



Power Of DIGitalization in fighting against climate change

Work Package n. 2 | 2° LTT's
Burdur (Turkey) | 15/19 May 2023



Italy

Istituto Comprensivo Lodi
2° "Giovanni Spezzaferri"



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Luca, Dario, Luca, Matteo



We are students of a Comprehensive School in Lodi, a town close to Milan.

We attend the third year of our Secondary school and we are 14 years old.

We like working and find solutions for a better environment

Our work



We used Scratch program to create a game.

The main character of the game is **SUPER BOBO BIO** who is a school keeper cleaning the world.

The game is divided in 3 parts that represent different natural environments:

THE SEA, THE LAND, THE AIR

Our work



We have created all the sprites and all the backgrounds by ourselves and of course Super Bobo Bio too! To create him we have inspired by Super Mario.



Our work



In each environment, **SUPER BOBO** has a task:

- To clean the place:
- level 1 is the sea;
- level 2 is the land;
- level 3 is the air.
- Final level with the BIG Boss

It's in increasing difficulty

Our work

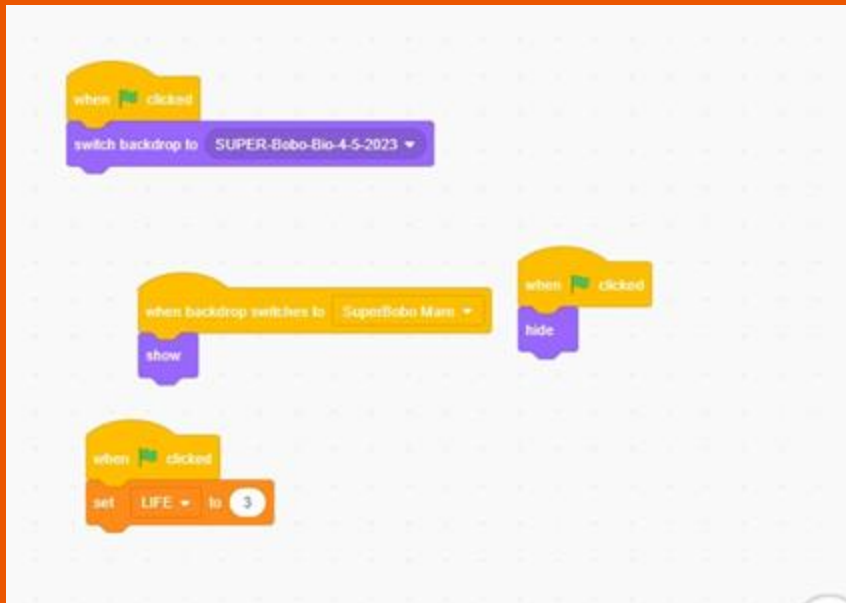
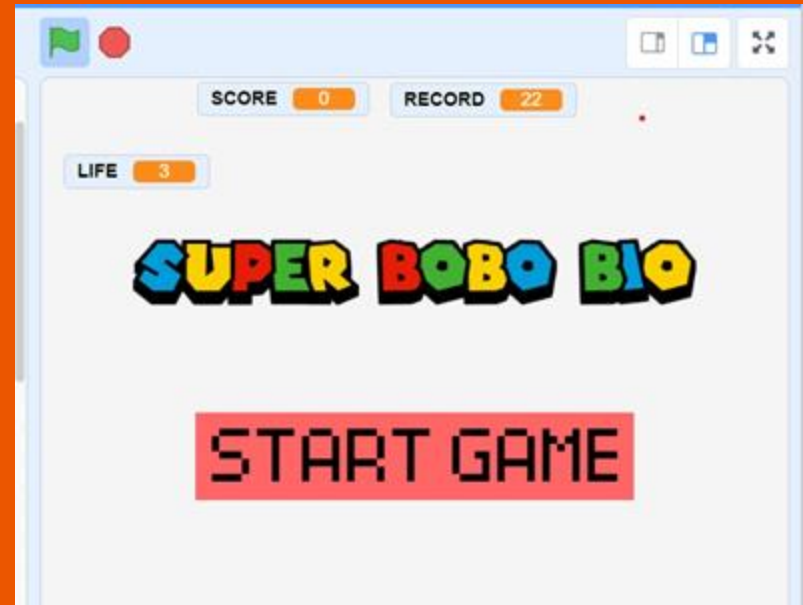


You pass from a level to another by reaching a certain score.

Finally, at the top, we get a cleaned world.

