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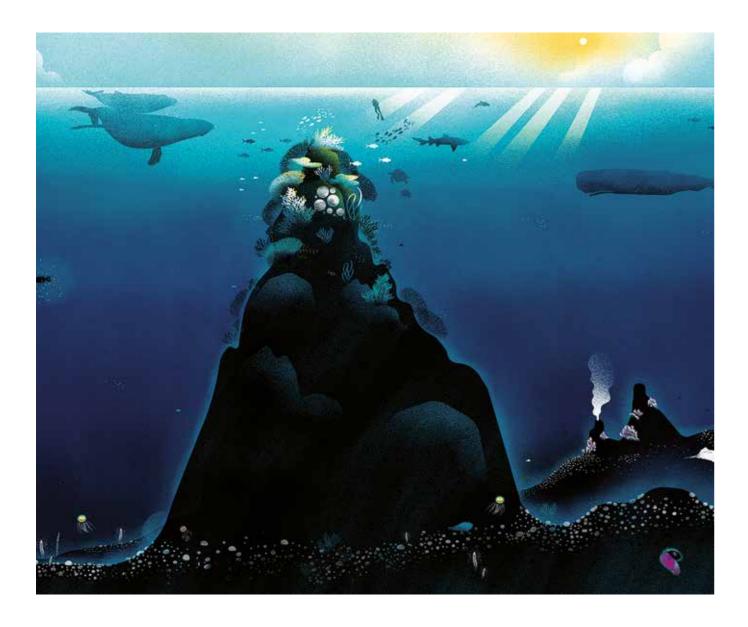
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STATE OF PLAY

Deep seabed mining has not yet started. We thus have a chance to stop this destructive industry before it irreversibly damages the ocean.



Deep seabed mining would essentially mean strip-mining the seabed for minerals from deposits that have formed over millennia and that are an intrinsic part of the ecosystem on deep ocean seamounts, hydrothermal vents and abyssal plains.

While very little test mining has taken place to date, existing information and observations from exploratory deep seabed mining are leading scientists to warn that biodiversity loss would be inevitable, extensive, and most likely irreversible. Deep seabed mining would also disturb our planet's largest carbon sink at a time of global climate emergency.

MINING COMPANIES ARE LOBBYING TO OPEN OUR DEEP OCEAN TO THE LARGEST MINING OPERATION IN HISTORY.

A few companies from developed countries are seeking short-term economic gain by pushing to extend mining from land to sea. They claim we have no choice but to mine the ocean to power the energy transition, ignoring the more sustainable option of making better use of the metals we've already extracted and improving land-based mining as we fast-track the next generation of cleaner batteries and renewable energy infrastructure.

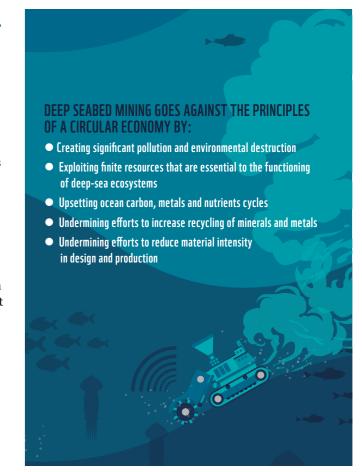
THE DEEP SEA MAKES LIFE ON EARTH POSSIBLE.

Opening our ocean to mining would be a planetary gamble of the highest stakes. We know that the consequences of mining the ocean floor for metals and minerals would be dire – it would irreversibly destroy important habitats, wipe out species on a massive scale and risk disturbing invaluable carbon storage. Yet we cannot predict the full extent of its impacts because we know very little about this complex area of our planet and how it works. If this dangerous gamble goes wrong, it would risk triggering a domino effect of unintended consequences that could destabilize the ocean and impact global food security.

Besides the ecological functions and services it provides, the ocean holds cultural and spiritual values for many coastal communities and Indigenous Peoples, and the international seabed is considered the "common heritage of humankind" in the UN Law of the Sea (UNCLOS). As such, the law states that its exploration and exploitation must be carried out for the benefit of humankind as a whole.

