

2024

Annual Report



Coralive

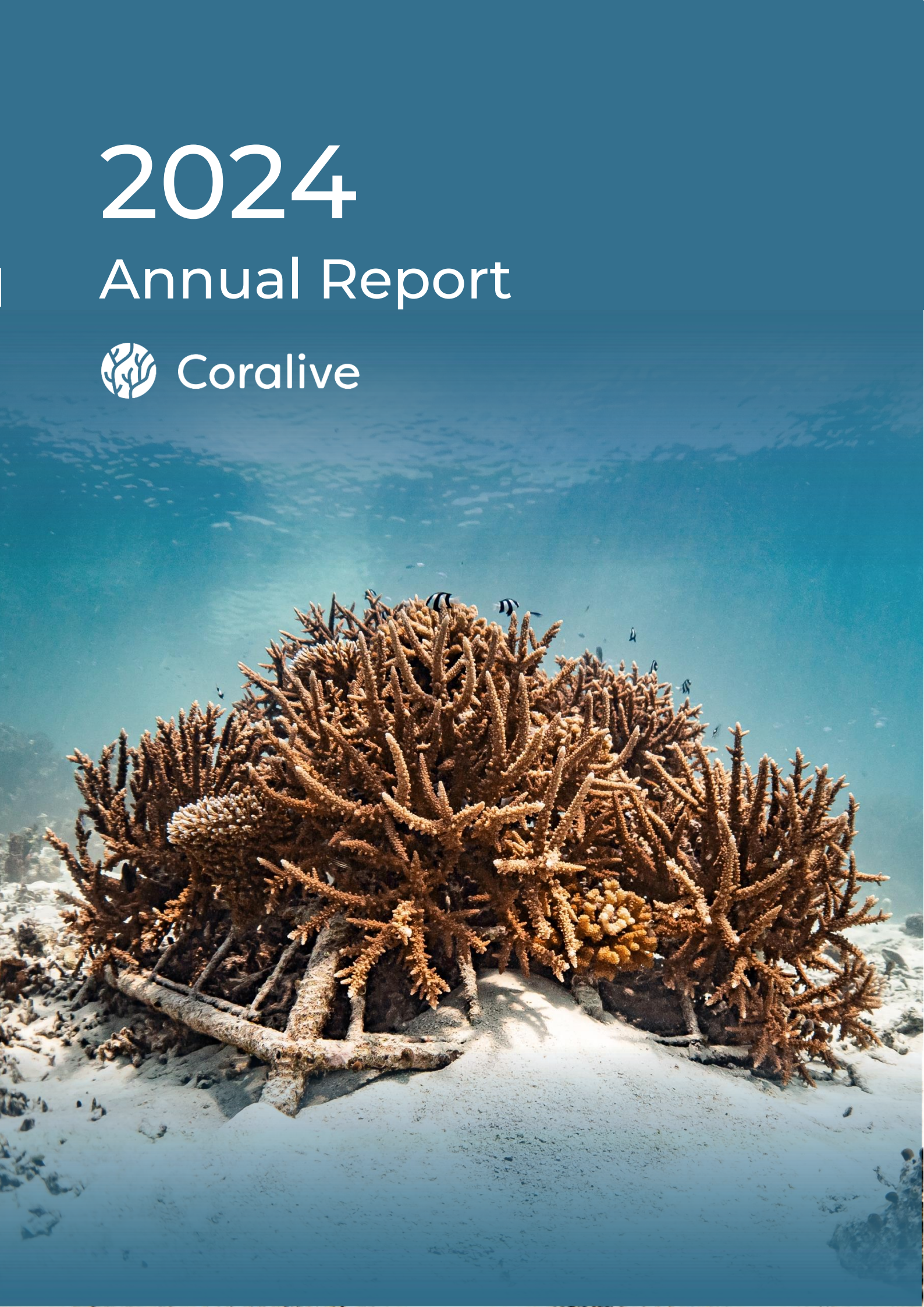


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Message from Zoe Tapps



Zoe Tapps
Senior Project Manager

Dear Friends of the Ocean,

Welcome to the 2024 Coralive annual report! I'm Zoe, a marine biologist from Australia. I have been working with Coralive in the Maldives on a project basis since 2018, but, as of July this year, I have taken on an exciting permanent full-time role. This year has been pivotal for all of us at Coralive as we have ventured into new locations, expanded our core team, and continued to progress amidst the challenges posed by the 2024 world-wide coral bleaching event.