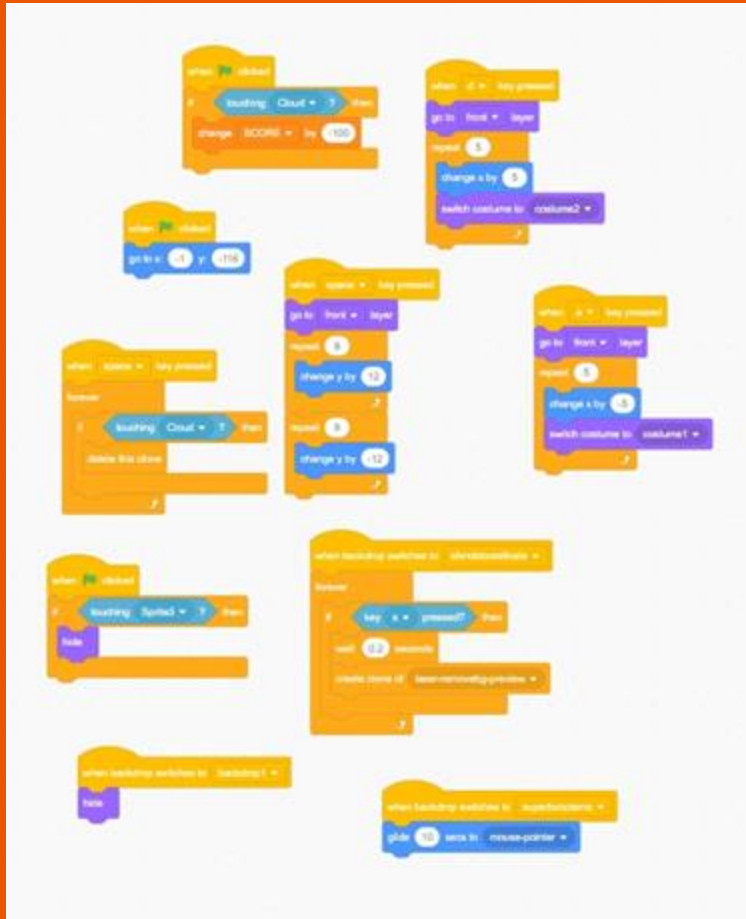
This game is an educational game and it teaches the children too ... how to clean the world ... enjoying at the same time.

Our work



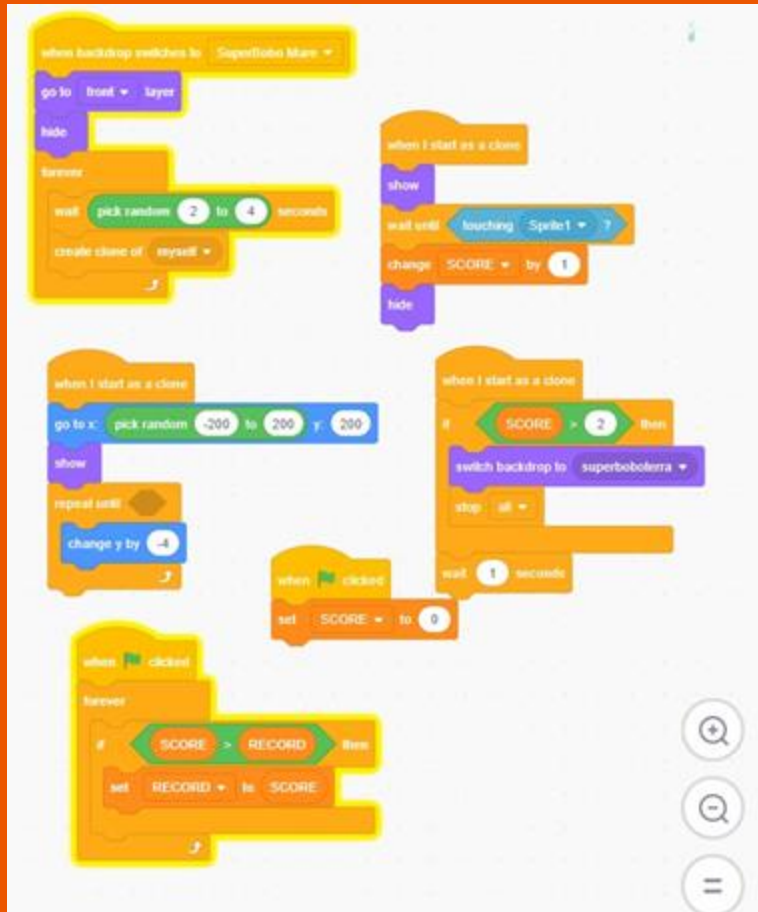
For the start page we made a background with Super Bobo .
Also we add a spire for made the game start

Our work



This is the code for Super Bobo, we added some commands for the movement and to make the sprite shoot.

