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### **Honourable Mark Brown Prime Minister, Minister for Seabed Minerals** July 2013 - current

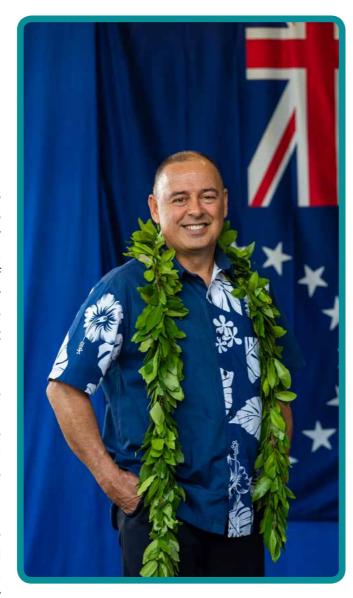
Ten years ago, then Minister Sir Tom Marsters along with the Cook Islands Seabed Minerals Authority (SBMA) commenced activities under the Seabed Minerals Act 2009. This was seen as a major step towards the development of an industry that was still in its infancy globally but that offered so much potential if only we could realise it. This was, and remains, a great responsibility.

A few months later I took over as the responsible Minister, a portfolio I have held to this day. From its humble beginnings in 2013 we have developed our seabed minerals sector and achieved so much to date, for which we have rightly gained international recognition.

From the effective management of our role as a sponsoring state at the International Seabed Authority (ISA), to the adoption and implementation of a robust regulatory granting of the Cook Islands first ever seabed minerals exploration licences. As a country we aspirations. continue to build on our successes through a unified vision: a sustainable minerals future for The Cook Islands has achieved so much over Cook Islanders.

With the exploration phase well underway, I horizon. look forward to the unprecedented knowledge we will gain about our Marae Moana, the potential of our seabed minerals, and how we sector

it would need to tap into global expertise a testament to the SBMA and relevant over the next ten years. Government agencies that it has been able to form strong relationships with people, Kia Manuia and God Bless



framework for exploration, and the historic organisations, and countries that share our values and have supported us to achieve our

> the last ten years, yet there is still much to be done and many challenges that loom on the

I have every confidence that the SBMA and relevant agencies have the capability, can responsibly and sustainably develop the determination, and leadership to overcome these challenges and develop an industry that will benefit our current and future generations, The Cook Islands has long understood that and one that Cook Islanders can be proud of.

to develop a world leading industry. It is I look forward to seeing what we will achieve

### **Sir Tom Marsters** Kings Representative, **Former Minister** November 2010 - July 2013

There is so much to reflect upon over the last five decades, let alone the last 10 years.

The term polymetallic nodules was an alien phrase to us here in the Cook Islands, until in 1974 I was attached to a Soviet expedition on RV Vityaz headed by the renowned Professor Bezrukov. Since then there have been ups and downs with the industry, but each time the ups got higher and the last ten years certainly have been some of the most exciting.

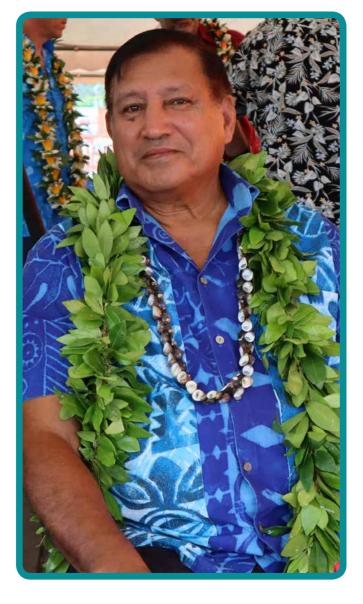
I want to congratulate all those who have been involved in this exciting journey:

Firstly the Prime Minister, Mark Brown, Commissioner Alex Herman and staff of the SBMA and of course not to forget, the members of the Advisory Committee, headed by Bishop Pere, and the members of the Licensing Panel headed by Garth Henderson.

I also want to extend my heartiest congratulations and commendation to the former and very first Commissioner, Paul Lynch and his team who did a lot of the ground work had. to pave the way for us to be here today.

I salute those visionaries of the past, the likes of Sir Albert Henry, (Papa Arapati), Sir Geoffrey Henry, Sir Dr Terepai Maoate and others, who despite criticism and the barriers put in front of them, kept the flame burning.

Ten short years ago, I was serving as the Minister responsible, and with the assistance of the Commonwealth Secretariat, we engaged the services of Professor David Cronan of the Imperial College of London, a globally and highly respected oceanographer and geologist. Professor Cronan collected all the data and all of the past reports written and prepared on God Bless, Kia Orana



our resources. This exercise began in February 2013, well and truly into the next year of 2014, and gave us the first complete view of what we

Since then, we have come a long way. Our legal instruments are now largely completed. We now have three strong companies all committing to explore our area and to try and develop the nodules into a real industry for us.

That is a brief snapshot into our history and I am so pleased that the team today is dedicated, that the team today has vision. What we need now is to support our team.

My best wishes to my successor Prime Minister Mark Brown, and to Alex and her team.

### **Alex Herman** Commissioner 13 January 2020 - current

SBMA's vision sounds simple: A sustainable minerals future for Cook Islanders.

In reflecting back over the last ten years I am impressed by the mountain we have had to climb and the mountains that are yet to come. We now have regulations, policies, standards and guidelines, databases, new seabed maps and estimates on the quality of deposit and future opportunities. We have environmental management frameworks, three exploration licences, and an exploration contract with the International Seabed Authority. We also have numerous articles, factsheets, videos, conference presentations and most importantly we have undertaken community consultations and received our peoples feedback directly.

SBMA's goals involve policy and regulatory oversight, knowledge management, partnerships and cooperation and capacity development for our Cook Islands people. Ten years ago, as a humble Legal Officer I was pretty confident about what all that involved. Today, that confidence is tempered with the appreciation of the support that we have received as we meet the challenges together. Today, I now know we can develop some of the best systems in the world, to protect our Marae Moana and to potentially transform our country for the benefit of our Cook Islands people.

We would not be here without the efforts of many people and organisations. As we like to say "Team work makes the dream work". So, I take this opportunity to once again thank in, day out to put in the work. They are: Dede everyone.

I would like to honour both our past and present Ministers for Seabed Minerals, Sir Tom Marsters and Hon Mark Brown. We have been Te Atua te Aroa fortunate to have Ministers' who have had the



vision to see the potential of this sector, and have given their full support to enable the Authority to do the necessary work required to progress this sector.

Likewise, I would also like to acknowledge my predecessor Paul Lynch, who helped pave the way for SBMA, along with the first SBMA team members Caroline Tiria, Darryl Thorburn and Marino Wichman.

I also honour the Chair of our Advisory Committee, Bishop Tutai Pere. I believe that through your leadership, we can build better and stronger engagement between the Government and our people. Likewise, to the Chair of our Licensing Panel, Garth Henderson, for your steadfast leadership in ensuring robust decision-making in our processes.

Lastly, and certainly not the least, I would like to honour the SBMA team (both former and current). I thank God for each and every one of you. These are the people who show up day Mingi, Derek Johnson, Kaitini Herman, Latishia Maui-Mataora, John Parianos, Rima Browne, Tanga Morris, and Te-Ara Henderson.

### **Paul Lynch Former Commissioner** 29 August 2012 - 10 January 2020

In 2009, I was working in our Crown Law Office as a Senior Crown Counsel, responsible for our Legislative Drafting programme, preparing laws for Parliament. Little did I know that when the Seabed Minerals Act got passed in 2009, that 4 years later in 2013, I would be on the "other side" and now responsible for implementing that Act that we drafted in 2009.

In 2010/11, His Excellency the King's Representative, Tom Marsters was the first responsible Minister of Minerals and definitely had a clear vision on the need to get that Act commenced and implemented. In 2012, I was employed by the Government to take the Seabed Minerals Authority (SBMA) from just words in an un-commenced Act and an empty office space with no budget and no employees to a fully fledged, legitimate Government agency. Over time, the SBMA became known and respected in regional and international seabed minerals related arena and conferences. This could not have been done without Darryl Thorburn's great expertise and experience as the former head of the New Zealand Crown Minerals Office based in Wellington.

We started with an annual budget of \$50,000 in 2011/12, administered by MMR. In 2012, \$370,000 was allocated to set up the SBMA. As the budget slowly grew each year, we employed young, talented Cook Islanders to be trained to lead the many new activities required under the Act, from drafting new Regulations, holding community engagement opportunities and gathering and collating all the various seabed minerals data from around the world.

In 2013/14, I was able to lead the SBMA to engage at the International Seabed Minerals Authority (ISA) in Jamaica. This engagement led to the Cook Islands in 2016 becoming a Sponsoring State of our own Exploration



Contract in the Clarion-Clipperton Zone (CCZ). I was proud to present the Cook Islands application before the ISA's Legal And Technical Committee (LTC) at the ISA in Jamaica in 2014.

However, my lasting and proudest legacy, in my years at the helm of the SBMA, has been the development of educational and training opportunities for Cook Islanders. An effort that continues to bear fruit and benefit for the SBMA and the Cook Islands community and development partners generally.

In the future, I see a very bright future for the people of the Cook Islands through the continued diligent work of the SBMA

I remain confident that, if we can solve the technical and environmental challenges ahead in this new sector, that our national seabed minerals sector will become a wonderful new contributor to not only our national development and economy, but also to positively enhance our world's urgent climate change adaptations and our collective human development and well-being.

