

TEXTBOOK: COURSE # 6

EVOLUTION

MANAGEMENT POLICIES FOR SUSTAINABLE DEVELOPMENT

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**LAW FOR THE
CONSOLIDATION
OF HUMAN AND
ENVIRONMENTAL
RIGHTS**

**LAW FOR AIR
QUALITY AND A
SUSTAINABLE
ECONOMY**

**LAW FOR THE
TRANSITION OF THE
HYDROCARBON
INDUSTRIES
TOWARDS
SUSTAINABILITY**

**LAW FOR THE
PROTECTION OF THE
ENVIRONMENT**

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NGO Arca Tierra Editorial

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Introduction

This textbook teaches you the management policies proposed by the NGO Arca Tierra that will allow us to evolve as a species towards respect for democracy, the cornerstone of rights, so that our human and environmental rights are fully respected; the implementation of awards and penalties for CO₂ emissions to effectively achieve their reduction through the promotion of a sustainable economy and the award for the conservation of key natural resources to mitigate and solve climate change; a legislation that will make the oil, coal and its derivatives industries become producers of sustainable materials and so that through their pumping experience, they help the absorption of excess CO₂ from the atmosphere and oceans, while they produce renewable energies, among other sustainable economic activities, for which they will receive advice; and it teaches how to conclude a treaty for the conservation of the environment that guarantees the respiration of present and future generations until at least 2,050.

Section 1

Why do we need Management Policies?

Description: In this section we will define the importance of establishing management policies to evolve as a species oriented towards survival and towards our expansion with high standards of quality of life with sustainable development, in harmony with nature, to conserve the planet and consolidate human and environmental rights through continuous quality improvement and participatory democracies.

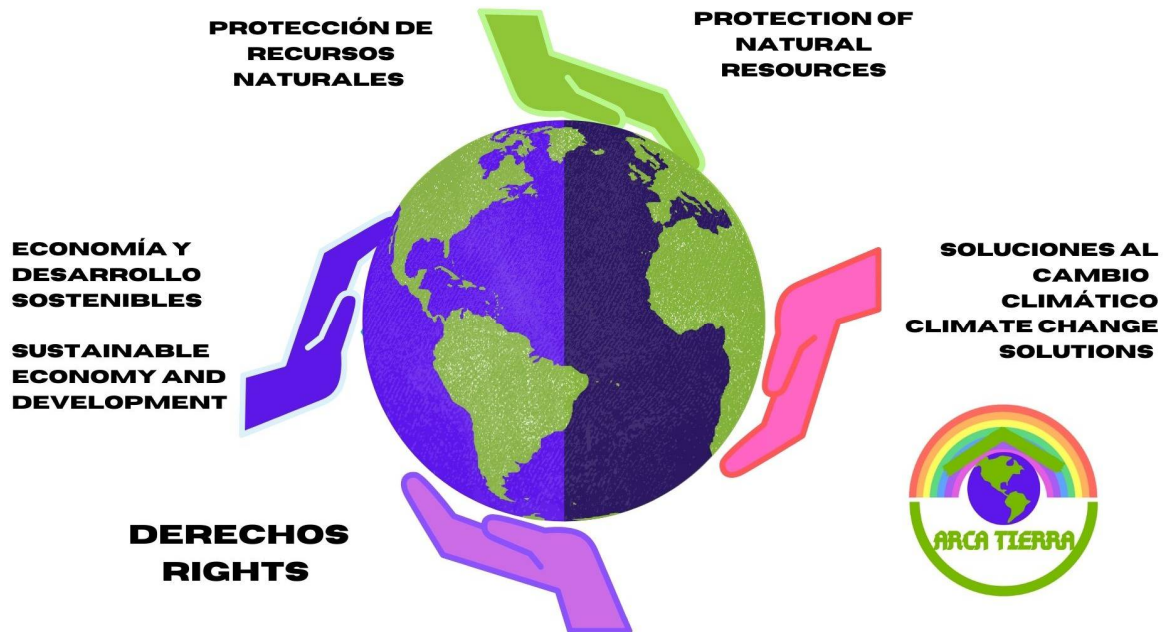


Class 1 Importance of Evolutionary Management Policies for Humanity

Description: Just by taking a look at the current situation of humanity and the planet, you will realize that we need to improve our management in relation to the following aspects:

- Human and Environmental Rights
- Sustainable Human Activities
- Sustainable economy
- Improved Air Quality
- Recovery and Conservation of the Environment.

Human and environmental rights are mentioned in the first place, because without them humanity will be in constant risk of succumbing and destroying the planet even more than we have destroyed it, which makes our safe expansion and the achievement of subsequent ones impossible. aspects, that if they are carried out will impact on the solution to global warming, because even if we disappear from the face of the Earth or the world population is reduced, life on our planet as we know it now, will still be at risk of disappearing due to high levels of atmospheric, oceanic and terrestrial pollution.



Therefore, the NGO Arca Tierra proposes management policies to improve all the aspects mentioned above that will allow humanity to evolve towards survival and expansion with high standards of quality of life through sustainable development, in harmony with nature, to conserve the planet and consolidate the consolidation of human and environmental rights through continuous quality improvement and participatory democracies. These management policies are:

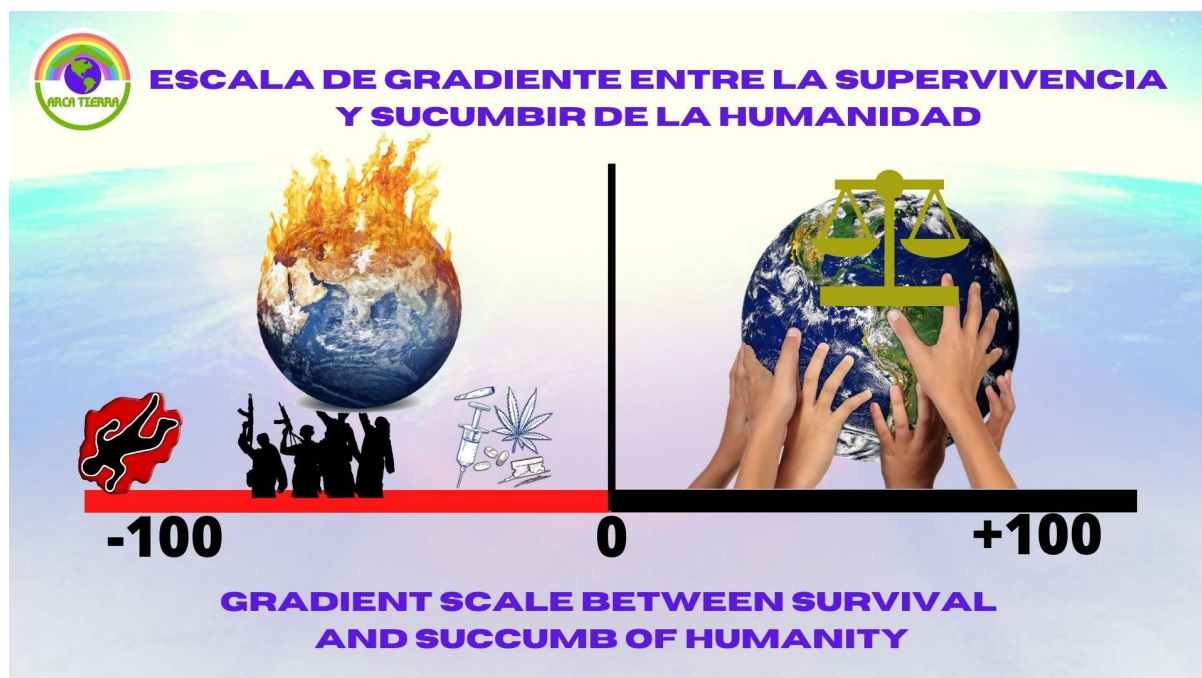
- **Law Gradient Scale of Humanity between Survive and Sucumb:** aimed at the consolidation of human and environmental rights.
- **Law on the System of Awards and Sanctions for Air Quality:** this management policy will effectively contribute to making human activities sustainable, with the promotion of a sustainable economy, which will have an impact on the improvement of air quality, on the recovery and conservation of the environment.
- **Legislation for the Transition towards a Carbon Neutral and Sustainable Civilization:** although the previous management policy is aimed at achieving sustainability and conservation of natural resources, there is something that would resist change. For many decades humanity has based its activities around the exploitation and use of hydrocarbons and their derivatives, we all carry out activities that use them, if we closed all oil industries overnight, all our activities and humanity would collapse. I would succumb to hunger in the dark. And if the transition of our activities towards sustainability is not made, humanity and the planet would also succumb, so it is necessary to establish in prudential stages and by law the transition that allows the full transition of human activities towards sustainability.

- **World Environmental Protection Treaty:** despite the fact that the previous policies would protect the environment, we need to know for sure what natural resources we need to recover and conserve, how many and where we need to protect permanently to establish how to guarantee the respiration of the present and future generations until at least 2,050.

Section 2

Law Gradient Scale of Humanity between Surviving and Succumbing

Description: We will establish what the Law of the Gradient Scale of Humanity between Survive and Sucumb would consist of and how it would work, how it would be implemented in continental organizations and in the United Nations, to consolidate through continuous improvement and participatory democracies the consolidation of human and environmental rights. And how to ensure that all the nations of the world evolve towards democracies adjusted to their culture so that all humanity survives with high standards of quality of life with sustainable development and with equal opportunities to exercise human and environmental rights.



Class 2 What is the Law of the Gradient Scale of Humanity between Surviving and Succumbing

Description: You will know the point system to determine the position of nations in relation to respect for democracy, human and environmental rights, on a gradient scale of values that will assign prizes and sanctions according to position, this scale will sanction the actions that entail humanity to succumb and will reward those that drive us to survive and continually improve our quality of life, thus increasing our chances of survival.

be those that do not have democracy, the cornerstone of all Human rights, by vetoing their citizens of their right to choose in transparent elections, these nations lose their right to vote in the consensuses and congresses of the continental organization or the United Nations where they participate and to be members of the security councils. and human rights of the continental organization to which they belong and of the UN. Democratic nations above zero will have the right to vote in consensuses and congresses, the weight of their votes will be determined by their position in the continental or world ranking as the case may be, for example, if a nation has a score of +70 points, your vote would be worth 7x, and you can participate in the security and human rights councils. This will promote a competition between nations for the continuous improvement of human and environmental rights and in helping to improve the chances of survival of humanity, to have greater power and would no longer be a competition for having more weapons or buying influence to dominate The United Nations.

Class 3 What Will the Gradient Scale of Humanity Measure Between Surviving and Succumbing?

Description: the way to evaluate each nation will be described to assign realistic scores in relation to its position on the gradient scale, that is, to its position with respect to respect for rights and the environment.



Country layer would obtain a score according to a comprehensive and reliable annual evaluation, which would determine its position on the gradient scale, between -100 and +100 to accurately show the degree of respect or violation of human and environmental rights and treaties that they make the difference between surviving and succumbing to humanity. Human rights are written in the Universal Declaration of Human Rights, for environmental rights there is the Declaration of Rio de Janeiro, on Environment and Development, adopted at the United Nations Conference in 1992, it contains 27 general principles on the environment and development, the scale should at least measure the right to water and means of food production adapted to the climate reality.

Specifically, the following will be evaluated and measured:

- **Respect for Democracy:** the efficient evaluation of respect for democracy is crucial, because it will determine the country's position above 0 on the scale, which will give it the right to vote in the United Nations and to belong to the councils of security and human rights. Therefore, respect for its main fundamentals, such as the separation of powers, the rule of law and the holding of transparent elections, must be carefully evaluated. Determining whether these fundamentals are respected must be thorough, not just asking, are elections being held? And if it is yes, qualify it as democratic, that would not be a reliable assessment, dictatorial countries hold elections, even more so than a democratic nation, as in the case of Venezuela, where the Chavista Regime, advised by the Castro regime of Cuba, copied the recipe Hitler used to destroy

democracy in Germany (Learn more about this in our magazine [How to Protect Democracies of the 21st Century](#)), They use the democratic tool of elections to perpetuate themselves in power as a pseudo democracy and commit crimes against humanity with impunity with the approval of the international community. The computer company in charge of administering the electoral system in Venezuela, denounced that the Chavista regime had only won the presidency once, subsequently they were perpetuated for more than 20 years in power with various traps in the electoral system. Therefore, it is very important when evaluating a democracy to consider whether democratic elections are actually held, that is, transparent ones.

In addition to ensuring the transparency of the elections, it must be ensured that there is no foreign interference in the results, for example, in the case of the 2016 and 2020 presidential elections in the United States, according to complaints in both elections there was foreign interference from countries Communists, in 2016 by Russia and in 2020 by China, through illicit financing, insertion of false ballots and hackers, to have the dominance of the White House. In other words, foreign interference by dictatorial regimes in democratic nations must be detected and sanctioned with justice so that they do not place puppets in democratic nations and that they obey their dictates to destroy the free world through their influence in the United Nations. Faced with electoral fraud, truth and justice must be applied, otherwise this will affect its position on the scale, because, what use would the gradient scale be if dictatorial regimes continue to move their strings to destabilize democracies or influence decisions of the United Nations security and human rights councils? For this reason, if it is detected that in the democratic elections or in the management of a supposedly democratic country, there is corruption or other means of foreign interference by dictatorial regimes, the evaluated country will be placed below zero, since a puppet that the president elected follows orders from dictators, he will not be able to belong to the councils that ensure security and respect for human rights in the United Nations.

Another important action that must be evaluated when considering whether democracy is respected is that the direction of a country must be oriented to serve its citizens and not to partisan or company interests, to avoid this interference in governments, Nations must demonstrate the laws and comptrollership that prevent governments from being manipulated for personal interests, because otherwise the will of citizens would also be disrespected, which means there is no democracy. The NGO Arca Tierra recommends to avoid that democratic governments are at the service of economic interests alien to the well-being of their citizens, is that electoral campaigns be financed by the states, in an equitable way towards all candidates and private financing is prohibited, they would have a stipulated budget and candidates must have at least a certain percentage of support, so that a certain number of candidates with gender equality enter the list, who must issue a clear government plan at the service of citizens, These government plans would be widely disseminated by the state and it would be ensured that citizens know about them so that they can make a correct selection; Once a certain candidate wins the presidency, a citizen and state comptroller will be made to comply with its government plan at the service of citizens, the state would sanction any campaign of discrediting, defamation or misrepresentation of the truth to destroy the reputation of a candidate, because what mainly discourages citizens from voting are dirty campaigns and knowing that nothing or little will be done in the service of the citizenry, In addition to the little public education about what they will choose, these recommendations will contribute to participatory, transparent and responsible elections without populism. The importance

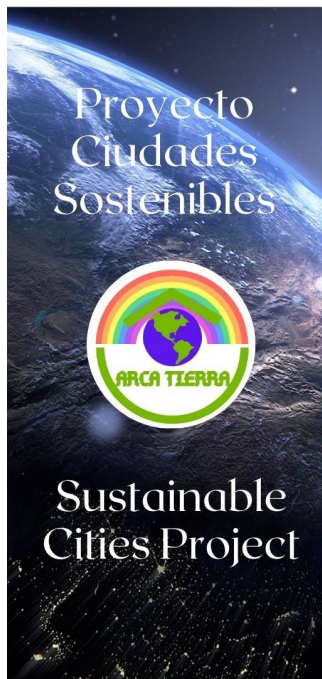
of ensuring that a government is at the service of the citizenry so that it is considered a democracy, we will see in a clear example that we also find in the United States, the Trump campaign in 2016 according to complaints was financed mainly by Russia and the oil industries, as anyone knows that some oil companies are the ones that finance the ridiculous campaigns that try to hide the problem of climate change, once he was appointed president he denied the problem of global warming and withdrew from the treaty to reduce CO2 emissions from Paris, despite the detriment of air quality and reduction of the life expectancy of its citizens and the planet.

By conscientiously determining that the nation is democratic, it would rank above zero and gain positive points if the democratic government demonstrates that it is at the service of its citizens by improving their quality of life through its management, by measuring the corresponding statistical indicators of respect. human and environmental rights, which should also measure air quality and water availability.

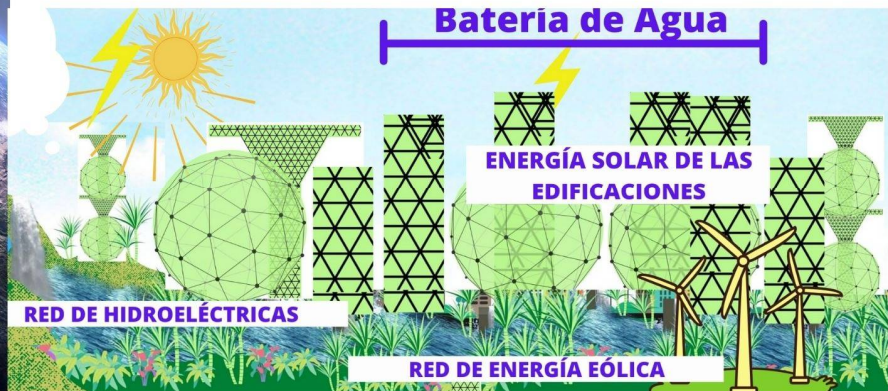
- **Respect for Human and Environmental Rights:** respect for human rights contemplated in the Universal Declaration must be exhaustively evaluated, ensuring that there is no discrimination based on race, creed, nationality, gender or sexual orientation to qualify the nation. As well as, environmental rights must be evaluated, mainly air quality and the availability of drinking water. We will delve into this using the example of water, according to the United Nations the main cause of water scarcity is due to the mismanagement of water resources, so, first of all, the situation of this problem must be evaluated, in order to be able to suggest and finance projects to nations to ensure the availability of water for their citizens and economic activities, mainly for food production. This assistance should initially consist of helping to solve the problem and supervise the management of water resources, that is, the transparent and competent execution of the projects financed for the disposal of water, through the management of three main factors : efficient rainwater collection systems to avoid waste and flooding, wastewater treatment to avoid contamination of water sources and soil, and management of water dynamics to avoid scarcity and flooding (See our exhibition at the [8th International Water Congress](#) to see how to achieve efficient management of water resources). If it is found that this resource is intentionally limited, points will be subtracted, generally the water is limited to generate business with the sale of water through tanker trucks or for the control or extermination of towns; They must also demand that they stop water pollution and prohibit the poisoning of water sources. If, despite the financing of projects, water resources continue to be contaminated or access to drinking water is intentionally limited, for the extermination of populations, in addition to subtracting points, the United Nations must apply justice and severe sanctions in this regard, because a person without ingesting water dies within 2 or 7 days. In the event that the nation that intentionally limits access to water is dictatorial, in addition to subtracting points and applying sanctions, the United Nations must ensure shelters, run by refugees, where the supply of water and the production of water are guaranteed. food. (See our shelter models, in our [Sustainable Cities Project](#)).