This year also brought opportunities to connect and collaborate through major conferences. Attending the European Coral Reef Symposium (ECRS) and Reef Futures in person was invaluable, as it allowed us to share knowledge, learn from other leaders in the field, and shape the future of coral restoration. In particular, discussions at Reef Futures have inspired us to rethink and adapt our strategies as we confront the growing challenges of climate change.

In May, we had the pleasure of returning to the beautiful Raja Ampat in Indonesia where we teamed up with Konstantinus, a dedicated Papuan homestay owner and conservationist in Batanta. Together we initiated strategies to reverse years of harmful degradation caused to the reef and coastal ecosystems that are vital to his livelihood. The progress reported throughout the year was encouraging and we plan to return in May 2025 to continue this meaningful work and further support Konstantinus's vision.

Another exciting development was the start of a large-scale commercial project in the Red Sea. This initiative has not only expanded our team but also solidified our capacity to scale up coral farming practices, demonstrating what's possible when innovation meets collaboration. From there, we had the chance to return briefly to the Maldives to support a small but passionate coral restoration organization on Feridhoo Island. Helping them grow into a more substantial project felt rewarding and opened doors to greater research opportunities and a deeper impact for the surrounding reefs.

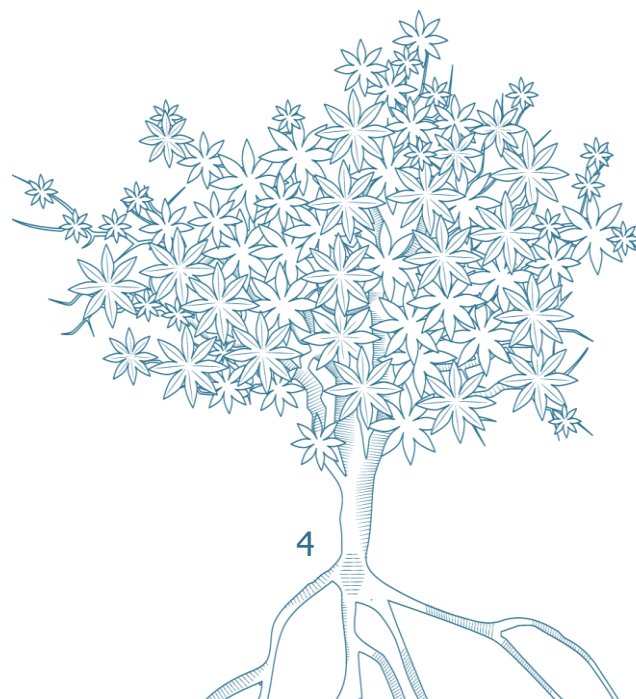
Finally, after years in the making, we were thrilled to kick off our Palau project in November with a site visit and organisational phase. This initiative will focus on restoration, research, and community



capacity building over the next three years and seeing it come to life has been a highlight of the year and a testament to what perseverance can achieve.

As the year winds down, I'm recharging and reflecting with a short holiday in Costa Rica, proud of all we've achieved in 2024 and excited for what's to come next year! We would like to thank all of our partners and sponsors this year. Their generous support has been instrumental in continuing and establishing important conservation initiatives around the world.

From all of us at Team Coralive, we wish our friends, partners and supporters, a wonderful 2025.



Mission and Motivation

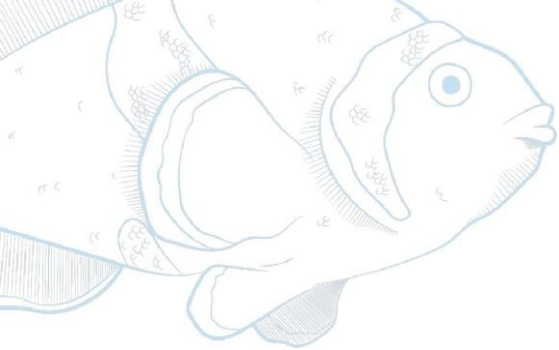
A thriving and diverse coral reef is the foundation of a healthy ocean.

Through active and passive coral restoration efforts we help re-establish vital reef ecosystems on which twenty-five percent of all marine life depends.