Kia manuia e kia toa



# MARCH 2013 SEABED MINERALS ACTIVITIES COMMENCE

TE AKAMATA'ANGA O TE KAVEINGA

With the newly established Seabed Minerals Authority (**SBMA**) in June 2012, along with a number of SBMA personnel employed, the first key actions required was to prepare for the Seabed Minerals Act 2009 (**2009 Act**) coming into force. This included preparing documents and processes to allow exploration to take place, as well as establishing other mechanisms, including the Advisory Board





On 8 March 2013, a small ceremony was held in front of the SBMA office

- Commemoration of Seabed Minerals Act 2009 coming into force
- Commencement of Seabed Minerals Activities
- Establishment of first SBM Advisory Board
- Launch of SBMA website







# TE KAVEINGA E TE TURE POLICY & LEGAL FRAMEWORK

The Cook Islands seabed minerals legal In June 2019, the 2009 Act was replaced by framework was established with the passing the Seabed Minerals Act 2019 (2019 Act). The of the Seabed Minerals Act in 2009 (2009 new Act introduced a revamped legislative Act), developed with the assistance of the framework in anticipation for a second licensing Commonwealth Secretariat. The 2009 Act process. Key changes included: received bipartisan support during its passage through Parliament. The 2009 Act allowed • strengthening for the establishment of the Seabed Minerals Authority.

In 2014, the Cook Islands released its national • Seabed Minerals policy, setting out the Government's rationale and vision to guide the sustainable development and management of • its seabed minerals resources.

A year later, the Seabed Minerals (Prospecting In 2020, the Exploration Regulations 2020 and Exploration) Regulations 2015 was passed along with amendments to the 2009 Act, in order to enable the SBMA to run a tender regulations set out the mechanisms for a robust licensing process.

SBMA one of the key Government agencies entrusted with implementing the objectives under Marae Moana.

In May 2018, the Minister put a temporary hold frameworks and processes to be reviewed. This involved reviewing the 2009 Act and the underpin the legislative framework. licensing regime. As part of the legislative review, consultations were undertaken from Looking ahead, the Cook Islands will continue October 2018 through to April 2019 both in 40 written submissions from a range of stakeholders including Government, Non- agencies and stakeholders. Governmental Organisation, the community, aronga mana (Cook Islands traditional leaders), and industry members.

- transparency and accountability within the licensing regime
- the establishment of an expert Licensing Panel to evaluate applications
- specific incorporation of environmental legal principles, including a precautionary approach and best environmental practices
- the inclusion of specific obligations and duties on licence holders

replaced the Seabed Minerals (Prospecting and Exploration) Regulations 2015. These new exploration licensing process. This enabled the Minister to open the Cook Islands Economic In 2017, the Marae Moana Act was passed, with Exclusive Zone (EEZ) for exploration in October 2020 resulting in the three Licence Holders the Cook Islands have today.

Further legislative amendments were made in 2021. In addition to Acts and Regulations, the on SBM activities to allow current legislative SBMA, along with key regulatory agencies like NES are developing standards and guidelines to

to build a robust legal framework with Rarotonga and the Pa Enua. SBMA received regulatory, environmental, financial and social considerations, in collaboration with relevant

The Seabed Minerals Authority (SBMA) was included improving its licensing process. the first core SBMA team for the first few years development of standards and guidelines. of SBMA's existence.

preparatory work for developing the SBM sector, including through commencing SBM activities and running the first exploration team. During this period, Anna Glassie, Caroline tender, developing the processes and laws for licensing activities, participating in regional keeping in touch. and international meetings, initial community consults and developing up the capacity of SBMA are fortunate to have had Darryl staff.

As SBMA evolved and grew, more staff would expertise and mentorship and have become join the team, while others moved to other part of team Cook Islands and the SBMA family. organisations, while still keeping in touch. Between 2016 and 2019, Cook Islanders Rima The SBMA team has developed and matured Browne and Anna Glassie joined SBMA, while Alex Herman, Marino Wichman and Darryl Thorburn left. During this period, the SBMA continued to undertake preparatory work. SBMA's responsibilities now extended to the Cook Islands vision for its SBM sector. international waters through CIIC obtaining an Exploration Contract with the International One of the greatest achievements of this office Seabed Authority, with the Cook Islands thereby has been the capacity building and development becoming a Sponsoring State. There was also of Cook Islanders within the sector, whether increased interest from industry to undertake through employment or internships. This will exploration activities. Although this needed help to ensure the sustainable future of SBMA to wait until the Cook Islands completed the as well as the Cook Islands SBM sector. legislative review of its SBM legislation, which

formally established on 26 June 2012. Its first On 13 January 2020 Alex Herman took over Seabed Minerals Commissioner, Paul Lynch, SBMA as Commissioner. With the 2019 Act was appointed on 29 August 2012. Darryl in place, the short term objective was to run Thorburn was attached as a Natural Resources another exploration licensing process, which Advisor, funded through the Commonwealth after passing new Exploration Regulations, Secretariat. Shortly afterwards, its first launched in October 2020. What followed employees were recruited: Caroline Tiria as was a rigorous 16-month licensing process Admin Manager and graduate Alex Herman as resulting in three exploration licences issued. Legal Officer in January 2013. Later in the year, This activated SBMA's monitoring, compliance Marino Wichman joined as GIS Officer. This was and enforcement functions, and included the

Between 2020 and 2023, Dede Mingi, Eileen Between 2013 and 2016, the SBMA undertook Macquarie, Derek Johnson, Te-Ara Henderson, John Parianos, Kaitini Herman, Latishia Maui-Mataora and Tanga Morris joined the SBMA Tiria, Eileen Macquarie left SBMA while still

> Thorburn, Chris Brown and John Parianos join our team. They have provided invaluable

> quickly over its 10 year life span. We have achieved many milestones over the years through the hard work of many individuals and organisations who appreciate and understand

Minister for **Seabed Minerals** 





**Seabed Minerals** Commissioner

Alex Herman



**POLICY & REGULATORY OVERSIGHT** 

**KNOWLEDGE** MANAGEMENT

**PARTNERSHIPS** & COOPERATION **CORPORATE SUPPORT** 

**Corporate Support** 

**Director** 

**Policy & Regulatory Oversight Director** 

**Derek Johnson** 



Knowledge **Management Director Coorporations Director** 

**John Parianos** 



**Edward Herman** 



**Partnerships &** 



**Communications** 

Officer

Kaitini Herman

**Beverly Stacey** 



**Senior Policy & Regulatory Oversight Officer** 



**Policy & Regulatory** 

**Oversight Officer** 

**Te-Ara Henderson** 

**Management Officer** Latishia Mataora



Rima Browne

Senior Knowdege





**Knowledge** 

**Tanga Morris** 



**Management Officer** 







# RIMA BROWNE

Rima Browne first joined SBMA in May 2018. Today, she is a Senior Knowledge Management Officer, and has contributed to several recent scientific advancements by SBMA.

Her most notable accomplishment thus far is being awarded the 2023 ISA Secretary General's award for excellence in deep-sea research, for her new geomorphological map of the Cook Islands.

The award is for young researchers from developing states who have made outstanding contributions to the advancement of scientific knowledge of the deep-sea environment, or to the development of environmentally sustainable regulatory frameworks.

She is the first Pacific Islander to receive this distinguished award, her work receiving accolades from an international judging panel of distinguished experts.

Upon accepting her award, she said, "In a time where science and knowledge is recognised to be essential for us to learn and grow, we must be brave and step up to the challenge."

The management of the seabed habitat within our Marae Moana is another project I am involved in. Making decisions about key drivers and proposing management zones is really exciting. The responses from a variety of internal and external stakeholders, including some environmental experts, have been very positive and encouraging.

She has also played a key role in updating the Cook Islands' nodules' mineral resource estimation. In terms of information quality and interpretation, we have been able to make some significant new contributions, so we anticipate that this will be the most accurate resource estimate to date.

In her role she has also had the pleasure of representing SBMA at workshops and conferences as well as going onboard recent research expeditions as an Inspector. Both responsibilities adding to her professional development.











# **SBMA** Through the years





































































# 

## **Advisory Board 2013**

On 8 March 2013, the first Seabed Minerals Advisory Board was appointed under the 2009 Act.



Gerald McCormack (Chair)
Tutai Pere
Teresa Manarangi-Trott

Kaumaiti Travel Tou
Tupe Short
Mike Henry

Willie John
Makiuti Tongia
Paul Lynch (as Commissioner)



Chair Bishop Tutai Pere



Committee Member
Makiroa Mitchell (SEP 2020 - JUL 2022)



Committee Member Teaoakamaru Mariri-Tepou



Committee Member
George George Williamson



Committee Member Sam Napa

# **Advisory Committee 2023**

On 24 September 2020, the SBM Advisory Committee (**Committee**) was appointed by the Minister under the 2019 Act. The Committee is made up of community leaders representing religious, aronga mana, environmental, private sector, sporting, youth and academic perspectives, and includes the Commissioner.

The role of the Committee is to provide community perspectives to the Government on the development of the seabed minerals sector. The Committee makes recommendations to the SBMA on SBM policies, and provides a voice for the community.

# **Seabed Minerals Licensing Panel**

### On the 23 August 2021 the Minister appointed an **Expert Licensing Panel consisting of:**

- Garth Henderson (Cook Islands) **Chair, Government Expert**
- Pamela Maru (Cook Islands) **Maritime Expert**
- Chris Brown (UK) **Financial & Legal Expert**
- Hannah Lily (UK) **Legal Expert**
- Malcolm Clark (NZ) **Environmental Expert**

The establishment of the Panel was the first of its kind in the Cook Islands. It was a proud moment to have Cook Islanders amongst internationally recognised experts aiding in the evaluation of exploration licence applications to ensure a robust and rigorous process.