The NGO Arca Tierra has a proposal for the efficient management of water resources without contamination, to generate abundant water, under any climatic condition, which avoids floods and droughts, which in turn generates, stores and distributes clean energy, which we discussed in At the 8th International Water Congress, this proposal

can be seen in the presentation made and in [course # 3 Systems to Purify Air and Water from Cities, Atmosphere and Oceans.](#)



BATERÍA DE AGUA PARA LA EFICIENTE GESTIÓN DE RECURSOS HIDRICOS



WATER BATTERY FOR EFFICIENT MANAGEMENT OF WATER RESOURCES

Similarly, the NGO Arca Tierra has a model for the construction of shelters, called [Globe City](#), equipped with vertical greenhouses and with the efficient management of water resources, respect for the rights to food and access to water will be facilitated. to the refugees, integrating them to the solution of their problems, in the construction, operation and administration of the refuge in a democratic system. This model is explained in the aforementioned course # 3 and in [course # 5 Organization and Models of Cities for Sustainable Development.](#)

A diagram showing two interconnected globe-like structures. Below them, two arrows point to different food production models. The top arrow points to "ACUAPONIA", showing a vertical greenhouse structure, a variety of vegetables, and fish. The bottom arrow points to a collection of food items including potatoes, beans, a bag of flour, and a can of tuna.

MODELOS DE REFUGIOS DE LA ONG ARCA TIERRA
MODELS OF SHELTERS OF THE NGO ARCA TIERRA

Proyecto Ciudades Sostenibles

[See our Article on our Blog about Shelters](#)

- Respect for International Treaties for the Protection of the Planet: its action will be evaluated in relation to the recovery and conservation of natural resources, its fight against climate change, its action at the national level and its international cooperation in the face of natural disasters. Considering the crucial treaties for the protection of the planet, it will be taken into account if they are signed, this will add points, but compliance or non-compliance with said treaties will also be evaluated, which will add or subtract points. Here we can mention the Treaty of Paris, in addition to evaluating its compliance to assign a score, its situation will be considered to advise them on how to achieve the quotas or goals for reducing CO2 emissions.

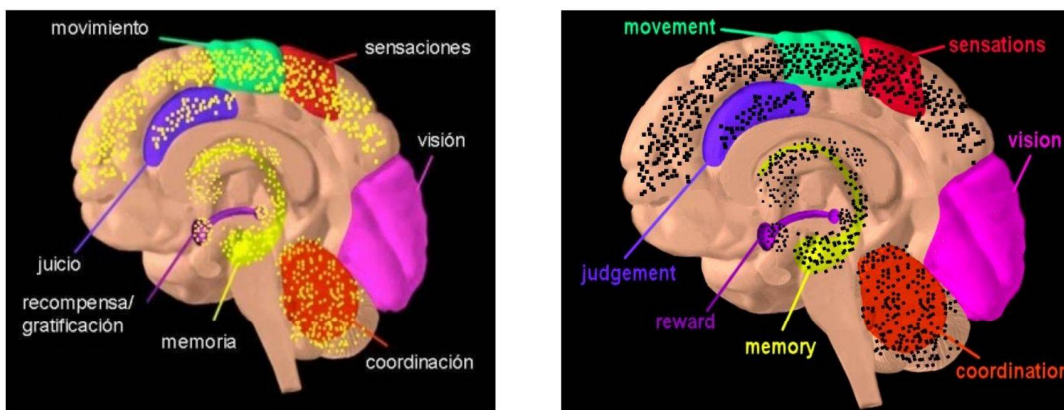
The NGO Arca Tierra has an organizational model that will facilitate the development and conciliation of treaties for the conservation of natural resources, the execution of joint plans for the solution of climate change and cooperation for the containment of natural disasters, which is explained in our [course # 5 Organization and Models of Cities for Sustainable Development](#).

- Respect for the Treaties that Make the Difference between Surviving and Succumbing for the Human Species: such as the Treaty on the Non-Proliferation of Nuclear Weapons, Treaties to Combat Terrorism and Drug Trafficking, Treaties against Money Laundering, human trafficking,..... We know the risks that nuclear bombs and terrorism represent for humanity, it goes without saying the catastrophic consequences of non-compliance with the Treaty on the Non-Proliferation of Nuclear Weapons and when criminal states support terrorism, such as Venezuela and Iran that support all genocidal regimes and Hezbollah. In these cases, only justice and sanctions would apply, to limit the access of these nations to any weapon of war and raw materials for their production and to sanction those nations that provide support, even if they commit genocide or violate other treaties in their territory. for the preservation of human life, for example, the Rome Statutes, among others, the duty to intercede, Humanitarian Interference, among other justice mechanisms must be applied to protect human life, in the modern world the death figures, persecution and political prisoners cannot be hidden, therefore, their impunity is inadmissible.

Drug trafficking is also a risk for present and future generations, it not only generates crimes and homicides, it also destroys economies through money laundering and, what is worse, destroys the minds of young people, studies carried out by Great Britain, the The European Union, the United States, Chile, among others, demonstrated that the consumption of marijuana since adolescence reduces the IQ, as the period of its consumption increases, the IQ is reduced, that is, it creates generations of idiots. In Venezuela we lost generations due to the holodomor caused by the Venezuelan and Cuban narco-terrorist criminal states, a large number of children with poor nutrition did not develop the brain or the nervous system, if they illuminated their heads they would be practically hollow, from this I found out when providing humanitarian assistance with other foundations where doctors were found, of course, humanitarian assistance had to be done clandestinely, since those who try to save lives in Venezuela are arrested or they steal or burn supplies, to prevent them from being save lives in an extermination with holodomor, epidemics, destruction of the health system and shortage of medicines, to keep the country kidnapped and steal all its resources. One of these foundations is especially dedicated to the nutrition of children and they were the ones who confirmed to me that in addition to the fact that all our resources had been stolen, they had also stolen our children, several generations, with generations of idiots, because nobody

dared to apply justice and the extermination continues with impunity. We invite you to read a review of crimes against humanity committed in Venezuela and the narco-terrorism network, promoted by the criminal states of Cuba and Venezuela, which are destroying democracies in America, in an illustrated magazine, where in addition to publicizing the problems are recommended solutions through truth and justice. (See magazine [How to Protect Democracies of the XXI Century](#)).

Now, the legalization of marijuana is another way to create generations of idiots, many democratic nations promote the legalization of marijuana, because they believe that it is the solution to drug trafficking. The scourge of drug trafficking is not solved with its legalization, because it means legalizing the consumption of poison with many adverse effects, this does not compare with the legalization of alcohol and its countless victims of alcoholism, although the media sanctify marijuana, it cannot be ignored that it is more addictive than alcohol and its consumption increases the need to consume heavier drugs, according to the American Academy of Pediatrics (AAP) in its updated policy statement, "The Impact of Marijuana Policies on youth", exposes different consequences of its consumption to advise against legalizing it, in short, it diminishes the capacities of our young people, in medical terms, they permanently damage memory, learning and intelligence, if we allow our young people to be stupid Who will realize the solutions to climate change today and tomorrow?



DIVERSOS ESTUDIOS A NIVEL MUNDIAL DEMUESTRAN QUE LA MARIHUANA PRODUCE DAÑOS CEREBRALES QUE AFECTAN LA MEMORIA, EL APRENDIZAJE, LA MOTIVACIÓN Y EL ÁNIMO, ENTRE MUCHOS OTROS EFECTOS ADVERSOS.

VARIOUS STUDIES WORLDWIDE SHOW THAT MARIJUANA PRODUCES BRAIN DAMAGE THAT AFFECTS MEMORY, LEARNING, MOTIVATION AND MOOD, AMONG MANY OTHER ADVERSE EFFECTS.

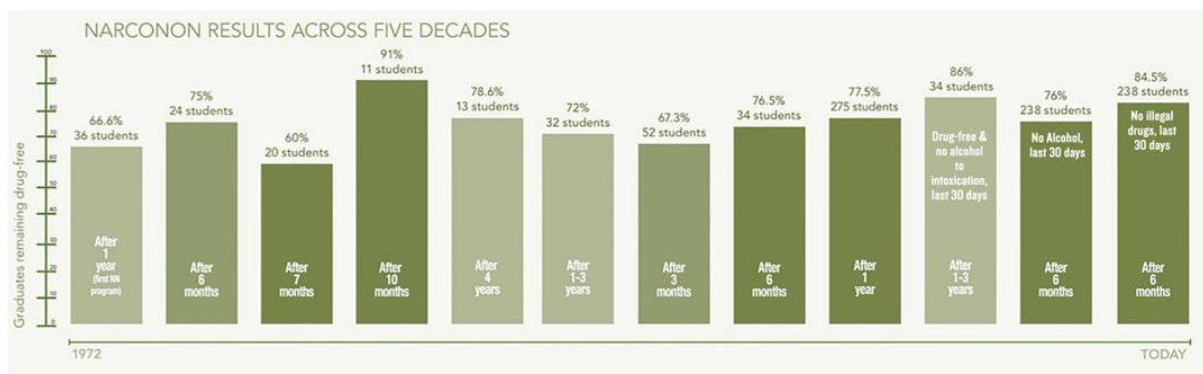
According to the Truth About Drugs foundation, young people consume them for these reasons: to fit in with the environment, evade reality or relax, to dispel boredom, to look older, to rebel and to experiment ". If they are legalized, those who want to fit into the environment will be younger, consuming them. If young people use drugs to try to avoid their problems and concerns, or are bored without education, without entertainment, without work, a large part of the budget for the fight against drugs should be dedicated to prevention, with different actions mentioned following.

Drug Prevention and Rehabilitation Campaigns

- **Education of the Harmful Effects of Drugs**, from children, because unfortunately they begin to consume them from a very early age and in most films they only show how fun it is to consume drugs without showing their true effects, nowadays the cinema does a lot propaganda to drugs, as if drug traffickers were the producers, therefore, by law it must be established that if propaganda for drug use is made, they must be required to show on screen and with educational material the adverse effects of drugs that They promote, as well as a law is applied to tobacco, in this case, to demand vital information to save the minds and lives of children and young people. This information should also reach adults, mainly representatives, in Chile, where the use of marijuana for medicinal use was legalized, I have observed with horror in the streets how parents give their children to smoke marijuana, as a family activity, since the false idea that marijuana is very good for health spread and its consumption has spread alarmingly.

- **Education, Entertainment and Work for Young People:** in addition to education on the risks of drug use, young people should be provided with better alternatives for education, entertainment and work, which will improve their lives and that of the country. The NGO Arca Tierra in its [sustainable development programs](#) involves young people to be part of the development of innovations, to be an integral part of the projects, which provide them with specialized labor qualification in advanced technologies and sources of employment. In our [course # 5](#) we explained how a city and government organization, commonly known as a municipality, can provide education and work opportunities with equal opportunities and gender equity. Many nations in their prevention programs include sports and art, this is very important to do in all social strata, many public educational centers, increasingly see their spaces and budgets for cultural and sports activities reduced, by reducing the budget Of these activities, they are shortening the future of drug-free youth.

- **Drug Rehabilitation Centers:** public and private centers must be ensured so that all people can access successful and functional detoxification and rehabilitation programs that help them to quit drug addiction, that is, regardless of their social stratum or economical. The NGO Arca Tierra recommends the NARCONON® program, which has a much higher percentage of effectiveness than the average shown by other rehabilitation programs, most of its graduates do not repeat drug use, do not relapse into crimes, lead a life honest and good family relationships.



Security and Justice to Avoid Drug Consumption and Trafficking

- Improvement of Labor Conditions for Public Order and Safety Workers:

working conditions must be improved in terms of gender equality and labor benefits for people who work in public order forces, to reward their dedication to protecting society and to avoid corruption, as well as effective comptrollership. Workers related to safety must receive fair wages according to their hierarchical level and the level of risk of their activity, generally, in the assignment of salaries, the risk level of the work to be carried out and its importance are contemplated, this in the assignment of salaries in the police and firefighters is often ignored, which is why they receive an unfair pay. They must also have other benefits depending on the importance of their work and the risks they face, such as the allocation of bonuses, for example, those in charge of stopping drug trafficking can be assigned bonuses in relation to the effectiveness of their work, to receive bonuses for drug shipments seized in proportion to their weight, of hectares of crops detected, to be reforested and the payment of rewards for the capture of dangerous criminals; Of course, this must be proportional to the crime rates, since generally notices are given to capture 1 ton, while entering 100 tons, a drug trafficker is captured while leaving thousands free ... Reasons why the bonuses should be proportional , so that the bonds effectively promote competition and ethics, that is, ensure that they really reward ethical, responsible and competent behavior, which has an impact on reducing crime. They must have insurance policies, health insurance for the family and education for their children, as well as guarantee them the right to housing in a safe place, since many police officers who arrest their criminal neighbors receive threats and persecution for applying the law . The authorities are continuously seeing the worst acts of society, the worst face of humanity, this is very exhausting, so they must have vacations and even sabbaticals to prepare them to be better officers and return recharged with a new vision to improve the Security, which, in addition to arrests, means interaction with the communities where you work, through education sessions on values, sports, cultural and recreational activities, so that citizens also feel committed to security and see the police as their allies and not as their enemies, so that together they build a prosperous, drug-free and crime-free society.

- Restorative Justice - Reparative

The solution to crime, to drug trafficking, is justice aimed at repairing the damages; because justice is not revenge, it must be directed to the victims being compensated for the damages and that the criminal is the one who takes responsibility in compensating the damages caused by their acts and is reformed so that they are reintegrated into society as a good citizen According to their committed acts, they would be the restorative sanctions and their willingness to stop the crime will be decisive in deciding when they will be granted freedom, since the time to earn the right to freedom is determined by the moment they stop causing damages through their crimes.

I agreed at the beginning with the Colombia Peace Treaty, so that the FARC narco-terrorist group would give up weapons, kidnappings, extortion, terrorism, child and drug trafficking and rejoin society, without jail, but with such that they stopped committing crimes, an essential step for them to be free, the billions of dollars resulting from their criminal acts were seized, compensated the victims and the serious damage they committed to Colombia up to that date. Unfortunately, they did not receive sanctions or

compensate the damages to the victims, nor did they stop committing the aforementioned crimes, their properties and billions of dollars accumulated in their long years of terrible criminal activities were not seized; They only gave them benefits in exchange for some old weapons that they handed over, they assigned them positions in Congress, now with their narco dollars they intend to destroy Colombia's democracy, to establish a copy of the criminal states of Cuba and Venezuela, they left mines that continue to cripple to Colombians and they continue to commit narco-terrorist acts in the hemisphere, with impunity; In conclusion, that treaty failed, because neither prison justice nor restorative justice was applied.

But, I still agree with reparative justice, I think that if drug traffickers were given the opportunity to stop crime, in exchange for denouncing the drug trafficking network in which they have been involved for its dismantling, with the usual Witness protection programs, with the difference that the money and properties seized were destined to compensate the victims, to improve the lives and opportunities of children and young people, with the construction of orphanages, schools, universities, cultural and sports centers, effective drug addiction rehab centers that do not use legal drugs to substitute for illegal drug use, such as the recommended NARCONON® program. In short, restorative justice would consist of allocating the resources seized from drug trafficking to improve the working conditions of security officers, who risk their lives for the country, to rehabilitate drug addicts, to improve the quality of life of children and young people, with good education and development opportunities. In addition to seizing money and property, reparative justice would also consist of community work, actions aimed at repairing the damage caused to society, the rehabilitation of the criminal, if he is addicted to drugs, he must be inserted in a rehabilitation program and in his last stage give you honest job opportunities; In case of relapse into crime, they would lose the opportunity to receive restorative justice again and pay their crimes with jail, in jail they would pay their sentence while they are educated and detoxified from drugs, so that when they leave they are not worse criminals, but rather honest citizens able to get an honest job.

Some may disagree with justice aimed at repairing the damages without jail, but the truth is that just by denouncing the drug trafficking network they are already under a death sentence and it is a great step they take to be reinserted into the law. society, they would only keep what is essential for their own and their family's survival and the opportunity for honest work. Most drug traffickers kill each other, poison their users, but addicts do not escape their responsibility to self-destruct their lives, so they cannot be blamed for overdose deaths, for cases where they have committed drug murders. honest citizens and non-corrupt law enforcement agencies must spend time in jails with detoxification and rehabilitation programs; The NGO Arca Tierra recommends the CRIMINON® program, which has obtained good statistical results, 88% of its graduates do not repeat crimes. All retired drug traffickers should receive rehabilitation, because most crimes are committed under the influence of drugs.

At the same time, programs should be developed to reintegrate former criminals, former gang members into society, there are several environmental foundations that have successfully reduced the incidence of crimes by integrating young former gang members into environmental projects, because they carry out activities that improve the conditions of the environment to compensate for the damages caused to society and gives them an opportunity to receive education and honest work, so it would be a way to

receive restorative justice. In conventional justice, honest citizens who pay taxes to keep the jails full are paid, in the United States 1 out of every 100 citizens is imprisoned and the maintenance of these people in prisons exceeds 50 billion a year, money that comes out of the honest citizens, for what with conventional justice honest citizens pay and the criminal does not, and after leaving prison they continue to commit crimes, 80% of ex-convicts repeat crimes and thus continue with the increase in crime and of inmates, a vicious circle that must be broken. In restorative justice, victims are compensated, the criminal pays with money and community work, and rejoins society as a good citizen.

Prisons worldwide could be said to be overcrowded, some less than others, the United States tops the list, where the majority of its prison population is African-American, according to figures collected by the Pew Research Center, in 2018 the prison population was 33 % black and 30% white. However, whites represent 60% of the country's adult population and blacks 12%, this denotes racism in justice and unequal opportunities for education and work for young African Americans who mostly end up in gangs and ultimately in prisons. If they spend much of their \$ 50 billion a year budget to keep African Americans behind bars, imagine how many college scholarships and education and work programs for children, youth and adults would be funded, which would result in a decline in drug use and crime, according to the Pew Research Center, on average blacks are twice as likely to be poor or unemployed as whites, so we recommend taking into account reparative justice and the evolution of society towards justice. Equal opportunities to exercise human and environmental rights, without discrimination based on race, gender, creed, nationality or sexual orientation, we explain how to achieve this in our online [course # 5 Organization and Models of Cities for Sustainable Development](#).