Our specialized approach to coral reef restoration involves creating metal rebar structures supported by Mineral Accretion Technology (MAT). Beyond MAT, we employ various other coral restoration methods, including ex-situ spawning & rearing, micro-fragmentation, 3D-substrate printing as well as all the traditional in-situ coral propagation techniques.

By recognizing the interconnected nature of marine ecosystems, we support the health and recovery of coral reefs not only through our direct coral restoration efforts, but also through the protection and restoration of vital habitats such as mangroves and seagrasses. By integrating these diverse and tailored strategies, we hope to secure the long-term health and resilience of coral reefs around the world.





Fields of activity



Environmental Restoration

Coralive provides global best practices to catalyze the healing process and increase the ecosystem resiliency of shorelines against future disturbance.

- Coral nurseries
- Large scale coral relocations
- Mangrove nurseries & reforestation
- Seagrass transplanting
- Living breakwater installations



Marine Protected Areas

Coralive brings local stakeholders together to design, establish, and manage these vital refuges in nature.

- Creation & Implementation of MPA Management Plans
- Installation of Cutting-Edge Technical Support Systems
- Surveillance & Enforcement Training



Environmental Data Collection

Coralive uses the latest available technology to perform underwater mapping, aerial surveying and multi-parameter water quality analysis.

- Hyperspectral & Photogrammetry scans
- Environmental Impact Assessment (EIAs)
- Monitoring of ecological key elements
- Livestream Underwater Cameras including AI



Livelihood Solutions

Coralive has expertise in planning and implementing such projects to ensure all voices are heard and all needs are met.

- Waste Management incl. Waste2Wealth initiatives
- Seaweed Farming and low-impact Aquaculture

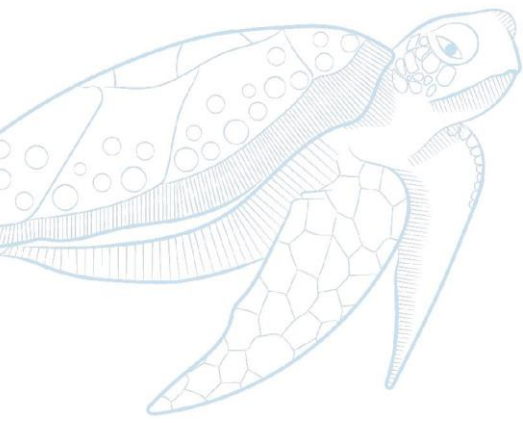


Environmental Education

Coralive's final and perhaps most significant area of focus is the proper transfer of knowledge and experience to local residents in project areas and to the next generation.

- Plastic Pollution Awareness Campaigns
- Coral Reef, Mangrove Forest & Seagrass Education
- Cleanup Events
- Media creation





New and Active Projects

Project Indonesia – Batanta

Initiated April 2024

In April, we spent three weeks at Konstantinus's homestay in Batanta, Raja Ampat, confronting the pressing threat of coastal erosion exacerbated by climate change. This erosion endangers Konstantinus's land and livelihood, a situation worsened by the loss of mangrove ecosystems and reef degradation from illegal dynamite fishing prior to 2016.

To address these challenges, we implemented three key strategies: restoring coral using rope nurseries, planting mangroves in front of the homestay, and constructing breakwater structures to shield the young mangroves as they grow. Konstantinus played a crucial role in monitoring the project's progress, and we observed encouraging results throughout the year. We hope to return next year to assist with the first round of coral outplanting and the repopulation of the rope nursery, continuing our shared efforts to revive this vital ecosystem.



Project Seychelles – Fregate Island

Initiated May 2018 – Revisited May 2024

We have collaborated with the island's conservation team since 2018, initiating MAT coral restoration and associated research over the years. In May 2024, we revisited Fregate to expand the coral nursery from 40 to 120 tables and relocate the original tables, completely overgrown with coral, to degraded reef areas. We were able to find the silver lining of being amidst the coral bleaching event as it allowed us to select the most heat-tolerant corals to populate the new tables. The next steps will be focussed on repairing the MAT system and continue to out plant coral to repopulate struggling patches of reef around Fregate.



