

Recommendations Against Natural Disasters

ONG ARCA
TIERRA
INTERNATIONAL

Founded since 2016

Registered in Chile since 2020



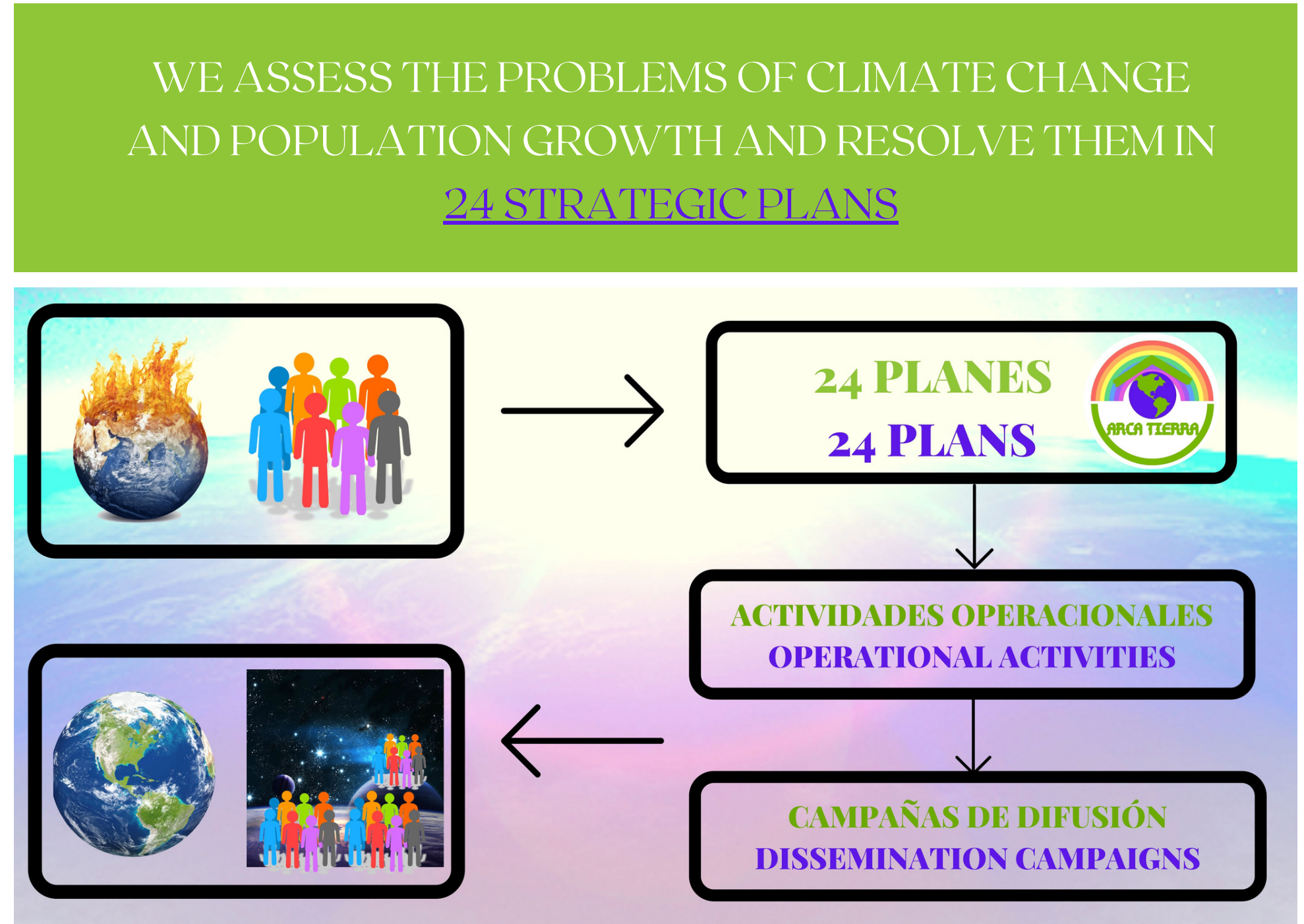
Recommendations to Organize and Coordinate in Natural Disasters

<https://ongarcatierra.wixsite.com/inicio>

About us

NGO ARCA TIERRA INTERNATIONAL

We are a non-profit Non-Governmental Organization, we are mainly dedicated to the provision of Open Innovation Intermediaries services, we promote the implementation of successful actions that contribute to the solution of climate change with quality of life through sustainable development and equality of Rights; and to improve them through our proposals for technological, administrative and legislative innovations, contemplated in our 24 Strategic Plans. As Open Innovation Intermediaries, we educate and advise for the development and use of effective actions proven in the world and of our innovative proposals, through education and advice, coordinating and integrating all sectors of the society of emerging democratic nations. [See more.](#)




ACTIVE PLAN ON WHICH WE ARE CURRENTLY WORKING

Plan 1 The Climate

Goals:

Develop technological, administrative and legislative innovations to lay the foundations for a sustainable civilization with equal human and environmental rights, technological and management tools to solve climate change, survive natural disasters, recover and conserve natural resources.

