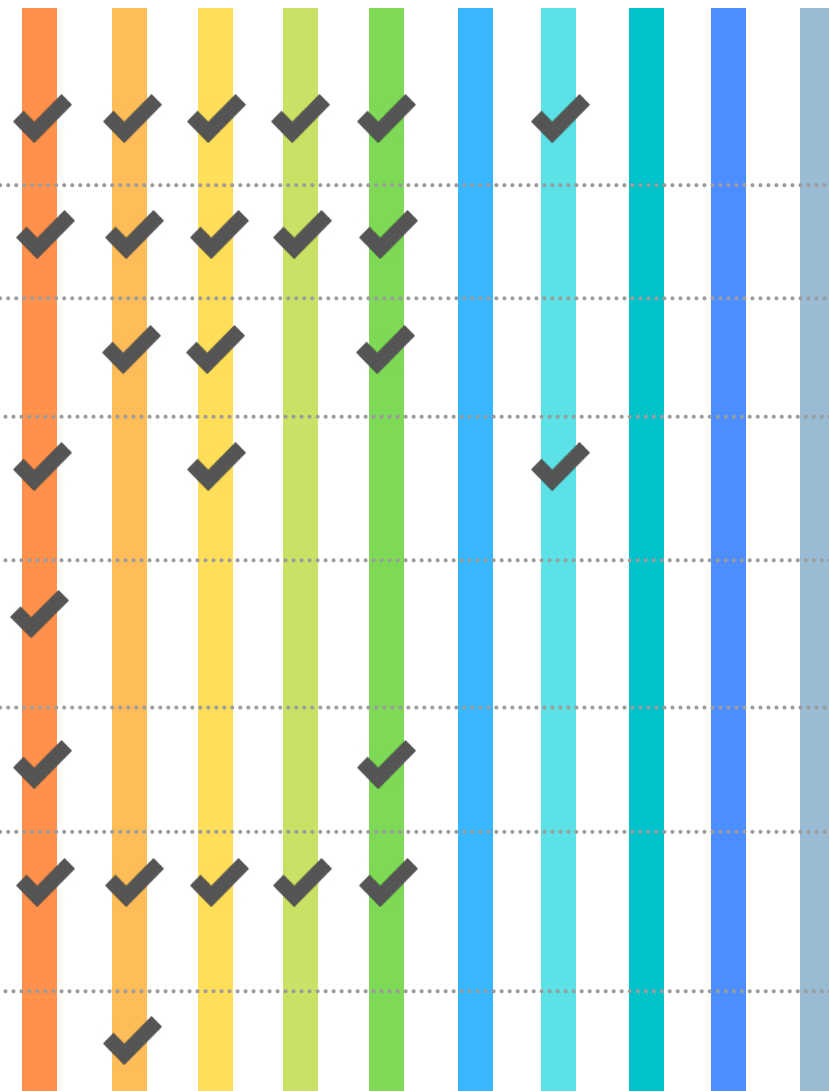


30 ACTIONS FOR SUPPORTING INDIVIDUAL GOALS

1 Grants
2 Publications
3 Journals
4 Impact
5 Incentives
6 Recruitment
7 Training
8 Support
9 Leadership
10 Promotion

No. Action

- 1 Organize social events and discussion meetings for members, staff and research students to bond with each other and develop research collaborations.
- 2 Organize regular Strategic Research Theme meetings for members to exchange ideas, identify grand challenges in each theme, develop grant proposals and prepare high impact publications together.
- 3 Organize writing workshop(s) on topical issue(s) for interested members, postdocs and students to work together and produce impactful meta-analysis papers or synthetic review articles targeting high profile journals.
- 4 Co-leading with the Southern Marine Science and Engineering Guangdong Laboratory (Zhuhai) to conduct a large-scale project entitled "Changing Coastal Zones and Material Transfer in the South China Sea", and serving as a partner in the international "Coastal-SOS" project proposal led by Professor Minhan Dai of Xiamen University.
- 5 To better address calls for large-scale project proposals (e.g., Theme-based Research Scheme, MOST Schemes), SKLMP will organize specific meetings in advance for interested members and relevant external partners (e.g., government representatives, industrial partners) to develop the proposal together and gain their support.
- 6 SKLMP Director will identify and engage potential collaborating researchers and institutions in Mainland China to jointly make proposal(s) and bid for large-scale national or province-based projects according to the funding call guidelines.
- 7 Provide more internal funding (up to \$6 million/year through SRT funding, Matching fund for PhD studentship etc.) to support members having joint-supervision of PhD students and postdocs in collaborative research projects to collect data for preparing better proposals or innovations.
- 8 Member's track record on previous publications listing SKLMP's address will be one of the key criteria for the evaluation of his/her proposals for internal funding schemes.