SCIENCE IS SIMPLY NOT THERE TO MAKE INFORMED DECISIONS.

More than 800 marine and policy experts from 44 countries have called for a precautionary pause to be applied until sufficient and robust scientific information has been obtained to make informed decisions about deep seabed mining. In a groundbreaking discovery, scientists have recently revealed that oxygen is being produced in the deep sea through a process associated with polymetallic nodules on the seafloor of the Pacific Ocean, in the complete absence of sunlight, therefore named "dark oxygen". This finding challenges what



is known about how oxygen reaches the deep ocean and how oxygen is produced, and even how life on our planet originated. Deep seabed mining – which is targeting these nodules – could impact this extraordinary process, a building block of life.



THE FUTURE IS CIRCULAR.



There is an alternative to opening a new frontier for extracting minerals and exacerbating the biodiversity and climate crisis. It is called the circular economy.

<u>An analysis</u> commissioned by WWF shows that demand for minerals required to support the transition from fossil fuels to renewable energy and battery storage can be cut by as much as 58% through innovation in renewable technology and circular economy measures. This would avert potential bottlenecks in mineral supply without initiating a harmful new extractive industry in the deep ocean. Innovation in batteries technology and chemistry – e.g sodium-ion, solid state and iron-phosphate (LFP) batteries – will eventually reduce the need for deep sea minerals, making deep seabed mining irrelevant in the future.

New recycling technologies, experimental innovation such as using bacteria or algae to extract rare metals, and increased reuse of rare minerals can all be part of the circular economy solution.



WE NEED TO ACT NOW.

The International Seabed Authority (ISA), the UN Agency responsible for governing deep seabed mining and protecting the deep seabed on behalf of all humankind, is scrambling to fast-track the regulations for this highly controversial industry.

Commercial mining on the seabed is not yet occurring. Deep seabed mining is not permitted in international waters, but without urgent intervention from the international community, it could start whenever a mining company decides to submit an application to the ISA. Member states meet at the ISA several times a year to discuss whether and how deep seabed mining could proceed - this is the 'regulations'. To date, the ISA has approved 31 contracts to explore the international deep seafloor for minerals. No contracts for mining have yet been granted.

A DANGEROUS LOOPHOLE.

In July 2021, Nauru, a small island state in the Pacific Ocean triggered an obscure loophole in the Law of the Sea, which allows a member state to notify the ISA of their intention to start deep seabed mining, whatever state the regulations are in after the expiry of this two-year period. The two-year loophole was intended to avoid bureaucratic logjams, but it is being used as an ultimatum: adopt regulations or give any company a contract to mine the deep sea without any regulations in place. The triggering of the two-year loophole has made a moratorium on deep seabed mining even more urgent.

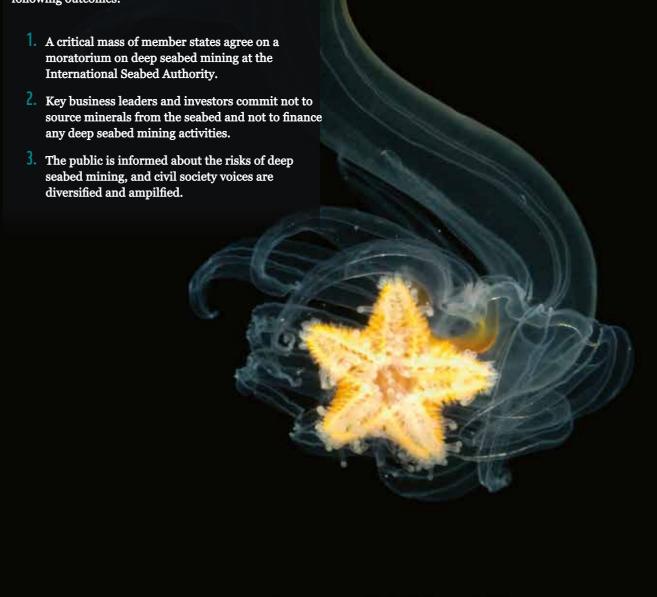
In July 2023, due to the ultimatum posed by the twoyear loophole, the ISA agreed to attempt to complete the regulations by 2025 to avoid unregulated mining. It is extremely unlikely that regulations will be fit for purpose any time in the next decade or two. Regulating deep seabed mining so that states also protect the marine environment from any impacts would be extremely difficult, if not impossible, due to the inaccessibility of the deep sea and our lack of understanding of its fragile ecosystems. Before any regulations are fit for purpose, states also need to solve many other issues, including ensuring that any proceeds are equally shared by all humankind.