Patricia Rincón President and Operations
Coordinator



THE FIRST STEPS TO
SOLVE CLIMATE
CHANGE

ENVIRONMENTAL EDUCATION MAGAZINE OF THE NGO ARCA TIERRA

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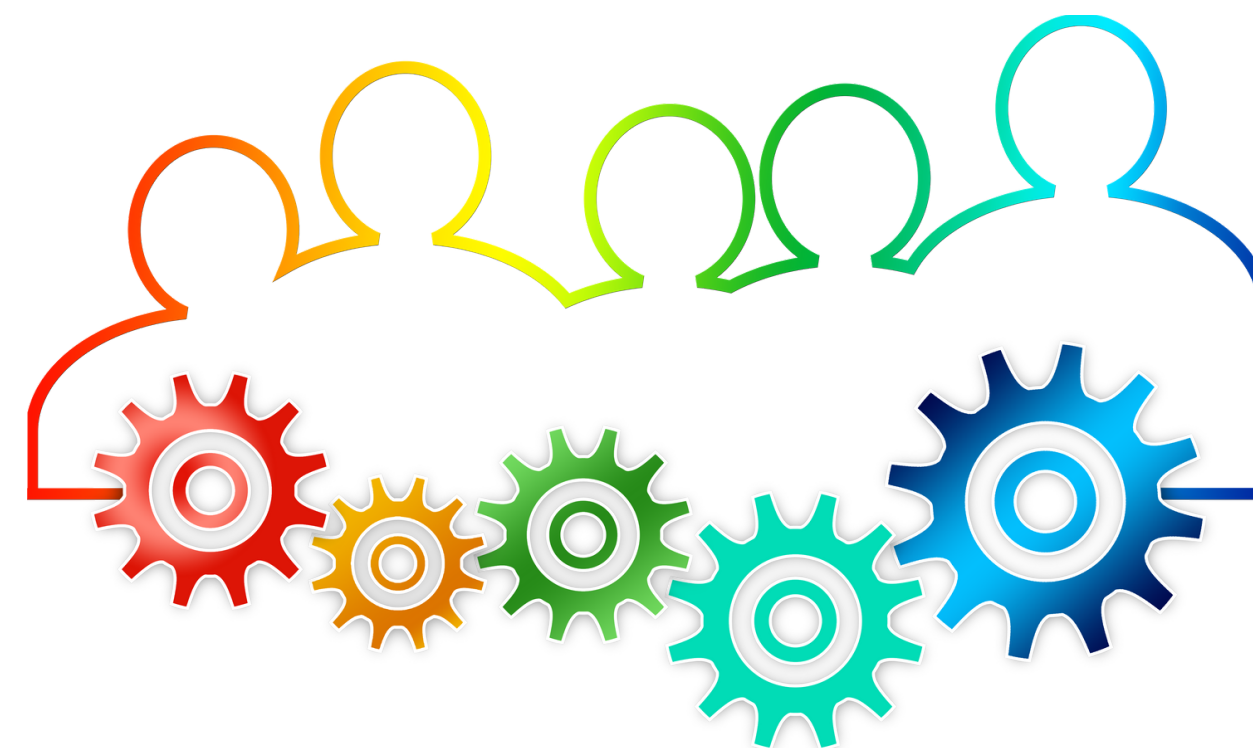
SEE MAGAZINE

WE INVITE YOU TO READ OUR
FREE DIGITAL MAGAZINE,
WHERE THE INNOVATIONS
PROPOSED BY THE NGO ARCA
TIERRA ARE EXPLAINED IN A
SUMMARY WAY
FROM PLAN 1 THE CLIMATE



These Recommendations are Based on Goal # 4 of Plan 1 The Climate

Goal 4: organizational model for the conservation of natural resources, a solution to climate change through the transition to sustainable carbon-neutral cities and effective action in the containment and recovery from natural disasters. See our free online course #_5 that explains how to get organized.