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9 SKLMP will provide publication fee if members are publishing their papers in top tiered journals with SKLMP as the first affiliation or corresponding author address.

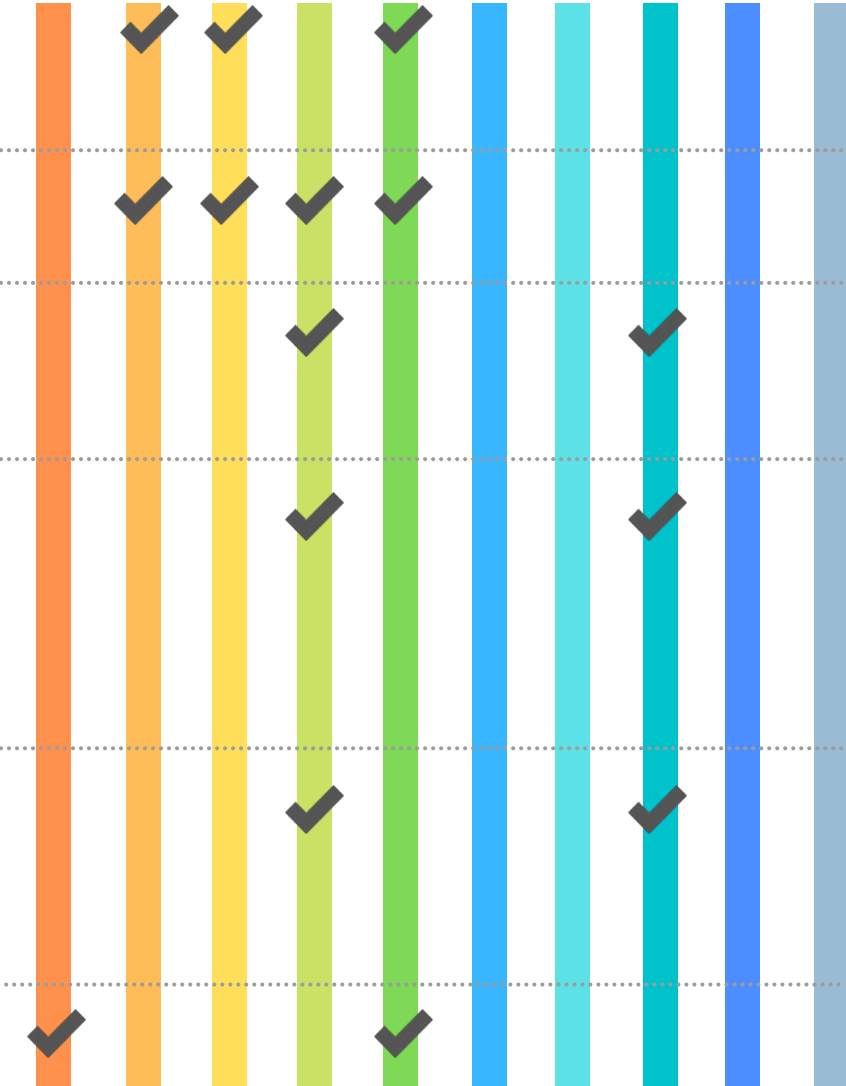
10 Create awards to recognize members, postdocs and research students' outstanding research and contributions.

11 SKLMP Director will make efforts to develop network and partnerships with relevant industries and Science & Technology Parks in the region, and link them to our members for collaboration so as to enhance our capabilities in innovation and commercialization.

12 To foster collaboration and facilitate innovation development and implementation, SKLMP Director will setup meetings for members to share their research and innovation ideas with relevant government department representatives and understand their needs (e.g. Environmental Protection Department, Agriculture Fisheries and Conservation Department, Drainage Services Department, Centre for Food Safety, Civil Engineering and Development Department).

13 Encourage and facilitate members, postdocs and research students to set up companies that translate research into application and commercialization. These include organizing training workshops and technical visits to industrial partners and Science & Technology Parks in the region. In particular, CityU will provide substantial support (HK\$1.2 million plus professional consultation) to students and alumni to setup 300 companies in the next three years.

14 Launch a Distinguished Lecture Series for members to learn from distinguished researchers about the latest advancements and grand challenges in marine environmental research and related innovation and technology.



