

9:45 am Pacific Time
October 3, 2024

Track A

The logo for the National Zero Waste Conference is a blue circle containing the text "NATIONAL ZERO WASTE CONFERENCE" in white. The word "ZERO" is significantly larger than "WASTE" and "CONFERENCE". To the right of "ZERO" is a circular icon with a green arrow forming a loop, symbolizing recycling or a circular economy.

NATIONAL
ZERO
WASTE
CONFERENCE

Concurrent AM

International Zero Waste Systems

Speakers:

Sedat Gundogdu
Margaret Rachel
Fernando Ramírez

Moderator: Teresa Bradley

Day 2 • Zero Waste Communities

Hosted by:



9:45 am Pacific Time
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Teresa Bradley

CEO

**Race to Zero Waste
(Moderator)**

International Zero Waste Systems



National Zero Waste Conference 2024

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Sedat Gundogdu
Prof. Dr.
Çukurova University/
Microplastic Research Group

International Zero Waste Systems



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Margaret Rachel

Founder

Climate Conscious Generation

International Zero Waste Systems



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GLOBAL ZERO WASTE

WHATS KENYA DOING ABOUT IT?

CLIMATE CONSCIOUS GENERATION



ABOUT US

Established in 2023, Climate Conscious Generation is a pioneering initiative dedicated to nurturing a generation of environmentally aware and socially conscious leaders. Committed to addressing the pressing issues of climate change, our organization focuses on educating school-going children about environmental sustainability while advocating for the representation of women, children, and local communities in policy-making arenas worldwide.

Global Zero Waste: A Focus on Kenya

- ▶ The global zero waste movement strives to minimize waste generation and promote sustainable practices. This presentation delves into international efforts, focusing on Kenya's remarkable initiatives to reduce plastic waste in schools.

Kenyan Government Initiatives

Global Treaties

Kenya has been a signatory international agreements like the global treaty for plastic pollution (2022)

UNEA 5.2 # endplasticpollution

Public Awareness Campaigns

,Kenya is carrying out different campaigns under the initiative of the GOK. E.g world environment day match.

Ban on single- use plastics

Directive from the GOK in 2017 has significantly reduced plastic waste in Kenyan communities and schools

Plastic waste management regulations

Aims to establish an environment that prioritizes waste minimization
And contributes to circular economy.

Incentives for recycling

Business in plastic recycling are VAT exempt for all services offered in recycling plants and the cost of machinery and equipment to build recycling plants.



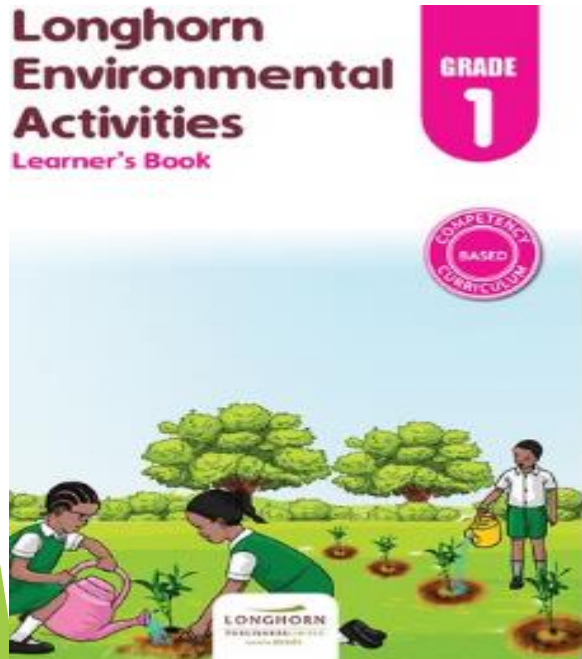
Cabinet secretary on a match

Grassroots Efforts in Kenyan Schools

School- led Initiatives

Schools have implemented composting programs, established recycling centers, and conducted clean-up drives in their communities.