The role of the Panel was to evaluate and score three applications against a prescribed criterion:

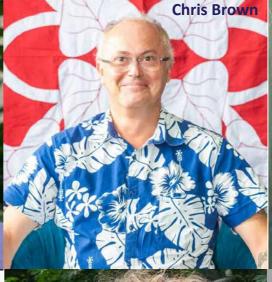
- 1. Proposed work plan and viability of the exploration operation
- 2. Financial resources
- Technical competence
- 4. Compliance
- 5. Risk assessment and management
- National interest
- Commitment to Marae Moana

After 3 weeks of evaluations and a Q&A session with Applicants, the Panel met for deliberations from 13 to 17 December 2021 and followed a hybrid format of in person and virtual attendance in Rarotonga due to COVID restrictions. After almost 25 hours of comprehensive deliberations, the Panel recommended to the Minister to grant 3 applications for Exploration Licences.

- Alison Swaddling (UK) **Environmental Expert**
- Richard Johnson (UK) **Environmental Expert**
- Darryl Thorburn (NZ) **Extractives Expert**
- Akuilla Tawake (Fiji) **Extractives Expert**
- Andrew Lipman (USA) **Engineering & Maritime Expert**

"The calibre of our expert **Licensing Panel is world** class. It includes members who are well recognised SBM experts and who are also familiar with the Cook Islands SBM resource and context. The Cook Islands is building a world leading SBM sector, and this Panel is reflective of that." **Prime Minister Mark Brown** 

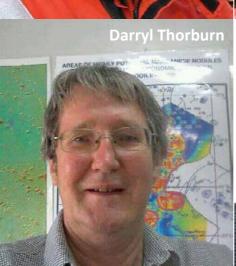




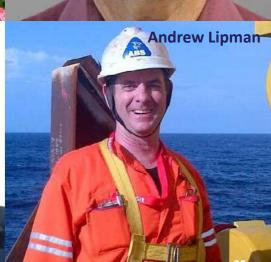


Hannah Lily









# **Seabed Minerals Working Group**

# EST. 2018

In 2018, Minister Mark Brown established the SBM Working Group made up of relevant Government agencies including: SBMA, NES, MFEM, MFAI, CLO, CIIC and Marae Moana. The SBM Working Group chaired by SBMA, was formed to ensure that work undertaken to develop the SBM sector occurred in a cohesive manner, across relevant ministries and entities.

















# KO TATOU RAI EI TERE KI MUA **BRINGING OUR PEOPLE** ON THE JOURNEY

The Cook Islands people are our Over the past ten years, SBMA have met benefiting from sectoral development.

communities. This allows us to:

- Raise awareness and understanding Whilst we are very proud of the efforts on SBM issues
- SBMA is doing
- our Cook Islands people
- Provide accurate and science-based information
- Provide updates on current and and hopes for the SBM sector, and we upcoming SBM activities
- agencies on public initiatives and benefit our people and country. events
- Contribute towards a well-informed Cook Islands public, who can engage progressively on SBM-related matters

most important stakeholder. SBMA is with numerous community stakeholder committed to developing this sector groups throughout Rarotonga and our Pa in a sustainable and transparent way Enua. The engagements involved a wide by placing high priority on ensuring range of people from our Government, our people are leaders and partners in church and traditional leaders to our this journey. We do this by keeping our students and communities in English community informed, empowered and and Cook Islands Maori. SBMA are fortunate that our consultations in recent years have been ably led by SBMA's core priorities is to reach out Prime Minister Mark Brown, along with and engage with our Cook Islands the support of our Advisory Committee.

made to engage with our people, we • Be transparent about what the have learned key lessons to help improve future engagements. With the issuing • Create avenues for stakeholder of three exploration licences in early concerns to be heard and addressed 2022, the Government will continue to • Foster a collaborative approach to inform our communities of progress and the development of the SBM sector sector developments, demonstrating with contributions and input from transparency and accountability to the people of the Cook Islands.

Our people have shared their concerns have come away with great suggestions • Collaborate with other Government on how we can develop the sector to



# Mangaia













# Rarotonga

























# Atiu, Mitiaro, Mauke





















# Aitutaki













# Palmerston











# Manihiki, Rakahanga, Penrhyn























# Pukapuka













# Nassau

















# ORONGA'ANGA I TE TIKI'ANGA KIMI KITE LICENSING PROCESS

# **2015 Licensing Process**

On 11 August 2015, the Cook Islands launched its first tender with an open Application period that was extended to 11 January 2016. At the closing of the tender, no application for exploration licences were received. There were a number of entities who expressed their interest in applying for Exploration Licences, however could not commit the resources required to prepare an application and apply for a Licence.





# **2020 Licensing Process**



On 22 October 2020, the Minster for Seabed Minerals opened an exploration tender for areas within the Cook Islands EEZ.













### **Stages of the Licensing Process 2021 - 2022**



It was imperative to the Cook Islands Government that only the most suitable applicants be granted licences to undertake exploration in Cook Islands waters. To help ensure this occurred, the licensing process consisted of the following five main stages.

assist with its assessment.

















in October 2020. We have put in considerable time and effort to ensure that we have followed each

"Leaving the legal and scientific tasks in the hands of the SBMA, our primary role as the Advisory Committee was to ensure that each and every member of our **Cook Islands communities and** population is reached and provided with the necessary information and understanding on SBM Exploration." **Advisory Committee Chair Bishop Pere** 

1. Due Diligence assessment by SBMA against a set qualifying criteria. This took four months and only three of the four applicants met the criteria to advance to the next stage. SBMA

contracted an international due diligence firm to

- **2. Public notification**, extensive information about the applicants and their applications were provided to the public (including in Cook Islands's Maori), who were given the opportunity to make submissions on the applications.
- 3. Consulting with Crown agencies on the applications, and in particular with the National Environment Service on the need for any specific licence conditions relating to the protection of the marine environment.
- 4. Evaluation of the applications by an expert **Licencing Panel** taking into account the SBMA's assessment, public submissions, and consultation Crown Agencies, Following over three weeks of evaluation the Licensing Panel recommended to the Minister that the three remaining applicants be granted exploration licences.
- 5. Final consideration by the Minister and Cabinet. The Minister agreed with the Licensing Panel's recommendation and Cabinet gave the final approval for the Licences to be granted.

"This has been a lengthy and robust licensing process since we launched and every one of the licensing steps required, and that we have kept our Cook Islands public informed on our progress." **Commissioner Alex Herman** 



"I'm proud of the work done by the Panel, I'm confident that the recommendations we made to the Minister were the right ones for our country." Licensing Panel **Chair Garth Henderson** 







# **Issuing of Exploration Licences 2022**



On 23 February 2022, the Cook Islands issued three exploration licences to CIC, CSR and Moana Minerals respectively, after a rigorous 16-month licensing process. This was an historic occasion for the Cook Islands marking our first real steps towards the development of our SBM resources.











"Cabinet was impressed with the robust and comprehensive licensing process undertaken. This helped lead to our decision to grant these SBM exploration licences." Prime Minister Mark Brown





















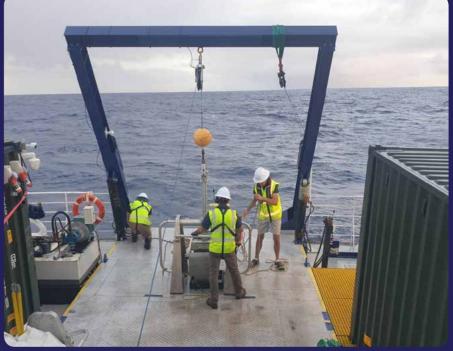
"There are real challenges to working out at sea, and to see how problems are solved in the field, on the go, has been a great learning opportunity."
Senior Knowledge Management Officer, Rima Brown

"Being an inspector allows me to put my theoretical knowledge into action as experience enhances wisdom. The marine environment is the most important and as a young striving scientist what better way to learn than being out at sea where all the action takes place."

Knowledge Management Officer, Tanga Morris



"It was great to see first hand some of the exploration activities Licence Holders were carrying out and ensuring they were remaining compliant with their work plans we had approved" Policy & Regulatory Oversight Officer, Te-Ara Henderson







"From my extensive experience in deep sea minerals in the **Clarion Clipperton** Zone, I found being an inspector a perfect opportunity to compare and evaluate the practical effectiveness of the licence holders techniques and processes." Knowledge **Management Director, John Parianos** 

# KIA RAUKA TE KITE E TE MARAMA SCIENTIFIC ADVANCEMENTS

Building on the work of the last three decades, the last ten years saw major progress in the advancement of our scientific understanding of the seabed through three main ways.

# Past Research **Expeditions**

After numerous exploration expeditions in the 1970s, 1980s, and early 2000s marine exploration quietened in the Cook Islands. Interest was revived in 2016 with the signing of a joint venture between the Cook Islands Investment Corporation (CIIC) and Belgium based company Global Sea Mineral Resources NV (GSR). This led to the joint venture conducting a successful sampling expedition in the 16-159 area north of Aitutaki in September 2019. A few months later, Ocean Minerals LLC (OML) conducted a similar expedition in an area immediately to the south. Whilst the Exploration Programme is currently underway, with two of the licence holder commencing activities, SBMA continues to pursue avenues for further research expeditions in Cook Islands waters.





















### **Minerals Deposit Modelling**

At the time SBMA was established in 2013, Professor David Cronan, Imperial College London, used his decades of experience and expertise to provide SBMA with very detailed data compilation and mineral inventory estimates, highlighting nodule fields focused on today. Around the same time the Commonwealth Secretariat provided hypothetical modelling that helped inform the forthcoming Seabed Minerals (Royalties) Regulations 2013.

A year later in 2014, New Zealand consultants Most recently in 2022 and early 2023 SBMA worked Kenex completed probabilistic valuation and prospectivity studies, to try to better understand the commercial potential of what was known and new places to explore.