30 ACTIONS FOR SUPPORTING INDIVIDUAL GOALS

No. Action

1 Grants
2 Publications
3 Journals
4 Impact
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7 Training
8 Support
9 Leadership
10 Promotion

15 Actively recruit talented members at all levels (i.e., faculty members, postdocs, PhD students) based on our needs, priority research areas and missing disciplines. Including two Research Assistant Professors in Environmental Chemistry and Environmental Toxicology, and a joint junior faculty member in Environmental Chemistry with the Department of Chemistry of CityU. The Director will continue to recruit talents, and has successfully recruited 10 new members from four local universities since August 2020.

16 Develop a scheme to host visiting fellows from Mainland China and overseas. The fellows will conduct research at SKLMP with members, postdocs or research students. SKLMP has been hosting visiting scientists from Mainland China regularly.

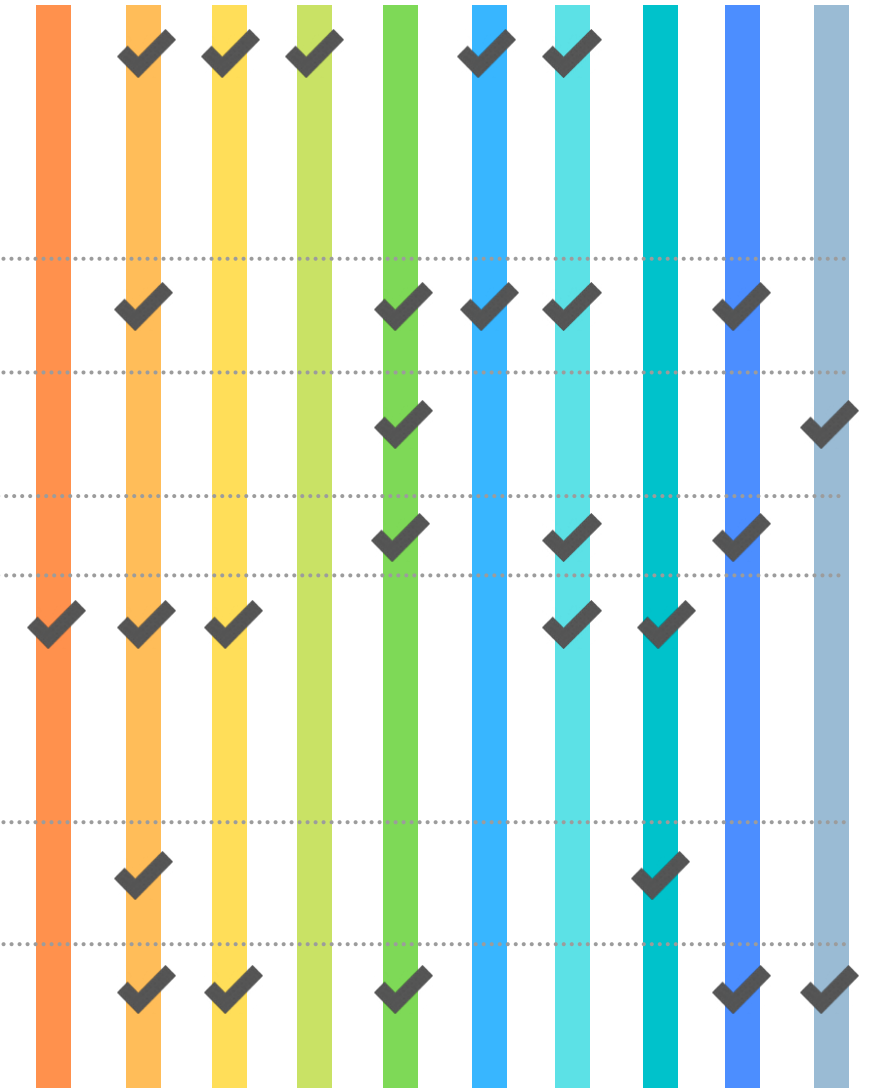
17 Encourage and assist members to apply for major research awards (e.g., Research Awards from the Ministry of Education of China; the State Science and Technology Prizes; Awards from the Chinese Society for Environmental Sciences).

18 Empower and support postdocs and research students to organize an annual young scientist symposium as part of the training.

19 Support the Central Government of China on scientific derivation of marine water and sediment quality criteria. To facilitate and deepen research collaboration in this area, a Memorandum of Understanding between SKLMP and the State Key Laboratory of Environmental Criteria and Risk Assessment of the Chinese Research Academy of Environmental Sciences has been drafted and, hopefully, be officially signed by both parties soon. The two laboratories will jointly launch programs to train young scientists, exchange personnel, and do joint research projects.