Project Maldives – Oaga Resort Initiated May 2018 – Ongoing



In 2024, our coral restoration project at Oaga Art Resort has made notable strides. With Rio now firmly settled as the on-site marine biologist, he has been instrumental in expanding the restoration sites, implementing guest education programs and promoting sustainability at the resort. Additionally, our three-month internship program continues to provide emerging marine biologists with hands-on experience and comprehensive education, furthering their careers in coral conservation. Despite the challenges posed by severe coral bleaching—resulting in over 40% coral loss and a further imbalance of fouling organisms — the resilient coral from our nursery across the lagoon offers hope. We are actively using this robust coral to repopulate the affected structures and areas. Looking forward, we are also preparing for research initiatives at Oaga, which we anticipate will advance our restoration efforts and contribute to a thriving marine ecosystem.

Project Saudi Arabia Initiated March 2024

Taking a more commercial avenue, we began coral farming operations for a large organization in the Kingdom of Saudi Arabia. A dedicated Coralive branch working with their partners have been working tirelessly to produce Red Sea corals in this unique part of the world, utilizing in-water and on-land techniques to grow 100s of thousands of corals.



Project Maldives – Feridhoo Initiated October 2024

Situated in North Ari Atoll, Maldives, Feridhoo is home to a small dive center and restoration organization known as Feridhoo Island Coral Restoration (FICR), based out of Noohiri Diving.

We partnered with these organizations to construct 5 rope nurseries at their existing nursery site. These nurseries were populated to a capacity of 3,000 corals – chosen for their desirable traits and relocated from a variety of depth profiles. These nursery corals will grow under the supervision of FICR until they are ready to be outplanted onto the nearby degraded reefs, which we hope to assist with.



Project Palau – Koror Initiated November 2024

A brand-new initiative between Coralive, Asian Development Bank (ADB), and Palau Pacific Resort (PPR) kicked off in November of this year on the beautiful island of Koror, Palau. Bridging the gap between community and private sector, the project aims to unfold a restoration strategy made up of three parts.

- 1) Mineral accretion technology (MAT) coral nursery for the restoration of nearby degraded reefs
- 2) Research into the carbon sequestration capabilities of MAT
- 3) Design of a replicable conservation strategy that can be packaged and rolled out in similar locations

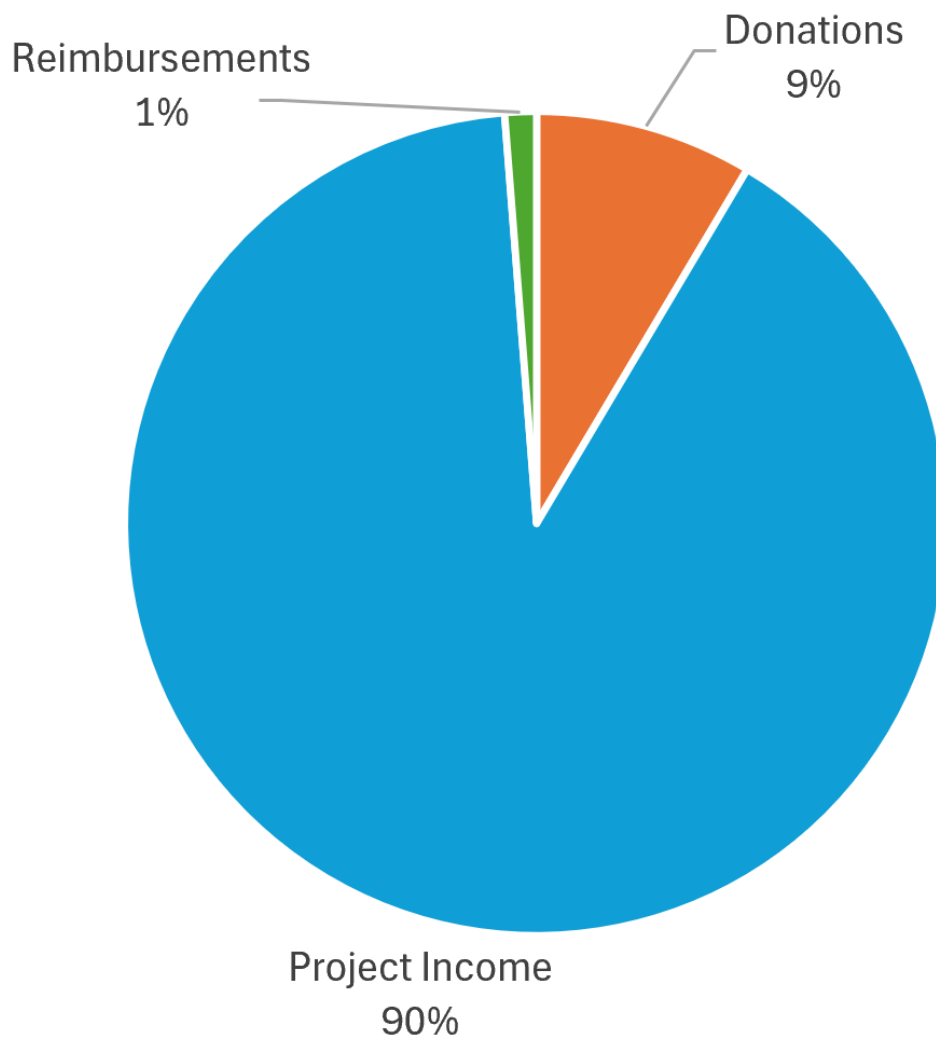
The project is funded by ADB, with Coralive contracted as the expertise on the ground during the three-year restoration timeline. After three years, the project will be handed over the PPR for independent operation within the resort. However, another key component of the project is to capacity build local Palauan team members for this eventual role, as well as educate guests and the local community on coral restoration.