Oil, Gas and Metals National Corporation, SBMA and South Pacific Applied Geosciences Commission (SOPAC) collaborated on another estimate again, this time including other potential metals of interest such as molybdenum, rare-earths and titanium. A year later, this estimate was used as the basis for a cost-benefits scoping study on the cost-benefit of seabed minerals development by

Cardno on behalf of Pacific Community (SPC). The study outcomes were positive, in that profitable operations seemed possible, and at the order of magnitude level, seabed minerals returns were potentially comparable with then current tourism and fishing.

In 2019, Massachusetts Institute of Technology (MIT) looked at modelling approaches to help define tender zones within the Cook Islands.

with RSC Consulting to produce the first mineral resource estimate to industry-Government code, including some material at a high enough confidence level to allow for preliminary engineering design.

In 2015, the United States Geological Survey, Japan To date, the mineral resource estimates have been based on historical data and the studies have been high level and desktop only. With the advent of commercial exploration activities in 2022, it is expected that more confident mineral resource estimates will be made and more rigorous studies completed.

### RSC: SBMA 2023 Mineral Resource Statement

Classification		Abundance (wet) kg/m²	Nodules Mt (wet)	Metal Grade (%)				
				Co	Cu	Fe	Mn	Ni
Indicated	5	26.7	304	0.50	0.15	18.5	15.4	0.25
Inferred	5	14	6,400	0.4	0.2	17	16	0.4
Global	5	14.4	6,700	0.44	0.21	17.4	15.8	0.37

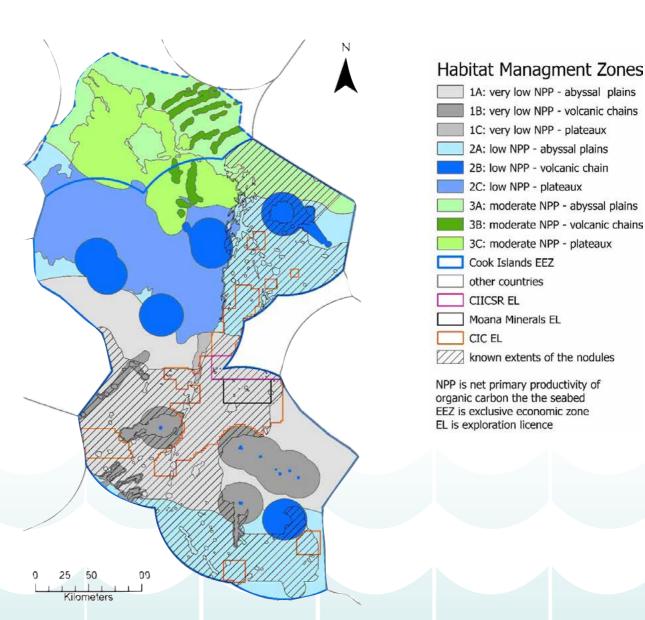
- 1. The Mineral Resource is reported in accordance with the JORC Code 2012.
- The Mineral Resource is contained within the Cook Islands Exclusive Economic Zone.
- Mineral Resources have been rounded to reflect their confidence. Some totals do not add up exactly due to rounding.
- 4. Abundance is the wet weight (kilograms) of polymetallic nodules per square metre.
- Dry tonnages were not estimated, free moisture levels (i.e., not water of crystallisation) vary but are in the order of 30% on a wet basis.
- The proportion of the area composed of large seamounts and chains and oceanic plateau has been excluded from the resource.
- 7. The Interred Mineral Resource in the estimate has a lower level of confidence than that applied to an Indicated Mineral Resource and must not be converted to a Mineral Reserve. It is reasonably expected that a proportion of the Inferred Mineral Resource could be upgraded to an Indicated Mineral Resource with continued exploration.

### **Marine Spatial Planning**

Since the Marae Moana Act came into force in 2017, several spatial plans have been proposed for the Cook Islands seabed. The SPREP/IUCN/GIZ led Marine and Coastal Biodiversity Management (MACBIO) project of 2018 was one of these, part of a regional spatial plan that included the Cook Islands. Then in 2020, the Ridge to Reef project workshopped the extent of biophysically special, unique marine areas (SUMAs).

In 2022, SBMA led the definition of high-level Habitat Management Zones (HMZs), before seeking the input of other TAG members and stakeholders. This approach built on the earlier studies but took leads from recent practice in international waters.

Looking to the future, more regional environmental planning is expected as more environmental information becomes available, and as potential impacts are assessed both regional and at planned project levels.



# AKAMATUTU'ANGA I TE ITI TANGATA TRAINING & CAPACITY DEVELOPMENT

SBMA prioritises the employment and training of Cook Islanders to empower our people, build capability and most importantly retain long-term human resource capacity in the country. Our people have benefited from capacity development programmes within the sector at national, regional and international levels.

Over the past 10 years, SBMA has pursued avenues to upskill Cook Islanders and create new career pathways through training, scholarships, research apprenticeships, secondments, internships and employment.

# SBMA INTERNSHIPS



Marino Whichman December, 2012



Thomas Whiddon August, 2016

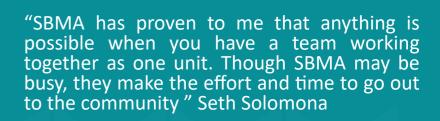


Manine Lynch June, 2018



Seth Solomona
June 2021; December, 2022

"I think that the environment at SBMA promotes curiosity, learning (education) and connection. As an intern and student I appreciated the unique pathways and opportunities that came from this sector and how much more learning is possible about our natural environment." Mikara Ringi





Mikara Ringi June, 2020



Nouma Marsters
June,2021



Athina Karika January 2022



Inano Harmon January 2022



Tuira Enoka-Henderson January 2022; December, 2022;

"I really enjoyed the internship as I got to work on a number of different tasks. I also enjoyed being part of a collaborative work environment as it's easy to help and learn from others" Tuira Enoka-Henderson



Luke Areai
December 2022



Tamyra Bullen
December 2022 to current

"My favourite part of the internship is working alongside my colleagues and learning from them as they are talented and inspiring individuals with their own interests" Tamyra Bullen



Aaron Punua October, 2023

# MARINO WICHMAN

Marino Wichman was SBMA's very first intern, joining in December 2012. Marino was later employed at SBMA as a GIS specialist officer in December 2013. Marino now works for SPC as a Fisheries Scientist, and still maintains connections with SBMA.

"Looking back on my journey at the Seabed Minerals Authority, I am filled with immense pride and gratitude. I had the opportunity to experience and learn about the complexities and nuances of the deep-sea minerals sector, embark on an incredible journey of self-growth, and develop a network of passionate individuals who share the same vision of creating an equitable seabed minerals industry that empowers the Cook Islands and Cook Islanders in reaching self-sustainability.

I've been fortunate to have participated in a consultative process that ensured that all local stakeholders had a voice, which has helped SBMA shape the future of the Cook Islands mining sector. I am proud of the hard work of current and former SBMA teams, and look forward to continuing to develop a sector that is grounded in science and protective of the environment."



# OTHER TRAINING INITIATIVES

### **SPC-EU Deep Sea Minerals Project**

 Initiated in 2011, this collaboration between the Pacific Community (SPC) and the European Union (EU) helped build capacity in the areas of marine minerals resources, policy development, fiscal and taxation regimes and environmental monitoring.

### **SPC-EU** project internships

- Alex Herman, Legal internship at SPC November-December 2012
- Marino Wichman, Technical internship at SPC, February-May 2014
- ISA internships
- Alex Herman, Legal internship July 2014
- Tanga Morris, Knowledge Management Officer internship September - October 2022

Tanga Morris, Technical Officer "During my internship that was supported by the National Oceanographic Centre, I worked in the ISA headquarters on the development of a deep-sea image catalogue. It was an excellent opportunity as a representative from a Small Developing State to support the effective implementation of UNCLOS"

### **At-sea training**

 There has been immense at sea training opportunities for our very own Cook Islanders, including: Eusenio Fatialofa, Rima Browne, Chloe Wragg and Junior Tapoki, Anna Glassie, Sam Napa, Tom Whiddon

> Rima Browne, Senior Knowldege Management Officer "It was a glimpse of the kind of research that would take place in the Cook Islands... and to have Cook Islanders be part of it was extra special"

### Other internships

- Alex Herman, Rhodes Academy of Oceans Law and Policy in Rhodes, July 2013
- Marino Wichman, Technical internship at Kenex in New Zealand, 2014
- Alex Herman, UN Nippon Foundation Fellowship in New York and Brisbane, April to November 2015
- Rima Browne, Technical internship at RSC in New Zealand, May 2022















### TE AU TAEAKE PIRIMOU PARTNERSHIPS

SBMA are profoundly grateful to all of those that have helped us over the years. We have space to mention just a few from the last 10 years here.

### **National**

Our national partnerships are critical as they help align our work programmes and offer opportunities to leverage limited resources between us.

The key national partnership organisations for SBMA are the SBM Advisory Committee, SBM Working Group and the Marae Moana Technical Advisory Group.

We are also privileged to have received technical input from or worked alongside:

- House of Ariki
- Koutu Nui
- **Religious Advisory Council**
- Office of the Prime Minister
- Ministry of Marine Resources
- **National Environment Service**
- Cook Islands Tourism Corporation
- Crown Law Office
- Ministry of Finance and Economic Management
- Ministry of Transport
- Ministry of Internal Affairs
- Ministry of Infrastructure
- Ministry of Education
- Business Trade and Investment Board
- Maritime Cook Islands
- Cook Islands Investment Corporation
- Te Ipukarea Society

We also deeply appreciate our relationship with the various Island Councils and other stakeholder groups as we progress our mission to bring our people along on the voyage of learning about our Marae Moana and seabed mineral resources.

### International

Seabed minerals is a growing area of interest around the world, and SBMA is grateful for the partnerships formed and nurtured at the international level. International partnerships are invaluable as they: keep us informed of developments and current affairs within the sector; help us contribute to and learn from best leading practices; facilitate capacity building opportunities; and provide us with financial and in-kind support.

