

# **International Legislation - Status and Timeline**

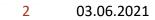
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Chair of the Legal and Technical Commission International Seabed Authority (ISA)

### **EEZ and Continental Shelf limits (as submitted)**

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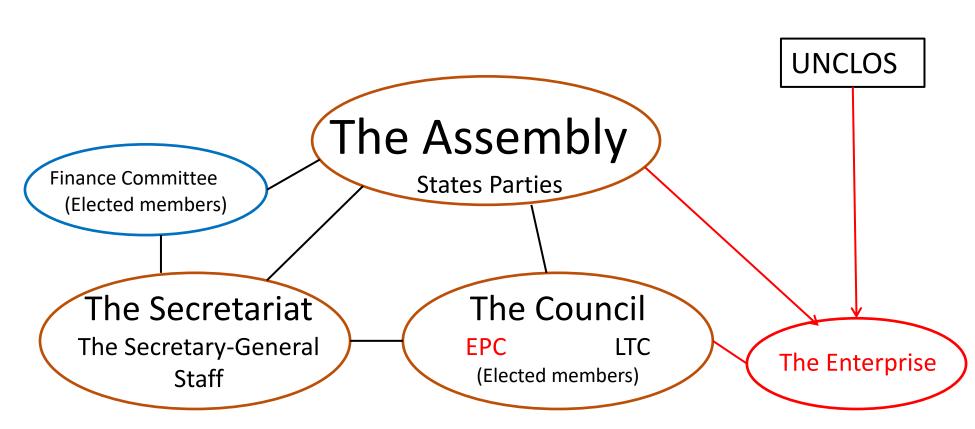


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### **Principles of the Convention**



- The rights in the Resources of the Area are vested in mankind as a whole, on whose behalf the Authority shall act (article 137)
- As regards activities in the Area:
  - shall be carried out with a view to ensure the development, and orderly, safe and rational management of the resources (ref. article 150)
  - necessary measures shall be taken to ensure effective protection for the marine environment from harmful effects (ref. article 145)



**The International Seabed Authority** 

**EPC - The Economic Planning Commission** LTC - The Legal and Technical Commission

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# System of permissions regarding activites in the Area

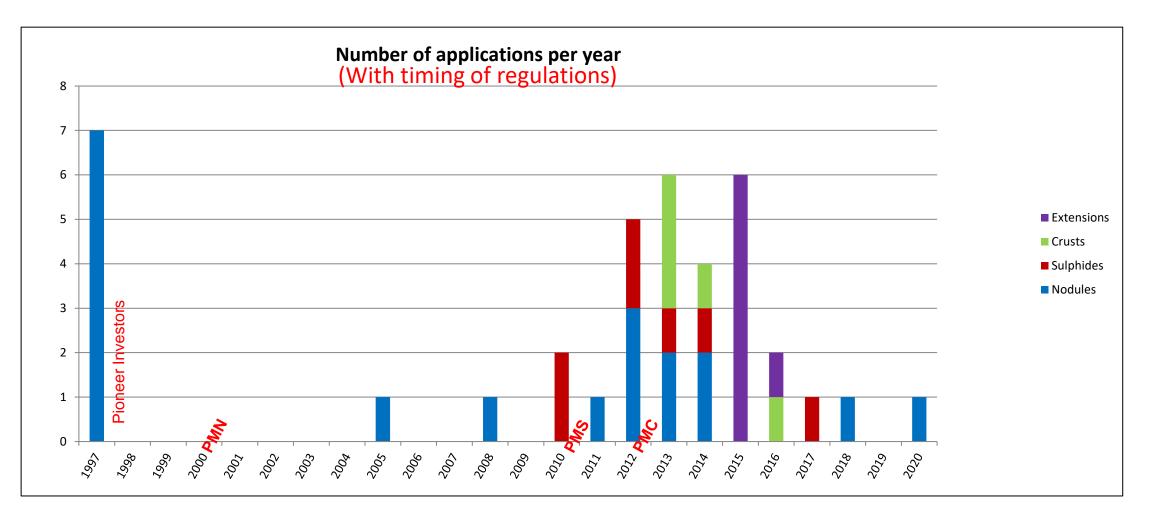
- Marine scientific research (UNCLOS Part XIII)
  - All States and competent international organizations
- Prospecting in the Area (ISA Regulations)
  - By notification to the S-G, recorded by S-G, annual reporting, non-exclusive
- Exploration (ISA Regulations)
  - By application, on 15 years Contract with ISA, exclusive rights of exploration
- Exploitation (ISA draft regulations)
  - By application, not automatic right through prior exploration contract
  - On 30 years contract with ISA, exclusive rights of exploitation



