



E2F ANNUAL REPORT OF ACTIVITIES, 2021

ENVIRONMENT AND FOOD FOUNDATION (E2F) ANNUAL REPORT OF ACTIVITIES, 2021



DOUALA, LITTORAL REGION, CAMEROON. REG NO. 140/G.37/C84/VOLI/SASC
TEL: (+237) 677040017, EMAIL: e2fcameroon@gmail.com,
Website: www.e2fcam.org.



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Lake Ossa Wildlife Reserve, Cameroon



Douala-Edea national park, Cameroon



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A word from the Founder & Executive Director

Environment and Food Foundation (E2F) is an environmental nonprofit and nongovernmental organization which was founded in 2017 by **ACHARE Elvis AYAMBA** and by some fisheries and aquatic sciences engineers as co-founders. E2F was officially registered in 2019. E2F has as mission to promote sustainable use, protection, restoration, conservation and management of marine and fresh water ecosystems of mangroves, wetlands, lakes, rivers, streams, and oceans through: Collection and valorization of marine litters/debris, conservation of threatened marine/aquatic habitats and species, Conducting research and studies, the development of alternative sources of income that will eliminate primary reliance on the environment, raising awareness and environmental education in local communities, advocacy, strengthening the capacity of all stakeholders involved including the local communities, government.

E2F envision to see a world where all has the right mindset to live in harmony with our blue planet (nature).

In the year 2021, we focused our activities in littoral region and south west region of Cameroon, precisely in the coastal city of Douala, bios des singes wildlife reserve, lake Ossa wildlife reserve and down beach, dockyard, limbe in Cameroon.

Our main activities were; Advocacy, Environmental education, Cleanup events, Research, conservation and closing the loop (reusing plastic waste bottles and ghost gears).

In the year 2022, we seek to scale up our activities through:

Setting up a full scale plastics recycling plant (factory) which include moderne collection, transportation, sorting, storage, recycling (both mechanical and chemical) systems for plastics waste in Douala, Cameroon.

Engage in manual and mechanical removal of invasive aquatic weed *Salvinia molesta*, promote agroforestry, developing alternative livelihoods for farmers and fishermen, running ecotoxicology study of water parameters, and promote ecotourism in lake Ossa, Cameroon.

Set up mangroves plants nurseries, replanting of mangroves plants, developing alternative livelihoods for farmers, promote and develop ecotourism in Douala-Edea national park, Cameroon.

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I wish to seize this opportunity to express our heartfelt gratitude to our partners and supporters both individuals and organizations for their technical, financial, material and moral support. We also wish to thank the local communities and administrative authorities for accompanying us to meet our mission.



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Summary

Environment and Food Foundation (E2F), is an environmental nonprofit and nongovernmental organization (NGO) that implements programs on marine and aquatic ecosystems conservation, marine litters/debris collection and valorization, mangroves conservation, wetlands management, and other aquatic ecosystems along the Cameroon coast with support from many stakeholders and organizations. E2F mission is to promote the sustainable use and management of marine and aquatic ecosystems through advocacy, environmental education, conservation projects and research. E2F aim is to conserve the rich biodiversity of our marine and aquatic ecosystems by contributing to minimize marine plastics pollution, conservation of threatened marine/aquatic species and habitats, conducting research and studies, the development of alternative sources of income that will eliminate primary reliance on the aquatic resources, raising awareness and environmental education in local communities.

In 2021, E2F focused on four (04) main programs:

The first program entitled; **Collection and valorization of marine plastics waste in Douala, Cameroon.** The implementation of this program started in the city of Douala, Cameroon. The main activities executed in this program were: Advocacy, Hosting cleanup events and collecting plastics, reusing of the collected plastic waste bottles to construct eco-friendly products namely eco-benches, bulb coverings, eco-chairs, paving tiles, increase awareness and environmental education in communities and schools on sustainable management of plastics waste.

The second program entitled; **Participatory management and conservation of mangrove forest ecosystems in bios des singes mangrove forest ecosystem, Douala, Cameroon.** The program's activities implemented were; Environmental education and awareness raising on sustainable management and use of mangrove forest ecosystems in coastal communities, replanting of mangroves plants, cleanup events in mangroves.

