



**International Seabed Authority - China
Joint Training and Research Center (JTRC)**

Context, Development and Future Prospect

National Deep Sea Center & ISA Secretariat

11 February 2020

Context : Basis of Cooperation



UNCLOS (Part XI, XIII and XIV) and 1994 Agreement

- *Article 144 (Transfer of Technology)*
- *Article 148 (Participation of developing States in activities in the Area)*
- *Article 273 (Cooperation with international organizations and the Authority)*
- *Article 274 (Objectives of the Authority)*

It supports the implementation of ISA's responsibilities and obligations in relation to capacity-building, marine scientific research, and international cooperation for the development of marine technology as set out in parts XI, XIII and XIV of the UNCLOS and 1994 Agreement.

Context : Basis of Cooperation



The ISA strategic plan for the period 2019–2023

Strategic Directions

Training

- 5.4: ■ *Build on the achievements of contractor training programmes and assess their long-term impact on capacity-building.*
- 6.3: ■ *In cooperation with States parties, initiate and promote measures providing opportunities to personnel from developing States for training in marine science and technology and for their full participation in activities in the Area.*

Marine Scientific Research

- 4.1: ■ *Continue to promote and encourage the conduct of marine scientific research with respect to activities in the Area, with particular emphasis on research related to the environmental effects of activities in the Area.*
- 4.4: ■ *Be proactive in engaging with the international scientific community through workshops and sponsored publications in particular those data relating to the marine environment.*

Context : Basis of Cooperation

The 2030 Agenda for Sustainable Development (United Nations)

Sustainable Development Goal 14 (SDG 14): Conserve and sustainably use the oceans, seas and marine resources for sustainable development



The SDG 14 targets include:

14.a: Increase scientific knowledge, develop research capacities and transfer marine technology in order to improve ocean health and to enhance the contribution of marine biodiversity to the development of developing countries, in particular Small Islands Developing States and Least Developed Countries.

China's vision for JTRC

- To promote the activities in the Area in accordance with the Convention and 1994 Agreement
 - Guided by the principle of wide consultation, joint contribution, and shared benefits related to the Belt and Road Initiative
 - To contribute to the capacity building in developing countries for the benefit of the humankind
 - To perform its international obligations as the largest developing country in the world
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Development of JTRC

- January 2018: Administrator of the State Oceanic Administration Mr. Wang Hong met ISA secretary-General in Beijing and proposed the establishment of the joint training center
- June 2018 - May 2019: MoU was prepared between ISA & China Deep Ocean Affairs Administration
- July 2019: MoU between the ISA and the Ministry of Natural Resources (MNR) of China approved by the Assembly at the 25th session of the ISA.
- October 2019: MoU was signed between the ISA and the MNR of China in Beijing



Development of JTRC

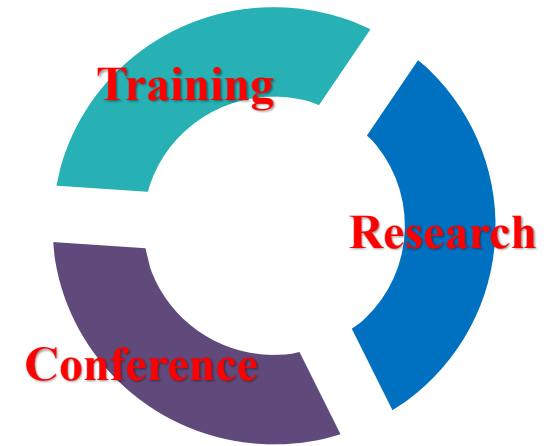
▪ **Vision (from MoU)**

JTRC will support the fulfillment of ISA responsibilities and obligations relating to capacity building, marine scientific research, and international cooperation for the development of marine technology, as well as the implementation of the Authority's strategic plan (2019-2023)

▪ **Missions (from MoU)**

- ✓ Promote training and capacity building opportunities
- ✓ Stimulate and advance the conduct of marine scientific research by developing States
- ✓ Foster cooperation in marine scientific research and technological development
- ✓ Increase participation of developing States in the Activities of the Area