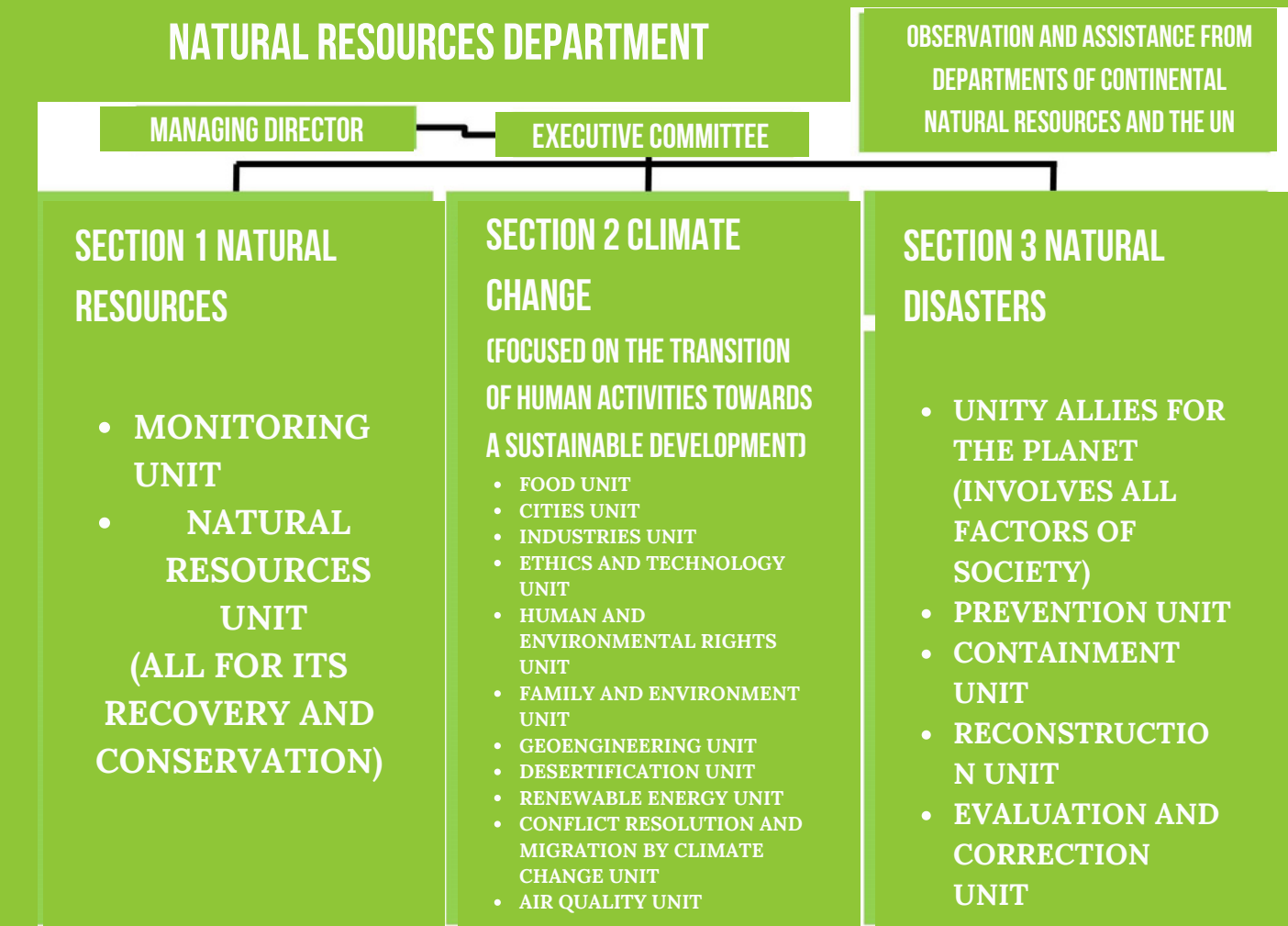
[See Textbook Models of Organization and Sustainable Cities. Download it for free.](#)



Organization and Coordination

The NGO Arca Tierra designed an organizational model that facilitates the integration of all governmental and non-governmental efforts, to all sectors of society for the conservation of natural resources, the solution of climate change, containment and reconstruction in the face of natural disasters.

The model is explained in our free [course #_5](#) and textbook [Models of Organization and Sustainable Cities](#).



[See Sustainable Cities Project](#)



The Need to Coordinate Against Natural Disasters

When natural disasters occur, most sectors of the country, as well as other nations and international organizations want to contribute with humanitarian assistance and reconstruction, because that is our true nature, we are souls of good will.

However, the lack of organization and coordination cause resources, time and contributions to be wasted, when in an emergency effective, fast and timely action is essential, which is possible, Japan has repeatedly shown us.

Likewise, as time passes, the catastrophe remains in the background due to other events and people dedicate themselves to their daily lives for their survival. Therefore, in the absence of organization, supervision and control of the quality of the implementation of reconstruction plans, they remain half or not done at all and the refugees continue to suffer the same problems until another disaster strikes.