These would be the main actions to be taken to solve drug trafficking, therefore, in evaluating compliance with the anti-drug treaties in the system of points on the gradient scale, the following should be considered:

- The non-legalization of drugs.
- Prevention: education about drugs, opportunities for children and young people in education, work, culture and sports, without discrimination.
- Access to rehabilitation programs for addicts.
- Access to rehabilitation and restorative justice programs for drug traffickers, to stop the incidence of crime and compensate the damage caused to society.
- Evaluate your fight against drug trafficking at the international and national level. This is important because their fight at the international level may be plausible, but the internal fight is permissive in terms of drug trafficking and consumption, as is the case in the United States, a country that fights against international drug trafficking networks, but on its own. At home, drug traffickers sell drugs as candy on any street corner and even in schools and universities, knowing the security agencies, to "avoid war between drug traffickers and maintain public order."

Violation of any of these aspects will deduct points and their compliance will add points.

The NGO Arca Tierra, details the deterioration of economies due to money laundering that makes sustainable development impossible and proposes how to achieve a sustainable economy in [our blog](#), Likewise, we propose the way in which prisons and

justice systems should function so that prisoners abandon crime and are reintegrated into society as citizens of great value to the country, in our [course # 5 Organization and Models of Cities for Sustainable Development](#). And we propose that young people be integrated into programs for sustainable development, as we did in our proposed [Program in the La Florida district of Santiago de Chile](#).

Then when evaluating all the relevant aspects mentioned above, in terms of respect for democracy, human and environmental rights, environmental treaties and other treaties that represent the difference between surviving and succumbing to humanity, the country will obtain a score that will place it in the gradient scale. The higher the score, the more weight your votes and opportunities will have to belong to the security and human rights councils in the continental organization or in the United Nations, depending on where this scale is used.



We must emphasize that respect for democracy is essential to be above zero and that the security and human rights councils must act to protect humanity with the necessary speed, not wait for millions to be exterminated, in cases of states Narco-terrorist criminals who commit genocide, will receive a score of -100 and must receive immediate justice, applying the principles of the Rome Statutes, the Responsibility to Protect R2P and other pertinent agreements that cannot be ignored, even if a dictatorial regime or regimes are oppose justice, the United Nations was not created to protect human rights violators, it was created to enforce the Universal Declaration of Human Rights and protect the species from crimes against humanity.

Likewise, these councils must be oriented to the consolidation of human rights, especially fundamental ones, such as the prohibition of slavery, in international trade customs taxes should be applied to the importation of products from regimes that keep their slave population without labor rights, this will equalize prices in the markets, since slavery in addition to damaging their peoples, deteriorates job opportunities and labor rights in the countries where they trade, because companies that do comply with labor rights cannot compete with the prices of companies that use slave labor, causing a global economic decline that affects the quality of life of citizens of free and democratic

nations. The money collected from customs taxes on slavery will be used to build shelters in border areas of those dictatorial countries, to provide opportunities for housing, education, health care and work with labor rights to refugees, in our models of [shelters](#); also to offer them these opportunities in democratic countries where they are given political asylum or refuge.

Similarly, sanctions should be imposed on countries with the highest CO2 emissions within a certain range, part of the proceeds will be used mainly to solve climate change, not to mitigate or place cold water rags while the temperature continues to rise, What will solve global warming, according to the IPCC, is the reduction of CO2 emissions and the absorption of excess CO2, which exceeds one million tons, for this the NGO Arca Tierra promotes its [Sustainable City](#) and [Save the Oceans](#) projects, to through our proposal, cities will be carbon neutral, absorb excess CO2 and emit oxygen through bioarchitecture. The plastic continents in the oceans and in their surroundings will be cleaned to place in crucial locations according to the ocean currents, facilities for absorbing excess CO2 from the atmosphere and the oceans, with technologies that emulate natural cycles, using natural resources and they will generate renewable energies for marine activities, marine and coastal cities. If these sanctions are implemented, it will serve to promote these projects or other similar ones aimed at solving climate change. On the other hand, a considerable proportion should be allocated to benefit refugees who migrate due to desertification or rising sea levels, for the most affected nations despite their low CO2 emissions compared to other nations, since several countries are disappearing, so the large emitters will have to finance the recovery of the territory or the construction of marine cities, as is the case of Kiribati, the big emitters must assume responsibility for the damage caused, assuring them territorial sovereignty either on artificial islands. or in marine cities.

In function of having greater weight in the decision-making of the world and of not paying fines, nations would compete to enforce human and environmental rights, to take responsibility in complying with international treaties, to have greater power and would leave the past in the past. game of the threats of war or the handling of corrupt influences or at least it will be more difficult for them to continue with that game. This point system will promote a game so that all humanity survives, to increase our chances of surviving and living in ever better living conditions, continually raising and improving our quality of life standards, that is, it will make humanity evolve. towards ever higher living conditions.



Class 4 How would it be implemented in Continental Organizations and in the United Nations?

Description: Explains how democratic nations can get the United Nations to adopt the Humanity Survive-Succumb Gradient Scale point system and how to guide the evolution of humanity through the expansion of democracies in the world through awards and sanctions, as well as how to maintain and improve human rights and environmental standards through responsibility, safety and justice.



Continental organizations may implement this point system to govern their operation aimed at the consolidation of human and environmental rights, to promote compliance with their treaties, orienting their nations towards sustainable development with equal opportunities to exercise rights, with equity, gender and without any discrimination based on race, creed, nationality or sexual orientation, that is, respect for diversity and peaceful coexistence, where each human being is considered as an individual capable of exercising human and environmental rights, as duties and rights to assume, to make your country, your continent, a just, prosperous, tolerant and peaceful territory.

The conglomerate of democratic countries of the world must encourage the United Nations to adopt this point system, because otherwise totalitarian regimes will continue to bribe or coerce the UN to defend genocidal and not humanity, a notable example is the designation of a place in the human rights council for the Venezuelan criminal state, accused of innumerable crimes against humanity against Venezuelan citizens and narco terrorism, criminal acts that it carries out together with the criminal states of Russia, Cuba and Iran, apparently they have also bribed the justice and security system, because it is not explained that justice has not yet been done and that in the face of the flagrant violation of the [Rome Statutes and the Responsibility to Protect \(R2P\)](#), security and justice have not yet acted. By not stopping these criminal acts, humanity is plunged into a downward spiral where increasingly worse crimes against humanity are committed, the genocide in Venezuela through the holodomor and other acts of

repression and crime are worsening day by day and democracies America are at risk, if impunity continues, America will plunge into the chaos and terror of criminal drug states ruling the continent and crimes against humanity spread throughout the world. For example, given the total impunity for these deplorable crimes, now they allegedly bribed the president of the World Health Organization (WHO) to expand a pandemic, aimed at weakening economies and destabilizing democratic countries, as is the case of COVID- 19, during the pandemic narco terrorism and organized crime increased their advance on the continent of America and did not stop the Chinese regime from seizing the main markets, as if they were prepared once the WHO gave the news of the pandemic, when They were supposedly caught off guard by the virus outbreaks, now they have greater economic power and influence on social networks, to coerce nations to follow their guidelines, very few dare to point out the Chinese regime for its responsibility for the pandemic, despite the extensive evidence that makes one suspect of its strange origin and of the negligence of the Chinese regime, of not alerting and not containing the virus properly. Currently, there is a systematic attack against democratic countries, in our magazine [How to Protect Democracies of the XXI Century](#), we explain how a recipe is applied to destroy the free world, but we also reveal how democratic nations can emerge gracefully and strengthened, solutions that can be summed up in two words, truth and justice.

According to the points system of the Intelligence Unit of the Democracy Index of The Economist, there are approximately 75 democratic countries, according to its evaluation of 165 countries, in order to obtain these results, it takes into consideration sixty indicators that are grouped into five different categories: electoral process and pluralism, civil liberties, government functioning, political participation and political culture. Regarding the classification of countries according to their score, it is divided as follows: countries with full democracy, countries with imperfect democracy, countries with hybrid regimes and countries with authoritarian regimes. If we evaluate the average stable economic growth and the quality of life of citizens in full democracies or in imperfect democracies, there is undoubtedly a better quality of life in democratic nations, despite defamation and the spread of false news to the detriment of the Democracy, as one descends the scale until the absence of democracy, the rights and chances of survival of the population are reduced, which is why the NGO Arca Tierra considers democracy and its continuous consolidation in a participatory democracy to be fundamental so that there can be a sustainable development, we explain how to achieve it in our [course # 5 Organization and Models of Cities for Sustainable Development](#).

So, the democratic nations of the United Nations must first of all apply justice, if the UN justice system is bribed and continues to delay the application of justice, they must use their national and continental mechanisms to defend their democracies and to stop the advance of the narco-terrorist invasion, as explained in our magazine; carry out investigations of alleged bribery in the United Nations and present the corresponding complaints so that justice is applied. Once this is done, or along with these actions of truth and justice, they should pressure the UN to adopt the point system of the Gradient Scale between Surviving and Succumbing of Humanity.

Once the United Nations adopts this point system, explained in the previous class, it must be continually improved, to be increasingly fair and promote respect for democracy, human and environmental rights, towards the achievement of the goal. that all the nations of the world are democratic, of course, with models of democracy adjusted

to their culture, where their citizens can exercise human and environmental rights with equal opportunities and without discrimination, exercised as duties and rights to assume, to create nations prosperous democratic institutions with sustainable development, tolerant of their differences and peaceful, where their conflicts are resolved with justice and without war, so that humanity evolves and evolves with greater socio-economic and environmental well-being, we will build better and better sustainable civilizations.

I have emphasized on several occasions that human and environmental rights must be assumed as duties and rights, because we must be responsible in order to have rights, it is a practically divine law that governs all territories; For example, a common citizen has the right to water and it is by law and the government accepts this right, but if the citizen does not exercise it as a duty, he will not have water, that is, by not assuming it as a duty, he will pollute the water, he will waste it. and sooner or later it will run out of water and even worse if the government does not exercise the right to water as a duty either. In a greater sphere of influence of the lack of responsibility, if a democratic government signs continental or global treaties of the Rome Statutes, or against narco-terrorism and genocides, it recognizes the right to avoid extermination or the commission of crimes against humanity by criminal states, but it maintains the embassies of criminal states in its territory and without denouncing or seeking justice, by not assuming these treaties as duties, it will end up invaded by drug terrorism and will lose its democracy, it is that simple. If you are subscribed to the WHO to avoid pandemics but it does not apply justice to the creation of pandemics, you will be condemned to be from one quarantine to another by one strain and then by another worse and another, your citizens will suffer from health, but mainly from hunger for unemployment and economic destruction, until the economy is in the hands of the largest vaccine manufacturers, of course topping the list China and if there is someone to rival it they will attack it fiercely, currently the main manufacturers of the vaccine for COVID-19 is India and China, and India is receiving attacks from the Chinese regime to bring it down.

Cyfirma, backed by Singapore and Tokyo-based Goldman Sachs, said Chinese hacking group APT10, also known as Stone Panda, had identified gaps and vulnerabilities in Bharat Biotech's supply chain software and technology infrastructure. and the Serum Institute of India (SII). the world's largest vaccine manufacturer.

"The real motivation here is actually to exfiltrate intellectual property and gain a competitive advantage over Indian pharmaceutical companies," said Cyfirma Chief Executive Kumar Ritesh, formerly a senior cyber official at the British foreign intelligence agency MI6.

For these reasons, for the implementation of the points system, responsibility should be urged, assuming the Universal Declaration of Human and Environmental Rights as duties and rights to assume, the way to do it is through sanction awards, as stated explained in the previous class, the greater the responsibility, the more benefits and recognition, the greater the decision-making power in the security and human rights councils. Otherwise, the greater the irresponsibility, the less benefits, the less influence on the decision-making of the United Nations and the greater sanctions according to the degree of violation of rights and treaties.

However, in the event of an emergency due to a natural disaster or a serious consequence of climate change, such as food shortages due to desertification, a natural disaster or any other, if a nation requests support, regardless of its position in the ranking of The Gradient Scale of Humanity between Survive and Succumb, would receive assistance with the already established guidelines of respect for human rights, it will be ensured that humanitarian assistance reaches those who need it most, they will enable shelters within the territory, if the nation does so. requests or at its borders, if it does not have the approval of the country in question, within its [shelters](#) all human rights will be guaranteed, even though it is a dictatorial country.



If any sudden change occurs in a country, it should immediately affect its score and, therefore, its position within the gradient scale. For example, if democracy is destroyed in a nation, or genocides are committed, they would drop in the ranking and their decision-making power in the UN Security Council or otherwise, would decrease or disappear according to their new place on the scale, because it is highly illogical to place wolves to ensure the safety of the herds. What logic does it have to give places in the Security Council to Dictatorial Regimes, such as Russia and China, to decide whether to stop genocides, when their citizens have most of their rights curtailed and are dedicated to destroying democracies with interference in other nations? Especially Russia, which by its actions has shown that it supports totalitarian regimes that commit genocide with impunity, such as the dictators of Syria and Venezuela, due to international complaints these dictators created, or finance and protect terrorist cells and drug cartels. Russia, together with Cuba, have allegedly committed cyber-aggression against democratic nations to destabilize them and commit the scorched-earth act of war, setting fire to everything in their path, to weaken democratic nations in conjunction with the members of the Sao Paulo Communist Forum. Whose safety are you going to watch out for? In fact, Russia received many complaints of bombing civilians who adversely affected the Syrian regime and protected terrorists, in Venezuela they took military facilities, institutions and industries together with the Cuban criminal state, to keep Venezuela hostage and thus steal all its resources, although means exterminating the population with epidemics, holodomor, torture and repression.

From Cuba, Venezuela and Syria there have been massive migrations, of millions of human beings fleeing death and certain repression, if this impunity continues, massive migrations due to unpunished genocides and climate change will make life unsustainable in any country of the world before 2.030. In this way, Russia with its position in the Security Council of the United Nations ensures the extermination and oppression, ensures the safety of the genocidal, terrorists and drug traffickers, for these reasons more than obvious, dictatorial countries cannot belong to the Human Rights Council or the United Nations Security Council.

Where will humanity go without this gradient scale, towards survival or towards extinction?

This gradient scale will allow us to evolve towards security and justice in the face of genocides and / or criminal states, dedicated to the proliferation of drug trafficking and terrorism. The UN must be relentless to protect the people and not the genocidal, as has been done lately, they let thousands, hundreds of thousands and even millions die to respect and protect the genocidal and not the human rights of citizens, as has happened so far in Venezuela.

Once justice is applied to criminal states, through the arrest of criminals, they must collaborate so that their citizens make the transition towards democracy, with the supervision and assistance of the United Nations and their continental organization. In this way, the expansion of criminal states would be stopped and democracies and the consolidation of human and environmental rights would expand instead. The assumption of responsibility should also be urged through education and citizen and government counseling, to exercise human and environmental rights as duties and rights to assume.

In relation to security, they must guide nations towards the detection of the sources of chaos product of cyber-aggression to apply immediate justice, apply mechanisms for the recognition of fake news and the manipulation of public opinion through bots and algorithms, to that this stratagem of committing acts of war against nations with impunity through cyber-aggression be stopped with cybersecurity and justice. Cyber-aggression should be viewed as an act of war, used to destabilize democracies and undermine freedoms. North Atlantic Treaty Organization (NATO) regards cyber-aggression as acts of war if they lead to deaths; Cyber-aggression, even if it does not cause deaths, causes the detriment of freedom of expression, information and the right to security, for which cyber-aggression should be sanctioned as acts of war and, if it occurs, apply sanctions and justice with sufficient weight so they don't happen again. Estonia, faced with the cyber-aggression received from Russia in 2007, applied cybersecurity mechanisms that made it the most technologically advanced country today, otherwise it would be submerged in chaos, poverty and a Russian dictatorship. For these reasons, continental organizations and the United Nations must establish firm sanctions against cyber-aggression and have reliable and continuously renewed cyber security mechanisms.

In this way, continental organizations and the United Nations with responsibility, justice and security, will build a safe bridge towards sustainable development, will reach higher heights of quality of life standards for the benefit of their citizens in participatory democracies, democratic nations will extend this bridge towards the evolution of humanity in a healthy competition to be better and better in respecting and

consolidating human and environmental rights continuously without discrimination, to guarantee the expansion of humanity, the conservation of the planet and why not, the expansion of humanity in the universe, where each sovereign nation has its designated territory on each conquered planet and we prosper with participatory democracies, human and environmental rights protected with responsibility, security and justice, actions contemplated in our [Plan 21 Moon](#).



Class 5 How to Make All the Nations of the World Evolve towards Democracies?

Description: teaches how to apply justice to narco-terrorist criminal states for their transition to democracy; how dictatorial nations can transition to democracy tailored to their culture and history and how regional and continental organizations and the United Nations can support them to make the transition.



First of all, although it seems too much to mention, we must say that we are in the 21st century, for some it is necessary to remind them of this, obscurantism is a matter of the past, most of the countries lived and suffered the consequences of tyranny, as far as they already know its consequences and although there is no freedom of expression in today's totalitarian countries, most of the world knows that without democracy there are no human or environmental rights, freedom and living conditions are undermined. Today citizens are not herds to enslave, submit or oppress, citizens are individuals to integrate to participate in sustainable development and the consolidation of human and environmental rights, capable of recognizing truth and lies, we know that well-being depends on each one of us and on the governments we choose and we do not want them to be arbitrarily established in dictatorship.

In other words, at this stage of humanity, if we are given the choice between living in a democracy or in a dictatorship, the majority will choose democracy, because we know that it is the system that will allow us a better life and the possibility of improvement. Until now there is no democracy or perfect country, because we know that continuous improvement is necessary and the way forward is the democratic way, until now the countries with the most stable and accelerated sustainable development, where human and environmental rights are continuously consolidated, are the Member countries of the European Union, a continental organization that only accepts democratic nations, they take responsibility for their continent and for climate actions in the world, which shows a high level of responsibility for the well-being of the planet.