The third program entitled; **Biodiversity conservation through community participation in lake Ossa wildlife reserve, Cameroon.** The activities implemented in this program were: Manual and mechanical removal of the invasive *Salvinia molesta* weed in the lake Ossa, increase awareness and environmental education in communities, setting up of plant nurseries, planting of native plants along the banks of lake Ossa.



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The fourth program entitled; **Collection and Valorization of abandoned, lost, or otherwise discarded fishing gears (ALDFGs) at the coast of Limbe, Cameroon.**

The activities implemented in this program were; Community engagement, research and development, stakeholders workshop, construction of a collection point, collection of ghost gears and craft workshop.



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Our core team

SN	Name	Function/Role
01	ACHARE ELVIS AYAMBA	FOUNDER & EXECUTIVE DIRECTOR
02	EPOLLE RACHELLE MAKOGE	CO-FOUNDER/SECRETARY GENERAL
03	STEPHEN MBI	CO-FOUNDER/CHIEF OF OPERATIONS
04	FELICIEN NYENTY	CO-FOUNDER/CONSERVATION CO-ORDINATOR
05	EBOT COLLIN	CHIEF FINANCIAL OFFICER
06	Dr NYADJEU PAULIN	TECHNICAL ADVISER
07	NJEI RHEINARD	INFORMATION TECHNOLOGY (IT) EXPERT
08	BELLA NDJOMO NADEGE	Field Assistant
09	DONGMO NGUEMEZI DIVINE	Field Assistant
10	BETEK BESSEM LADY- DIANA	Field Assistant
12	NJUMBE YVONNE	Field Assistant
13	VALERIE MANYOR	Field Assistant
14		



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Our core team



Founder & Executive Director



Co-founder/Secretary General



Co-founder/Conservation Coordinator



Co-founder/Chief of Operations



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SOME OF OUR MAIN ACHIEVEMENTS IN 2021

- ❖ We hosted over 18 cleanup events
- ❖ We removed and collected over 40.900kgs of plastic waste from rivers, streams, mangroves and landfills.
- ❖ We removed over 50.000kgs of invasive aquatic weed from lake Ossa.
- ❖ Valorization of some of the collected plastics into crafts.
- ❖ Recycling of plastic waste into paving tiles (eco-bricks).
- ❖ We hosted over 15 environmental education training workshops with students and indigenous coastal people.
- ❖ Educated over 2,000 students and 3,000 indigenous coastal people on sustainable marine/aquatic ecosystems use and management.
- ❖ Our Founder & Executive Director, **ACHARE ELVIS AYAMBA** was awarded 3 international awards, which include:
 - Award of « Top 100 Young African Conservation Leader » awarded by World Wildlife Fund for Nature (WWF), African Wildlife Foundation (AWF), Africa Alliance of YMCAs and World Organization of the Scout Movement.
Link: <https://top100youth.africa/top-100-leaders/>
 - Award of « EE 30 Under 30 » awarded by North American Association for Environmental Education (NAAEE), with support from Global Environmental Education Partnership (GEEP), Wells Fargo, and U.S Forest Service.
Link: <https://naaee.org/our-work/programs/ee-30-under-30>
 - Award of « Youth Innovation Challenge » awarded by Global Environmental Education Partnership (GEEP) and North American Association of Environmental Education (NAAEE).
Link: <https://bit.ly/YouthInnovation2021>



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E2F IMPLEMENTED ACTIVITIES IN 2021

Activities of January 2021

E2F Cleanup event at pont combi, Douala, Cameroon.

Environment and Food Foundation (E2F) started the year 2021 with a cleanup event at pont combi, Douala, Cameroon. E2F is strengthening the plastic supply and value chains, creating new jobs, as well as relieving Douala, Cameroon from plastics pollution. We aim to change the paradigm on plastics by monetizing and turning what was once waste into a resource, as a way to reduce extreme poverty in Cameroon.

E2F hosted 02 cleanups, involving over 30 volunteers who were present in the cleanup events. Over 4,000kgs of plastic bottles were picked up and collected during these cleanup events. During these cleanup events we also did environmental education with over 60 people.



Cleanup event at Pont combi, Douala, Cameroon.



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February 2021 activities

Cleanup event at the Pont Combi, Douala, Cameroon.

Environment and Food Foundation (E2F) continued the year 2021 with another awesome cleanup events at pont combi, Douala, Cameroon. We successfully hosted 02 cleanups in this month. There were over 25 volunteers who were present in the cleanup events. Over 3,000kgs of plastic bottles were picked up and collected during these cleanup events.