Proposals of the NGO Arca Tierra

Organization to Guarantee Quality of Response

For these reasons, we recommend the use of our Natural Resources organization chart, which would be located in the quality bureau of the municipality, country, continent or the UN, to ensure continuous supervision, control and correction in the conservation and restoration of natural resources, sustainable development and action against natural disasters. That is, an organization capable of promoting and guaranteeing continuous improvement, of applying the Japanese Kaizen method.





Proposals of the NGO Arca Tierra

Committees to Act Against Natural Disasters

In view of the fact that many nations of the world are facing consequences of natural disasters, as a provisional measure in which they can create a Department of Natural Resources, we recommend the establishment of Committees to Act Against Natural Disasters, a National Committee and Regional Committees. Let's take Colombia for example, where different regions have been affected as a result of Hurricane Iota.

Each Committee would be made up of all sectors of society, led by the national government and its regional representative, because in a democracy, it represents the majority and they were elected for the service of the citizenry. This will direct, organize and coordinate all activities, both with national and regional organizations,

OBSERVATION AND ASSISTANCE FROM
DEPARTMENTS OF CONTINENTAL
NATURAL RESOURCES AND THE UN

MANAGING DIRECTOR

GOVERNMENT REPRESENTATIVE

EXECUTIVE COUNCIL

- MANAGING DIRECTOR
- NGO REPRESENTATIVE
- REPRESENTATIVE OF UNIVERSITIES
- RELIGION REPRESENTATIVE
- REPRESENTATIVE OF RESCUE ASSOCIATIONS
- BUSINESS AND INDUSTRY REPRESENTATIVE
- REPRESENTATIVE OF PROFESSIONAL UNIONS AND UNIONS
- MILITARY REPRESENTATIVE
- ARTISTS AND ATHLETES REPRESENTATIVE
- COMMUNITY REPRESENTATIVE
- REPRESENTATIVE OF THE COLLEGE OF JOURNALISTS
- ENVIRONMENTAL HEALTH REPRESENTATIVE



Proposals of the NGO Arca Tierra

Committees to Act Against Natural Disasters

As with international organizations, to obtain resources and technical assistance, since if they receive financing from funds for sustainable development, international organizations supervise that they comply with the execution schedule of the financed project.

OBSERVATION AND ASSISTANCE FROM
DEPARTMENTS OF CONTINENTAL
NATURAL RESOURCES AND THE UN

MANAGING DIRECTOR
GOVERNMENT REPRESENTATIVE

EXCECUTIVE COUNCIL



Proposals of the NGO Arca Tierra

Municipal Committee for Sustainable Development

**REPRESENTATIVES OF
INTERNATIONAL
ORGANIZATIONS OF THE UN,
EU, OAS ... SUPPORTING
SUSTAINABLE DEVELOPMENT**

**RELATED MINISTRIES OF THE
NATIONAL GOVERNMENT**



**MANAGING DIRECTOR
MUNICIPAL REPRESENTATIVE**

**REPRESENTATIVES OF: NGOs, Universities and Research Centers,
Private Sector Companies, Industries and Commerce, Trade Unions,
Trade Unions, Associations of Journalists, Artists, Religions, Civil
Society (Neighborhood Councils), Military, Family Unity, among
others that they consider pertinent.**



Proposal of the NGO Arca Tierra

Committees to Act Against Natural Disasters

Each Committee would be made up of a representative of the company. Let us take for example a National Committee, the Representative of the Universities, the National Representative of the Universities, would coordinate and organize with the universities of the country and with the regional representations of the Universities.