We are in an age of the Earth, where we are getting closer and closer through technology, humanity no longer consists of isolated peoples that can be trampled on without anyone knowing, globalization is a reality, freedom of expression and information, the media and transport bring us closer and closer, staying trapped between the Berlin walls is practically impossible, no matter how much they destroy and censor liberalization and democratization is a process created by society and is unstoppable, humanity knows each other, knows the similarities and cultural differences despite the distance, because yes, we are the same species, the same human identity, but aware that we have very different nationalities and cultural values, choosing to deny or discriminate diversity is discriminate against our species, so that activities related to art, sports and culture in general bring us closer despite our differences, The Olympic Games is a living example of this, each one waving his flag and competing with other nations, with a sporting spirit that does not create enmities but rather a cultural approach that makes us value our humanity.

Those who are against globalization and democracies put down their cell phones and go back to the telegraph, put on a gag and a blindfold, put aside the means of transport and travel on horseback, that is, revolutionize with less and fewer rights, but let the rest of us evolve in democracy, with the continued consolidation of human and environmental rights. Despite your intentions to go backwards, we invite you to move forward, because the purpose of this gradient scale is for all the countries of the world to evolve, we invite all the nations of the world to evolve, to be democratic, to engage in archaic models that undermine freedoms and The rights of your citizens, in the worst cases are a threat to the survival of your country and the free world. We invite dictatorial nations to carry out an evaluation and determine who you are as a country, whatever the result, I can tell you that you are part of humanity, have differences and similarities with other nations, but we have the same identity, if we are made up of human beings and each human value is essential for the evolution of the species, and we do need them, as much as you need from other nations. Now I invite you to evaluate your statistics on the quality of life of your citizens, which is directly proportional to respect for human and environmental rights, whatever your ideology, without propaganda, only the true facts, then compare your statistics with other nations. who live in a democracy and decide what they want for their country, democracy or dictatorship?

If they choose democracy, it does not mean that they change their cultural values or ideologies, making it clear that crimes against humanity or genocides are not an ideology, they are only crimes against the species. So we do not ask you to change your culture or ideologies, it is simply that you evolve them, to make your country a nation made up of individuals who exercise their human and environmental rights as duties and rights to assume, where each represents a human value. capable of generating sustainable development, prosperity, that respect each other with tolerance of their differences and that resolve their conflicts with justice and peace. Whichever path you are on, I am sure that at first you considered it to be the best, you can be right, but also to be right most of the time, we must accept our mistakes and not stay simply regretting or continuing to commit them to say that it is the right thing to do, therefore, we must accept our mistakes and correct them.

So, now, idea how to evolve the model of government of your country towards democracy, many examples you can find, there are many governments that have been very cruel in the past and that are now democratic nations that contribute to the well-

being of their citizens and from other nations of the world, because they evolved. The cruel monarchies in Europe, of cultural and historical values of kings and queens, were pushed aside or modernized to make way for democracies and if they still remain, they evolved not so that their citizens are at their service, but rather, to be at the service of its citizens and provide them with a better quality of life, and in fact, until now, Europe's democracies are the most successful, they are the ones that provide greater well-being to their citizens through respect and continuous consolidation of human and environmental rights, making them the most prosperous nations in the world, with the continental organization of the European Union that seeks ethics, justice and the democratization of the continent.

If you look at the ranking of democracies issued by The Economist Intelligence Unit (EIU), in the first place is Norway, its government consists of a constitutional monarchy, with a parliamentary system of government. The council of state or cabinet consists of the Prime Minister and his council, appointed by the king, although since 1884, the parliamentary system has ensured that the council has the approval of parliament, so the appointments made by the king are a simple formality. The 165 members of the Norwegian parliament are elected from the 19 provinces for four-year terms with proportional representation. Norway does not belong to the European Union but it does have important agreements with this continental organization for the prosperity and benefits of both, Norway adopted 20% of the legal acts of the European Union, due to its participation in the European Economic Area, they have established free trade agreements and participate in many other programs of the union, cooperate with each other in the areas of research and development, education, social policy, environment, consumer protection, business, tourism and culture. In second place is Iceland, it is the sixth most developed country in the world, it has a representative democracy and a parliamentary republic. Since 2016, the president is the head of state, his position only has ceremonial and diplomatic functions, although he can suppress a law approved by Parliament and submit it to a national referendum, the head of government is the Prime Minister (currently Katrín Jakobsdóttir) that, together with the cabinet, is responsible for the executive branch. The cabinet is appointed by the president after the general parliamentary elections. Iceland has a transversal and multiparty political system, although it does not belong to the European Union, it is part of the European Economic Area and maintains important mutual cooperation agreements with the European Union and other Nordic countries. In third place is Sweden, it has the 11th highest per capita income in the world and stands out on numerous measures of human development, including quality of life, security, health, education, equality, and prosperity. Its system of government is a constitutional monarchy, the king is the head of state, but his royal power is limited only to ceremonial and official functions. His government is divided into three branches: legislative, executive and judicial. The legislative power is the Swedish parliament, which is the supreme authority of the government, made up of 349 members and they are the ones who elect the prime minister, who directs the ministries. Parliamentary elections are held every four years, bills must be presented by members of the cabinet or parliament. The latter are elected on the basis of multi-member proportional vote for a four-year period. The constitution can be modified by the parliament, for which the decision is required to be approved by an absolute majority between periods of general elections. In addition to government statutes, it has three other fundamental constitutional laws: the Royal Succession Act, the Press Freedom Act, and the Basic Law for Freedom of Expression. Executive power

is exercised by the prime minister, the cabinet, and the king. The judiciary has a regulatory body called the Law Council, which has the power to examine the constitutionality of laws and government decisions, although its resolutions are not mandatory; however, due to the restrictions of this form of constitutional control and a weak jurisdiction, their work has little consequence in national politics. Sweden is a member of the European Union.

And so, in the ranking after Sweden there are mainly member countries of the European Union, with different models of democracies adjusted to their culture and history, this highlights the importance of a country deciding to evolve towards democracy and that their governments address To improve the quality of life of its citizens, we see how the Nordic countries top the list, despite having a very violent and warlike history from the time of the Vikings, they are now nations oriented towards peace and prosperity in democracy. So every nation can evolve despite its history, its mistakes and successes, it is all a matter of the decision to do so.

When deciding on the democratic model, I recommend evaluating the most successful democratic governments and those that are closest to their historical and cultural values and adapt them to their socio-economic and environmental reality, to the needs of their country. The NGO Arca Tierra proposes an organizational structure for the ministries, cabinet or council of ministers, whatever they want to call it, designed in order to ensure the consolidation of human rights, made up of 7 cabinets, the main ministries that act as axes for the operation of the other ministries, gears of human development, are the ministry of ethics and the ministry of quality. The quality ministry is in charge of supervising and correcting the operation of the entire government, where the natural resources department in charge of conserving and recovering the environment is located, directing all human activities towards sustainability and contributing to the solution of change climate, prevent and mitigate natural disasters with rapid reconstruction and to achieve a participatory democracy, it integrates all sectors of society into the council of natural resources. This ministry is also in charge of innovation and continuous improvement of all processes, products and services in the country. We explain this organizational structure in [our course # 5 Organization and Models of Sustainable Cities](#) and we use it for the design of sustainable cities, since cities to guarantee equal opportunities in exercising human and environmental rights, must be designed based on the described Organizational structure oriented to do so, to guarantee a fluid dynamics in the access, exercise and consolidation of rights without discrimination, in this course it is explained how to carry out this dynamic and how to improve the provision of fundamental rights, in an inclusive economy , for sustainable development and high standards of quality of life, with zero poverty and hunger, in gender equity and equal rights. Similarly, the NGO Arca Tierra highlights the importance of cooperation between democratic nations and the existence of continental organizations that promote democracy, prosperity, justice, security and peace, so that nations stay on the right path and help each other to move forward without going back. The above-described organizational model of the NGO Arca Tierra can also be adapted to a continental organization.

The task of devising and conceiving a democratic government to which to make the transition is the work of the citizen and of the dictatorial government. Citizens, which are considered resistance or dissent, must propose the democratic model for which they want to change, dictatorial governments before citizen revolts or military coups with

greater ambitions dethrone them to establish another dictatorship, they should evolve towards a democracy, agreeing with the citizens the model of democracy that they are going to adopt, beginning by opening the bars to political prisoners, to agree on the new model of democratic government. Unfortunately we see in history that the lack of a clear vision of where we want to change is worsening and worsening the rights of citizens and the changes that occur are in relation to the dictator in power.

The Arab Spring, a wave of citizen protests started by a single citizen on December 17, 2010 in Tunisia, who blew himself up in despair of not being able to exercise any right to work or private property, Tunisians managed to overthrow the dictator, he resigned in January 2011. This fact triggered waves of protests by citizens fed up with oppression in other Arab nations, in Egypt they overthrew the dictator, in Libya they overthrew the dictator, in Yemen they overthrew the dictator, in Jordan they overthrew the dictator and in Syria, they did not overthrow it, because the most cruel regime is supported by Russia and because of the proliferation of terrorism, terrorism promoted by the Syrian regime and protected by Russian bombings, since NGOs and Syrian citizens have denounced since 2015 that the alleged aid Russia to combat terrorism, was used to bomb Syrian dissidents and protect the locations of terrorists allied to the Syrian regime. There are complaints and evidences that the Syrian Regime supports the terrorist group Isis, firstly it used them to infiltrate the Syrian resistance to investigate and then behead them, later they revealed their true identity, a terrorist group that sets fire, exploits and destabilizes the Arab countries, especially to those Arab nations that try to establish democracies, peace and prosperity, for example, one of their favorite targets is Tunisia, it is as if dictatorial regimes, rather, criminal states financed and supported terrorism so that its emergence or survival is impossible. of democracies. Currently, due to pressure from democratic countries, the terrorist group Isis has been contained, but now they want to be a narco-terrorist state, in view of the fact that the UN and the international community do not apply justice or act against criminal states.

The regimes of Cuba, Venezuela, Iran and Syria, all protected by Russia, are evident criminal states that support narco-terrorism and that intentionally destabilize democratic nations of their hemispheres, to destroy them and establish more and more criminal states that enjoy total impunity. . The impunity for crimes against humanity in Syria, are so evident and outrageous, they have murdered more than 13 thousand Syrians, including 2,773 children and 1,445 women according to the Syrian Network for Human Rights, they have even bombed villages with weapons chemicals without any intervention of protection or justice that stops the dictator from committing genocide, because Russia, a member of the UN Security Council, protects him, just as it protects other criminal drug-terrorist states.

Before criminal states, the only thing that applies is justice and there is enough jurisprudence to act but it is not fully applied, such as:

- Humanitarian Intervention: it is the intervention in a sovereign State by one or more States or international organizations, through armed force and without their consent, with the aim of providing the civilian population with protection against the massive and systematic violation of their human rights or well in emergency situations derived from a civil war, famines or genocide, among other causes. Humanitarian interference should not annex the State or affect its territorial integrity, but merely alleviate the situation of the civilian population of the State.

- The responsibility to protect (R2P or RtoP) is a global political commitment supported by all United Nations member states at the 2005 World Summit to prevent genocide, war crimes, ethnic cleansing and crimes against humanity. The principle of the responsibility to protect is based on the premise that sovereignty carries with it a responsibility to protect all populations from heinous crimes and human rights violations. The principle is based on a respect for the norms and principles of international law, especially the international custom of sovereignty, peace and security, human rights, and armed conflict. The responsibility to protect provides a framework for employing existing measures, such as mediation, early warning mechanisms, economic sanctions, and Chapter VII of the United Nations Charter, to prevent crimes against humanity and to protect civilians from their occurrence. . The authority to use force under the responsibility to protect rests solely with the United Nations Security Council and is considered a measure of last resort. The Secretary-General of the United Nations has published annual reports on the responsibility to protect since 2009 that expands the measures available to governments, intergovernmental organizations, civil society, as well as the private sector, to prevent crimes against humanity.

- Relevant UN Security Council resolutions, such as resolution N1373, which provides for the fight against terrorism and its sponsors and funders.

Through the point system, wolves will be prevented from protecting the herds in the UN Security Council and will make it possible to apply the proper jurisprudence so that humanity is really protected from criminal states, because there is no negotiation before criminal states. nor dialogue that stops their crimes against humanity against the population, much less will they stop supporting or financing terrorism, in these cases, intervention to arrest the criminally responsible established in the criminal state is imminently necessary, as well as the provision of security for the transition to a democratic government that they choose in transparent elections.

Regional and continental organizations and the United Nations must support dictatorships and autocracies to evolve towards stable democracies adapted to their history and culture. In the case of the Arab nations, where their citizens have demonstrated their desire to live in democracy, they must be supported, so that criminal states in the region do not sabotage their efforts to live in democracy, freedom and peace; providing support in their security and the timely application of justice to criminal states that threaten their stability. For Arab nations that wish to evolve towards the consolidation of democracies, I recommend creating a regional organization, which grows as other democratic nations emerge in the region, to support each other and establish cooperation agreements with their corresponding continental democratic organizations.

The NGO Arca Tierra offers advice to those nations that wish to make the transition towards democracy, to nations and regional and continental organizations that wish to consolidate democracies for the sustainable development of their regions. We urge the totalitarian regimes of Russia and China to reassess themselves, both Russia and China have slowly advanced in granting more freedoms to their citizens and that is when they have done better, if their ideology is to destroy the world's democracies, they will receive justice as criminal states. But, if the alleged crimes of: 1) interference in other countries, with cyber-aggression, acts of war and terrorism with the war tactic of the Shattered Land, 2) support and financing of narco-terrorism, 3) planning and commission of a global genocide by acts of omission or commission in allowing the COVID19 pandemic to

spread in the world, to collapse the economy and quality of life of the countries; turn out to be true and if these serious crimes against humanity were committed by an extremist leadership within their bosom for economic interests, we demand that they do justice, with national and international justice so that they are not condemned scapegoats, but that those truly responsible receive Justice. Once this is done, if their desire is to evolve towards democracy, continental organizations and the UN should support their transition and the NGO Arca Tierra would offer them advice.

To the international community that opposes the holodomor, genocide and narco terrorism, we demand justice against the criminal states of Venezuela, Cuba, Iran and Syria, since enough evidence has been collected and impunity persists, while its citizens die or they are forced to migrate.

Once the United Nations has recovered, so that this situation does not repeat itself, of crimes against humanity unpunished, the points system will validate and consolidate democracies and human rights, which will promote the evolution of nations, towards sustainable development, towards the respect for human and environmental rights, exercised with equal opportunities without discrimination and with high standards of quality of life.

The NGO Arca Tierra, to the democratic nations, we invite them to restart activities in a sustainable way and we offer them our consultancy as [intermediaries of open innovation](#), for the realization of our [Sustainable Cities](#) and [Save the Oceans](#) projects, which lead to the reduction of emissions of CO₂, absorption of excess CO₂ from the atmosphere and the oceans, that is, to the solution of climate change with sustainable development and equal rights. Faced with the serious situation of people displaced by violence, by impunity for crimes against humanity and by global warming, we offer you our [models of shelters](#), based on our model of a sustainable city globe, a self-sufficient city, which will function in a system democratic, administered and operated by refugees, to train them and train them how to build sustainable development with innovative technologies and management models, so that when they return to their countries safely they can create sustainable development or to be integrated into the progress of other democratic nations that they give them asylum and in this way are trained for work and generate well-being for their own.

Culture, art and sport are the exponents of the human spirit, so they are fundamental tools to encourage and strengthen democracies and respect for diversity, respect for our differences to assume them as our strengths to make a better world , where we reconcile in similarities, we all want to exercise human and environmental rights, with equal opportunities and high standards of quality of life, without hunger and without poverty. Therefore, democratic nations, regional, continental and United Nations organizations should seek spaces and events for cultural and sports exchanges, offer scholarships and incentives in this regard. National artists will bring citizens' dreams to life and spread their dreams of a free world to make it come true.

Section 3

Section 3 Air Quality Law

Description: It will be announced how to effectively reduce carbon dioxide (CO₂) emissions, to achieve the desired air quality in cities and direct human activities towards sustainability, through a system of awards and sanctions that will promote a sustainable economy, through incentives for the supply and demand of sustainable products, goods and services, to create a carbon neutral civilization. As well as the protection of the environment, by awarding its conservation, establishing a value in money for the oxygen emitted and the absorption or retention of CO₂, per hectare of the natural resource conserved, key to solving climate change and how these financial resources They will be contributed to the regions or nations that they conserve, so that they can finance sustainable development, despite the fact that no economic resources are obtained from the exploitation of natural resources.

Class 6 System of Awards and Sanctions for Air Quality

Description: you will know why the CO₂ reduction quotas are not reached and how the Air Quality Law will help them to be achieved by providing for the recovery and conservation of the environment, through the creation of three (3) funds, for the awards to the conservation of natural resources, the transition of human activities towards a carbon neutral civilization in a sustainable economy and the prevention, mitigation and reconstruction in the face of natural disasters; and how these climate actions will achieve sustainable development, in an organized way and with continuous quality improvement.



Nations around the world that push for reaching the Paris Treaty quotas for reducing CO2 emissions have implemented a set of sanctions on CO2 emissions, which basically consist of taxes and bonuses. This method to reach the quotas is incomplete and therefore doomed to failure, if not a system of awards is established, which clearly establishes where to direct the taxes collected for the protection of the environment and which drives a supply and demand of products, sustainable goods and services. Citizens are often the most affected by carbon taxes, so states resort to giving them a percentage of the taxes collected to cover the high costs of electricity from hydrocarbons, the main emitters of CO2. So, hydrocarbon companies collect more money and more money, expand their investments in hydrocarbon exploitation and citizens consume more CO2-emitting products, then the supply and demand of CO2-emitting products, goods and services increases, it is a vicious circle in which nobody is able to effectively reduce CO2 emissions.

In order to solve this problem, the NGO Arca Tierra proposes a system of prizes and sanctions for air quality, which would have the goal of creating carbon-neutral civilizations of humanity, aimed at conserving the environment with human quality of life. , through sustainable development and equal rights.