Schools have integrated environmental education into their curriculum, teaching students about waste reduction, recycling, and sustainability.



Challenges and Barriers to Zero Waste in Kenya

Lack of infrastructure.

Insufficient waste collection and sorting infrastructure poses a significant challenge to proper waste management.

Limited resources.

Financial constraints and limited human resources hinder the implementation of effective waste reduction programs

Inadequate Waste Management Education

Lack of awareness and understanding among the public regarding proper waste disposal practices majorly contribute to the problem.

Informal Waste Sector

The informal waste sector, often lacking proper safety measures, contributes to environmental pollution and health risks.



CALL TO ACTION.

How can you help us get there.

Stakeholder Engagement

Collaborate with policymakers, educators, and community leaders to secure long-term support and resources.

For collaboration with CCG-AFRICA.

EMAIL: ccgafricainfo@gmail.com

Looking for funding opportunities, conferences attendance opportunities, joint programs implementation.

ASANTE SANA.



Climate Conscious Generation

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Fernando Gabriel Ramírez

Founding Member

Fundación Héroes

del Medio Ambiente

International Zero Waste Systems



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FUNDACIÓN HÉROES DEL MEDIO AMBIENTE

Asociación Civil sin Fines de Lucro (ASFL) Incorporada
Misión: Cambio de hábitos hacia una vida sostenible



WE

HMA is a non-profit non-governmental organization incorporated under the laws of the Dominican Republic.

It is authorized by:

- the Ministry of the Presidency,
- the Ministry of Environment,
- the Ministry of Education,
- and the Ministry of Planning, Economy, and Finance.

Since 2007.

Our mission is to encourage behavior change among various population groups towards sustainable living.

THE PROBLEM

DOMINICAN REPUBLIC: Location

Location with respect to the USA

Miami – Dominican Republic:
744 miles (2 hours)

Fort Lauderdale – Dominican Republic:
799 miles (2:18 hours)



La Hispaniola Island



Located between the islands of Cuba and Jamaica to the west, and Puerto Rico to the east,

it is the second largest island in the Greater Antilles archipelago.

La Hispaniola was the first Spanish territory in the New World, discovered by Christopher Columbus on his first voyage in 1492.

It is the most populous island in the Americas.