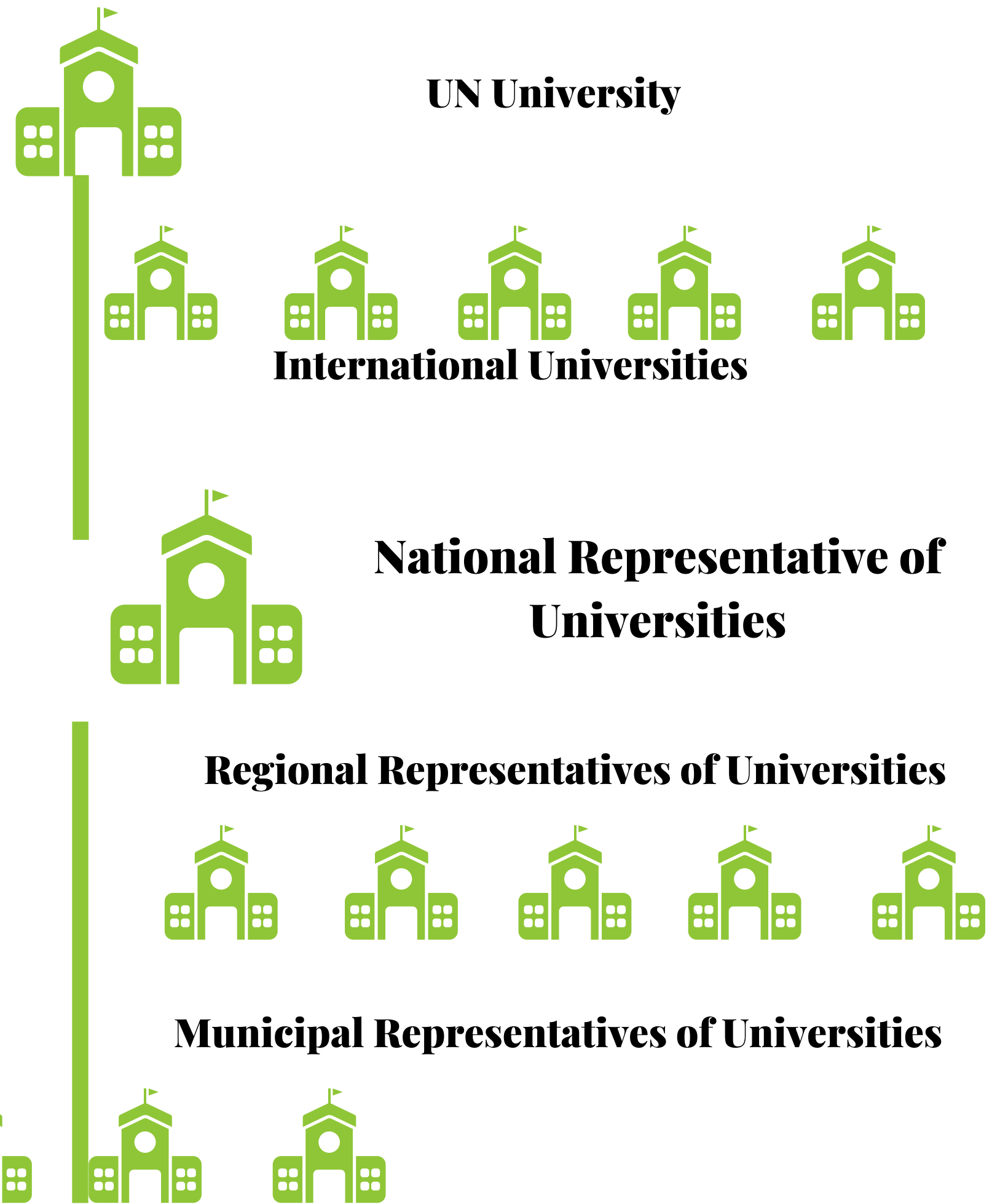
EXCECUTIVE COUNCIL

- MANAGING DIRECTOR
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- ENVIRONMENTAL HEALTH REPRESENTATIVE



Committees to Act Against Natural Disasters

In turn, the Representative of the Universities would coordinate with international Universities and the UN University, which has full university independence. She works closely with the UN Secretariat, UNESCO and other organizations of the United Nations system, and through her links with the international university community are strengthened. The main purpose of the Universities is to generate solutions and apply them, due to their great capacity for research and knowledge management, they will be able to establish agreements through the Committee, for their implementation with other factors of society, such as unions, private sector, ministry of infrastructure, military ...





Organization and Coordination

**Periodistas
Journalists**



All sectors are important, so that the organization can function efficiently, however, I would like to highlight the participation of journalists. Although it is true that a country has control systems, journalists will open channels of information and monitoring of all stages of the recovery plan to keep the recovery of the affected regions on the daily news and these will not be forgotten. They will report both irregular situations, such as deviation, delay in meeting objectives so that failures are immediately corrected, as well as show the successes of the plan, to keep the population involved taking responsibility until the plan is fully implemented.





Organization and Coordination

Civil society / Sociedad Civil



Regarding the Representative of civil society, consideration should be given to electing the representatives of the affected communities, since they will be a fundamental part in the achievement of the activities to be carried out, throughout the evaluation, planning, action, operation and maintenance process.





Proposal of the NGO Arca Tierra

Committees to Act Against Natural Disasters

The Committee will work in an organized and coordinated manner to: Evaluate, Plan, Act, Verify and Correct in the different stages of the natural disaster recovery process.

- Humanitarian Assistance
- Containment
- Ecosystem Reconstruction and Recovery.