During these cleanup events we also did environmental education with over 40 inhabitants living around the cleanup site.





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Cleanup event at Pont combi, Douala, Cameroon.

March 2021 activities

Clean-up event at Pont Combi-Douala, Cameroon

The cleanup site was at pont combi-Douala. This river in Douala is overflowing with wastes of all sort especially plastics, and are as such affecting both human health and the ecosystems downstream. When the rivers flood during the rainy season, waste clogs the system and starts flowing into people's homes, carrying with them diseases and vast amounts of trash. We hosted 02 cleanups during this month. 20 volunteers were present in the field for the clean-ups. We picked about 3,500kgs of plastic bottles on these cleanup days. The plastic bottles were collected then weighed using a weighing scale and recorded. The collected plastics was transported to E2F storage site for reusing.



Cleanup event at Pont combi, Douala, Cameroon.

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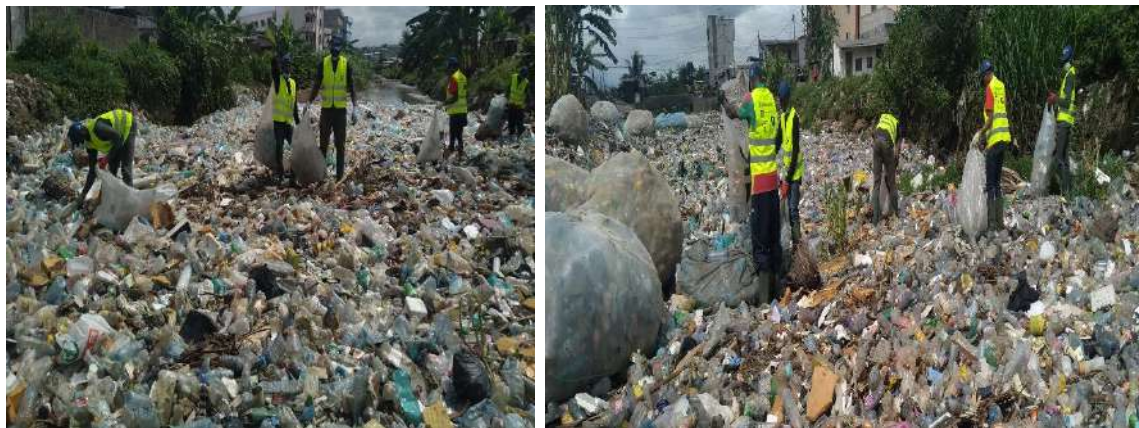


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April 2021 activities

Cleanup events at Pont Combi, Douala, Cameroon

It was indeed a year where E2F laid more emphasis on hosting cleanup events for the collection of plastic waste bottles in beaches, rivers, mangroves, landfills. E2F hosted 03 successful events in this month involving over 30 volunteers. Over 5,000kgs of plastics waste was collected from the natural environment.





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May 2021 activities

Waste Free Oceans (WFO) Roadshow event

The event was aimed to;

- Increase environmental education and raise awareness among the fishermen on conservation of lake Ossa wildlife reserve.
- Engage the fishermen in a cleanup event, to demonstrate the practical aspects and usage of the collection trawl in the lake Ossa for the removal of the invasive weed *Salvinia molesta* in the lake. Also engage the fishermen in the manual removal of the invasive weed.

E2F staffs, government officials and fishermen, engaged in a collective effort for the mechanical and manual removal of the *Salvinia* from the lake.

About 35 fishermen and 5 eco-guards accompanied E2F team for the manual and mechanical removal of *salvinia* in the lake.

Over 50.000kg of *Salvinia molesta* was collected from lake Ossa during this event.



Mechanical removal of *Salvinia*



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June 2021 Activities

Clean up events: World Environment day and World Ocean Day celebration

Throughout the month of June 2020, E2F hosted 03 consecutive cleanup events and 3 environmental education focus group discussions. These cleanups were hosted through E2F's collaboration with an international organization called River Cleanup. The cleanup events took place in ponte combi and bios des singes mangroves in Douala, Cameroon highly polluted with plastics waste. Over 500 volunteers participated in the in the cleanup during the celebration of world Ocean day. Over 200 volunteers participated in the cleanup event in celebration of world environment day. During these 03 cleanup events more than 15,000kgs of plastic waste was removed and collected.