The efforts of the current ISA leadership and some states to silence the debate over whether deep seabed mining is worth the risk and its prioritization of pro-mining interests over ocean protection has led to <u>increased scrutiny</u> of its relationship with some mining companies and its legitimacy in the eyes of the public (see <u>LA Times</u>, <u>NYT</u>, The Guardian, CNBC).

WWF'S NO DEEP SEABED MINING INITIATIVE

Since 2019, WWF has worked to ensure a global moratorium on deep seabed mining. Such a moratorium needs to be in place until there is enough science available to make informed decisions about whether to go ahead with this destructive industry, and all alternatives have been explored.

To achieve our ambition toward a **global moratorium on deep seabed mining**, our team of experts has designed a 3-pillar strategy which will achieve the following outcomes:



OUR STRATEGY

















at least half of the ISA member states join the call for a pause/ moratorium

OBJECTIVE





OBJECTIVE

By end 2025,

at least 100 companies and investors have joined the business

coalition against

deep seabed

mining with key

members engaging

consistently on the

issue

By end 2025, a strong public voice against deep seabed mining has been established

BUILDING GLOBAL MOMENTUM



GLOBAL MORATORIUM ESTABLISHED ON DEEP SEABED MINING BY 2026





THE WORLD IS MOVING TOWARD A SUSTAINABLE, **CIRCULAR FUTURE WITHOUT** DEEP SEABED MINING.



A GROWING WAVE OF RESISTANCE 2024 THERE IS GROWING 2023 **MOMENTUM AGAINST** 32 countries call for **DEEP SEABED MINING.** a moratorium, ban, 2022 or pause on deep seabed mining 21 countries call for a WWF works with some 2021 moratorium, of the largest brands Launch of the ban, or pause in the world, civil Alliance for a Global on deep seabed society movements, Moratorium on Deep mining Seabed Mining by Fiji, global leaders, Palau, the Federated parliamentarians, 58 endorsers States of Micronesia leading scientists to the Business and Samoa Statement, including and partner NGOs to SwissRE publishes world-leading tech amplify and diversify **GOVERNMENTS** policy excluding enterprise Apple the global wave of deep seabed mining resistance to deep **UNEP Finance** Initiative publishes seabed mining. 36 endorsers to the Launch of Business guidance **Business Statement** Achievements are Statement with BMW document for Group, Google, Volvo investors 827 signatories direct and indirect Group and Samsung to the Science results of our advocacy, SDI corporate engagement **LEADING BUSINESSES** deep seabed mining Statement from and communications AND FINANCIAL **European Academies** campaigns, and many INSTITUTIONS Science Advisory 650 can be attributed to 650 signatories Council to the Science our collective action as Launch of the Deep Statement The European part of the Deep Sea Sea Mining Science Parliament votes **Conservation Coalition** Statement calling for a in favour of a (DSCC). moratorium with 585 19 Pacific leaders moratorium on from 11 countries signatories deep seabed **SCIENTISTS AND POLICY EXPERTS** 262 Launch of Global Parliamentary Declaration **IUCN World** signed by 262 **Conservation Congress** adopts Resolution from 52 countries signed by 577 civil and 81 governments CIVIL SOCIETY AND Drawing the Pacific Blue **PARLIAMENTARIANS** Line Statement signed by 100+ organizations

TRACKING OUR IMPACT

Across WWF, 20 offices are actively engaging their governments, corporate partners and local NGO partners, using our reports, the Business Statement and other tools, advocating for their involvement in the push for a global moratorium on deep seabed mining.



