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If I could invent something new, it would be Ocean Revitalisation Platforms (ORPs). The world’s oceans are now facing unprecedented threats from human activities. Plastic pollution, in particular, has now become a pressing issue, with millions of plastic wastes entering the ocean every year, harming marine life and contributing to climate change. These plastics affects the ocean temperatures leading to coral bleaching, changes in fish distributions, and altered marine food webs.

Furthermore, the main purpose of the Ocean Revitalisation Platforms (ORPs) is to restore and preserve the health of the world’s ocean by addressing various environmental challenges. These cutting-edge systems aim to remove plastic waste, restore marine eco-systems, and even mitigate the effects of climate change. The ORPs would be an innovative and large-scale system, designed to restore the health of the world’s oceans.

Additionally, the ORPs would consist of several modules each with a specific function. The first module would be a network of under water cleanup systems which would collect plastic wastes and other pollutants from the oceans surface. It would reduce harm to marine animals and their habitats and promote a healthier ocean eco-system. This platform will also ensure that fewer animals get entangled in plastic waste like plastic nets. Sea turtles; who are particularly vulnerable to getting entangled in plastic nets, would be protected by the ORPs. This module will protect these incredible creatures and the eco-system they inhabit. The ORPs would reduce plastic waste in the sea and promote sustainable practices which can help ensure the long-term survival of sea turtles.

The second module would be a carbon capture and utilization system converting CO2 (Carbon Dioxide) into beneficial products such as biofuels and fertilizers. This platform will use advanced technologies to capture CO2 from the atmosphere and from the ocean surface. Once captured, it can be converted into valuable products including biofuels, chemicals, and nutrients for aquaculture and agriculture. The major function of this module is to generate renewable energy from energy sources such as solar and wind, to power its operations. This will help generate valuable products and support sustainable development.

The third module of the ORPs focuses on marine eco-system restoration. This module aims to utilize sensors, drones, and AI-powered monitoring systems to track ocean health, identify areas of concern and assess the effectiveness of restoration efforts. It will also employ innovative techniques like 3D printing and eco-friendly materials to restore damaged and degraded habitats such as coral reefs and mangroves. This module aims to revitalize and preserve marine eco-systems, supporting the health of our oceans and the planet.

In conclusion, though the development of ORPs would require significant investment and innovation, the benefits to the ocean and humanity would be immeasurable. The ORPs would have a profound impact on the health of our oceans and the planet as a whole. I strongly believe that inventing the Ocean Revitalisation Platforms (ORPs) would be a game changer for the future of our oceans, planets and eco-system.