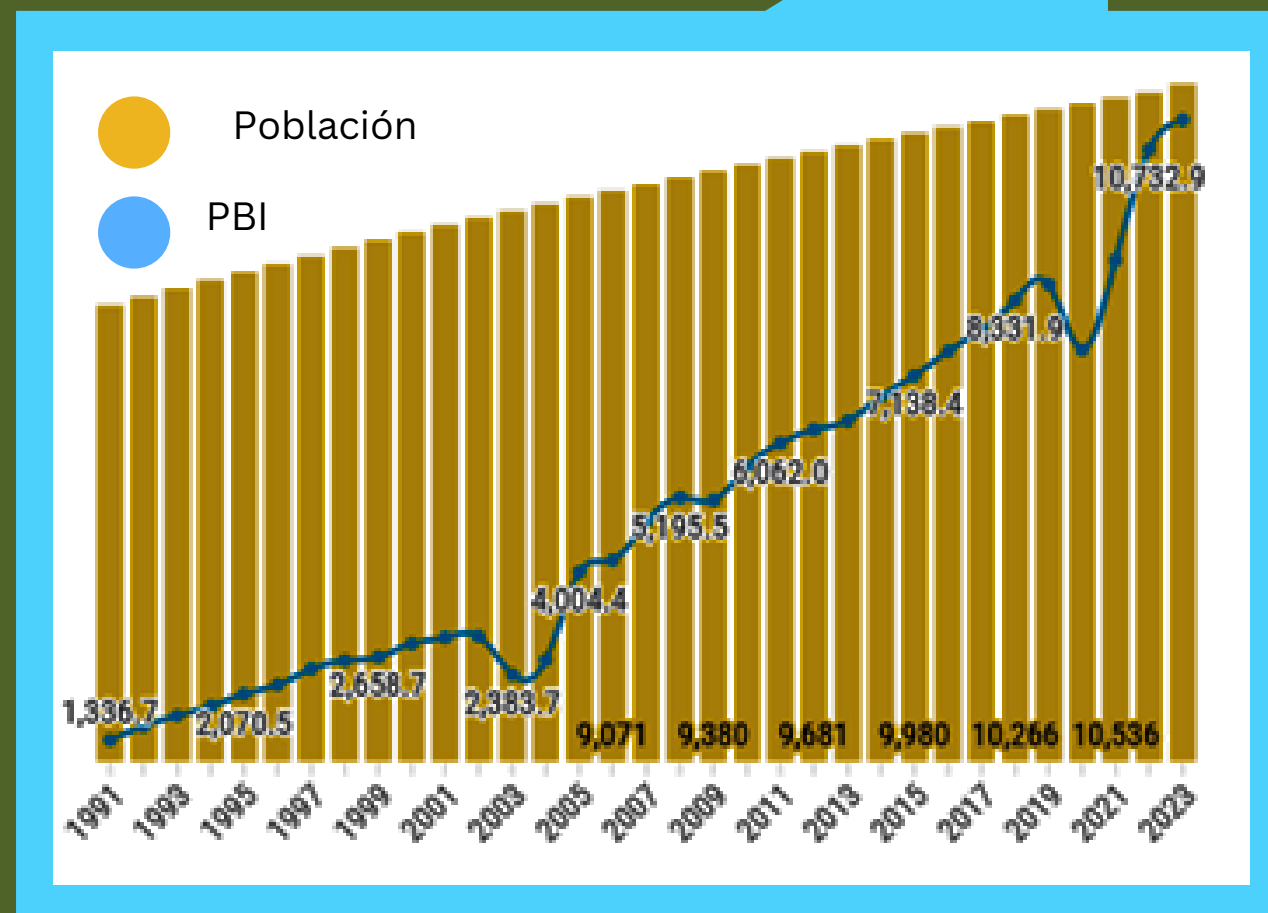
The island of Hispaniola is politically divided into two states: the Dominican Republic and Haiti.

In the Dominican Republic, Spanish is predominantly spoken, while in Haiti, French and Haitian Creole are primarily spoken.

Although they share African and European cultural influences, the Dominican Republic tends to have a culture more influenced by Spain and the Caribbean, while Haiti shows a stronger cultural influence from Africa and France.

The differences in terms of deforestation between the Dominican Republic and Haiti are significant and are due to a variety of historical, economic, and environmental factors.

Economic growth in a short period of time.