# **Exploration**

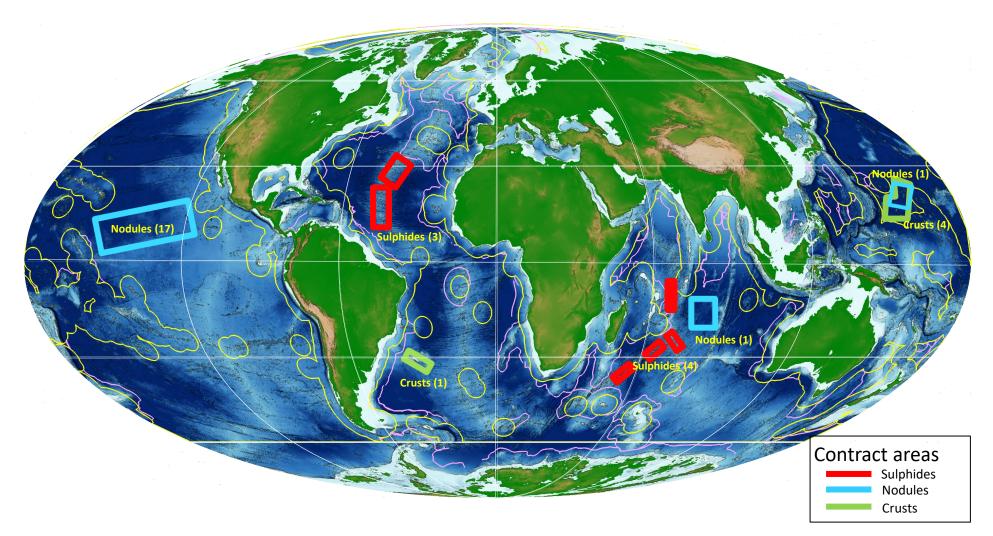


### **Applications for international exploration contracts**



### **Areas of exploration contracts under ISA**





### **States sponsoring exploration**



- Cook Isls
  Brazil
- Jamaica
- Kiribati
- Nauru

Japan

China

India

- Singapore
- Tonga

- South-Korea
  - rea Russia
    - UK

- Belgium
- France
- Germany
- Poland

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# **Exploitation**

# **ISA mining regulations**

- Exploitation regulations:
  - Studies for developing exploitation regulations initiated 2013
  - Council requests LTC to work out zero draft regulations 2015
  - Working zero draft published for consultations 2016
  - Revised draft published for consultation 2017
  - First draft considered by Council February 2018
  - Revised draft considered by Council July 2018 and published for consultation
  - Final, revised draft submitted for consideration by Council 2019

# Draft regulations for exploitation (ISBA/24/LTC/WP.1/Rev.1)



- Part I Introduction
- Part II Applications for approval of Plans of Work in the form of contracts
- Part III Rights and obligations of Contractors
- Part IV Protection and preservation of the Marine Environment
- Part V Review and modification of a Plan of Work
- Part VI Closure plans

# **Draft regulations for exploitation**



- Part VII Financial terms of an exploitation contract
- Part VIII Annual, administrative and other applicable fees
- Part IX Information-gathering and handling
- Part X General procedures, Standards and Guidelines
- Part XI Inspection, compliance and enforcement
- Part XII Settlement of disputes
- Part XIII Review of these Regulations



# Application for approval of a Plan of Work to Obtain an Exploitation Contract

#### **Environmental Impact Assessment (EIA)**

#### **Documents to accompany application**

The data and information to be provided pursuant to section 11.2

Mining Work Plan (Annex II)

**Financing Plan (Annex III)** 

Reg 7 (3)

Environmental Impact Statement (EIS), (EIA and Annex IV)

**Emergency Response and Contingency Plan (Annex V)** 

Health, Safety and Maritime Security Plan (Annex VI)

**Training Plan** 

Environmental Management and Monitoring Plan (EMMP) (EIA and Annex VI)

**Closure Plan (Annex VII)** 

Subject to 60 days public consultation

Subject to 60 days public consultation

Subject to 60 days public consultation

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### **Mining Work Plan**



- The boundaries of the proposed Mining Area and a comprehensive statement of the Mineral Resource
- A proposed programme of mining operations and sequential mining plan
- Details of the equipment, methods and technology expected to be used
- A technically and economically justified estimate of the period required
- A detailed production plan
- A project economic evaluation and financial analysis
- The estimated date of commencement of Commercial Production