It basically consists of penalties for CO2 emissions through taxes and customs fees on emitting products. The money collected will go to 3 funds, to reward the conservation of the environment, promote a sustainable economy and to prevent and mitigate natural disasters:



1. Natural Resources Fund: to finance the recovery and conservation of natural resources, starting with the most important for solving climate change, such as jungles, forests, mangrove forests, glaciers, marshes and whales. The money allocated to each resource will be in proportion to the emission of oxygen and absorption of CO2 and water purification per hectare in the case of jungles and forests, in relation to glaciers it

will be in proportion to the greenhouse gases captured, to their impact in global temperature and sea level, per hectare. The marshes will be considered those arranged on the coasts and for the whales in number, because according to the International Monetary Fund (IMF) each great whale sequesters 33 tons of CO₂ on average and when dying in the oceans they capture the CO₂ in the depths, the Industrialized fishing industry and whaling interferes with this process, it is believed that this industry, according to a study by the Science Advance magazine, has released 730 million carbon dioxide into the atmosphere, so it is necessary to invest in aquaculture to avoid the deterioration of the oceans and to mitigate global warming, fishing must now be fish harvest, the NGO Arca Tierra proposes our [Vertical Gardens for Aquaculture](#), explained for its development in our [course # 3](#), designed to achieve zero hunger in a way sustainable and through this fund the fishing industry should be oriented, integrating small fishermen, to the recovery and conservation of the oceans, par to avoid poverty and without slavery, since in some countries that still have slavery they use them to carry out these maritime tasks. In our [Save the Oceans project](#) we mention a series of sustainable economic activities to be carried out in the oceans and coasts, which will help their recovery and the sustainable development of the communities that inhabit coastal areas. In this process, first, the ban on whaling must be prohibited and enforced, fishing industries must at least invest in reducing the environmental impact, to continue their activities, in which aquaculture manages to satisfy the demand for fish, The main source of protein for humanity, likewise, the supply of marine foods developed from algae must be promoted.

2. Climate Change Fund: this fund is to promote a sustainable economy, that is, to finance and advise so that all human activities make the transition towards sustainability and be carbon neutral, supporting and strengthening a supply of products, goods and carbon neutral services and a demand for these products, supporting citizens to acquire them.

3. Natural Disaster Fund: it will be used for the prevention, mitigation and reconstruction of natural disasters, the NGO Arca Tierra has a series of proposals to achieve this, expressed in our [Plans Against Natural Disasters](#), the main investment consists in having natural resources that They mitigate them and in buildings resistant to any disaster and that are of rapid construction.

These funds will be administered by the Departments of Natural Resources, at the national, continental and United Nations level, this department is made up of 3 sections, the Natural Resources Section, the Climate Change Section and the Natural Disasters Section, each section will be in charge of the administration of the corresponding fund, the management policies of this department are explained in our [course # 5 Organization and Models of Cities for Sustainable Development](#). The department will be part of the governmental organizational structure of the country, continent or the United Nations of 7 Burós, it will be located in Bureau # 5 Quality, so that through norms and quality standards innovation and transition of activities are promoted towards a carbon neutral civilization. The department will have an executive council headed by the head of the government entity in question, which will integrate all sectors of society for the efficient functioning of the department in a participatory democracy.

DEPARTAMENTO DE RECURSOS NATURALES
DEPARTMENT OF NATURAL RESOURCES

SECCIÓN 1
SECTION 1



SECCIÓN 2
SECTION 2



THE GLOBAL GOALS

SECCIÓN 3
SECTION 3



Class 7. Penalties for CO2 Emissions

Description: you will know what the sanctions on CO2 emissions should consist of at the national level through taxes and to guarantee competitiveness in the national market versus imported products and in the export in the international market of sustainable products, establish customs fees to emitting products and slavery.



1. Taxes on CO2 Emissions per M3:

A tax rate that is gradually increased and applied to all areas of society, beginning its implementation from large emissions in tons per m³, with a tax rate of 2 to 5% that will affect large industries first. Gradually decrease the emission of a ton of CO₂ to be sanctioned, which will then affect the large industries as well as the medium-sized ones and later gradually all, later gradually increasing the tax rate.

That is, they would be penalized from 50 tons (this figure is to give an example) of CO₂ emissions per month or in a certain period of time, then from 25 tons, later from 10 and so on until sanctioning the minimum amounts emitted by each citizen which on average corresponds to about 6 tons of CO₂ per year. The figures of tons and the time period can be established according to the emissions of each region versus its impact on air quality and the development of a sustainable economy, so that these taxes do not negatively impact the quality of life of the citizen, but rather on the contrary, it encourages it to improve its quality of life standards in a sustainable way, which in turn promotes the economic growth of small, medium and large companies towards sustainability and that polluting industries make the transition towards sustainable related economic activities.

Products, equipment, goods and services produced at the national level for sustainability and carbon neutral must be exempt from taxes, such as those intended to replace petroleum-based products with sustainable ones, for example, compostable packaging,

for the generation of renewable energies, those products, equipment, goods and services that use clean energies, such as cars and electric public transport, buses, trains, electromagnetic trains, among others, must be exempt from taxes. These taxes will ultimately have an impact on the reduction of prices to consumers and on the investment of companies to carry out sustainable economic activities. This will drive investment in clean energy and sustainable economic activities, because they will reduce costs and will be able to offer better prices to be more competitive in the market. Once the Paris Treaty quotas for reducing CO2 emissions are at least met, the taxes would extend to emissions of all greenhouse gases.

2. Import Duties:

National companies would be affected by imported products that do not pay the CO2 emission tax rates in their countries of origin, for which a tariff rate should be established for those imported products that are not certified carbon neutral, accredited by an entity approved by the importing country. The tariff must be proportional to the CO2 tax rate to guarantee the competitiveness of sustainable national products in the national market and these tariffs must be promoted internationally so that their products are competitive in the international market, although already companies worldwide carbon neutral suppliers are requesting, as well as consumers demanding carbon neutral products, which will increase the demand for national carbon neutral products in international markets. Therefore, products, goods and services must be labeled with their average rate of CO2 emissions, so that the corresponding sanctions or exemptions are applied and that companies and consumers can choose what to buy, since they will acquire what represents a saving and contributing to the environment.



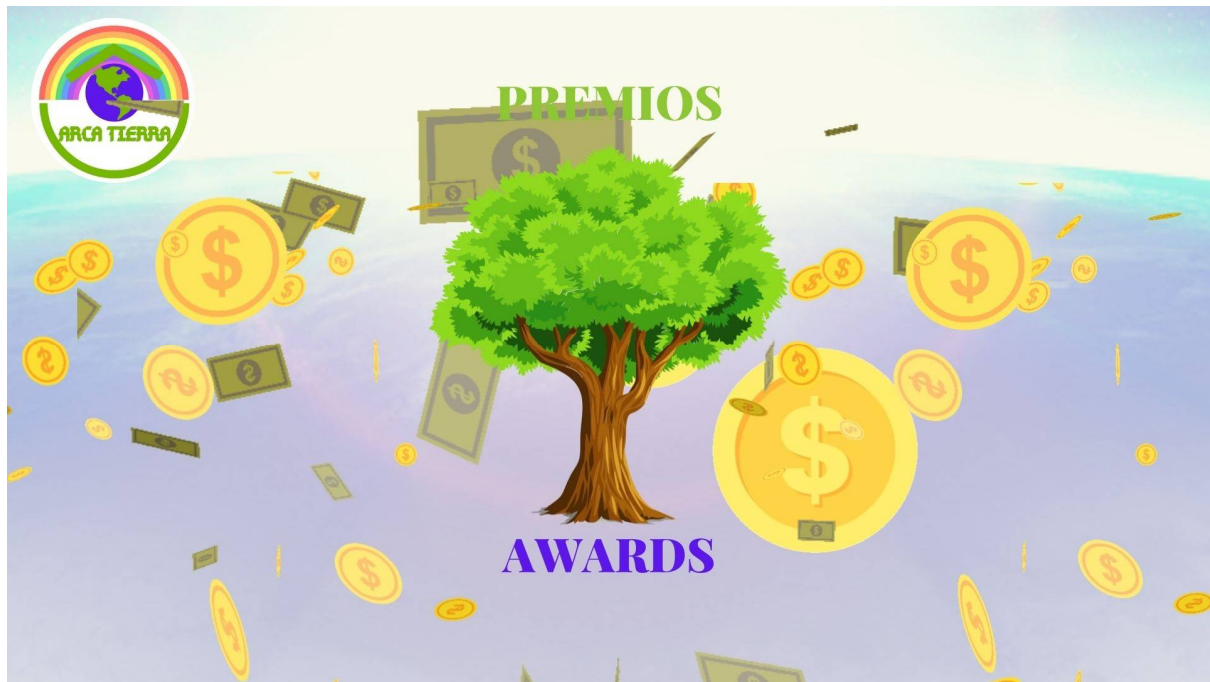
In relation to competitiveness, slavery tariffs should also be applied, a company that does not pay its employees fair wages or other labor benefits, will never be able to compete in relation to prices, with a company that does comply with labor rights, for which will deteriorate the national business growth. Slavery is a stone in the shoe of the world's economies that is taking away sources of employment and labor benefits from workers to the detriment of the quality of life of citizens and national business growth; The slavery tariffs must be in proportion to equal prices and the money collected will be

used to give asylum in the country to slaves fleeing their countries of origin due to lack of human rights or for the construction of shelters in border areas of their countries. countries, considering our models of globe cities, which offer refugees to live in a democratic system, where they will be trained to administer and operate the self-sustaining shelter, to prepare them so that they can return to their countries when democracy recovers or to be integrated to the sustainable development of other democratic nations, with an organized migration, where they will not be victims of human trafficking or destitution and the border nations to dictatorial regimes are not affected by massive migrations, until it is resolved with justice or with the transition to democracy the situation of their countries, as explained in the previous section, in the points system for the consolidation of democracies and human rights of the Gradient Scale between Survival and Succumbing of Humanity, the payment of fines or tariffs to slave countries is contemplated, if in the country where the sanctions will be implemented to CO2 emissions, these charges have not yet been implemented, they must be included in the sanctions, otherwise they will impede sustainable development, because national and international companies that do respect labor rights will not be competitive, national companies will disappear or instead They will only dedicate themselves to commercializing products of slave nations, because free nations become accomplices of slavery, to offer cheap products that in the end turn out to be of low quality and must continually be replaced, to force them to buy more and more slave labor suffers. We recommend reading the article from the Information Center on Business and Human Rights called [Slavery Made in China](#), so that they know the suffering that slaves pay so that you have a cheap product in your market.



Class 8. Awards for the Reduction of CO2 Emissions and Absorption.

Description: you will know what the awards for the contribution to the mitigation and solution of global warming should consist of, that is, it will explain what should be done with the money collected from taxes and customs fees from sanctions, which must be invested in the creation and strengthening of a sustainable economy, in the conservation of key natural resources for the solution of climate change and the containment of damage from natural disasters.



The money collected from the sanctions will be allocated to the three (3) funds described above, which must be administered to award prizes that mainly help reduce emissions and absorption of CO₂. The awards will consist of incentives for a sustainable and carbon neutral economy, for the recovery and conservation of the environment and for the prevention, mitigation and recovery of natural disasters. As mentioned above, it is recommended that these funds at the national, continental and United Nations levels be administered by their Departments of Natural Resources, an organizational model that is explained in our [online course #5](#).

1. Incentives for a Sustainable and Carbon Neutral Economy



Waiting for companies to invest in renewable energy to avoid paying taxes or tariffs is not enough to reduce CO₂ emissions or to reduce the economic impact on citizens, consumers of CO₂-emitting products, goods and services. CO₂ taxes represent great challenges for companies, used for dozens of years to operate in a certain way and to overcome the challenges of reducing emissions they need to make investments and receive advice. It is an erroneous point of view to see companies that generate jobs and sources of income for citizens as targets to attack due to global warming, it seems rather a surreptitious attack on the human rights of work and private property, to promote models where there are no such rights, no democracy or other freedoms, where they destroy the environment left and right without any consequence, because there is no democracy or separation of powers for justice to be applied to crimes against humanity and much less to environmental crimes.

Companies, like all citizens, must assume the commitment to solve climate change, for the survival of humanity and the planet, most are willing to do so, but they need financial support, education and advice to do so. However, there are a few who resist the inevitable, the transition of their activities and the world economy towards sustainability, despite their enormous resources and potential to do so successfully, they prefer to put on a blindfold to face the future and Instead of investing in becoming the leading renewable energy producers, they waste money on absurd campaigns to try to disprove global warming. Accept it, climate change is real, its great CO₂ emissions and of which we all were or are part, because we consume hydrocarbons, it is exterminating the life of the planet, transforming it into an inhospitable place for all species, already in the present it is affecting everyone's health, CO₂ emissions is the eighth leading cause of death in the world.

So, let's get to work, to lead all of us, from our homes, workplaces, to be part of the solution and not of the problem. These economic incentives will allow citizens to consume more accessible carbon neutral products, goods and services that will improve their quality of life, to create a sustainable demand and companies and industries to

produce products, goods and services without CO2 emissions, for a sustainable supply and thus we will have a sustainable economy.

Promote Offer of Sustainable Products, Goods and Services



Therefore, part of the income from tax collection should be directed to the creation of a sustainable offer, so that consumers have sustainable products, goods and services to buy, remembering that the higher the offer the prices are reduced. This will be achieved with the following incentives:

- Economic incentives for the creation or expansion of national companies for the generation of renewable energies and electric mobility, throughout the production and marketing chain. In addition to the fact that they will not pay the CO2 tax or other taxes related to its creation, nor import or export tariffs, to manufacturers and electricity supply companies with renewable energies and electric mobility, they will be provided with different financing options, to through grants and credits with low interest rates.
- Soft credits for innovation in electric mobility, regarding the development of fast electric recharging stations, for electric cars and for innovation in electric recharging of cars with renewable energies. It should be noted that cars that run on hydrocarbons emit CO2 and absorb oxygen, which significantly worsens air quality in cities.
- Soft credits and / or subsidies for technological innovation in the generation of renewable energies, their distribution and storage.
- Soft credits for projects of energized roads for electric mobility, that work with renewable energies, in addition to transport units, to start investing in the electrification of land roads by kinetics, electromagnetism or other means that are carbon neutral.

- Soft credits and / or subsidies for the innovation and development of sustainable architecture and construction, for the construction of buildings and smart cities, which, according to their function, carry out their activities in a sustainable way and are carbon neutral.
- Economic incentives to be carbon neutral companies, in addition to the fact that they will not pay taxes on CO2 emissions as they are carbon neutral, they will be granted soft credit opportunities for the purchase and installation of renewable energy generating equipment.
- Economic and fiscal incentives for the replacement of plastic and other petroleum-derived products, as well as for those industries and companies related to the production and commercialization of biodegradable products, recycling and the total reuse of waste.
- International Treaties for the distribution of equipment, raw materials and materials for the production of renewable energies, to reduce costs.
- Technical and administrative advice for SMEs and industries related to the generation, distribution and storage of renewable energies.
- Technical and management advice so that companies and industries are carbon neutral, the state may rely on NGOs, related associations, educational institutions and unions to do so, providing them with financing to carry out these activities.

Boost Demand for Sustainable Products, Goods and Services



Another part of the tax collection should be directed to the demand, so that residences, citizens reduce their CO2 emissions, in many countries, such as Chile, not to say that in most, the main emitters are residences, Especially in those nations that live the four seasons, in winter CO2 emissions multiply due to the increase in the use of hydrocarbons or firewood for heating, although throughout the year residences are the

ones that produce the most emissions. Given that residences are the ones that emit the greatest amount of CO2, in our course # 3 and in our Sustainable Cities Project we explain how smart buildings produce their own energy, absorb CO2 and emit oxygen.