Development of JTRC

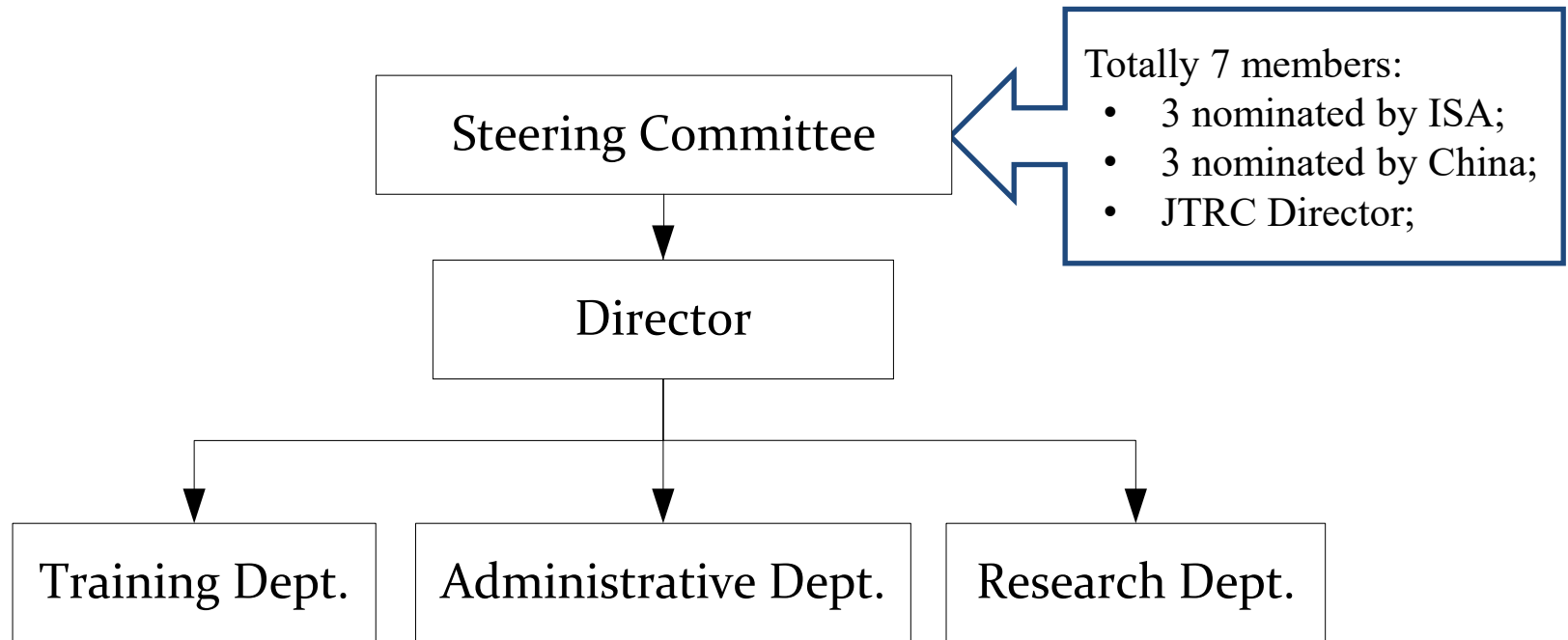


Main functions:

- Provision of **training programmes** in marine science and technology
 - Conduct of **collaborative research** programmes
 - Organization of **conferences, seminars, workshops and symposiums**
 - Promote **dissemination of the results of marine scientific and technological research**
 - **Technical cooperation** with other States, especially with developing countries;
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Development of JTRC

Operating framework:



Steering Committee (recommended)



Georgy Cherkashov

Member of Legal and Technical
Commission, ISA



Jihyun Lee

Director of the Office of
Environmental Management
and Mineral Resources, ISA



Gordon Paterson

Member of Legal and Technical
Commission, ISA



Feng Liu
Chairman of the Steering
Committee (suggested)

Secretary-General of China
Ocean Mineral Resources R&D
Association



Qian Wang

Deputy Director-General of the
Department of International
Cooperation, NMR of China



You-Quan Xiang

Deputy director-general of China
Oceanic Development
Foundation



Wu Gu
Director of JTRC

Director of National Deep
Sea Center of China

Development of JTRC

Duty of the steering committee:

- Providing advice and guidance to the director of the joint training and research centre on the following matters
 - Planning and implementation of the training and research programmes of the centre
 - Annual work plan of the centre on training and research programmes
 - Reports on the work of the centre
 - Fundraising for the training and research programmes of the centre
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Focus of future activities

Training Activities:

- To be carried out at all levels on **various aspects of marine scientific and technological research**, in particular marine biology, oceanography, hydrography, engineering, geological exploration of the seabed, mining and metallurgical technologies
 - To include training programmes in relation to ocean policy, and the law of the sea and the rules, regulations and procedures of the Authority
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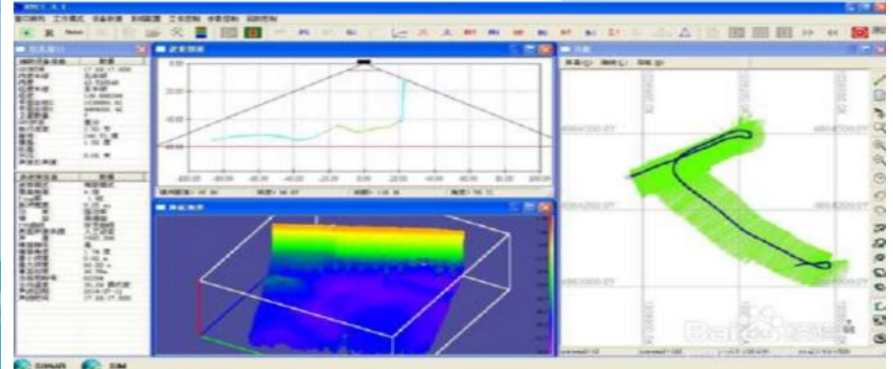
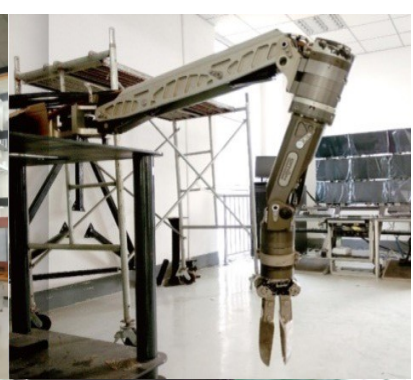
Focus of future activities