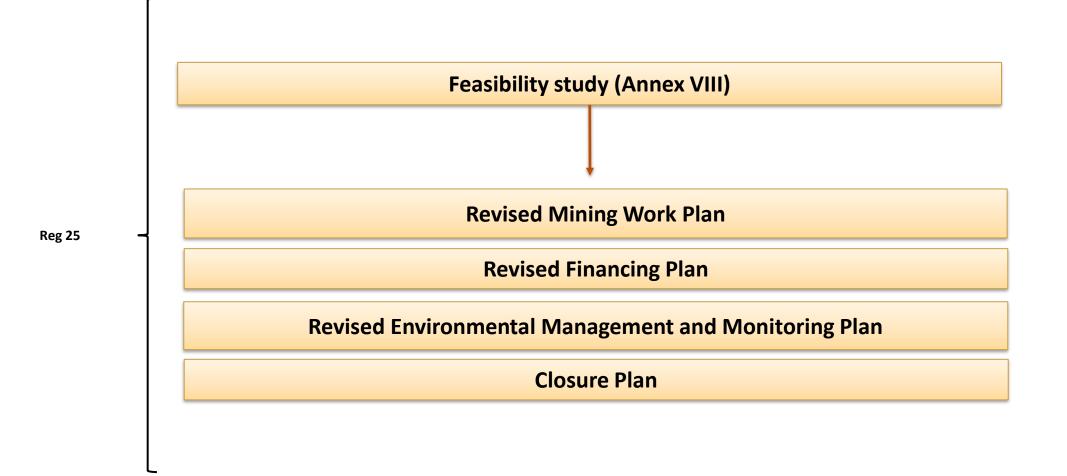


#### **Overview of Contractor Activities**

	Under EXPLORATION Contr	Under EXPLOITATION Contract						
Contractor activities	Exploration phase: +- 15 years	Contract continues in force	Indicative timings:	+- 5 years?	+- 3 years?	+- 2 years?	+- [20] years?	+ [x] years
			Feasibility		Construction	Production	Commercial Prodn.	Closure
Pre-feasibility stage /	Est. mineable areas / grade & quality of resource (inferred / indicated); testing of components	on for a Plan of ploitation	Continued exploration activities					
Environmental baseline, risk assessment, monitoring and management	Est. baselines; monitoring programme + Prior EIA for specific activities (e.g. testing) + main EIA	Application for Approval of a Plan of Work for Exploitation	Continued environmental assessment. Monitoring and management under Environmental Management and Monitoring Plan					
Feasibility stage / study (bankable) <sup>2</sup>			FS require investme (probable rese	nt capital / proven	Revision of plans			
Construction					Infrastructure (e.g. Mining vessel)			
Production: ramp up (commencement of mining activities)						[As per FS / mining plan]		
Commercial production							[As per FS / mining plan]	
Closure / Post closure monitoring								[As per Closure Plan]

### **Documents to be submitted prior to production**







### **Remaining Elements**

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# **Timeline, remaining elements**



- LTC initiated work on standards and guidelines 2019
- Council Working Group on financial payment system initiated in 2018
- Ongoing process on the operationalization of the Enterprise
- Adoption of regulations expected at earliest 2022



- Standards and guidelines are to be put in place in phases, as follows:
- Phase 1: Completion by the time of the adoption of the draft regulations;
- Phase 2: Completion prior to the receipt of the first application for a plan of work for exploitation
- Phase 3: Completion by the time of commencement of commercial mining activities

### Phase 1 Standard and Guidelines – consultations concluded



- **1**. Guideline on the preparation and assessment of an application for the approval of a Plan of Work for exploitation.
- 2. Guidelines for the establishment of baseline environmental data
- 3. Standard and Guidelines for environmental impact assessments (EIA)
- 4. Guidelines on the preparation of an environmental impact statement (EIS)
- 5. Standard and guidelines on the development and application of environmental management systems (EMS)
- 6. Guidelines for the preparation of an environmental management and monitoring plans (EMMP)
- 7. Guidelines on tools and techniques for hazard identification and risk assessments
- 8. Standard and Guidelines for the preparation and implementation of emergency response and contingency plans
- 9. Standard and Guidelines for the safe management and operation of mining vessels
- 10. Standards and guidelines on the form and calculation of an environmental performance guarantee