Whilst one scoping visit was completed in November, the physical implementation is due to begin in January 2025.

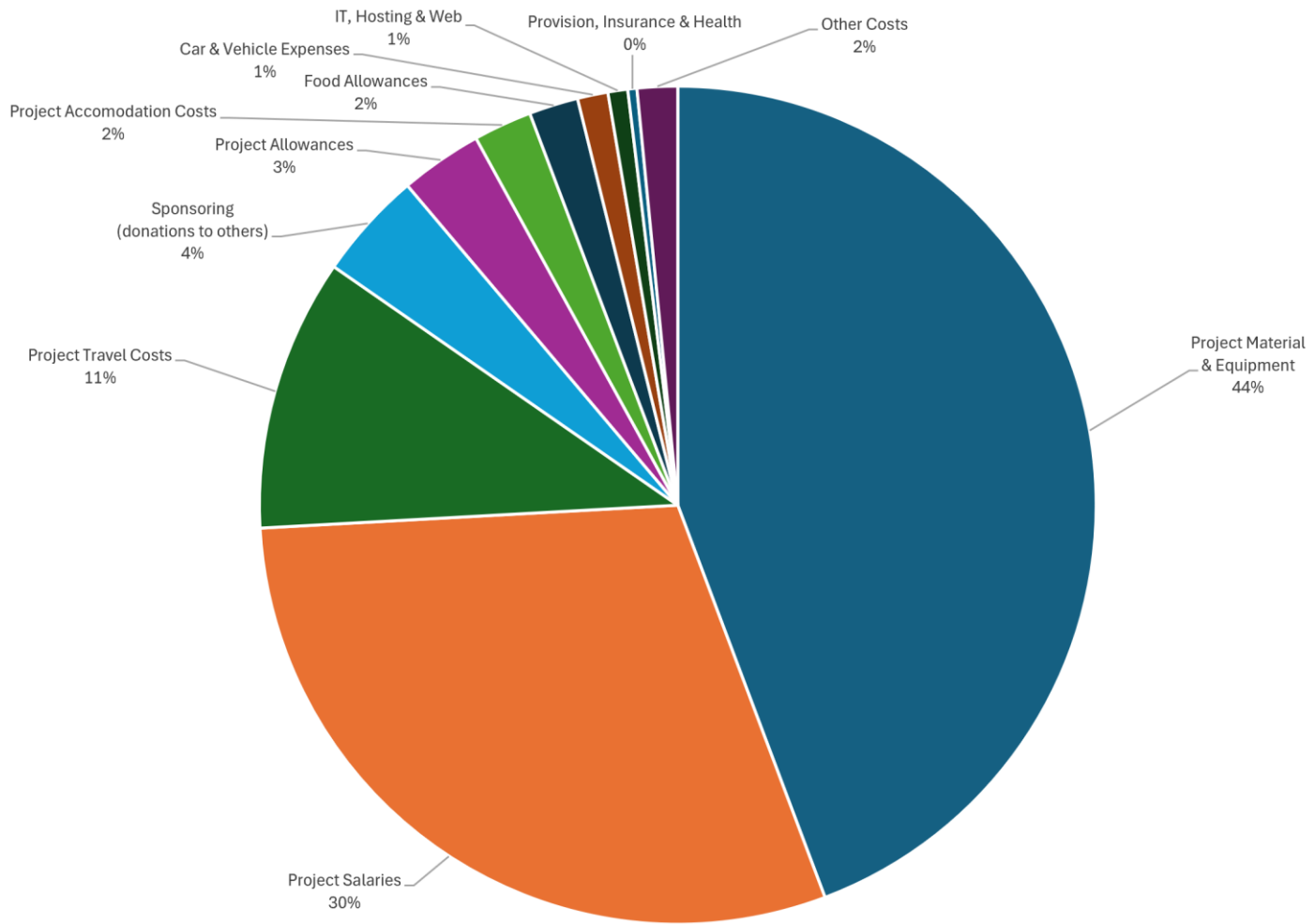


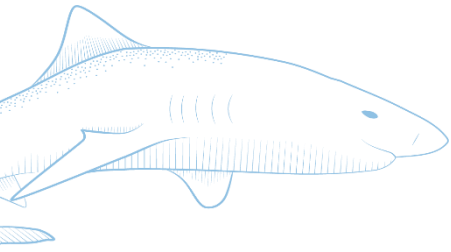
Financials

Income 2024



Expenses 2024





Looking forward to 2025

With the scaling up of our logistics, staffing and project sites this year, we hope to take that same energy and drive into 2025.

In the first few months of the year, we get off to a busy start, simultaneously wrapping up our mystery project in Saudi Arabia, kickstarting a new project in Dubai UAE, and physically implementing our new flagship project in Palau.

In May we look towards more modest projects, continuing to work with Konstantinus in Batanta, Raja Ampat to restore his home-stay reef and reduce the coastal erosion damage he was experiencing last year.

These smaller grassroots projects are a huge goal for us to continue into 2025. We will be looking to invest in multiple versions of these initiatives, which is where we feel we can really give back to the community and see tangible positive impacts of our restoration work.

In the pipeline, we plan to visit ReefDoctor in Madagascar, partnering with Emma Gibbons who we met up with in Mexico this year at Reef Futures. We aim to provide large scale coral farming expertise and support to their amazing initiative and learn how we can better involve communities in our projects.

Furthermore, in the second half of the year, we will aim to return to the Maldives to outplant the 3,000 coral fragments we grew in Feridhoo this year, and hope to land back on Oaga Art Resort to take on a completely new avenue in our organization – more on that later.

And there is even more! We will partner with a variety of scientists and universities this year across our sites to kickstart a variety of valuable and innovative research, from fish abundance in the Maldives, to carbon sequestration in Palau, to mediterranean coral growth in France.