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July 2021 activities

Construction of eco-chairs, eco-benches and bulb coverings from plastic bottles

E2F valorizes plastic waste bottles by reusing plastic waste bottles to construct eco-friendly products like eco-benches, bulb coverings, eco-chairs, and among others.

After collecting much volume of plastics waste from landfills and rivers we then reuse the plastic bottles sustainably by using it to make crafts. We are transforming waste into a resource.



Construction of eco-benches



E2F waste Ambassador



Collected plastic waste bottles



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August 2021 activities

Trees and Seas Festival; Environmental education and Cleanup events at Bios des singes mangroves and pont combi.

During the month of August, the main activity we did was the Trees and Seas Festival of Blue Communities of Plastics Oceans International.

While celebrating this festival, we successfully implemented the following activities; 02 cleanup events at pont combi, 01 cleanup at bios des singes mangroves, 01 cleanup using WFO collection trawl, 01 environmental education workshop.

We collected over 3,400kgs of plastics, educated over 200 indigenous coastal communities members.



Trees and Seas festival celebration in Douala, Cameroon

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September 2021 activities

Clean up event: World cleanup day 2020

In celebration of the world clean up day 2021, E2F as an environmental organization addressing the issue of plastic waste also participated in this international event. More than 20 E2F plastic waste ambassadors participated in this international event. The cleanup event took place at bios des singes mangroves, Douala, Cameroon. This mangroves is highly polluted with plastics waste and the mangroves is biologically death. The plastic bottles were picked up, weighed, registered and collected for reusing. More than 2,000kgs of plastics waste was removed from the mangroves during the cleanup event and collected.



World Cleanup day celebration at pont Combi

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October 2021 activities

Manual removal of *Salvinia molesta* from lake Ossa

Race for Oceans; Environmental education and Cleanup event at bios des singes mangroves

The major threat in the lake Ossa currently is the presence of the invasive *Salvinia* plant in the lake. In 2015 *Salvinia molesta* a plant native to Brazil was found in lake Ossa. In 2019, the invasive *Salvinia* plant spread more aggressively in the lake especially in the hot-spot of African Manatees the most charismatic species in lake. Presently the *Salvinia* weed has already occupied over 40% of the total surface area of the lake.

As a step towards the mitigation of the threat of invasive aquatic weed *Salvinia molesta* in lake Ossa, E2F team and local population (fishermen) engaged a participatory manual removal of *Salvinia* plant using hand nets, baskets, and nets.. The collected *Salvinia* was valorized locally by using it to produce manure and biogas.



Manual removal of *Salvinia* at Lake Ossa, Cameroon



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Race for Oceans event:

Another activity we successfully implemented during this month was the race for oceans global event. E2F was one of the official hosting organization in the world. The activities we implemented during this event were; sports for environment, environmental education workshop with children and indigenous people and cleanup event. Over 60 indigenous people were present during this event and over 40 children also participated in this event. We removed and collected over 3,000kgs of plastics from the mangroves



Race for oceans event in Bios des singes mangroves, Douala, Cameroon.

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November 2021 activities

Environmental education and Research and Development for the ghost gear project in Down beach, Dockyard, Limbe, Cameroon.

E2F launched a new project in the month of November 2021, aimed at addressing the issue of ghost gears in the coast of limbe, Cameroon.

Through this project we engaged in environmental education educating the indigenous coastal people on the negative impacts of abandoned nets. We had a series of focus group discussions with fishermen, traditional leaders, government officials, fish traders, women and youths. Over 400 community members were educated.

We also did research by issuing questionnaires to fishermen.





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December 2021 activities

Cleanup event at bios des singes, Douala-Cameroon

E2F as an organization addressing the issue of plastic waste always hosts cleanup events on a regular bases. We started the year 2021 with cleanup event and thought it wise to end the year 2021 with a cleanup event. More than 20 E2F plastic waste ambassadors participated in the cleanup event. The cleanup event took place in a river at pont combi, Douala, Cameroon. This river is highly polluted with plastic bottles and the river is biologically death. The plastic bottles were picked up, weighed, registered and collected for reusing. Over 2,000kgs of plastics waste was removed from the river during the clean up event and collected.



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Our Partners and Supporters





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Together we can transform waste to wealth - Join us!

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wastewisecities@un.org



omprakash