Research:

- **Policies, technologies and best practice** related to the protection and preservation of the marine environment, including the prevention, reduction and control of marine pollution
- **Monitoring trends and development in deep sea mining technology**, in particular technology relating to the protection and preservation of the marine environment

Conference/seminars/workshops:

- To promote **scientific and technological exchanges** of related research results in the Area
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Sources of funds for JTRC (from MoU)

- Operational funds provided by MNR (SOA)
- Training and research funds or grants provided by MNR (SOA)
- Training and research funds received through the Authority, if available
- Funds raised by the steering committee
- Voluntary contributions from contractors
- Voluntary contributions from members and observers of the Authority and other international organizations
- Where appropriate, grants from the Authority's Endowment Fund for Marine Scientific Research in the Area, subject to approval under the applicable ToR, guidelines and procedures of the Fund

JTRC is supported by the financial budget of MNR in 2020. We will expand the funds from the above in future.

Proposed tasks in 2020

Q 1

Long-term Strategic Approaches for JTRC Development and Operation

Q 2

JTRC Work Programme Development

Q 3

Engaging Partnerships and Cooperation

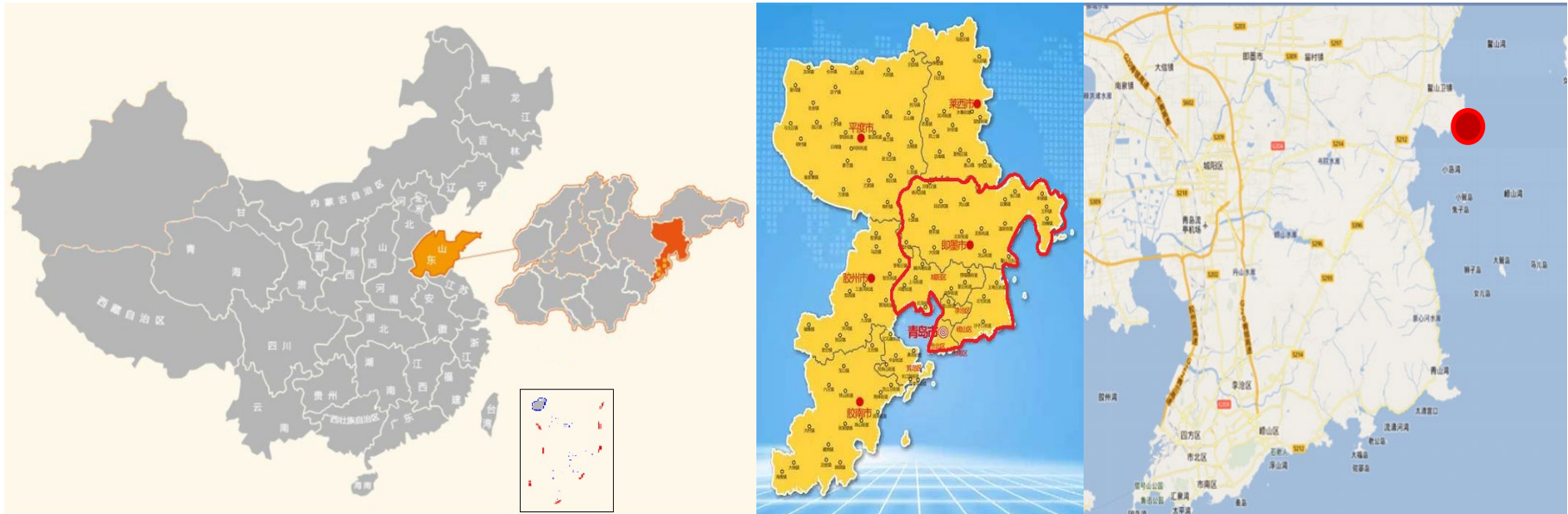
Q 4

Operationalization of 2020 Activities



Implementation jointly by ISA and China, with advice from the Steering Committee

Introduction to NDSC



🎥 (Video from National Deep Sea Center)

We are looking forward to
your suggestions:



Thank You!