Over the last 10 years we have developed relationships with:

- International Seabed Authority
- Pacific Community (SPC)
- Commonwealth Secretariat
- New Zealand Ministry of Foreign Affairs and Trade
- New Zealand Environment Protection Agency
- National Institute of Water and Atmospheric Research
- New Zealand Parliamentary Counsel's Office
- Ministry of Foreign Affairs and Immigration Australian Department of Foreign Affairs and Trade
  - Geoscience Australia
  - South Australian Department for Energy and Mining
  - International Marine Minerals Society
  - Massachusetts Institute of Technology
  - Norwegian Petroleum Directorate
  - British Natural History Museum

Based on the dynamic and growing nature of the seabed minerals sector, our need for partners will continue to grow and expand as we enter the next phases of the sector's development.

# **SBMA** IN THE NEWS

Seabed mineral exploration takes a 'huge step' forwand

ment has been given the go-ahead to explore an area of sea-ton Zone (CCZ) for polymetallic nodules, which contain a range

to a deal for mining activities

which in practice may pose great

Cooks teach region on minerals law

iws on deep sea mineral mining at a regional workshop to

Three staff from the Seabed Minerals Authority are in Tonga this week at a Pacific-ACP states orkshop on deep sea minerals

n is leading the team's

Authority after completing a y honours degree, specialis-

"It's not old white-haired people leading, it's the young The three are joined by Cook Kenzie, who is keen to learn

rights of scabed minerals. The Seabed Minerals Act 2009 came into force at the start of March

Many Pacific Island countries also have possible large amounts of rare mineral deposits in their exclusive economic zones. Tonga has three deep sea mineral exploration companies estab-lished, but no deep sea mining

international tender later this year for exploratory work to be started in the next few years. This will involve assessing en-The workshop this week is

part of the Deep Sea Minerals (DSM) Project being run by the more about the checks and bal-ACP states to develop national

Auckland, who did her thesis in week - but Marsters and Seabed

the deep end-she

Community on seabed board

ining over the next few

als Authority (SMA) on how

Lynch.
"I hope that [Natural Resource and Minerals Minister

sions" will be required of them, minerals experts will hold

four times a year.



'as early as next year': Herman stry will help keep talented Cook

exploration licenses for seabed minerals and

Keeping Cook Islands

interests at its core in

This week was a historic milestone for the

We announced the three seabed minerals companies that met the qualification

criteria in the Act, and would be proceeding to the next stage of the exploration

licensing process, writes Seabed Minerals

Seabed Minerals Authority (Authority).

Commissioner Alex Herman.

nto assessing the application then undertaking the

necessary checks and ver ions so that we, the Author n be confident that the

seabed minerals issues

Seabed minerals

The cook Islands national the Publice.

The cook Islands national the Publice.

we will protect it and

we will harvest it': PM

LocalNEWS nuti no roto i te IPUKAREA



nanager of CIC Ltd Shona Lynch, Advisory Committ

### TE AU TAEAKE **PIRIMOU** REFLECTIONS

Prime Minister Mark Brown, **Minister for Seabed Minerals** (July 2013 - current)

There have been a number of key milestones achieved by the Cook Islands over the last 10 years, from the opening of the SBMA through to the opening of our tenders for exploration in 2021. 2022 saw the issuing of the first three licences for our three exploration companies, again a very significant milestone. Then this year, with the arrival of a locally based research vessel. These really demonstrate key tangible things that we can all be really proud of in For all of our achievements, we give the honour and the 10 years of the Seabed Minerals Authority.

The major achievements by the SBMA A-Team have been the establishment of a strong, robust regulatory framework, the updating of our legislation Finally, I want to thank everyone who has been part to ensure the protection of our assets, the protection of our ocean and the protection of the resources that our people have. In our discussions and public consultations with our people right across the country, three key messages reiterated include: 1. protecting our ocean is most important, 2. that we can harvest the treasures that lie in our ocean and 3. that the rewards benefit the Cook Islands people.

If I can leave a message for our future generations, I would say that sometimes you have to have the courage to be able to take a line or a path that is not taken by others. Sometimes you have to have the conviction to be able to lead the way into an area that has been unexplored or unchartered. So my message to them would be, don't be afraid, don't be fearful of this. We come from a people who traversed the ocean hundreds of years ago on voyages of discovery. We are now undertaking a voyage of discovery which doesn't take us across the ocean but it takes us below the ocean. So there are unknowns, but we are going to go and find out what those unknowns are.



Alex Herman, former Senior Legal Officer (January 2013 - April 2016), Commissioner (January 2020 current)

Reflecting on the last 10 years, SBMA has grown and evolved over the years into fulfilling its functions at the lead agency charged with the regulation and management of seabed minerals under Cook Islands jurisdiction.

Our vision for the SBM sector is simple: A sustainable minerals future for Cook Islanders.

The key words in this vision are our Cook Islands people. This has guided our decision-making and development of the sector. My proudest moments with the SBMA over the years has been seeing the growth and development of our people in this sector, whether within Government, within industry or within our communities. It is awesome to see our country and people taking the lead in this sector, and showing to the world how we can develop a sustainable and responsible extractives sector in line with our cultural, environmental and social values.

glory to God. He has put us in our leadership roles and positions at this time, and He has plans so that we may prosper. Plans to give us hope and a future.

of SBMA's journey both current and past. Your input and contributions have been most appreciated and

Looking ahead I look forward to the future of the SBMA - we are in for exciting times.



**Darryl Thorburn, Former SBMA Natural Resource Management** Technical Adviser (March 2012 -December 2017), SBM Licensing Panel member (September 2021 - current)

I arrived in Rarotonga, mid-March 2012, on a hot steamy fragrant afternoon on a 3 year contract with the role of advising the Cook Island Government on how best to develop their vast seabed minerals resource. My immediate boss in the Cook Islands was Sir Tom Masters, the then Minister of Minerals as well as Minister of Internal Affairs and Immigration. I started work at the office behind Boogies Bar, where Sir Tom Masters and his small office team worked. My other boss was the Commonwealth Secretariat.

My time as Advisor as a Technical Advisor has involved providing technical advice on;

 the establishment of the Seabed Minerals Authority with a can-do attitude as the agency responsible for managing the Cook Islands

- mineral estate.
- the growth of that agency into possibly the best minerals regulator in the Pacific,
- the development of a diverse comprehensive minerals inventory of the Cook Islands mineral estate and technical information on seabed minerals in general,
- guiding the development and implementation of an improved regulatory and fiscal regime,
- the successful promotion of the Cook Islands' seabed minerals estate.
- the successful allocation of minerals acreage using best practices for allocation,
- bringing on board nationals into the SBMA and develop them into expert mineral estate managers with a can-do attitude with the confidence to engage with international experts in the mineral development sector.
- day-to-day operational matters

This was done on a minimal budget and SBMA can be and enriching experience. I am overwhelmed with proud of what it has achieved over the last 10 years. The groundwork has been done, the next 10 years will be very exciting, and SBMA will be instrumental in making this happen.

I have enjoyed working on this assignment. Working and living in Rarotonga and travelling around the Cook Islands has been a real privilege for me. Cook in awe. Island people have taught me so much of "how to live and enjoy life". Thank you all. It was a sad day for me when Lee and I left Rarotonga and returned to New Zealand after 5 years in Rarotonga.



Marino Wichman, former SBMA GIS Specialist (Dec 2013 - Feb 2017)

The Cook Islands are embarking on its journey of discovery with our

Marae Moana. Filled with many unknowns, yet we know it holds the greatest potential for discovery and progress. The future belongs to those who have the courage to take the first steps



Rima Browne, SBMA Senior **Knowledge Management Officer** (May 2018 - current)

I started with SBMA pretty much straight out of university. I didn't know much - just that we had these special rocks, and the office needed a GIS officer.

Five years later, and what a journey it has been. Consultations, meetings, conferences, legal reviews,

training, interviews, projects, events, and way too much coffee in between. Was it easy? Not even close. Did I enjoy it? Most times. Has it changed me? Hell

Public speaking, at-sea experience, international representation. All steps towards my growth. Today, I am out at sea on the Anuanua Moana, a state of the art research vessel carrying out pioneering seafloor mapping in our Cook Island waters.

A result of years of commitment and perseverance from those before me. But this is only the beginning, and I'm excited to see where this leads.



**Beverly Stacey, Corporate Support Director (August 2023 - current)** 

My short time with SBMA have been nothing short of an enlightening

gratitude for the opportunity to work with this remarkable organization and the incredible team that makes it all possible.

From day one, it was evident that the SBMA is a hub of talent, expertise, and unwavering drive. The passion and dedication of my colleagues have left me

Working at SBMA has broadened my horizons and deepened my appreciation for the complex and vital work they do in managing seabed minerals. I have witnessed firsthand the organization's commitment to environmental stewardship, social responsibility, and the development of policies that will shape our future.

As I reflect on the last couple of months, I can't help but feel a profound sense of belonging and pride in being part of this exceptional team. I look forward to the continued growth and learning that this journey promises and am excited to contribute my part to the noble mission of the SBMA.

> Eileen Macquarie, Former SBMA **Corporate Services Director** (September 2020 - August 2022)

> > A very warm Kia Orana, Alex and team,

The speed and growth has been exponential, and it has been a pleasure to work with passionate, committed individuals who are focused on the end goal and towards realising a long-term national dream. Happy 10th Anniversary, Team SBM!

Beginning with the first SBM Act 2009 and the subsequent establishment of SBMA, significant progress has been made in this sector. The exploration tender and issuance of three exploration licences were significant steps forward for SBMA, as was the exploration legislation and standards and guidelines that govern this activity. I like to think of SBMA as a bullet train, with individuals who are/have been part of SBMA locally and in terms of technical assistance abroad as the fine gems of the Cook Islands. Serving as the "tea lady" with SBMA for a time and being part of that journey has been a blessing. Alex, your ambition and drive to grow SBM and develop inhouse capacity from Licensing to Comms (it's not all Tech) says much of your leadership. I'm confident of the future of SBM.