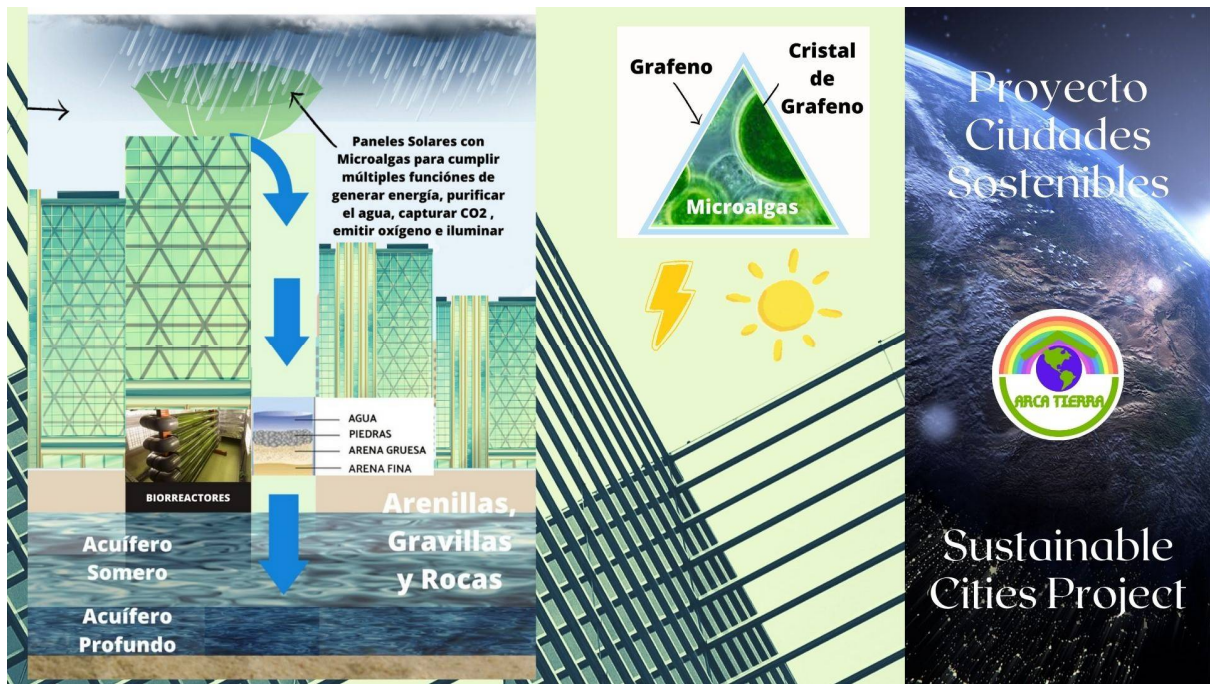
**EDIFICACIONES QUE
GENERAN ENERGÍA,
AGUA Y AIRE LIMPIOS**



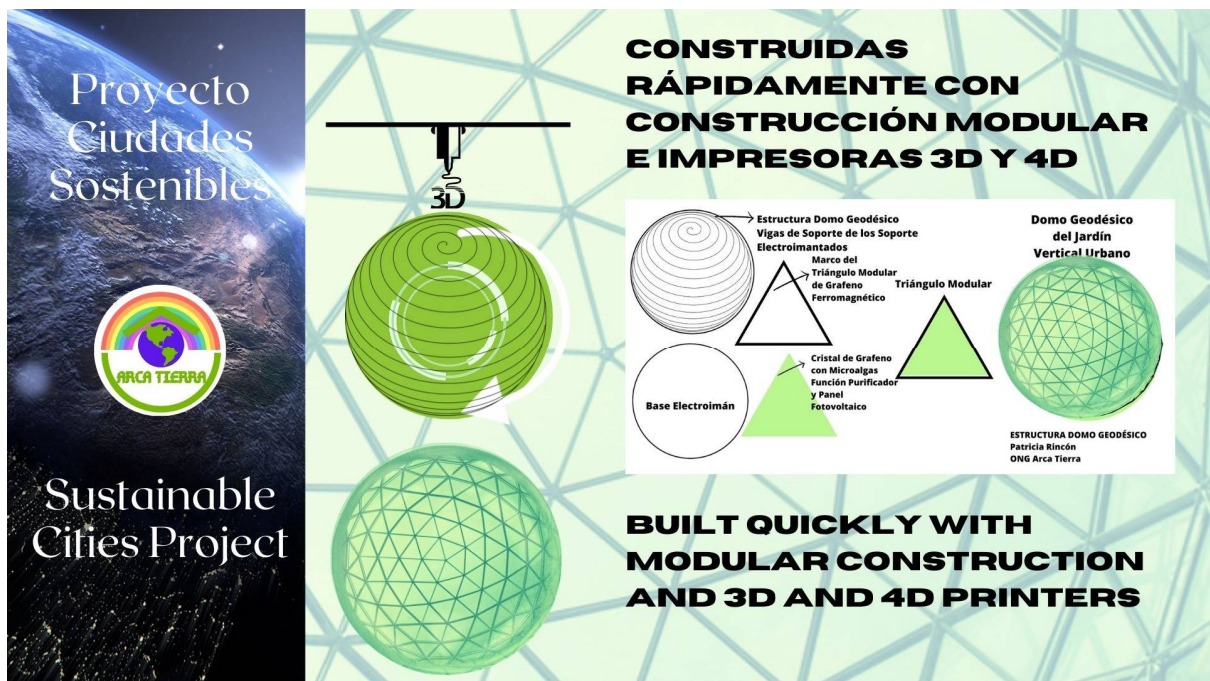
**BUILDINGS THAT
GENERATE CLEAN
ENERGY, WATER
AND AIR**

Below we mention how to allocate part of the tax collection so that citizens can access carbon neutral technologies for the generation of renewable energy, to provide comfort in their residences:

- Soft credits and / or subsidies for citizens who wish to replace hydrocarbons in the electricity supply of their homes and / or replace their fossil fuel cars with electric cars, being an advantage for obtaining this class of vehicles to have a source of clean energy in their homes. In this case, the NGO Arca Tierra proposes to remodel buildings to make them smart, to generate renewable energy, absorb CO2 and emit oxygen, for air quality (See buildings in our [Sustainable Cities Project](#)).



- Soft credits and / or subsidies for the installation of heating and / or cooling systems that work with renewable energies and reduce electricity consumption.
- Soft credits and / or subsidies for the construction of new smart buildings that absorb excess CO2 and emit oxygen, generate photovoltaic energy, have rainwater collection systems on the roofs and wastewater treatment systems through bioreactors in the basements. The NGO Arca Tierra has several models of smart buildings and rapid construction techniques through 3D printers and modular construction, which are explained in our [course # 3](#).



Through these recommendations, you will not make the huge mistake that has been made in the past, of using the collected carbon tax revenues to give to citizens to pay the expensive electricity bills from hydrocarbons, because of that Thus, CO2 emissions would never be reduced. The NGO Arca Tierra proposes that taxes be gradual and yes to finance and support citizens so that they pay less for electricity, but from renewable energy sources. In this way, the transition of the country and of civilization to the consumption of clean energies, generated in abundance and at low cost, will be promoted, its low cost does not represent losses for companies, on the contrary, it would increase the demand for electricity from renewable sources, which will have an impact on an increase in income, representing a win-win, win companies, citizens and especially the planet. In addition to the fact that citizens will have air quality, the rate of deaths and diseases due to air pollution would be reduced, since it is one of the main causes of death and disease in the world, mainly in cities.

2. Conservation of the Environment



KEY RESOURCES FOR CO₂ ABSORPTION AND SOLVING CLIMATE CHANGE

RECURSOS CLAVES PARA LA ABSORCIÓN DE CO₂ Y RESOLVER CAMBIO CLIMÁTICO

At least a third of the money collected from taxes on CO2 emissions will be used for the recovery and conservation of the environment, although this percentage will vary, initially for a set period of years, the highest percentage of the resources collected from taxes CO2 emissions will be allocated to incentives to create a sustainable economy, so that the supply and demand of renewable energies can grow, for the reduction of CO2 emissions and nations can reach their quotas of the Treaty of Paris; This percentage will gradually decrease as human activities make the transition towards sustainable development, reaching 30% for a sustainable economy, 30% for containing natural disasters and 40% for environmental conservation. environment, later with the transition of all cities towards sustainability, the percentage allocated to the conservation of the environment will gradually increase to 60%, 70% until in the end almost everything will be for the conservation of the environment, but always A percentage will be maintained to be invested in the continuous improvement of products, processes and technological innovation for the generation, storage and supply

of renewable energies, to invest in those technologies that improve the quality of life with neutral carbon and sustainability.

The Ministries of the Environment must ensure the recovery and conservation of natural resources, the way to do it effectively is through an organizational model that integrates all sectors of society, a department of natural resources designed for the conservation of the environment. , solution to climate change and containment of natural disasters, which can influence all human activities for their transition towards sustainability, through quality standards, which merit continuous supervision and advice so that the business and residential sectors reach them, the How to achieve this is explained by the NGO Arca Tierra in its [course # 5 Organization and Models of Cities for Sustainable Development](#). Each country would place greater emphasis on the recovery and conservation of natural resources that they contain in their territory, for example, Chile has mainly forests and its great responsibility to the world is the task of conserving glaciers, both for the conservation of ecosystems, balance of temperatures in the atmosphere and the terrestrial or polar axis. Due to the great responsibility of conserving glaciers to prevent sea level rise, reduce global warming and conserve the Earth's magnetic field in the face of great economic interests in the exploitation of resources in areas where glaciers are found, for the mining and hydrocarbon extraction, it is important to use part of the taxes on CO2 emissions so as not to exploit these places and conserve them, now it is more important than ever, because they found oil and gas reserves near the Chilean Antarctic. Therefore, it is necessary to establish a monetary value per hectare of glacier to conserve, in relation to global temperature, in this case if Chile conserves a certain number of glaciers, it would receive a certain annual payment, with which, the Chilean government would establish a budget for the recovery and conservation of glaciers, would cease all industrial activities that put them at risk and could finance sustainable economic activities, such as sustainable tourism, to promote sustainable development in surrounding communities, it could finance for example, aquaculture in the models of Vertical Gardens of Agriculture of the NGO Arca Tierra, which can produce large quantities of food in microclimates through aquaponics and process them to make them long-lasting, under any climatic conditions.

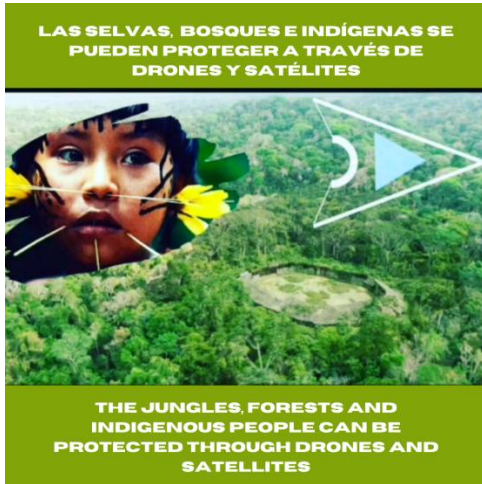


As well as, it could finance the construction of buildings or our sustainable cities models, we promote these activities as open innovation intermediaries, through our [Sustainable Development Program in Urban and Rural Areas](#) and in our [Sustainable Cities Project](#). Thus, despite not exploiting natural resources in the region, it will be able to improve the quality of life of its inhabitants through sustainable development and allocate

another part of the budget for advanced glacier surveillance and research systems for their conservation.

In the case of forests, Chile has approximately 14.41 million hectares, (19.04% of the national territory) are native forests and 3.08 million hectares correspond to forest plantations, the National Forestry Corporation (CONAF) reported that Between 2013 and 2019, the area of native forest devastated by illegal logging amounted to 10,668 hectares, the most affected areas are Los Lagos, Ñuble and El Maule, the Association of Forest Engineers for the Native Forest, explains that the main causes of logging Illegal are the real estate expansion and the presence of groups that are dedicated to extracting resources for the production of firewood, a key fuel in southern Chile for heating. For these reasons, it is urgent to establish mechanisms to guarantee the surveillance and security of natural resources and the indigenous people who inhabit them. In these regions there are indigenous Mapuche-Huilliche communities, who for millennia have used trees in a sustainable way. A surveillance system, made up of drones and satellites, will make it possible to eradicate illegal logging, accompanied by sustainable development, that is, to support the availability of renewable energy and heating in those regions that use renewable energy sources, as they do. our models of sustainable buildings and cities, so that they no longer have the need to use firewood and integrate communities to sustainable development, educating and advising them on the development and use of new technologies to be used in their communities and learn from them the sustainable use of trees. Indigenous communities influenced by the interference of terrorist groups and dangerous international drug cartels, such as occurs in Araucanía, where terrorist groups and dangerous international drug cartels are taking over the territories close to indigenous communities, these criminals influence and they wave the flags of the indigenous people, to seize the territories, for these reasons emphasis should be placed on improving security for the protection of natural resources and indigenous people, in addition to the budget of recovering and conserving natural resources, it should be included in the budget surveillance and security, so that the quality of life of indigenous people can be improved with sustainable development with equal rights that implies without discrimination and with gender equity, through an organizational model and sustainable cities adjusted to the customs and culture of the indigenous people who inhabit them, advising them and integrating them to its construction, administration and operation, until by themselves they can continue conserving natural resources and their culture, with quality of life.

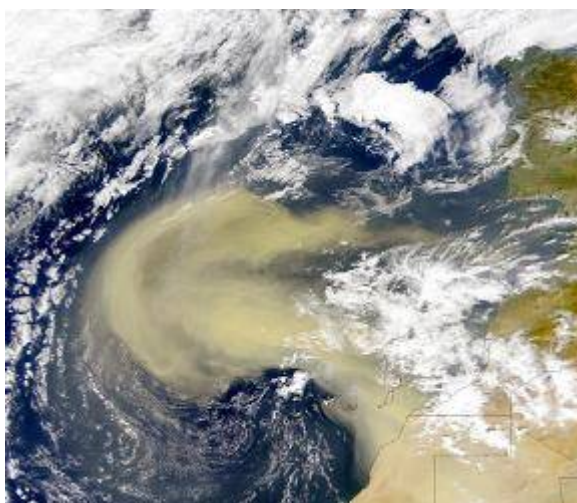
Apart from the necessary security so that natural resources are not looted and prevent terrorist groups or organized crime from taking over territories, forests and jungles face another great challenge, due to global warming, forest fires are increasing and they generate higher CO2 emissions into the atmosphere, aggravating the problem of climate change, putting natural resources and the population at risk. For these reasons it is necessary to use part of the budget to finance advanced systems for the prevention of these fires and their management, some recommendations can be observed in: [How to Protect Forreests of Fire Archive PDF](#)



These recommendations to prevent and control fires basically consist of the prevention and control of fires immediately before it spreads, with the establishment of satellite surveillance systems, using or improving the "Space Fire Management System" (SFMS) developed by Canada, which monitors and predicts the behavior of forest fires, based on 50 years of data and the variables that affect their propagation, such as meteorological conditions, temperature, humidity, wind direction, among others, which allows determine the risks of fires before they occur for their prevention and / or

predict the behavior of fires for their early extinction. This system can be improved with the Climate Prediction System and Planetary Simulator, an innovation proposed by the NGO Arca Tierra, we educate for its development in our [course Tools to Save the Earth](#), in which the use of drones is proposed for monitoring equipped with terrestrial laser beam sensors, called LIDAR, which can collect very detailed data on the health of forests and climate, to predict fire risks early.

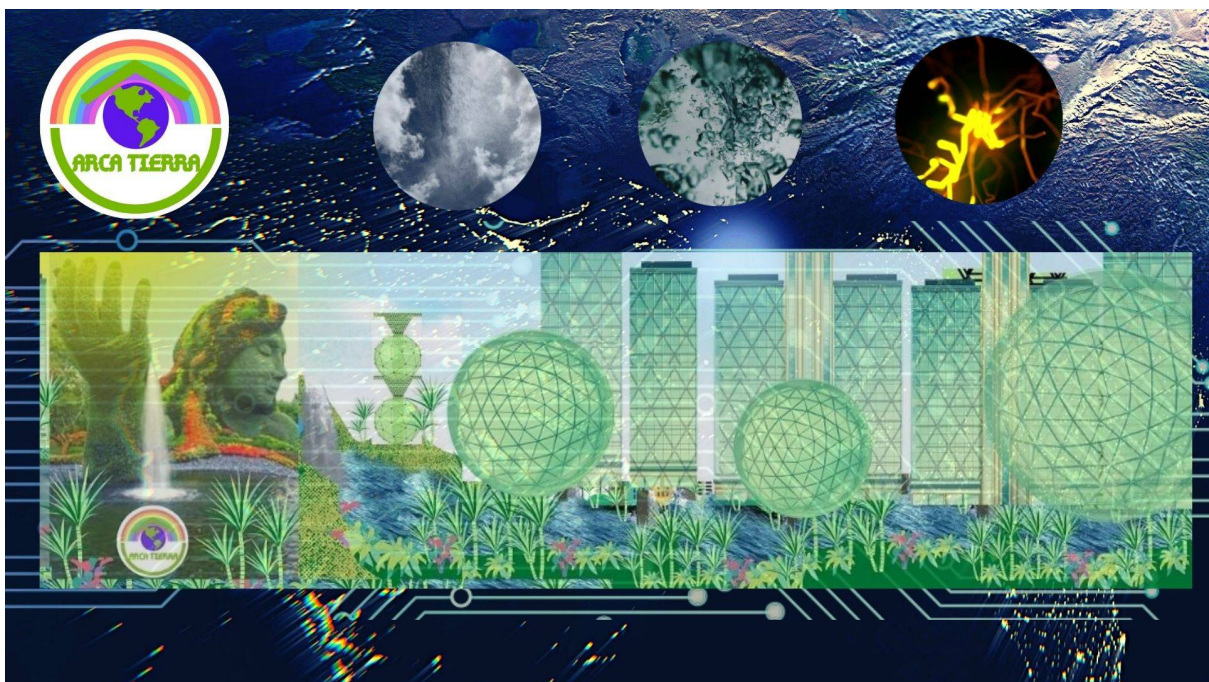
Once detected high temperatures and low humidity levels conducive to fires, industrial mist towers must be established, which would be activated remotely and automated, through humidity and temperature sensors that according to certain parameters are activated, To spread small drops of water in the form of mist to lower temperatures and increase the humidity of forests and jungles, the towers can be assisted by drones equipped with "The Water Dispersion Pump", a container that has the shape of a Soccer ball, inside it is filled with water and can be launched from the air, by means of a detonator it explodes and the released water is transformed into a fine mist, which covers a surface greater than the traditional bombardment with water and has the ability to absorb large amounts of energy from the front of the fire, which makes it more efficient, so if a fire source does occur, the drones will They can also turn it off immediately.



In the event of unpredictable intentional fires, these systems would be activated to put out the fire early, if it becomes uncontrollable and covers extensive hectares of forests, techniques that emulate sandstorms should be used, through bombardment of Fine sand with "Sandstorm Pumps", the sand being very fine creates a compact layer on the burning material, preventing oxygen from reaching the base of the fire, ceasing the chemical reaction until it is extinguished. We know from experience that to treat wise nature

the best inventions are those that emulate nature itself, so far the best method of putting out fires is "The Water Dispersion Pump" which emulates the mist. So, it is necessary to consider emulating the sandstorms that fulfill the function of cooling the planet, it is part of a planetary thermostat that drags CO2 to the depths of the oceans, the dust due to its high iron content reflects solar radiation and they cool the

atmosphere, reduce sunlight and tend to increase condensation that does not fall as rain but remains in the atmosphere cooling it and tend to suppress the winds; that is, it creates the climatic factors necessary to reduce the intensity of fires. Sand storms are capable of even preventing the intensification of cyclones, transporting the dust that feeds the phytoplankton of the oceans and depositing millions of tons of desert dust in the Amazon, in North America and in other regions, said dust provides important nutrients to the trees to grow leafy, according to Peru Commerce, based on a review in the Geophysical Research Letter magazine by Hongbin Yu of the University of Maryland For these reasons, recreating sandstorms in areas affected by forest fires can be considered to put them out and, incidentally, serve to fertilize plants and, if possible, carry away the vast amounts of CO2 released by burning trees, so that be buried in the oceans. It would be necessary to determine exactly the sand to be used, this can be similar to that of the Sahara desert, it must be fine, contain iron, phosphorus and possibly have calcium carbonate; white sand does not retain heat and can be walked on; The direction of the winds must also be determined so that aircraft and drones detonate sandstorms, of course, before the sandstorms are detonated, the population must be alerted so that they take the corresponding forecasts. For greater safety of the population, we recommend establishing protective barriers from forest fires in a determined perimeter for the cities through networks of surface aquifers, the NGO Arca Tierra in its [models of sustainable cities](#), for the generation, storage and distribution of renewable energies, We recommend a water battery, made up of networks of natural and artificial, underground and surface aquifers that can supply water for fire control, if these cities are in areas with high risk of forest fires, networks of surface aquifers should be arranged around the city, to serve as a protective barrier arranged in a system of ditches that prevent fires from reaching the city, in addition to the buildings that we propose in addition to absorbing CO2, emitting oxygen, generating photovoltaic energy and clean water, through rainwater harvesting and wastewater treatment They are built with materials and designs resistant to forest fires, sandstorms, floods and hurricane force winds.