"We have a mandate to protect and preserve the marine environment not just for ourselves, but for future generations and to ensure we continue to have a livable planet."

HON. RALPH REGENVANU,
VANUATU'S CLIMATE CHANGE MINISTER



POLICY ADVOCACY

2021

At the World Conservation Congress, 577 civil society organizations and 81 governments and agencies sign the IUCN Resolution No.122, following a motion co-sponsored by WWF. This is a strong signal showing there is no social license for deep seabed mining and putting the issue in front of governments.

2022

The <u>Alliance for a Global Moratorium on Deep Seabed Mining</u> is launched by Palau, Fiji, the Federated States of Micronesia and Samoa at the UN Ocean Conference, in a high-level event co-organized by WWF and the DSCC. This is the first time member states of the ISA officially call for a moratorium. Shortly after, French President Emmanuel Macron called for a ban on deep seabed mining.

Through the Global Parliamentary Declaration, 262 parliamentarians from 52 countries call on their governments to participate in negotiations at the ISA, therefore increasing the level of transparency in the ISA decision-making process, and allowing more voices in favor of a moratorium to express their positions. One year later, the Pacific Parliamentarians Alliance on Deep Sea Mining welcomed the call by the Melanesian Spearhead Group Leaders for a moratorium on deep sea mining across the Pacific.

2023

WWF collaborates with SINTEF, one of Europe's largest research institutes, to publish the "Future is Circular", which presents new evidence showing that future mineral demand can be met without deep seabed mining. This is providing new insights for debates at the ISA and in relevant business and policy for a such as the World Resources Forum (Geneva, 2023), the MOVE Conference (London, 2023) and the European Parliament (2023), where WWF shared these findings.

2024

The Kingdom of Denmark, Greece, Peru, Tuvalu, Austria, Malta, Honduras and Guatemala join the group of countries calling for a moratorium, or a pause, on deep seabed mining, taking the total to 32 countries. The attendance of senior political figures, Indigenous Peoples leaders and youth leaders from across the world at events organized by WWF, and our strong advocacy at the ISA, add weight to the push to stop deep seabed mining.



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2022

2024

ENGAGING CORPORATES AND FINANCIAL INSTITUTIONS

WWF launches the <u>Business Statement</u> in support of a global moratorium on deep seabed mining with four leading car manufacturers and technology companies BMW Group, Volvo Group, Google and Samsung SDI.

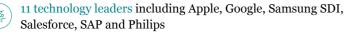
WWF works with the UNEP Finance Initiative to develop a <u>briefing paper on harmful marine</u> extractives, and issues its own <u>Brief to Investors</u>. This guidance document, which draws on the Sustainable Blue Economy Finance Principles that WWF contributed to, is being used as we engage across the investment and insurance community.

Advocacy with insurance and reinsurance companies using WWF-Switzerland / Deloitte <u>Guidance</u> <u>for Investors</u> leads to SwissRE issuing a <u>policy excluding insuring deep seabed mining</u> based on key sustainability risks, setting an important mark for this sector.

<u>58 companies have pledged</u> not to source minerals from the deep seabed, to exclude such minerals from their supply chains and not to finance deep seabed mining activities. This work - involving several other NGOs - is being led by WWF.