Our work



There are the codes that we used for the bottles; we added a code for the score and one for the record too.

Our work



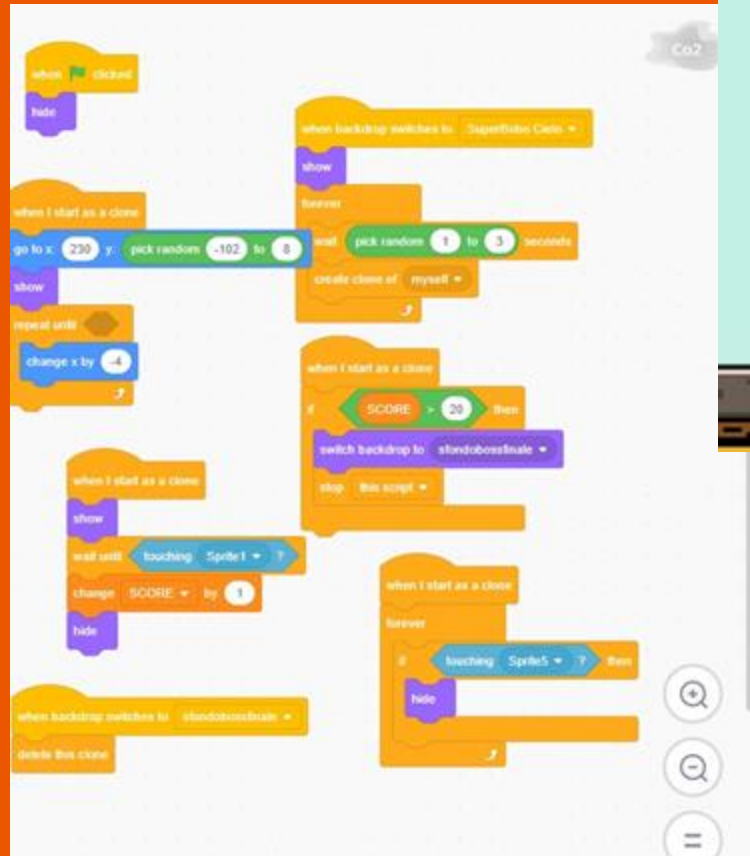
This is the first level set in the sea.

Our work



These are the codes for the plastic bags that Super Bobo has to take in the second level.

Our work



Here is the third level where Super Bobo has to clean the sky from the Co2's clouds.

Our work

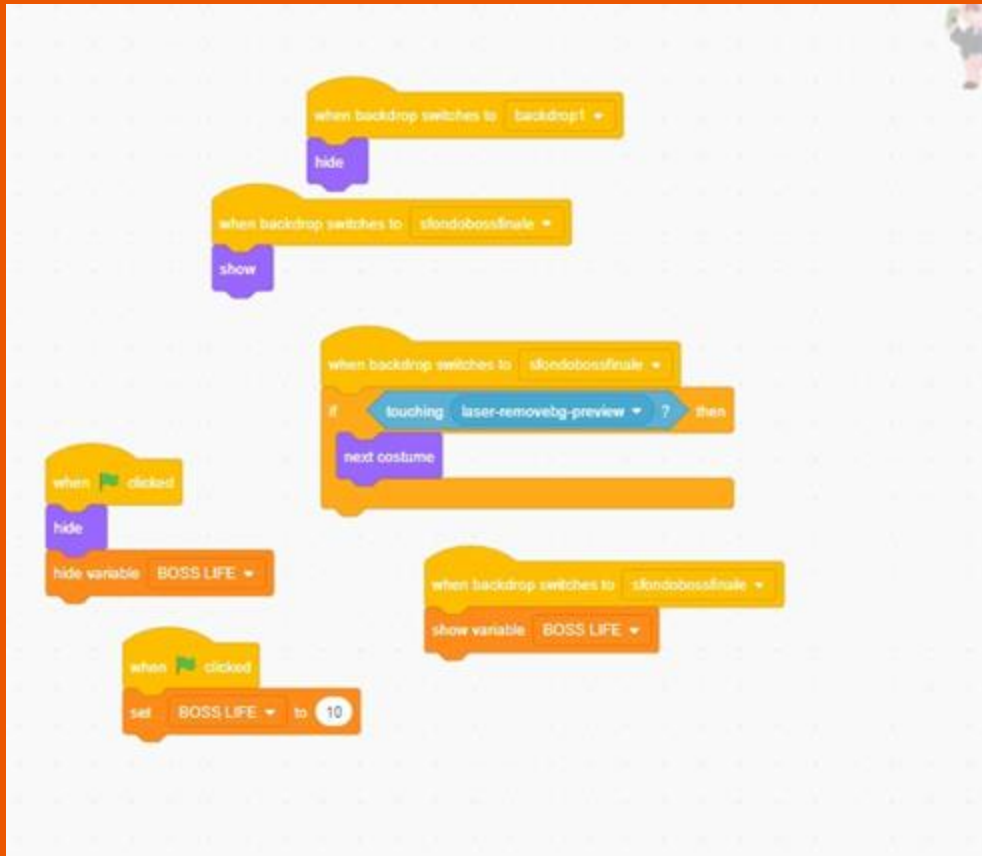
```
when I start as a clone  
show  
go to Sprite1  
point in direction direction of Sprite1  
go to back layer  
repeat until touching edge or touching portone-retrovog-preview  
move 25 steps  
delete this clone
```

```
when I start as a clone  
wait until touching portone-retrovog-preview  
change BOSS LIFE by -1  
hide  
when I start as a clone  
if BOSS LIFE = 1 then  
switch backdrop to backdrop1
```