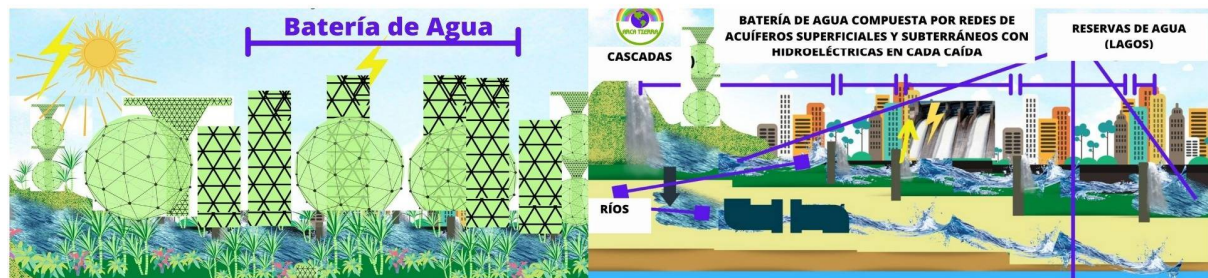
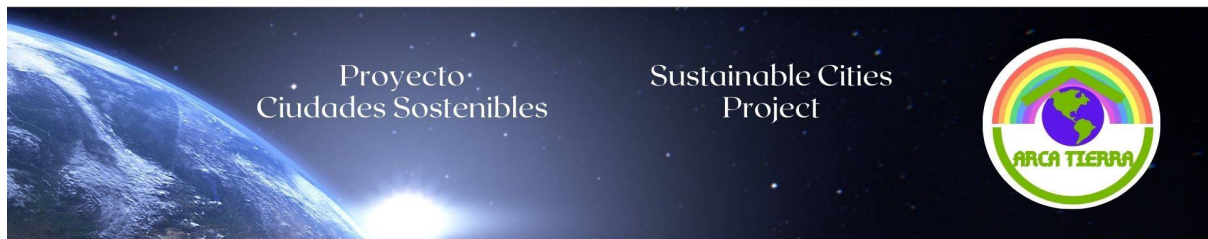
So, forests and jungles face many challenges, which requires significant investments for their conservation, ensuring security and sustainable development, despite the fact that natural resources are not exploited. Therefore, the emission of oxygen, CO2 absorption and water purification carried out by forests, jungles and mangrove forests must be monetized, for the survival of the planet and the respiration of humanity. This monetization will be global, established by the United Nations and supported in its implementation by continental and regional organizations, so that instead of being in claims, responsibility is taken, because it is very easy and fruitless to blame Brazil for not conserving the Amazon rainforest, which covers practically half of its territory, demand that they not cut down or exploit natural resources at the cost of poverty and hunger of Brazilians, when the Amazon rainforest is the lung of the world, so it is everyone's responsibility to promote and guarantee its conservation. If instead of just signs, Brazil were paid to conserve the breath of humanity, per hectare of preserved forest, this country could invest in the aforementioned for its conservation, protection of indigenous people and to ensure sustainable development in the Amazonia, of course, that this payment will demand the fulfillment of these obligations. And thus, the main forests and jungles would be conserved in the world, the prizes for the conservation of the environment, part of the taxes collected for CO2 emissions would be used to pay for the conservation of hectares of forests and jungles to be conserved.

3. Natural Disasters



A percentage should be allocated to containment, mitigation and reconstruction in the event of natural disasters, especially those consequences of global warming, and emphasis would be placed on prevention and not on action when it is too late to act. We have already seen the case of how to protect forests and towns from forest fires and it is giving priority to security, monitoring and fogging systems through industrial fog towers on the ground and drones, which would lower temperatures and increase humidity to avoid the fires and villages would be protected by being surrounded by a network of surface and underground aquifers of a water battery, which would store, distribute and generate renewable energy, in addition to ensuring the availability of abundant water,

without contamination, arranged in such a way that will facilitate an efficient management of water resources to avoid scarcity and floods.



In these cases, the three funds could finance this kind of projects, since they are intended for sustainable development, conservation of natural resources against forest fires and for the prevention of natural disasters.

In other cases, one, or two or all three funds could work together, for example, on islands or coasts, mangroves should be available on the shores and natural mangrove anticyclone barriers should be built to protect them from hurricanes and tsunamis, the way of We explained this in our [course # 4](#): in this case, the natural resource conservation fund and the natural disaster fund could finance projects of this nature. Continuing with the example of hurricanes, if a region in its risk atlas is threatened by tropical storms and hurricane-force winds, before a hurricane passes and destroys everything, its construction legislation should require anti-hurricane constructions, as well as there are anti-seismic construction standards in areas of earthquakes, so buildings and smart cities that resist these attacks of nature must be financed, just as the [sustainable cities](#) proposed by the NGO Arca Tierra do, in this situation, the funds from a sustainable economy and natural disasters will be able to finance projects of this kind. And so with other natural disasters, in [our course # 2 Tools to Save the Earth](#) we explain how to prevent climatic disasters, earthquakes and volcanic eruptions with efficient monitoring.

In short, the natural disaster fund would emphasize the prevention and mitigation of the consequences of global warming, for these cases, the funds of continental organizations and the United Nations would be very necessary to act in a fair and timely manner, because we see with horror as less industrialized countries are disappearing, that is, with few CO2 emissions, due to the rise in sea level and the countries with higher CO2 emissions do not do anything about it, then of the sanctions applied by the continents or the United Nations , a part of the resources collected will be to build marine cities or artificial islands, depending on the viability in relation to the environmental impact and geographical conditions, in the same way, other serious

consequences are floods and desertification, so it must be ensured that part of these funds are destined to finance works that avoid them, as we explained in our [course # 3](#).

This will be the Law of Awards and Sanctions for Air Quality, which will promote a sustainable economy and development for the effective reduction of CO2 emissions, the recovery and conservation of natural resources, the prevention, mitigation and reconstruction in the event of natural disasters.

Section 4

Oil Transition to Clean Energy Act



Description: Law that will promote and facilitate in a gradient and with reasonable times, the transition of the hydrocarbon and coal industries to be industries of sustainable activities, such as the production of renewable energies, which instead of polluting will absorb CO₂ from the atmosphere and from the oceans, through geothermal plants, solar plants with microalgae solutions; production of raw materials based on carbon and graphene, very useful for different industries, to replace products obtained from hydrocarbons, such as tires, plastics, among others.

Lecture 9 How Will the Fossil Fuel Industries Make the Transition?

Description: It explains how the transition from a smoky civilization of pollution to a hydrocarbon-based economy to a carbon-neutral civilization can be achieved in a dozen years and how its achievement and the protection of the environment can be promoted in the process.



Las industrias de carbón, gas y petróleo deben realizar la transición



The coal, gas and oil industries must make the transition

Legislation with legal force would be enacted so that the hydrocarbon industries and derivative industries engage in sustainable economic activities, related to their capabilities, considering their personnel, experience, infrastructure, equipment, location ... For this they will receive advice from the organization. of natural resources, from its section 2 Climate Change, in charge of the transition of all human activities towards sustainability, which integrates all sectors of society, including NGOs, for which the NGO Arca Tierra would be ready to provide advice to democratic nations, to effect the transition. We describe this organizational model in our [course # 5 Organization and Models of Sustainable Cities](#), which can work at the national, continental and United Nations level.

The investment capital to carry out the transition would be obtained by the hydrocarbon industries from their multimillion-dollar profits accumulated over long years, only in exceptional cases would the transition be financed. For example, in a town plunged into poverty because it was formed around a coal mine, which has been inactive for many years, the municipality or a company could request financing to transform the mine into a water battery, to generate Through hydroelectricity, renewable energies, store and distribute other renewable energies, so that a fossil fuel industry would become a generator of renewable energy sources, which will boost employment and sustainable development in the region.

The time and stages of the transition would be decided by the nations, according to their economic activities and according to the advances of the Air Quality Law, described in the previous section, which promotes the development of supply and demand for renewable energies, The idea is not to leave countries in the dark by stopping producing electricity generated by hydrocarbons from one day to the next, as happens in Venezuela, the criminal state destroyed the oil industry to steal everything and use their ships for drug trafficking, leaving the population in the dark, leaving millions in the shadows and with the right to restricted traffic without gasoline, which has generated thousands of deaths. Therefore, each country will carry out a plan so that in a period of no more than 12 years it will carry out the gradual transition. Although certain

countries refuse to establish a deadline, the continental organization and the United Nations would establish it, they will estimate the reasonable time for all nations to meet the transition deadlines. The way to enforce the deadlines is through the establishment of taxes on CO2 emissions to all nations by the United Nations, the taxes collected will serve to finance transition projects in emerging nations and above all to help those nations that a Despite their low CO2 emissions, they are the most affected by global warming, as large CO2 emitters still continue to cause the greenhouse effect. For example, in the case of Kiribati, which is disappearing due to rising sea levels, large CO2 emitters will have to finance the construction of dikes or sea or underwater cities so that the population of Kiribati does not run out of territory.



La Producción y Consumo de Combustibles Fósiles Destruyen el Medio Ambiente



The Production and Consumption of Fossil Fuels Destroy the Environment

Although the transitional law will establish a term of 12 years or less, depending on the country, the law will immediately cease all hydrocarbon activities in protected areas, such as regions where there are glaciers, jungles and forests. that serve as the lungs of the world and in the oceans, the Air Quality Law, ensures the way in which these regions will have a sustainable development despite the cessation of the exploitation of natural resources. Likewise, the exploration for the exploitation of hydrocarbons in protected areas or that cause a significant detriment to the environment, whether land or marine, will cease and the Safety, Hygiene and Environment (SHA) regulations will be improved for activities related to the exploitation of hydrocarbons in order to reduce the pollution produced by extractive methods and minimize the occurrence of spills. The oil industries that extract methane in their extraction processes will definitely cease their activities and will make their transition immediately, both methane available in the livestock industry and in the recycling of organic waste, make it totally unnecessary and harmful to extract methane, since It is 85 times more polluting than carbon dioxide, this is extracted by Fracking, it has been estimated that in an extraction between 4% and 8% of the gas produced into the atmosphere escapes. Like the activities of the offshore oil industry, its exploration methods with explosives that produce intense noise

to capture oil deposits through sound waves is killing marine life, according to a report by the Scientific Committee (CIB), due to Since oil exploitation puts marine life at risk, these activities will also transition immediately. Different environmental organizations demand that oil activities cease in the oceans, since they put the life of the gray whale at risk, which is essential for the survival of the planet, since they absorb large amounts of CO₂, more than forests and maintain the balance of marine ecosystems, so recovering the whales is essential to mitigate and solve climate change. They also urge the establishment of Marine Protected Areas (MPAs) immediately to prevent the extinction of whales, for example, in the northeastern Pacific only 100 gray whales survive.

Some cling to the hydrocarbon industries because they create jobs and economic activities, as if sustainable economic activities do not generate jobs and economic development, so this is not an excuse to continue destroying the planet and leaving living beings without breathable air. nor habitats to survive, what must be done is the transition towards sustainability, through a sustainable economy, where more jobs and quality of life will be generated, in harmony with the environment, guaranteeing the survival of present and future generations, because without planet or human life no job or economic activity can be carried out.

Class 10 Sustainable Activities for the Transition of Industries Related to Fossil Fuels towards Sustainability

Description: the main sustainable economic activities to which the industries related to fossil fuels can change are mentioned, which will improve their sustainable profitability in the future, in a future where the planet can continue to host life, due to the resolution of global warming.

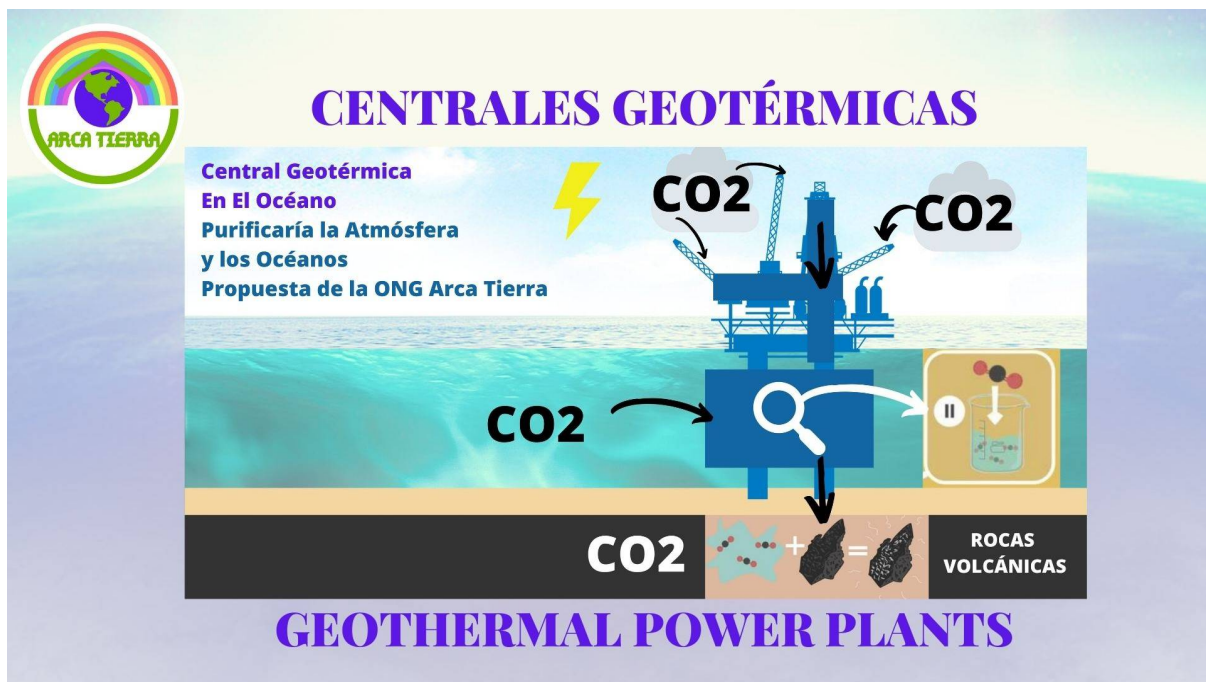


The transition is inevitable, the future is sustainability, new and new renewable energy technologies emerge that are lagging behind the unsustainable activities of hydrocarbons, in relation to profitability and better economic development. Many oil industries have faced the future, they have assumed the reality of global warming and the vision of generating renewable energy; many oil industries in the Middle East have been astute to see the need to invest in sustainable economic activities, so they invest in renewable energy, while others squander money in absurd campaigns to try to hide the sun with a finger, trying to refute The irrefutable, climate change is real, rather than investing for a sustainable future.

Science has shown the urgency of reducing carbon dioxide (CO₂) emissions into the atmosphere. If we do not reduce greenhouse gas emissions by at least 45% by 2030 and we do not suppress them by 2050, the planet's temperature will rise above 1.5 ° C, sea levels will rise, ecosystems will succumb and life as we know it now will change, becoming increasingly inhospitable to humanity and the living beings we know. For these reasons, sustainability is the future and without sustainability there is no future.

The following is a general mention of the sustainable economic activities that hydrocarbon-related industries can engage in. They may be other sustainable activities, and the fact that they are not mentioned does not mean that they are not viable.

- **Industries Related to Offshore Oil Exploration and Exploitation:** to solve global warming, in addition to reducing CO2 emissions, we must absorb billions of tons of CO2 from the atmosphere and oceans to solve acidification due to excess CO2, since by 2050 the extinction of marine life is predicted for this cause. Therefore, it is very important that oil platforms are adapted as geothermal plants, to absorb excess CO2 from the atmosphere and the oceans and that in the process they generate renewable energy, to make it a self-sustaining activity; This is feasible to do, in Finland there is a very profitable and efficient geothermal plant and scientists assure that most of the necessary volcanic rocks are found in the oceans, in addition to the fact that the oil industries have extensive experience in pumping systems in the depths to develop the geothermal plant industry in the oceans.



Another sustainable economic activity and another way to absorb excess CO2 and generate renewable energy is through graphene solar plants in the open sea, only that the panels must contain microalgae solutions, which through their photosynthesis process improve the performance of solar panels, in their photovoltaic energy generation process, the microalgae will serve to absorb CO2 and emit oxygen, since the algae in their natural process are not sufficient to reduce acidification, according to the International Union for the Conservation of Nature (IUCN), the oceans absorb 25% of the CO2 that is emitted each year on the planet and produce half of the oxygen that we breathe. Another, among many alternatives, is the different forms of generation of blue energies, renewable energies from the sea, although the NGO Arca Tierra recommends geothermal plants and solar plants, so that they also serve to solve climate change, in this way The oil companies would not only make the transition to be sustainable but also to be saviors of the planet, our Save the Oceans Program, is aimed at ensuring that these alternatives are used. In the lakes where oil is exploited, the viability of this activity should be studied, in the case of Lake Maracaibo, its fresh and salt water, would make the generation of blue energy very viable and other energies very feasible than in our strategic plan number [20 Energías Clean](#) we will promote its development.



BIO ENERGÍA EN TIERRA Y EN MAR

'Zon-op-Zee' Planta Solar Flotante de Holanda



Microalgas

BIO ENERGY ON LAND AND IN SEA

- **Hydrocarbons and Natural Gas Industries that Generate Methane:** due to their experience in extracting methane gas and producing energy from it, they must make the transition from being emitters of methane into the atmosphere, to being absorbers of methane to generate energy . This is extremely necessary, an article in the journal Nature of 2020, ensures that atmospheric methane is the cause of approximately 25% of



global warming generated by human activity and the main methane emitters are the oil and gas industry and later the rancher. Biogas is an alternative considered viable by many, various innovations have been generated around this Non-Conventional Renewable Energy (NCRE), the best ways to produce

methane-based energy is by removing methane from the atmosphere, a source of methane that does not Requires excavations comes from the livestock industry, methane is extracted from livestock manure and processed in Biogas Plants produce energy, heat and fertilizers. These plants can work from other organic materials that release methane into the atmosphere in their natural decomposition process, for example, in recycling industries, biogas plants can be integrated into waste sorting plants. The concentration of methane increases 1% per year, livestock production annually produces 115 million tons of methane gas, so environmentalists also recommend sustainable extensive livestock that maintains a level of production without harming the environment, which uses large extensions of land and develops within a natural ecosystem; It requires little energy and maintenance, since it contributes to the conservation of ecosystems, both in biodiversity and in plant cover.