What do I see in the next 5 years? SBMA has grown into a full-fledged seabed minerals powerhouse in the Region, demonstrating a balance between environmental protection and harvesting.

Alex, I wish you the best of luck as you build the capacity and lead SBM in the next phase. You can do it!

> & Regulatory Oversight Director (March 2021-November 2023)

Having previously worked as an advisor on economic development in New Zealand, I was drawn to the SBMA by the huge potential of the Cook Islands seabed resources and the prospect of working in a new and exciting sector. Although I had previously had some involvement with seabed minerals in the Cook Islands, it was over ten years ago, and I was excited by the progress that had been made since. Moreover, when I joined SBMA in 2021, I was thrilled to return home to the beautiful Cook Islands.

The work is fast-paced and dynamic and the team highly professional and dedicated to achieving the the Cook Islands in general. best outcomes for the people of the Cook Islands.

for the granting of the Cook Islands' first ever exploration licences and seeing exploration activities underway, once again, in Cook Islands waters. However, I take comfort in the exploratory phase Looking ahead, I am excited about what the next 10 years has to offer, and I look forward to continuing to contribute to the growth and development of the understanding of SBM resources along with studies Cook Islands' seabed mineral resources.

### Te-Ara Henderson, SBMA Policy & Regulatory Oversight Officer (February 2021-current)

Coming fresh out of Victoria University of Wellington at the end of 2020 I decided to return home for a holiday to escape the pandemic. I knew nothing of deep sea minerals or the Seabed Minerals Authority. One Saturday morning at the Punanga Nui market some family members were discussing this new industry with the potential to be "the future of the Cook Islands" and suggested I apply for a job opening.

A 'holiday' turned into 2 years with SBMA. Though it has been a demanding experience, it has been equally rewarding working alongside a small office of intelligent and dedicated Cook Islanders.

It's incredible for me to think that when SBMA was first established, I was a year 13 student at Wellington College. SBMA has accomplished much since then, developing this industry from the ground up. Even though I have contributed to a small part of this history, I am proud of the role I have played in getting us to where we are today.

Derek Johnson, Former SBMA Policy Through this exploration phase, the Cook Islands is taking strides towards realising the true potential of our seabed minerals resources. In 5 years, we will have access to more scientific information to help guide the development of this industry. I'm looking forward to the future and challenges ahead.

> Kaitini Herman, SBMA Communications Officer (May 2021 current)

Before beginning my journey here at SBMA, my knowledge of the SBM sector was limited to information published on the SBMA website, print and social media, including community views of As for working at SBMA, there is never a dull moment. the sector's development. As a young Cook Islands mother, I want a better 'tomorrow' for my child, and

I understand there may be some hesitancy in For me, the highlights have been driving the process developing a novel sector in the Cook Islands with limited technical expertise in SBM exploration and harvesting, and concerns for the environment. of the sector's development with expeditions, research and data to enhance our knowledge and to ensure our marine environment is protected.

It is a privilege to work with fantastic people in is only one method to gain knowledge about the an organisation that is continuously growing and learning. It keeps us accountable and our work innovation to support our quest to address uncertainty and concerns surrounding the exploration and harvesting of our seabed mineral resources.

> Anna Glassie, Former Licensing and Compliance Officer (Apr 2019 - Dec 2020)

Seabed Minerals Sector—to put it simply, I knew nothing about it; well, I fib, I knew a little amount, and oh, did my understanding of the sector alter once I started working for the Cook Islands Seabed Minerals Authority. Paul Lynch was SBMA's Commissioner at the time, and it was an honour to work with him and the rest of the group, which included Rima Brown and Caroline Tiria.

Then, in 2020, Alex Herman was appointed as our new Commissioner, and our staff grew to include Eileen Macquarie, Dede Mingi, and Chris Brown. My experience at SBMA has helped me comprehend and value the various perspectives and viewpoints that people have about the mining business, particularly seafloor mining. I know that during my tenure at SBMA, the cautious strategy was always at the centre, and I appreciate many people's mistrust, particularly when it comes to abuse. I, like many others, will be keeping an eye on this area.

I am thankful for the chance to have worked with Chris Brown, a previous SBMA adviser and current member of the International Seabed Authority. His expertise in this field was astounding, and being taught by someone of his level was not only an honour, but also a fantastic chance to learn and engage in difficult and important conversations.

In 2019, I had the opportunity to participate in a once-in-a-lifetime study assessment of the Cook Islands Exclusive Economic Zone. This was the second mission conducted by the Cook Islands. It was unquestionably a hands-on study chance with 12-hour rounds. This study trip would include biological monitoring as well as the collection of a restricted number of deep seafloor nodules. The goal was to use low-impact gathering tools to collect and analyse tiny samples of polymetallic clusters for makeup and chemistry studies. There

interesting, triggers curiosity, and stimulates Finally, I'd like to pay tribute to our forefathers, Sir Albert Henry (Papa Arapati), Sir Geoffrey Henry, Sir Terepai Maoate, and others. I thank you for your contributions in this area.

> Lastly, I applaud the Cook Islands Seabed Minerals Authority, former Commissioner Paul Napa, current Commissioner Alex Herman, and the Seabed Minerals Authority on their 10-year milestone and look forward to SBMA's next steps. I rejoice and lift a drink to this unique event. SBM Authority, congratulations on your ten-year milestone!

> > John Parianos, SBMA Knowledge **Management Director (October** 2021 - current)

I first interacted with Cook Islanders over 7 years ago, meeting them at international events where I was working with the Tongan ISA contractor. I recall them certainly making an impression with their charm and determination to be part of the industry. Back then, I would never have guessed that I would end up working here, but it's been a real pleasure both professionally and with my wife personally.

We are all on an exciting voyage together, sometimes it gets challenging but for sure we are discovering new things, almost every week and making a contribution in such a situation can only be rewarding. It is always a privilege to work in a role where you can make new scientific discoveries, big and small alike. The next few years look to be especially challenging as stakeholders come to terms with the potential reality of this sector and try to look ahead to what will be needed, if we are to progress further. I am looking forward to it.

Perhaps most importantly, working at SBMA involves a lot of laughter and kindness, even as we strive to work through issues and build this regulatory and knowledge-based agency. Thanks evervone!

> Tanga Morris, SBMA Knowledge Management Officer (June 2022 current)

Joining the SBM sector in June

2022, fresh 'on' the boat. Coming from a fisheries

background I was very eager to develop and grow within this new yet similar space, still offshore but five to six thousand metres deeper. As I'm sure, with many others, my perception before joining this sector has changed drastically throughout this short period as it involves juggling various moving parts, each in understanding the great importance the SBMA is entrusted to do by regulating seabed mineral activities on behalf of the Government together with other agencies.

Science has and will always be a big part of my life. From a very young age till this present time, my knowledge has grown immensely and it will never end. As a young and proud Cook Islander I have been blessed with opportunities throughout my career, previous and current, these experiences have equipped me to be the technical officer I am today.

I care for the environment just like everyone else; this is where my role comes into play. I am proud to have joined this sector at this time where things are still developing and busy, it poses many challenges and sacrifices which I can prove myself capable of accomplishing.

My team continues to inspire me every day to do and be better so as they shape me, I can do the same by shaping others big or small.

> Latishia Maui-Mataora, SBMA Senior **Policy & Regulatory Oversight Officer** (March 2022 - current)

After spending several years in the fisheries sector, I made a career shift with the same enthusiasm – eager to embrace new opportunities and contribute to building a sustainable future for the minerals industry in the Cook Islands.

imposter syndrome due to my limited knowledge of this "new" sector. Such chances don't come by often, so I decided to seize the day and joined the Authority in March 2022.

Although I'm relatively new here, it's fascinating to discover that this journey began many years ago as a Pacific nation established maritime zones and asserted sovereignty over our oceans. This historical legacy fills me with pride as a Pacific islander and remains a constant presence in my mind, especially during meetings.

tight deadlines, occasional frustrations, and the interactions with individuals. Just like the fisheries sector, this isn't your typical 8 am to 4 pm government job. The work demands a radically different mindset with its own set of priorities. Every day at the office is a unique experience, and I appreciate the dynamic nature of the work.



**Dede Mingi, SBMA Communications** Officer (June 2020 - current)

Kia Orana to all my fellow readers,

In the year 2020, the world was shaken up by a number of significant events, this is where I decided I needed to do bigger and better things for myself. Little did I realise that year that my journey would take me down a path so fresh, new and yet so beneficial to our Cook Islands people. From hospitality and customer service to Government, I entered a field about which I knew nothing; I was completely clueless. To be honest, I would never have predicted that I would wind up working in this industry.

Three years and a challenging journey later, who would have guessed that yours truly would be working alongside some of the most talented and smartest people in the country? If there's one thing I've learned, it's that there's never a boring time, and you're always discovering new things. From content production and development to media, meetings, consultations, workshops, events, design, and planning, I can confidently claim that it has shaped me into a better version of myself. I want to appreciate everyone who has been a part of this adventure, particularly Alex and my exceptionally gifted SBMA colleagues.

When I first joined the Authority, I embarked on It's not always rainbows, unicorns, and happy hour. this journey with a mix of confidence and a bit of The team's effort behind the scenes is certainly full of high-powered contrast in motion. I am extremely pleased with how far we have all come thanks to our high standard of expertise, ambition, and devotion. "Teamwork makes the dream work!" as the expression goes.