# NPD

# Financial Payment System – Open-Ended Working Group

- MIT consultancy study\* recommendation:
- Payment System: Two Stage System with a Variable Ad Valorem Royalty
- Assumptions:
  - Royalty rate tied to running metal price
  - Royalties based only on activities at the collector
  - Two stages: low rate during initial stage, increased rate during main stage
- System considered to allow:
  - Captures good amount of upside benefits with limited downside risk
  - Can be designed to give overall higher overall revenues than one stage system



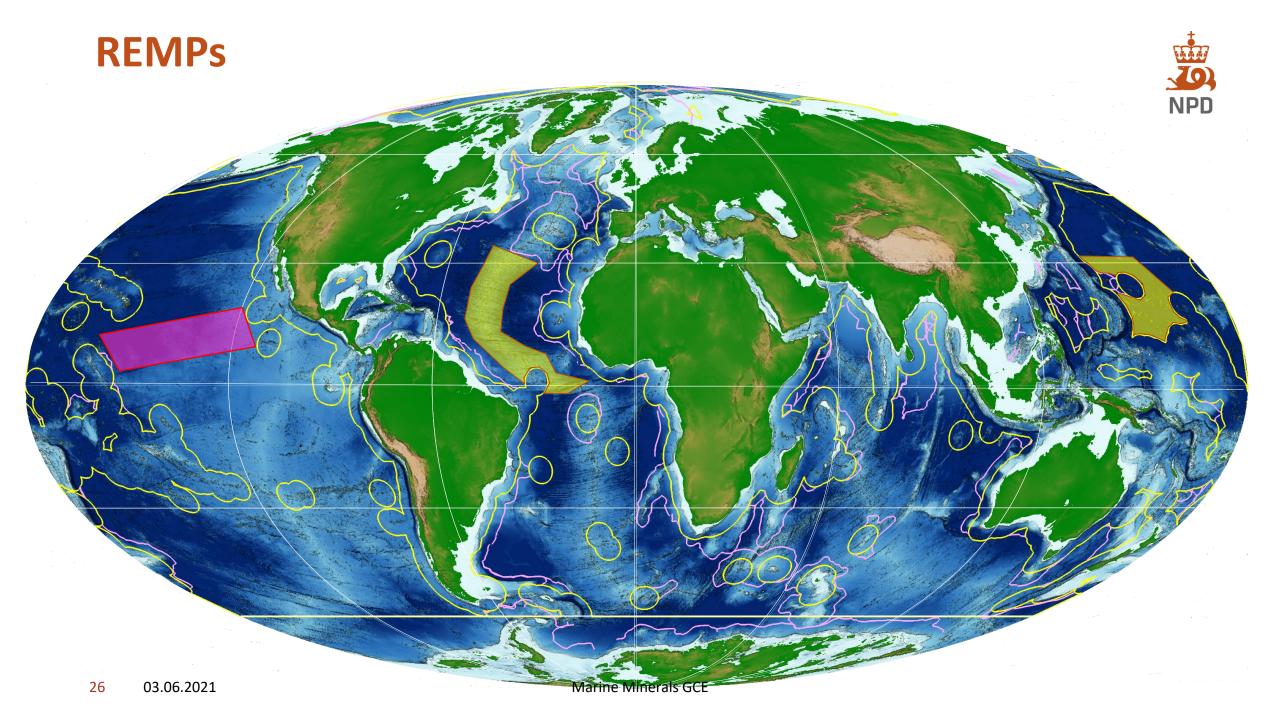
### **Environment concern**

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# **Regional Environmental Management Plan (REMP)**



- A REMP provides region-specific information that facilitates the decision-making process for exploitation activities in the relevant areas
- In place:
  - Environmental Management Plan for the Clarion-Clipperton Zone
- Under development:
  - REMP for the area of the Northern Mid-Atlantic Ridge
  - REMP for the area of the Northwest Pacific



### **Summary**



- ISA manages the seabed minerals of the Area on behalf of humankind
- Regulations for resource management is based on the Convention
- ISA regulations for exploration put in place during 2000 2012
- 31 exploration contract currently active in the Area
- Preparations for ISA's exploitation regulations initiated 2013
- LTC process of drafting regulations and regular public consultations 2015 2019
- Final draft regulations submitted for consideration by Council 2019
- LTC initiated preparations of standards and guidelines 2019
- Development of REMPs and payment system developed in parallel
- Adoption of regulations by Council expected at earliest 2022



### End