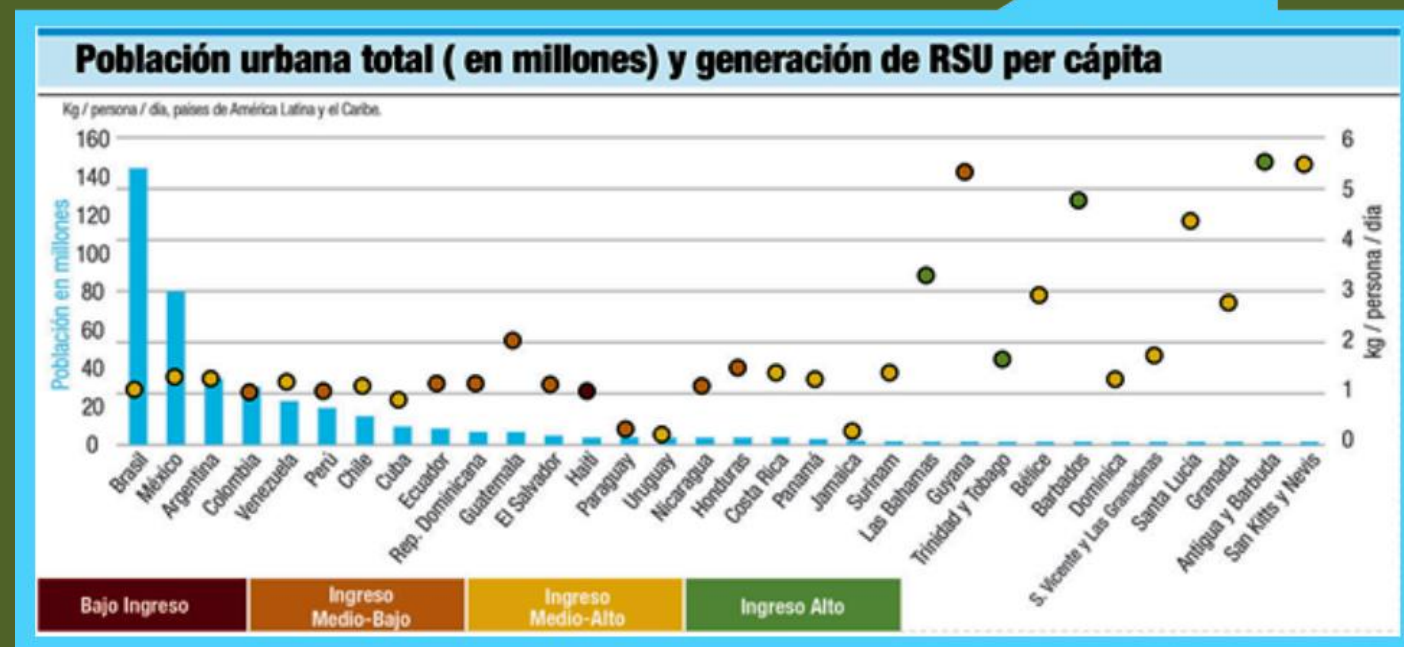
The economic context of the Dominican Republic has experienced significant growth in Gross Domestic Product (GDP) in recent years. According to data from the Central Bank, GDP per capita has increased by 48.4% since the year 2020.

This increase has been reflected in a growth of 4.35% in one year and 74.7% in a decade.

In 2023, the nominal GDP growth rate in dollars per capita was 4.35% compared to the previous year.

The gradual increase in GDP has positioned the country among the economies of Latin America with the best performance in the last year.