20 Establish an emergency research team to enhance our readiness for studying any events of large-scale accidental marine pollution incidents in Hong Kong and South China region.

21 SKLMP will lead and launch global research initiatives (e.g., Global Estuaries Monitoring Programme and sub-projects of the World Harbour Project). Strategically, SKLMP Director will visit major marine laboratories and environmental institutes in Asia-Pacific region to develop long-term partnerships and collaborations.



30 ACTIONS FOR SUPPORTING INDIVIDUAL GOALS

No. Action

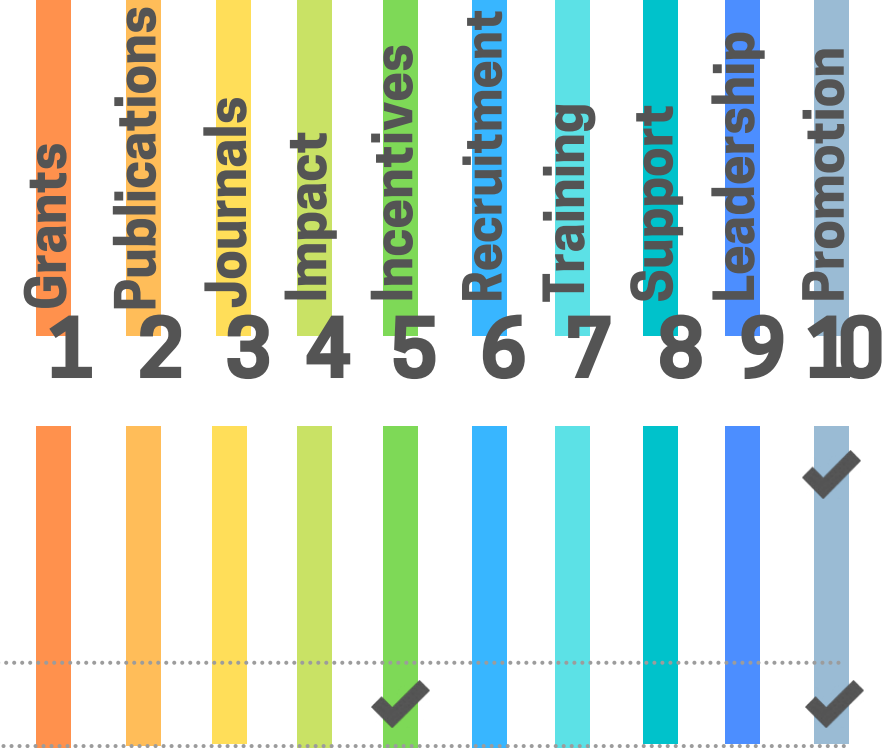
	1 Grants	2 Publications	3 Journals	4 Impact	5 Incentives	6 Recruitment	7 Training	8 Support	9 Leadership	10 Promotion
22		✓	✓		✓			✓	✓	✓
23		✓	✓		✓			✓	✓	✓
24	✓				✓				✓	✓
25		✓			✓				✓	✓
26					✓		✓	✓	✓	✓
27					✓					✓
28					✓					

30 ACTIONS FOR SUPPORTING INDIVIDUAL GOALS

No. Action

29 Put more effort in science outreach and promotion of our research excellence through both conventional and social media. Develop a communication strategy, set up our Twitter, Facebook and WeChat accounts, and organize press conferences regularly to increase our visibility in Hong Kong, Mainland China and beyond.

30 Produce biannual e-newsletters for members, stakeholders and general public.



ACKNOWLEDGEMENT

The Director would like to sincerely thank the members, staff and research students as well as academic advisors of SKLMP for sharing the views and ideas about the future development of the laboratory. The staff of SKLMP, especially Grace Chau, Agnes Liu, May Ng, Jiajun Wu and Leo Chan are gratefully thanked for their assistance in the preparation of this strategic plan. The documentation of this plan is just a beginning. Its successful implementation will require concerted efforts from our members, staff and students, and their strong support to this strategic development. The Director would continue to listen to the views of our members and various stakeholders while implementing this strategic plan and advancing the laboratory.