Proposal of the NGO Arca Tierra



Humanitarian Assistance

Humanitarian assistance must be immediate, medical assistance and provide people to meet their basic needs, they mainly lack water, non-perishable food that does not need water or preparation, clothing, kitchen utensils and personal hygiene and of shelters. Nations should be prepared for these eventualities according to their risk and forecast atlas. In case they are not prepared, they should go to international organizations for support, generally the religions, firefighters and the military are the best prepared to provide immediate assistance.

Emergency Hospitals



Turin, Italy. Maritime containers adapted as temporary hospitals, equipped with solar panels and water purification systems, would be useful due to their resistance and low cost.



Non-Perishable Food, Water and Essential Utensils.

Temporary Shelters



CMAX SYSTEM economical, spacious shelters, made of resistant material and easy to assemble are the shelters of the award-winning Argentine designer Nicolás García

Proposal of the NGO Arca Tierra

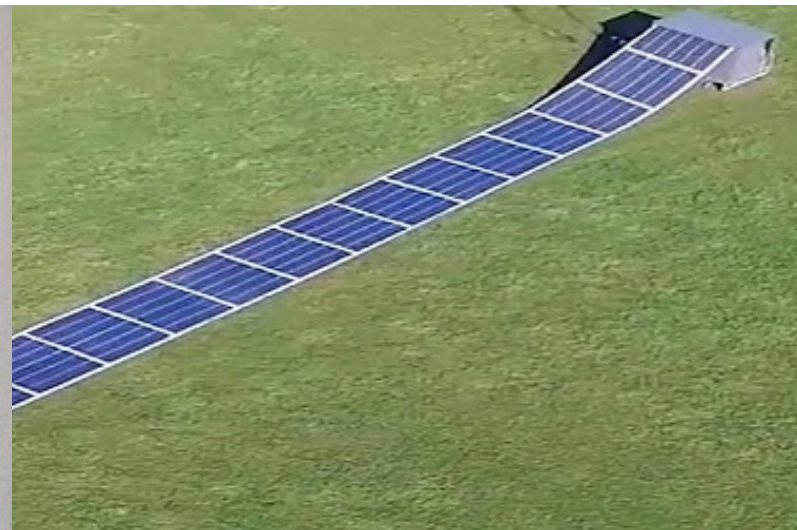


Containment

In containment, it would be improved humanitarian assistance, with the results of evaluations of the number of victims, damaged homes and infrastructures, affected basic services, knowing the needs of the communities ... The provision of temporary basic services may be improved.

Solar Kitchens, Clay Ovens

Portable solar power generators, desalinizers and water filters,
obtaining water from air humidity



Proposal of the NGO Arca Tierra



Containment

It will be possible to contain the damage and not only provide assistance to the refugees, but also involve them in the recovery of at least their homes



Advantages of Super Adobe
It is built quickly.
It does not require too much manpower.
You don't need specific training to build your house, you just need to know what shape you want it to have.
It is very cheap to build green with the superadobe.
It is resistant to hurricanes, tsunamis and earthquakes.
It is a perfect insulator, since it allows you to keep cold and heat.
Isolates from noise.
It has unmatched stability.
It does not use expensive materials.
It does not produce waste.
Increases the energy efficiency of the home.
You can design it to your liking, quickly and efficiently, even as the walls are raised.



El diseño de esta casa ha sido desarrollado por el colombiano Jose Andrés Vallejo, en él explora el potencial del superadobe como tecnología constructiva sismoresistente. El superadobe se vale de tres elementos: tierra-cemento, sacos tubulares y alambre de púas.