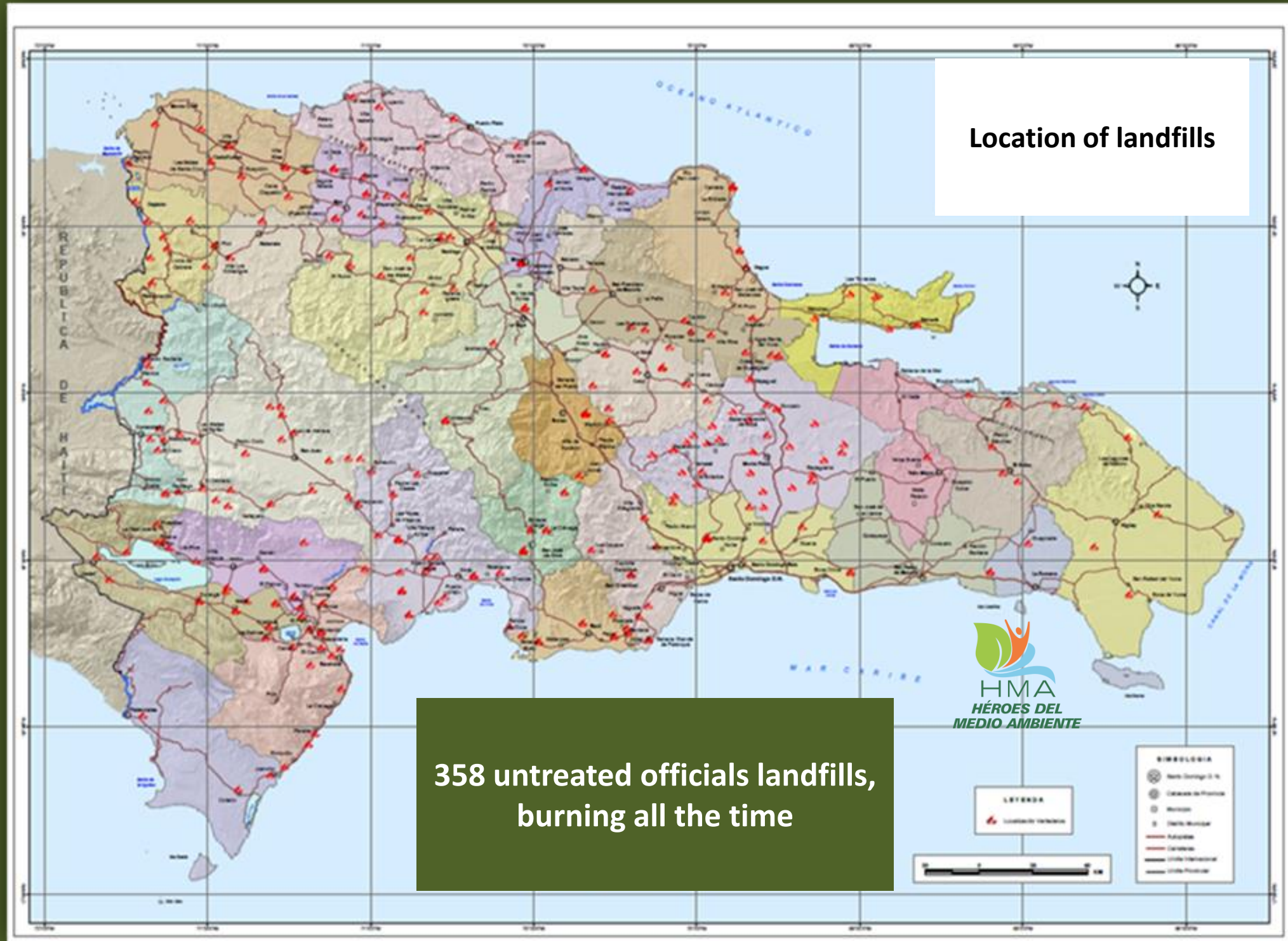
Economic growth and increase in waste.



Favorable socio-economic factors have contributed to a significant increase in waste generation, placing the Dominican Republic among the countries with a high rate of solid waste generation in the Latin America and Caribbean region.

In 2017, the country ranked 15th out of a list of 40 countries, with a per capita waste generation rate of 1.08, surpassing nations like Brazil, Panama, and Uruguay.

Situation of landfills in the Dominican Republic.



Approximately 12,300 tons of waste are deposited daily in 358 open-air landfills throughout the country.

66% occupies land suitable for food cultivation.