APPENDIX A

CURRENT MEMBERS OF SKLMP (*NEW MEMBERS)

City University of Hong Kong

1. Dr. Leo Lai CHAN, Associate Director, SKLMP
2. Prof. Shuk Han CHENG, Chair Professor, Department of Biomedical Sciences
3. *Dr. Richard Yun Hing CHEUNG, Associate Professor, Department of Chemistry
4. Dr. Siu Gin CHEUNG, Associate Professor, Department of Chemistry
5. Dr. Henry Yuhe HE, Assistant Professor, School of Energy and Environment
6. Dr. Richard Yuen Chong KONG, Associate Professor, Department of Chemistry
7. Dr. Brian Chin Wing KOT, Research Associate, SKLMP
8. *Dr. Kit Chun Kit KWOK, Assistant Professor, Department of Chemistry
9. Dr. Ball Keng Po LAI, Adjunct Professor, Department of Chemistry
10. *Dr. Jason Chun Ho LAM, Assistant Professor, School of Energy and Environment
11. Prof. Michael Hon Wah LAM, Professor, Department of Chemistry
12. Prof. Paul Kwan Sing LAM, Chair Professor, Department of Chemistry
13. *Dr. Patrick Kwan Hon LEE, Associate Dean and Associate Professor, School of Energy and Environment
14. Prof. Michael Kwok Hi LEUNG, Professor, School of Energy and Environment
15. Prof. Kenneth Mei Yee LEUNG, Director, SKLMP & Chair Professor, Department of Chemistry
16. Dr. Eddie Chi Him MA, Associate Professor, Department of Neuroscience
17. Dr. Theodora Ern Mei NAH, Assistant Professor, School of Energy and Environment
18. Prof. Nora Fung Yee TAM, Emeritus Professor, Department of Chemistry
19. Dr. Tak Cheung WAI, Research Associate, SKLMP
20. Prof. Wenxiong WANG, Associate Dean & Chair Professor, School of Energy and Environment
21. Prof. Michael Mengsu YANG, Vice-President & Chair Professor, Department of Biomedical Sciences

City University of Hong Kong (continued)

22. *Dr. Ruquan YE, Assistant Professor, Department of Chemistry
23. Prof. Peter Kwan Ngok YU, Professor, Department of Physics
24. *Prof. Xiaoling ZHANG, Professor, Department of Public Policy
25. *Prof. Wen ZHOU, Professor, School of Energy and Environment

The Chinese University of Hong Kong

26. Dr. Apple Pui Yi CHUI, Research Assistant Professor, School of Life Sciences
27. Prof. Joe Shing Yip LEE, Professor, School of Life Sciences and Earth System Science
28. *Dr. Laura FALKENBERG, Assistant Professor, School of Life Sciences

The Education University of Hong Kong

29. Dr. Chi Chiu CHEANG, Associate Professor, Department of Science and Environmental Studies
30. Prof. Keith Wing Kei HO, Professor, Department of Science and Environmental Studies
31. Dr. James Chung Wah LAM, Associate Professor, Department of Science and Environmental Studies
32. Dr. Chris Yiu Fai TSANG, Associate Professor, Department of Science and Environmental Studies
33. Prof. Rudolf Shiu Sun WU, Advisor, Department of Science and Environmental Studies

Hong Kong Baptist University

34. Dr. Jill Man Ying CHIU, Associate Professor, the Department of Biology
35. Prof. Jianwen QIU, Professor, the Department of Biology
36. Prof. Chris Kong Chu WONG, Professor, the Department of Biology (Mobile Member)

The Hong Kong Polytechnic University

37. Dr. James Kar Hei FANG, Assistant Professor, Department of Applied Biology and Chemical Technology
38. Dr. Ling JIN, Research Assistant Professor, Department of Civil and Environmental Engineering
39. Prof. Xiangdong LI, Chair Professor, Department of Civil and Environmental Engineering
40. *Dr. Yi JIANG, Assistant Professor, Department of Civil and Environmental Engineering

The Hong Kong University of Science and Technology

41. Dr. Jinping CHENG, Research Assistant Professor, Department of Ocean Science
42. Prof. Jianping GAN, Chair Professor, Department of Ocean Science
43. Dr. Stanley Chun Kwan LAU, Associate Professor, Department of Ocean Science
44. Prof. Hongbin LIU, Professor, Department of Ocean Science
45. Prof. Peiyuan QIAN, Chair Professor, Department of Ocean Science

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46. Prof. Xiaoyan LI, Professor, Department of Civil Engineering
47. *Dr. Celia SCHUNTER, Assistant Professor, School of Biological Sciences
48. Dr. Vengatesen THIYAGARAJAN, Associate Professor, School of Biological Sciences
49. Dr. Jin WU, Assistant Professor, School of Biological Sciences (Mobile Member)
50. Dr. Moriaki YASUHARA, Associate Professor, School of Biological Sciences
51. Prof. Tong ZHANG, Professor, Department of Civil Engineering