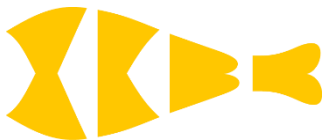
Let's be honest, 2024 was a hard year for the coral restoration industry. Globally, coral reefs saw dramatic declines as a response to the 2024 mass bleaching event, and not many countries avoided the effects. Whilst the numbers are debatable, we are acutely aware that the future of coral reefs is changing rapidly, with coral reef ecosystems expected to be one of the first systems to collapse soon. A general trend we see in the restoration space is the shifting of focus towards strategies that will yield results despite expected annual warming events, such as assisted evolution, genetic biorepositories and specific reef and/or species prioritization.

As an organization directly involved with active coral restoration, we keep these concerns in mind and look towards constant adaptation as we seek to contribute the best we can to a healthy coral reef and ocean. We will strive to bring restoration strategies to our global partners, staying informed about scientific developments and technological innovations that can make our efforts worthwhile and beneficial on this changing planet.

Coralive couldn't do this without their help! We deeply appreciate all donations from individuals, charities and project partners to support our work helping to nurture and restore this marine environment to its full potential. Please keep in mind that all financial donations made by Swiss Citizens, Associations and Companies will receive a confirmation for tax deduction purposes.

US Financial Donations greater than 50'000 US\$ will receive a confirmation for tax deduction purposes through our association with the Tides Foundation, a registered 501(c)(3) nonprofit.

Coralive compensates all flights through CO₂ certificates managed by myclimate.org.



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