- **Refineries and Petrochemicals:** in addition to emitting CO₂, refineries generate toxicity in the air, water and soil, by processing oil to produce derivative products, mainly for fuels and plastics. Due to the installed capacity of refinery equipment and infrastructure and the expertise of the staff in polymers and chemistry, it would be a waste if they were not reformed for different possible sustainable uses.

The generation, storage and distribution of renewable energies for the operation of sustainable smart cities and for the 100% electric transport of renewable energy sources, is explained in our [Sustainable Cities project](#), if you take a look at the buildings and technologies that will make a viable carbon neutral civilization, you will know what raw materials to produce to replace oil and its derivatives. These refineries could be adapted to be Graphene Plants, which through the flash process developed by Rice University in the United States, graphene can be produced on a large scale from plastics, tires, coal, organic waste, among others; in the process oxygen, hydrogen and other gases useful for other industries or for the generation of energy for the self-sufficiency of the plant are released. Our [course # 3](#) explains the operation of a factory of modular pieces of graphene glass, graphene in alloy with steel, which will be used to build buildings capable of generating photovoltaic energy, absorbing CO2 and emitting oxygen.



PLANTA DE GRAFENO GRAPHENE PLANT




PROCESO DE FABRICACIÓN DE LÁMINAS DE CRISTAL DE GRAFENO PARA DAR ESTABILIDAD AL MATERIAL
Patricia Rincón ONG Arca Tierra



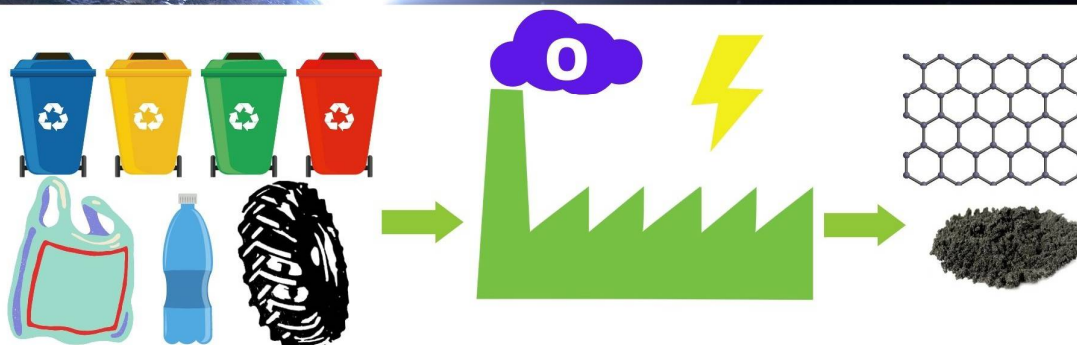
PRODUCCIÓN A GRAN ESCALA DE PIEZAS MODULARES TRIANGULARES QUE FUNCIONAN COMO PANELES SOLARES PARA LA CONSTRUCCIÓN DE EDIFICACIONES SOSTENIBLES

LARGE-SCALE PRODUCTION OF TRIANGULAR MODULAR PIECES THAT WORK AS SOLAR PANELS FOR THE CONSTRUCTION OF SUSTAINABLE BUILDINGS

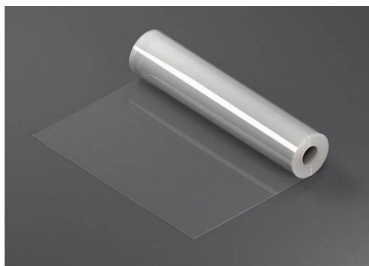


Sustainable Cities
Project

Proyecto
Ciudades Sostenibles



Another very viable alternative is to adapt refineries to produce substitutes for plastic, from algae an infinity of variables can be developed to replace plastics, a pollutant that takes hundreds of years or a thousand years to degrade and is killing marine life, 300 million tons of plastic waste produced per year around the world, about eight million end up in the sea and despite policies to prohibit or reduce the use of plastic and for it to be reused, the production of plastics continues to increase, so there is a need to completely replace it with compostable packaging, by biodegradable materials that are harmless to the environment, called bioplastics, which do not use oil and degrade rapidly, these can be produced in such a way that current industries of plastic do not have to change their machinery to produce their substitutes, as the Spanish company Oimo has achieved, between e other laboratories around the world that have managed to produce bioplastics efficiently from algae, such as Tel Aviv University, developed a bioplastic and biodegradable polymer from organisms that feed on algae which makes it biodegradable, with zero toxic waste and fully recyclable; produce polyester that can be used to make clothing, footwear, containers, bottles ... The Biotechnology laboratory at the University of San Martín, Argentina developed a biodegradable glass, the British company Skipping Rocks Lab, founded by young scientists from that country together with French and Spanish, have manufactured bioplastics to replace containers and plastic bags for hydrocarbons.



EL PLÁSTICO DE OIMO ESTÁ CREADO A BASE DE ALGAS, AZÚCARES Y ACEITES VEGETALES. OIMO'S PLASTIC IS MADE FROM ALGAE, SUGARS AND VEGETABLE OILS.



**BIOPOLÍMEROS UNIVERSIDAD DE TEL AVIV
BIOPOLYMERS TEL AVIV UNIVERSITY**



**VASO BIODEGRADABLE, DE EXTRACTOS DE ALGAS UNIVERSIDAD DE SAN MARTÍN, ARGENTINA
BIODEGRADABLE GLASS, MADE OF ALGAE EXTRACTS, UNIVERSITY OF SAN MARTÍN, ARGENTINA**

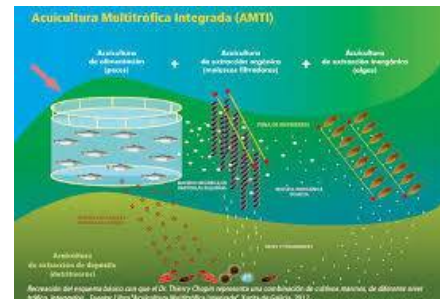


**EMPRESA BRITÁNICA SKIPPING ROCKS LAB, FUNDADA POR JÓVENES CIENTÍFICOS DE ESE PAÍS JUNTO CON FRANCESES Y ESPAÑOLES, HAN FABRICADO BIOPLÁSTICOS PARA SUSTITUIR ENVASES Y BOLSAS PLÁSTICAS DE HIDROCARBUROS.
BRITISH COMPANY SKIPPING ROCKS LAB, FOUNDED BY YOUNG SCIENTISTS FROM THAT COUNTRY TOGETHER WITH FRENCH AND SPANISH, HAVE MANUFACTURED BIOPLASTICS TO REPLACE PLASTIC CONTAINERS AND BAGS FOR HYDROCARBONS.**

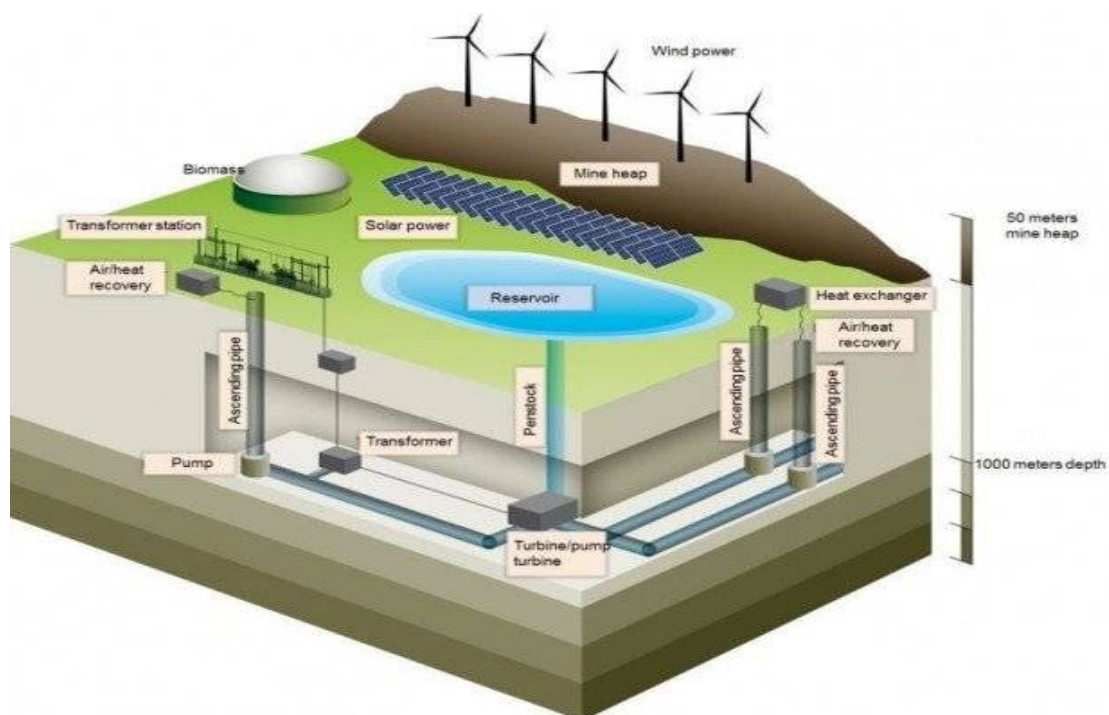
Algae can be grown sustainably as a raw material to obtain biodegradable bioplastics, this facilitates the transition from petrochemical to ecological chemistry. Algae can be grown sustainably and generate marketable by-products, through integrated multitrophic aquaculture systems, the use of algae as a basic component in the production of bioplastics offers several environmental and economic advantages. Many oil companies, despite the high costs of producing oil, to reduce their losses and offset the decline in the consumption of fossil fuels, are betting on investing in petrochemicals to produce more plastics, such as ExxonMobil, Shell and Saudi Aramco companies are multiplying its plastic production; Well, let me tell you that plastics go to the sea but your money goes to waste, because the future is sustainable, the European Union and many nations of the world are moving towards a total ban on the use of plastics, invest

that money in building plants of bioplastics, thus they will not have losses, they will obtain greater profitability with less investment and capital recovery in a shorter term. In the same way, they can manufacture tires from algae and graphene, which will have a high resistance and will avoid the waste of millions of tons per year of tires.

-Oil Storage Tanks: the oil industries have invested in millions of tanks to reserve crude oil, these could be adapted to produce and store algae and or microalgae solutions, for different industrial uses. (Image of Integrated multitrophic aquaculture systems).



- Coal Industries: abandoned or in-use mines can be adapted as water batteries for the generation and storage of renewable energy, for example, Germany will no longer operate any coal mine and the abandoned mines will be used for energy development renewable in the country; The 50-year-old North Rhine coal mine will be converted into a 200 MW pumping hydroelectric power station that will store excess energy from solar and wind, and will generate electricity when there is neither wind nor sun, it will be able to produce 200MW of energy, to sustain up to 400,000 homes, mixing different technologies to ensure that there are no cuts in the supply of light through the generation of photovoltaic and wind energy, for when these two sources of energy fail, they will use the passageways of the mine to launch water, run it through turbines and generate electricity, which will also serve to store excess energy.



If active coal mines are found, these could divert the coal produced to the Graphene Plants, of course, avoiding its use for burning, since according to the Green Peace report

"The Dark Side of Coal", the burning of coal generates 45% of CO₂ emissions, is the main cause of CO₂ emissions worldwide, causing climate change, it is responsible for 40% of sulfur dioxide emissions and 15% of nitrogen oxides and particles. Similarly, active mines must establish a reasonable period of time to transform into a water battery, ensuring the recovery of the affected environment and the excavation of new coal mines would be prohibited, since open-pit mining destroys entire mountains, forests and causes the plant cover to be lost, which also impacts the hydrological cycle. After its extraction, the coal is washed with water and chemicals to eliminate impurities, the resulting coal sludge is not well stored, sometimes there are leaks that contaminate the surrounding territory. Many coal industries are currently transitioning to renewable energy generation, especially in Europe, where taxes on CO₂ emissions make environmental pollution very costly.

With these and many other options, the hydrocarbon-related industries will be able to make the transition, from being polluting to being solvers of climate change, ensuring that workers receive the necessary training to make the transition together with the company, thus the transition it will not generate layoffs or unemployment, on the contrary it will improve the qualification of the workforce and they will be sources of more and more jobs, to contribute to sustainable development where they work.

Section 5

World Environmental Protection Treaty

Description: it will explain what the World Environmental Protection Treaty consists of and how to establish the amounts of natural resources that we need so that flora, fauna and humanity can survive, to guarantee at least the respiration of generations until 2,050.



Class 11 World Environmental Protection Treaty

It consists of a treaty to be concluded by the United Nations, by its Department of Natural Resources ([organizational model proposed by the NGO Arca Tierra](#)), and the Intergovernmental Group of Experts on Climate Change (IPCC), to assign to each nation and continent the natural resources to conserve with precision, especially those that serve as the lung of humanity and balance the temperatures of the planet to conserve the life of flora, fauna and humanity.



The way to determine the essential natural resources for the survival of life on the planet, many scientists have already established, such as: water sources, jungles, forests, mangrove forests, wild flowers, ocean marshes and algae, glaciers and certain amounts of deserts to maintain temperature balance. The amount and location of the natural resources to be conserved could be determined by the [Climate Prediction System and Planetary Simulator](#) proposed by the NGO Arca Tierra, or alternatively, use the current methods of monitoring the emission and absorption of CO₂ from NASA or the planetary simulator to be developed by the European Union, with its Destination Earth project.

The selected natural resources to be conserved must guarantee the respiration of future generations until at least 2050, they may not be exploited under any pretext and their conservation will be financed through greenhouse gas taxes, as explained in the Quality Law. del Aire, in section 2 of this book.

In addition to establishing the natural resources to be conserved, it should be stipulated how to conserve them, for example, if the conservation of the oceans is addressed, to prevent marine life from disappearing in 2,050, the executive council of the Department of Natural Resources should ask itself what we must do? Then it would establish, conserve marshes, algae and marine ecosystems within the pact, for which it must require that urban and industrial wastewater be treated and endowed with the appropriate levels of salinity and nutrients before being discharged into the sea, it will postulate through of a schedule that cleans the oceans, the mangrove forests to be conserved and the mangrove barriers to be built would be established, it would prohibit the use of pollutants that threaten marine ecosystems, it would legislate industrial, shipping and marketing activities in the oceans, to reduce their environmental impact.... The NGO Arca Tierra proposes in its [Sustainable Cities](#) and [Saves the Oceans](#) projects, the way to achieve these activities in a self-sustaining and profitable way for the generation of a sustainable development and economy. In this way I would do it with

each element of nature that make up our planet, starting with the essentials, since they all interact to make life as we know it now.

This treaty is necessary to save the planet, even if the previously explained legislation has already been implemented, because even if we reduce greenhouse gas emissions and absorb excess CO₂ from the atmosphere, but we continue to pollute water reserves, destroying jungles or forests, we still The salvation of life as we know it now would not be guaranteed. We can confirm this with facts, the NASA Orbital Carbon Observatory-2 identified that the tropical forests in Peru are the ones that retain the most carbon on the planet, about 6,000 million tons, Peru had to exploit these natural resources to produce goods and gas, oil and agriculture services for the economic well-being of its population, but preserving these forests would prevent that carbon from returning to the atmosphere, if CO₂ were cut down it would negatively impact global temperature and the respiration of all beings on the planet , plus countless species would be lost. Despite pressure from citizens and NGOs, they were going to be destroyed, until, at the last minute, the Government of Norway promised to contribute 266 million euros to prevent their deforestation. The NASA monitoring action, the citizen pressure and the contribution of Norway, which made it possible to save the forests of Peru, are plausible, but if we had not had that luck, what would have happened? So, the survival of the planet and the breathing of humanity cannot be left to chance, because the responsibility of the planet belongs to everyone and to assume it the World Environmental Protection Treaty is necessary.

In addition to establishing what, how much and where to conserve, it must be stipulated how much and where to recover, the [Climate Prediction System and Planetary Simulator](#), will allow us to establish it, especially of the natural resources crucial for air quality, the Funds of the Department of Natural Resources explained in our course # 3 Organization and Models of Sustainable Cities, would facilitate the realization of these activities, this is crucial because by guaranteeing the recovery and conservation of natural resources we would be guaranteeing the survival of human beings.

The treaty should be accompanied by a Universal Declaration of the fundamental duties and rights of nations with the environment, in short, a declaration of environmental rights, in which it will be essential to ensure the availability of fresh drinking water for the consumption of living beings. This treaty will help us all to assume RESPONSIBILITY for our natural resources and the planet, I recommend that you involve the integrated resources in our organizational model of the [Department of Natural Resources](#), in its Natural Resources Section.

And it must contain maxims of action in the face of the transgression of this treaty, now we see how Russia and China cross their fingers to continue the thaw of the Arctic, to exploit hydrocarbons, of course, in addition to crossing their fingers, China and Russia maintain the highest indices of CO₂ emissions from the world and Russia fragments the Arctic ice to facilitate the thaw, they even have the largest nuclear icebreaker ship in the world, in case someone dares to prohibit them, they have 15 ships that transport liquefied gas to Asia through the ice. The polar and glacial ice must be protected, in addition to the increase in sea levels, the release of methane and other gases contained in the ice, would unleash atmospheric catastrophes and it may be that so many efforts to conserve the breath of present and future generations will be In vain, and what is worse, it can trigger earthquakes, since, it has been scientifically proven that the loss of large pieces of ice produce telluric movements, the loss of polar ice can result in the

destabilization of the Earth's axis, which would affect the rotation, translation, generation of the magnetic field and perhaps in the worst case, we will run out of magnetic field or atmosphere and all because some nations want to dominate the world economy. This is a clear example of why natural resource preservation maxims should be established and the Transitional Law will stop a hydrocarbon-based economy from destroying the world.

These 4 Management Policies will allow humanity to survive and survive well, with an economy and sustainable developments, in democracies, with human and environmental rights, the salvation of the Earth from climate change and guarantee the life of the planet and of future generations. The NGO Arca Tierra offers its [open innovation advisory](#) services to carry them out.

Come on world, there is so much to do! And each of us must take responsibility to save the planet and humanity.