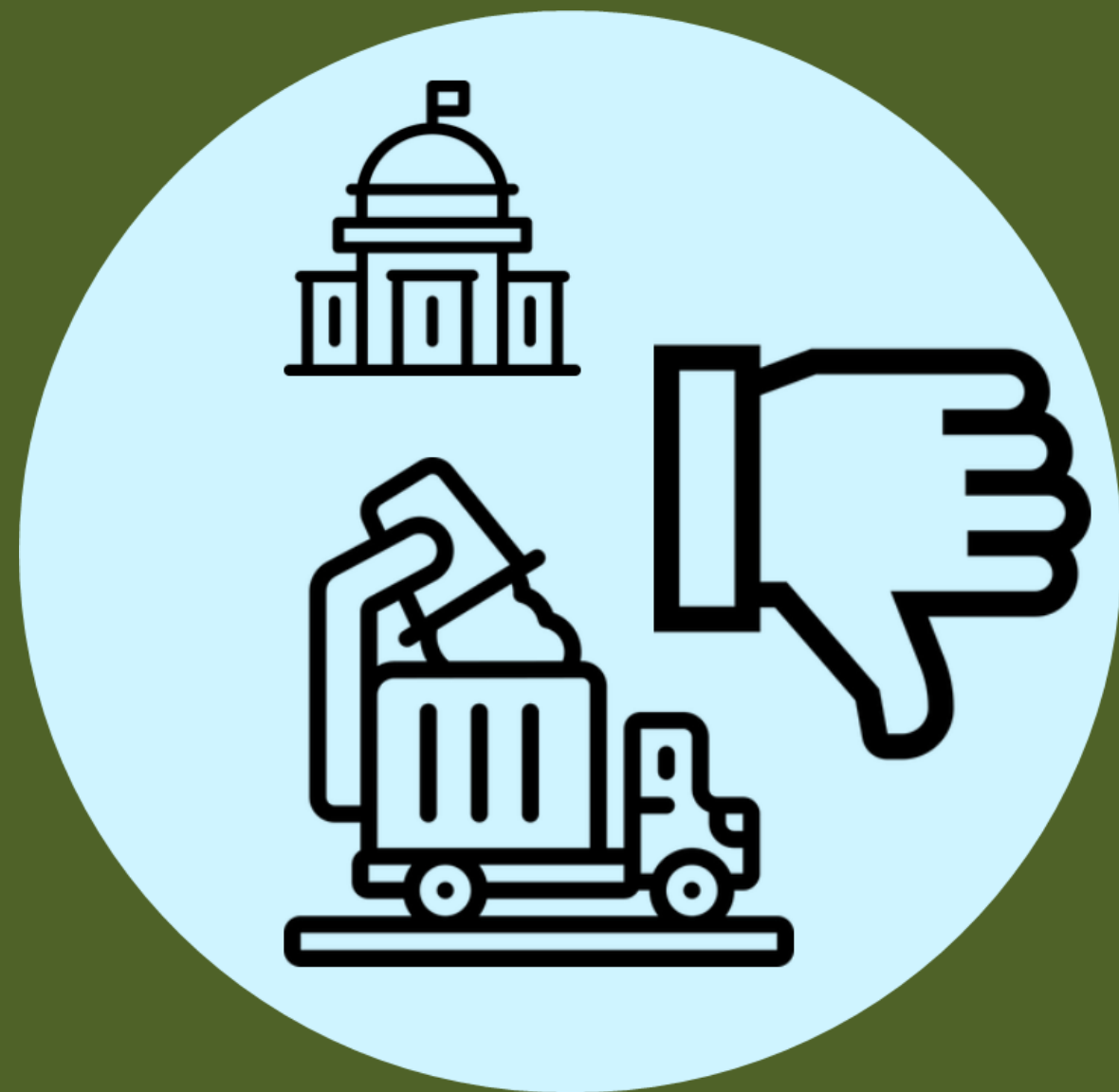
60% of the landfills are located in areas of high hydrological importance.

42,966 liters of leachate per day penetrate the soil.

There is one landfill every 133 square kilometers.

Families of informal recyclers live within the landfills in subhuman conditions.

Inadequate garbage collection.



According to the Waste Law, municipalities are responsible for waste collection.

However, they lack the necessary resources to invest in fleet renewal, staff training, and acquisition of technologies required for efficient waste management.

The deficiencies in waste collection service provision are reflected in the reluctance of the population to pay garbage bills, which in turn results in weak revenue collection.

This situation creates a vicious cycle that hampers improvement in waste management.