Other signatories include:

14 banks and insurance companies including Aquamarine, ASN Bank, Triodos Bank and Storebrand

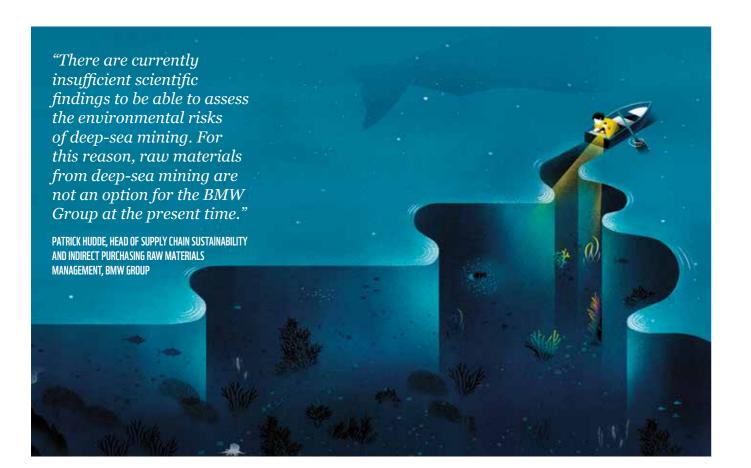




19 food, retail and other sectors including Bolton Food, Breitling and Patagonia



STOPDEEPSEABEDMINING.ORG





PUBLIC MOBILIZATION

2023

WWF launches the <u>#ThinkDeeply</u> communications campaign that reaches over 2 billion people in 46 countries through at least 590 articles produced in various media including Al Jazeera, BBC News, New York Times, Associated Press, Reuters Bloomberg, Daily Mail, The London Evening Standard, The Indian Express, and The Wall Street Journal. The #ThinkDeeply <u>"hero" video</u> generates over 37 million impressions alone.

Over 30 pieces of deep seabed mining content have been published across WWF's social media properties with the objective to raise public awareness and pressure on the issue. Organically, WWF's deep seabed mining content generated over 2 million impressions across LinkedIn, Twitter, Instagram and Facebook with an overall average engagement rate of 3.17%, in line with industry averages.

2024

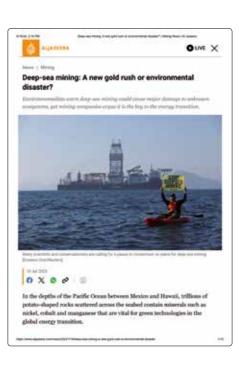
Celebrities like <u>Leonardo DiCaprio</u> and <u>Lukas Bravo</u> take an active stance against deep seabed mining, echoing WWF's messages on their social media channels.

The HBO TV show <u>Last Week Tonight with John Oliver</u> addresses deep seabed mining and highlights the Business Statement, gathering 3 million views at the time of writing this report. Several interviews with WWF experts informed the script.



"By supporting a moratorium on deep-sea mining with the International Seabed Authority, governments and world leaders can take a stand for our blue planet and stop deep-sea mining."

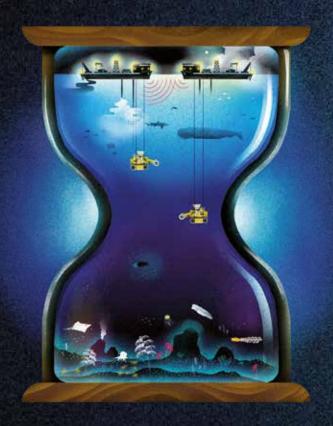
LEONARDO DI CAPRIO, ACTOR AND FILM PRODUCER





JOIN US AND SAY NO TO DEEP SEABED MINING

With your support, we can grow this global momentum – mobilize more governments to stand up for a moratorium, work with businesses to demonstrate that a future without deep seabed minerals is possible and profitable for all, and strengthen our collaboration with the Deep Sea Conservation Coalition and local grassroot movements to make a moratorium on deep seabed mining a reality by 2026.



YOUR SUPPORT IS VITAL. HELP US STOP DEEP SEABED MINING BEFORE IT IS TOO LATE.

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#THINKDEEPLY #DEFENDTHEDEEP



Working to sustain the natural world for the benefit of people and wildlife.

together possible...

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