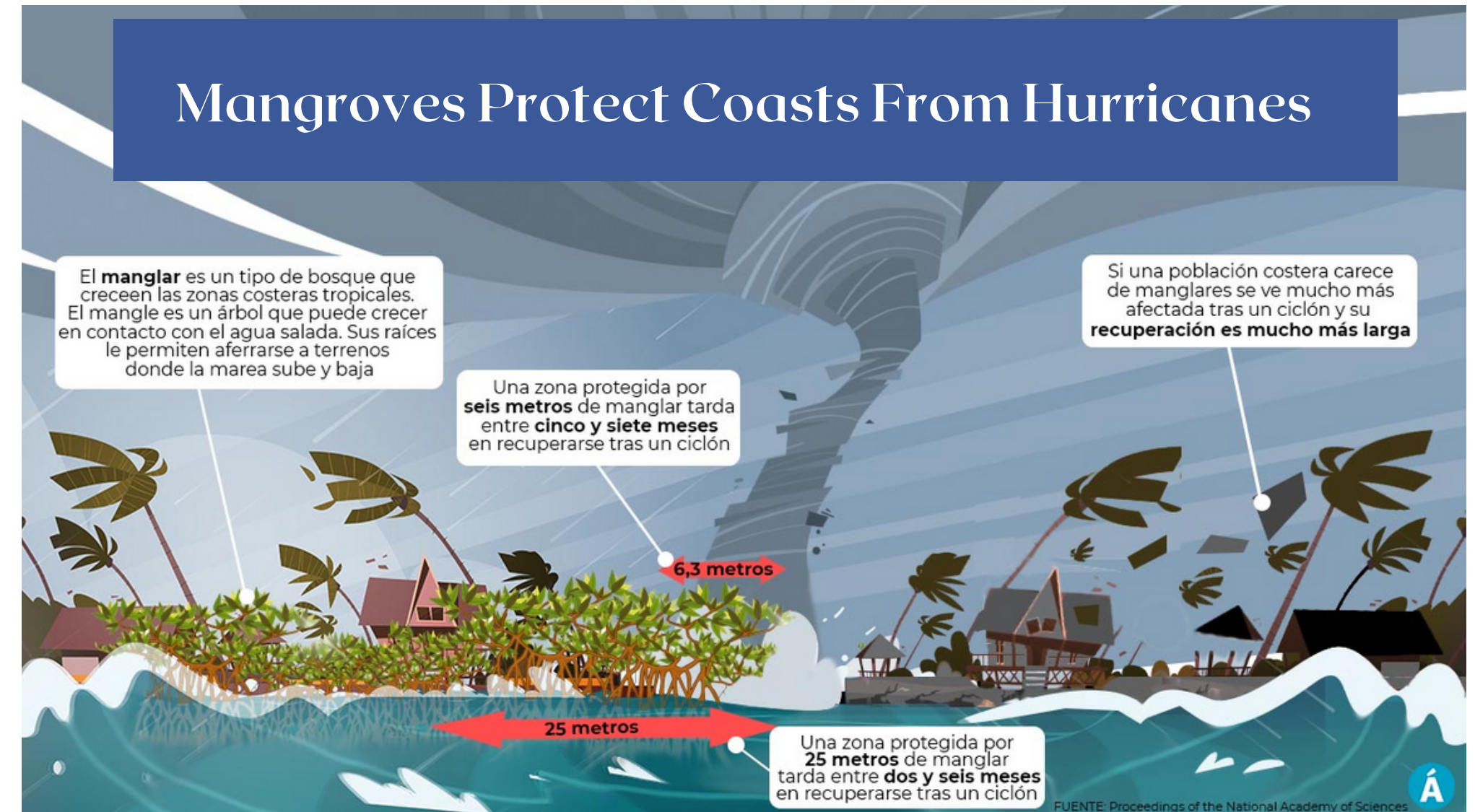


Proposal of the NGO Arca Tierra



Containment

and to offer them jobs for the recovery of the affected flora and fauna, to save the species that have been affected, especially mangroves for the protection of coasts and animal shelters.



We invite you to watch the video classes of Course # 4 [SEE IT](#)

Proposal of the NGO Arca Tierra



Reconstruction

The reconstruction will be planned based on the evaluation and projection of the desired results towards a sustainable development in guaranteeing human and environmental rights, that is, determining the number of schools, hospitals, water management systems, resistant greenhouses for planting and processing of food, cultural and sports entertainment, viable economic activities to be developed in the region, to guarantee the right to work, Urban planning according to demographic growth and migratory movements, as well as the construction of a central refuge for the continuous storage of disaster reserves. The constructions must be aimed at reducing vulnerability to natural disasters according to their risk atlas. In the evaluation it is important to consider the available rubble, bioclimatic materials and construction, the structures that withstood the natural disaster, to determine the reason and the way to improve it. For example, drones equipped with terrestrial sensors called LIDAR were used to study why the Chinese wall has resisted hundreds of years and they discovered that it was because they used sticky rice and limestone lime to hold the bricks together, so ancient techniques and the Current technology could be applied to the infrastructures that resisted in order to strengthen them or innovate designs adjusted to the culture of the region,

Evaluaciones



**Para Hacer
Recomendaciones**

PROGRAMAS



Y PROYECTOS

Reconstruction Presentation [See](#)

Proposal of the NGO Arca Tierra



Reconstruction

On our website, we make a presentation of how to rebuild meeting these objectives, in Recommendations to Rebuild After Hurricanes, with designs and techniques for rapid construction of homes, buildings and infrastructure resistant to hurricanes, floods, earthquakes, forest fires and how to build cities sustainable [See](#)