95% of materials could be recycled

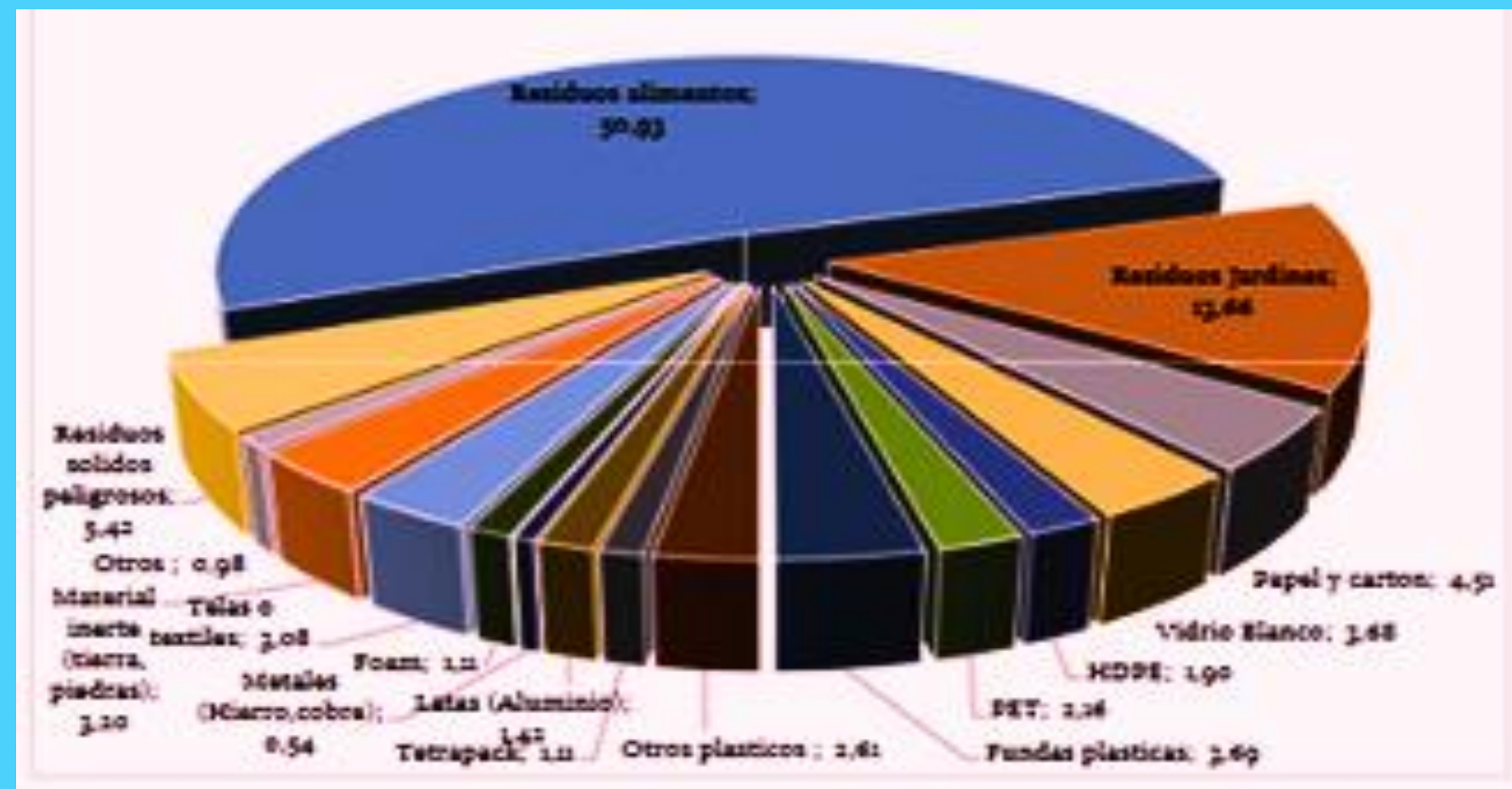


Families of informal recyclers live within the landfills in subhuman conditions.

These landfills represent mountains of putrefied waste where entire families survive as base recyclers, facing subhuman conditions.

It is estimated that up to 95% of materials that could be reused, recycled, or transformed are lost in these landfills.

95% of materials could be recycled



More than 50% of the waste in the Dominican Republic is organic and could be composted; however, the percentage that is recycled is less than 1%.

Plastic is the second most frequently occurring waste in landfills, after organic waste.