Over the last ten years, there has been significant growth and development, laying the groundwork for our Cook Islands people to move ahead. With the constant work of the exploration phase, we will undoubtedly have more scientific knowledge and data of the seabed available within 5 years, giving our Cook Islands people a greater grasp of our resources I'm currently enjoying the challenges, excitement, and ensuring the protection of our marae moana.

**Edward** Herman. **Partnerships** Cooperation and (October 2023 - current)

I have enjoyed the learning and development from my short time with SBMA as Partnerships and Cooperation Director.

Key themes I picked on:

- 1. Agency environment: Very encouraging and innovative. This is a new and exciting industry that I feel all staff and stakeholders understand and believe in. The information and structures in place are the result of the rapid growth and ingenuity by all stakeholders that are motivated by the vision to explore this opportunity the Cook Islands government has boldly ventured into.
- 2. Content: The information and data SBMA are caretakers of is invaluable for the Cook Islands from a historical and progression perspective. There is a simple and interesting history that gives any user an appreciation of where and how this journey started. The flood of information, data, technology, skills, development and opportunities coming into the Cook Islands is overwhelming and not yet realized. SBMA are the key to harnessing and promoting all this by working with all stakeholders and communities domestically, regionally and internationally.
- 3. Focus: The foundation is solid. There is plenty of work to be done to fulfill SBMA's potential. Improvements have been continuous and expanding as the industry evolves at all levels. With the appropriate support and resourcing, SBMA can pioneer a way forward for the Cook Islands to grow at all levels sustainably.



### Bishop Tutai Pere, Advisory **Committee Chair (September** 2020-current)

It has been an awesome honour and privilege and by divine providence to be on this Advisory Committee since the first team in 2013 to this day 2023.

We together celebrate our 10 Years Anniversary of our SBMA. From only a vague first sighting of this mineral nodule in our ocean depths to positively acquiring more and more scientific knowledge and information at this pivotal juncture of time is certainly a marvel and wonder. The culminating factor at this time is with 2 vessels already doing mapping, surveying and collecting scientific data for greater acquisition

**Director** of knowledge for precautionary measures of safety and protection of our ocean depths and marine environment.

> We will need to ensure legislation, policies, scientific proven facts for safety, eco-friendly and socioeconomic safety measures are put in place first before any move for future harvesting is ever considered we are already heading in those directions since we started and looking very promising right now.

> The establishment of our sovereign rights over our own EEZ and set up of our protective Marae Moana and with Licences already issued out to three Companies for Research and Exploration Expedition is inevitably a positive, and unquestionable efforts are already set in place and in operation. With the faith of our Ui Tupunas and our Prayers and Trust in our Almighty God above – we do right and do good that is Godly and who can come against us! Let us rally more to win more support from our own local people here and abroad - the available means of technological advancement is waiting to be tapped at any moment.



### Makiuti Tongia, Advisory Committee member (September 2020-current)

First it was a new experience and none of us on the Advisory Board of

2013 knew much about minerals in our deep sea. But Gerald McCormack's workshops helped close the theoretical gaps and opposition views from others. He opened my eyes and gave us answers on many environmental issues.

Real samples of nodules also closed the visual gaps as well. On top of that the translations that Bishop Pere, To'u Ariki and myself did in the first Maori bulletins challenged our knowledge of our reo and its limitations in certain technical words.

It was a journey that tested our knowledge of our reo and I think we all loved the challenge because that is what deep sea minerals is – a challenge that is quite unique to our situation.

It is a challenge to get down to our depth and a challenge to bring back what is on the sea floor at our depth in large volumes to make it economically feasible. Tools for our depth had not been invented yet 10 years ago. But the industry persevered globally as a team and have come a long way in learning more that we have 3 Research and Exploration Companies about our environment and how to progress carefully in some technical ways.

we meet. There is always something new to learn, something exciting because of the novelty. That is to preserve and nurture our natural resources for what I like about this industry. It is the challenge of knowing her and talking to her to let us into her private world.

We are trespassing in her world. We need to respect the deep sea, in order to trade and exchange ideas and new hopes with her. We need to involve her persona closely as real life tutors in and about her private world – in the deep sea. Let her teach us and let us listen willingly as students and novices in order to enjoy sharing her material goods perpetually.



### Sam Napa, Advisory Committee member (September 2020-current)

This has been an exciting journey as I have sailed our Oceans all the way to

China and all the way to USA. I have been aware of this resource in our EEZ since I was a child here in Rarotonga and have had numerous conversations our cultural, religious and customary values and have with some of our elders about their thoughts and options that were offered to them and when the world. technology is available, it should be harvested.

A lot of thoughts and precautions have been put in place to achieve the best possible advantage to the Cook Islands as a whole, also bearing in mind the investments from the companies involved in this emerging industry

The next 5 years will be exciting for the SBM sector, and I believe there will be huge interest from our people living overseas, including those currently working in the mines in Australia. The industry will engineering, and gaining knowledge of our deep sea. A lot can happen in 5 years, plenty of research and knowledge to acquire in the years to come. God be with us all and thank you Lord for the wonders of his 
The Cook Islands is leading the way in delivering a Creation.



### Makiroa Mitchell, former Advisory Committee member (September 2020-July 2022)

I am privileged and honoured to have served on the SBM Advisory Committee since 2020. I have found it challenging to educate myself in an area that has global implications and demands. It has been a fascinating experience to be having roundtable discussions with local, regional and opportunity to contribute to the work of the panel. international experts and to understand widely from an international level the need for these

This is a learning and discovery journey every time minerals. It is about our survival for all mankind while comprehending the responsibilities that we need generations to come.

> The policy direction from the SBM sector in each of the key result areas give us confidence that we have a framework that outlines what we will undertake as a country to meeting our global responsibilities and demands. I love how our Commissioner Alex Herman and SBMA staff, who alongside the Committee and our international seabed minerals organisations, have collaborated to complete the work required. They have articulated and carved a strategic direction and plan that will work over each phase and carefully.

> Looking at it from the "outside now" I see a much clearer and organised pathway for everyone within this industry. Education and building awareness was the key to implementing the policy directions amongst our people and communities. We have taken a bottom up approach taking into consideration created a plan that empowers our people in this



Chris Brown, Technical Advisor (February 2020 - current), Licensing Panel member (September 2021 current)

It has been a privilege to serve as a member of the Cook Islands Licensing Panel, working alongside recognised experts in this field. I am indebted to the professionalism of the Commissioner and her team for supporting us in our role also involve opportunities in agriculture, maritime and providing us with timely information and responses to our questions to applicants which allowed the panel to critically assess applications.

> robust, transparent and accountable legal framework to regulate exploration in its exclusive economic zone with a view to future mineral harvesting. It will be fascinating to see the results flowing from exploration to inform a sustainable and responsible path to mineral harvesting and the collection of marine scientific data and information to advance knowledge of the Marae Moana and its management. Much can be learned by the international community from the approach taken by the Cook Islands in this sector and I feel honoured to have had the



### Hannah Lily, Licensing Panel member (September 2021 - current)

with SBMA continuously over the

past decade, first as legal advisor at SPC, then Commonwealth, and finally as Licensing Panel member, and it's been a privilege to support the the sector.

I will partly remember the licensing process, for having to read quickly but carefully over 1000 pages of documents, plus the long zoom calls taking place - because I'm in the UK - at midnight! But also for SBMA's efficiency and thoroughness. The process was actually guite brutal! I wonder if any exploration companies elsewhere ever had to face such scrutiny? The licensing was well run by SBMA, and I enjoyed participating in the Panel of varied experts, all scrutinising from different angles. The applicant companies seemed very committed, and open to share information. I look forward to hearing about the results of their scientific surveys over the coming years.

Seabed mining attracts different viewpoints, which is legitimate and healthy. But Cook Islands nationals can all feel proud of the expertise and professionalism of the SBMA team and Commissioner, and the commitment they show to good governance of the nation's resources.



### **Andy Lipman, Licensing Panel** member (September 2021 - current)

To my friends and colleagues of the Cook Islands SBMA, and the SBMA

Licensing Panel - It is an honour and a pleasure to serve with all of you. When I was offered the opportunity to serve, and read the mandate of the SBMA Licensing Panel, it was immediately clear that the Cook Island Governmental Authorities had decided to go about this new endeavour in the most ethical and scientific way possible. The more I interacted with the members of the SBMA and the Licensing Panel, the more I realised my initial observation was correct; this was a most professional and forward looking group of experts whose concerns aligned with what is best for the country they serve.

In fact, the mission of my ABS Society "promoting the security of life and property and preserving the natural environment" aligned perfectly with the goals of SBMA and the Licensing Panel. Our deliberations were focused on the competence of the licence is a pre-eminent and an urgent task.

applicants to conduct their activities with respect to safety and preservation of the environment. It was because of this focus, that I am fully confident that I've had the pleasure to work the decisions taken by the SBMA with due regard for the Licensing Panel's recommendations, will result in only the world's most highly qualified applicants being licensed to explore the seabed areas.

team's step-by-step approach towards developing. My sincere best wishes go to the SBMA and my fellow panel members and to all the citizens of the Cook Islands. I can only hope to remain as a friend and trusted advisor into the future. Sincerely

### Richard Johnson Technical Advisor (February 2020 current), Licensing Panel Member (September 2021 - current)



It was a privilege to be a member of the first Cook Islands Licencing Panel. The Panel collectively covered a necessary broad reach in relevant expertise and backgrounds. That was

a specific strength that enabled robust discussion and robust decision-making. It worked collegially to find a decision-making pathway, working remotely for many, to cover the wide range of issues to be assessed.

We were well supported by the expertise of SBMA staff as advisors.

The sheer volume of paperwork and the detail within all that was daunting. That said, I was most comfortable with panel members leading discussions on areas within their expertise and the acceptance of collective responsibility for the decisions made.