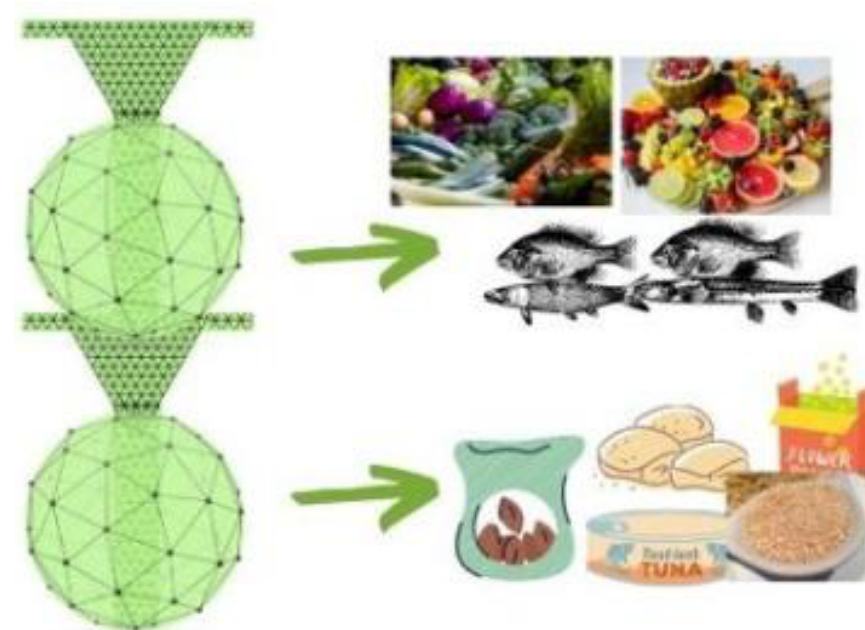
[See Sustainable Cities Project](#)



Ecosystem Reconstruction and Recovery

In reconstruction, techniques and actions must be improved to improve nutrition and to recover ecosystems. The NGO Arca Tierra proposes Vertical Gardens resistant to natural disasters for food production, with a production of 10 times more in proportion to the land and each plant will produce 60% more, through lighting and music systems. This can also be used to recover eroded and desertified soils and reforest areas affected by the natural disaster.

Vertical Garden to produce food with aquaponics and process it, to achieve zero hunger. Or to produce plants and flowers to save ecosystems and eroded or desertified soils





Obtaining Funds for the Implementation of These Solutions

There are different funds that nations can access for sustainable development and to comply with the Treaty of Paris to reduce greenhouse gas emissions, given that the previous proposals, to rebuild the region affected by a natural disaster, Just like the Island of San Andrés, it is through buildings and infrastructures that reduce greenhouse gas emissions and are aimed at achieving sustainable development, Colombia or another affected country will be able to access these funds, among which Climate Action stands out. of the European Union, Special Fund for Climate Change (FECC), GEF Environment Fund, Least Developed Countries Fund (FPMA), Green Climate Fund (GCF), Adaptation Fund (FA), Fund Special Development Fund (SDF) They support the reduction of risk to natural disasters and climate change, Blue Moon Fund, Infrastructure Fund (Infrafund), Clean Technology Fund (CTF) (part of the Climate Investment Funds) promote a larger scale of financing for the demonstration, deployment and transfer of low-carbon technologies with significant potential for long-term savings of greenhouse gases, Nordic Development Fund, Prototype Fund Carbon Fund (PCF), Biocarbon Fund, Community Development Carbon Fund (CDCF), Italian Carbon Fund, Dutch CDM Fund (NMDLF), Danish Carbon Fund (DCF), and so could continue listing funds to those that Colombia could access to finance the development and use of these solutions. In addition to funds, they can also go to foundations, in the case of reforestation of mangrove forests and creation of natural anticyclone barriers through mangroves, to SEACOLOGY, WETLANDS INTERNATIONAL and to the United Nations program of BLUE CARBON.





Intermediaries of Open Innovation



**Education, Consulting,
Evaluation, Program
Development, Projects and
Coordination**

The NGO Arca Tierra offers education and advice to emerging democratic nations to recover from natural disasters through solutions and innovations that will guide them towards sustainable development, we are at your service, to the extent of our ability to go to the places or from the distance they can count on us.

We hope that these recommendations are useful to you, if you want more information about our non-profit services, Open Innovation Intermediaries [visit our website](#)



Online Courses



Bookstore

With Programs



and Projects



**WE GUIDE
YOU**

SUPPORT THE NGO ARCA TIERRA TO BE ABLE TO CONTINUE WITH OUR WORK

Our mission is to solve climate change with the quality of human life, through sustainable development and equal rights, through evaluation and strategic planning.

[Support us!](#)



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Contact US

Environmental NGO

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ONG Ambientalista

Internacional

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