Twenty-five percent of it is recyclable, however, only 1% is commercially utilized.



On the path
towards the solution
with Zero Waste.



2006 / 2008: Our Beginnings



Punta Cana: Construction of a public school for low-income populations. The school is located within the hydrographic basin of the region. It is the first educational center to implement an environmental education program in this strategic tourist area.

Punta Cana: First large-scale environmental education campaigns about the lifespan of waste in the sea, rivers, and land. Initial initiatives funded through the corporate social responsibility of tourism companies.

2008, Punta Cana: First beach cleanup operations in the country. With the special participation of the Minister of Environment of that year and local corporate volunteers..

2008 / 2020: Development of a concept



First Municipal District "Las Placetas Zero Waste": A pilot project for waste management under the Zero Waste concept. Results: no more municipal landfill, the community recycles 85% of its waste, and the change is incorporated and institutionalized through municipal laws. The first Zero Waste pilot project in the Dominican Republic.

Participatory measurement of water quality in the island's main hydrographic basin. Volunteer groups from 23 rural communities are trained to regularly measure the water quality of their rivers and report to community associations and municipal authorities.

Creation of the Zero Waste in Schools program. A pilot project involving teachers, parents, and students from 12 schools located in one of the economically strategic regions for the Dominican Republic.

2008 / 2020: Development of a concept



Replication of the Zero Waste pilot project in rural communities. They produce organic bananas for export.

Mao Zero Waste Project. Implementation of the program in a city with 100,000 inhabitants, establishment of the citizen committee, capacity building for municipal employees, community leaders, educational institutions, and businesses. Creation of the first organic waste composting plant for the production of fertilizer and sale to local rural producers.

Manabao Zero Waste. Replication of the pilot project in a rural community of strategic environmental importance for the Dominican Republic. Zero Waste project at the source of the island's main hydrographic basin.

2008 / 2020: Development of a concept



The ZACK Project, developed in collaboration with the German Cooperation and the National Council for Climate Change in the Dominican Republic's second most important city, aims to identify potential inclusive value chains for waste with key private sector generators.

Partnership with the Swiss NGO Race for Water. Proof of concept to benefit low-income communities located on the banks of the Ozama River in the city of Santo Domingo.

Promotion of the reduction of private companies' ecological footprint through training and development of specific action plans for their staff, as well as the involvement of volunteers in Zero Waste projects.

2021 / 2024: Zero Waste + Circular Economy



From Zero Waste to Circular Economy. In collaboration with the GIZ Caribbean Circular project, the objective is to reduce plastic waste pollution in the ocean by creating ventures that use that waste as raw material for manufacturing. A pilot project in Cabarete, Puerto Plata, focuses on manufacturing plastic wood by recycling HDPE plastic waste .



What are we doing today? Focal point: State of Puerto Plata



Our current focal point is the province of Puerto Plata, with projects in Cabarete, Maimón and Puerto Plata city.



What are we doing today? Zero Waste Cabarete

Inicia la construcción de la Estación Circular en Cabarete

Conoce tu estación Circular:
Un espacio educativo único en tu municipio,
dedicado a la clasificación de residuos plásticos
para su transformación.



Estación Circular
en Cabarete

¡Juntos por playas y mares sin plásticos!



Environmental education for the community, local government and the private sector to reduce garbage to the minimum possible. Creation of selective collection routes for recoverable waste and collection points. Installation of a Precious Plastic starter kit for HDPE recycling



What are we doing today? Zero Waste Puerto Plata city

Environmental education for the community, local government and the private sector. Creation of selective collection routes for recoverable waste and collection points. Installation of a Precious Plastic starter kit for PET recycling





What are we doing today? Zero Waste Maimón

Environmental education for the community, local government and the private sector. Creation of selective collection routes for recoverable waste and collection points.



Sensibilización Nuestra Huella Ecológica







FUNDACIÓN HÉROES DEL MEDIO AMBIENTE

Muchas gracias!

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