The next five years will contain huge challenges for licence holders to establish relevant and targeted baseline information to help inform all future decisions in the EEZ. The exploration programmes will only take the sector so far in understanding this deep sea world even building on previous research voyages.. It will inevitably throw up more unknowns than many will be comfortable with.

So for me a key focus for the sector in the next five years is equipping regulatory agencies with the knowledge and skills, and regulatory confidence, to work with incomplete information, where management of risks and uncertainties is a key element of decision making. This, for public agencies managing activities and their likely effects on behalf of all Cook Islanders,



## TE ORAMA NO APOPO LOOKING AHEAD: THE NEXT 5 YEARS

The next five years will be dynamic and As independent regulators, we must development towards a sustainable minerals future for Cook Islanders. The SBM sector pillars:

- visionary leadership
- economic security and social prosperity
- a healthy marine environment
- people-centred development.

Visionary leadership speaks to the foresight and navigational talent our forefathers used to explore new waters to broaden their Five years from now: horizons and conquer new land. For the SBM sector, setting legal, resource inventory and wealth management parameters for growth • and expansion are essential foundations for effective sector governance and prosperity.

Economic security and social prosperity provide for better understanding of our mineral • deposit baselines and the value chain to ensure economic viability, along with translated social • benefits to the people of the Cook Islands.

A healthy marine environment ensures we do our best to protect our environment • with assessments and management plans to preserve deep sea ecosystems for future • generations. It recognises the importance of ongoing research and investment to grow our • knowledge base and management to develop the sector.

Last but not least is our focus on people centred development, ensuring Cook Islanders are front and centre of all we do in the development of the sector.

We will thrive as a sector with guiding stars to chart our journey. They include: governance, inclusion, equity and wellbeing, education, research and technology, and partnerships and cooperation.

ambitious as the Government leads the sector demonstrate visionary leadership, even as different developments and perceptions come to the fore. Our mandate is to grow development will continue to thrive on four economic security and social prosperity, while maintaining a healthy marine environment. Very importantly, our development needs to be people-centred, therefore we need to help our people develop and come along on the journey, through transparent and inclusive sharing of information and knowledge, capacity building, discussion and decisions.

- our regulatory regime will be completed and largely tested;
- exploration licence holders will be their exploratory work completing programmes, including environmental impact assessments and pre-feasibility studies;
- trial minerals harvesting will have taken place with findings and recommendations;
- regional environmental management plans will be completed, widely consulted and be supported with spatial planning and site work
- we will have an expanded knowledge base of minerals resources and the deep sea
- we will have more Cook Islanders interested in developing the SBM sector
- we will have research and knowledge to advise decision makers on the sector's future.

The Cook Islands is not alone on this exploratory journey of mineral resources and the deep sea. SBM developments in other jurisdictions and the assistance of partners give us the confidence to exercise our sovereignty and take exploration and development steps.

# AKAMA'ARA'ANGA 10 MATAITI KEY ACHIEVEMENTS

2013

- 8th March:
- Commemoration of Seabed Minerals Act 2009 coming into force
- Commencement of Seabed Minerals
- Establishment of first SBM Advisory Board
- SBMA website launched
- March: Cook Islands participate in in regional law and contract negotiations workshop in
- July: Mark Brown becomes the Minister for Natural Resources and Minerals, after Tom Marsters is appointed Queens Representative
- October: Cook Islands participate in Underwater Mining Institute Conference in
- November: GSR presentation to Cabinet regarding Cook Islands becoming a Sponsoring
- December: Framework Agreement between GSR and CIIC
- December: CIIC submit application to ISA for **Exploration Contract**



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2014

- Feb Cook Islands presentation to the Legal and Technical Commission at ISA
- April: Mission visit to Wellington to meet with relevant Government agencies
- May: Cook Islands host Financial issues workshop as part of SPC-EU DSM Project
- July: Alex Herman participates in ISA internship
- November: Professor Cronan visits following his compilation and estimation work the year
- September: Underwater Mining Institute Conference in Portugal



### 2015

- April: Alex Herman begins UN-Nippon Foundation fellowship at UN in New York
- July: Cook Islands participate in ISA annual session, led by responsible Minister Mark
- July: Seabed Minerals (Prospecting and Exploration) Regulations passed
- 10 August: Tender for exploration opened. No formal submission of applications received.
- November: Cook Islands participates in Underwater Minerals Conference in the **United States**







- July: International Seabed Authority (ISA) and CIIC sign a contract and the Cook Islands becomes a Sponsoring State in the Area
- July: Joint venture between CIIC and GSR
- Cook Islands enter into seabed minerals agreements with OML
- November: Cook Islands participate in Underwater Minerals Conference in South





2017

- CIIC conducts an exploration expedition to their contract within the Clarion Clipperton zone in the international Area.
- September: Underwater Minerals Conference in Germany

### Local engineer part of exploration expedition

A COOK Islands	engineer is ing.	
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expedition being o	onducted by Test	ä
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Cook Islands signs seabed minerals deal

THE COOK Islands govern- be undertaken. ment has entered into a second Minerals LLC (OML).

In a deal worth \$100,000, minerals and so forth." OML has reserved around The agreement has been 23,000 square kilometres, or reviewed by a number of gov-1,2% of the Cook Islands Ex- ernment agencies, said Brown, clusive Economic Zone (EEZ) who is also the minister recontaining high value polyme- sponsible for Cook Islands Intallic (manganese) nodules for vestment Corporation (CIIC) up to 18 months.

This gives the company the

"It also allows them to seagreement relating to seabed cure any financing for any minerals with the United prospecting of minerals in or-States-based company Ocean der to get a more accurate assessment of yields or certain

and Seabed Minerals (SBM).

He said the activity touched exclusive right to apply to on a range of government obundertake prospecting and jectives, including ensuring exploration activities in that sustainable management of oceans and marine resources.

The first agreement between If an application for an exthe government and the OML ploration licence is made with-

### 2018

- May: Minister puts a hold on seabed minerals activities to allow for legislative review
- May: Minister establishes SBM Working Group composed of Government agencies
- September: Cook Islands attend Underwater Minerals Conference in Norway
- December: Consultations in Mangaia, Penrhyn and Pukapuka



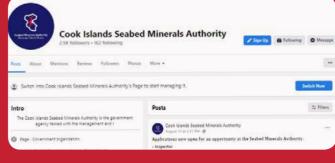
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- April: Consultations in Manihiki and Rakahanga
- June: Seabed Minerals Act 2019 passed, replacing the 2009 Act
- September: GSR mount a marine expedition and successfully use a new seabed sampling tool to collect nodule samples
- September: Cook Islands participate in Underwater Minerals Conference in China
- December: OML adapt and improve the CSR approach, collecting more samples as well as water column environmental data.

- March: SBMA Facebook Launched
- June: Seabed Minerals Amendment Act 2020 passed by Parliament. Amendments intended to ensure Act fit for purpose ahead of opening exploration licensing
- September: Advisory Committee appointed with Bishop Tutai Pere as Chair
- October: Exploration Regulations passed, replacing the Prospecting and Exploration **Regulations 2015**
- 22 October: SBM Exploration Tender Launch by Prime Minister Mark Brown











- January: Licensing Process 4 applications received for exploration licences
- January-March: Consultations carried out in Palmerston, Nassau, Pukapuka, Manihiki, and Rakahanga
- February-March: Licensing Process Prequalification checks carried out by SBMA
- passed by Parliament. Amendments intended to ensure that applicants are Cook Islands companies.
- April-June: Consultations in Mitiaro, Atiu, and
- July: Cook Islands host environmental workshop, along with ISA and UNDESA as part • December: Licensing Process - Licensing Panel of Abyssal Initiative project

- July-November: Licensing Process Due Diligence assessments
- Australian due diligence firm contracted to
- SBMA determines three of the four applications meet the criteria, and can proceed to the next stage.
- March: Seabed Minerals Amendment Act 2020 September: SBM expert Licensing Panel established, with Garth Henderson as Chair
  - September: Consultations in Mangaia and Penrhyn
  - September: Licensing Process Public Notification, details of 3 Applicants released for public comment
  - evaluate applications and recommend to approve three applications
  - December: Minister and Cabinet give approval to draft licences.









### 2022 - TODAY

### 2022

- February: Cabinet review draft licences and give approval
- 23 February: Licence Granting Ceremony.
- Licences issued to: CIC, CSR, and Moana Minerals
- May: Inspector training
- June: CIC Seasurveyor Vessel Ceremony
- Conference
- July: First CIC expeditions using Seasurveyor commence, SBMA inspectors attend
- July: SBMA participate in ISA Council session
- September: Interim Standards & Guidelines issued
- September-November: Tanga Morris undertakes ISA technical internship
- September: SBMA present at the Underwater Minerals Conference in the United States
- October: Minister and SBMA present on Cook Islands SBM at Geonova Conference

- October: Minister meets with Norwegian Ministerial counterpart
- October-November: SBMA participate in ISA Council session
- December: SBMA partners with DEEPEND Project (to help further our understanding of deep-sea biodiversity and the potential for natural products).
- June: SBMA attends and present at UN Oceans December: NES-SBMA host an Ocean Biodiscovery Seminar Series.

### 2023

- February: Consultations in Aitutaki
- February: first Cook Islands Seabed Geomorphology Map published
- March: Blessing and Naming Ceremony of Anuanua Moana vessel
- March-April (Present): Moana Minerals first research expedition, SBMA inspector attends











# MEITAKI MA'ATA

The Seabed Minerals Authority team wishes to extend our deepest gratitude to everyone who assisted us along our journey. We would not be here without the efforts of countless people and organisations who have advised us, encouraged us, assisted us, empowered us and helped us to bring forward our vision for the Cook Islands SBM sector. To you we say Meitaki Maata. God bless, e Kia Manuia



### Seabed Minerals Authority Runanga Takere Moana COOK ISLANDS