This is the final level: Super Bobo has to shoot to the boss to eliminate him.

Our work



These are the codes that we have used for the boss.

Our work



Here are the codes for the variables and to make the boss disappear when he reaches zero lifes.

YOU WIN

thank you for playing this game

This is the final screen: it says you won the game!

Our work

After our educational game, we are going to show you our poster created by CANVA

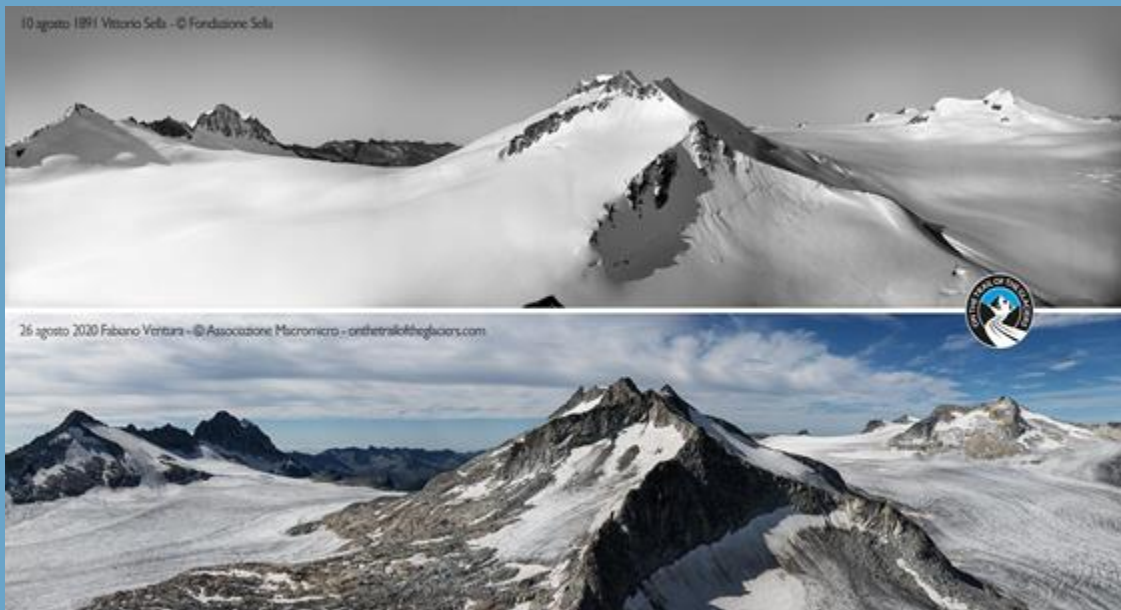
We would like to talk and show you the melting glaciers of the **Adamello**, a mountain chain in the Alps, just close to the area where we live.

Our work

Due to global warming, Italian glaciers have reduced by 40% in less than 50 years

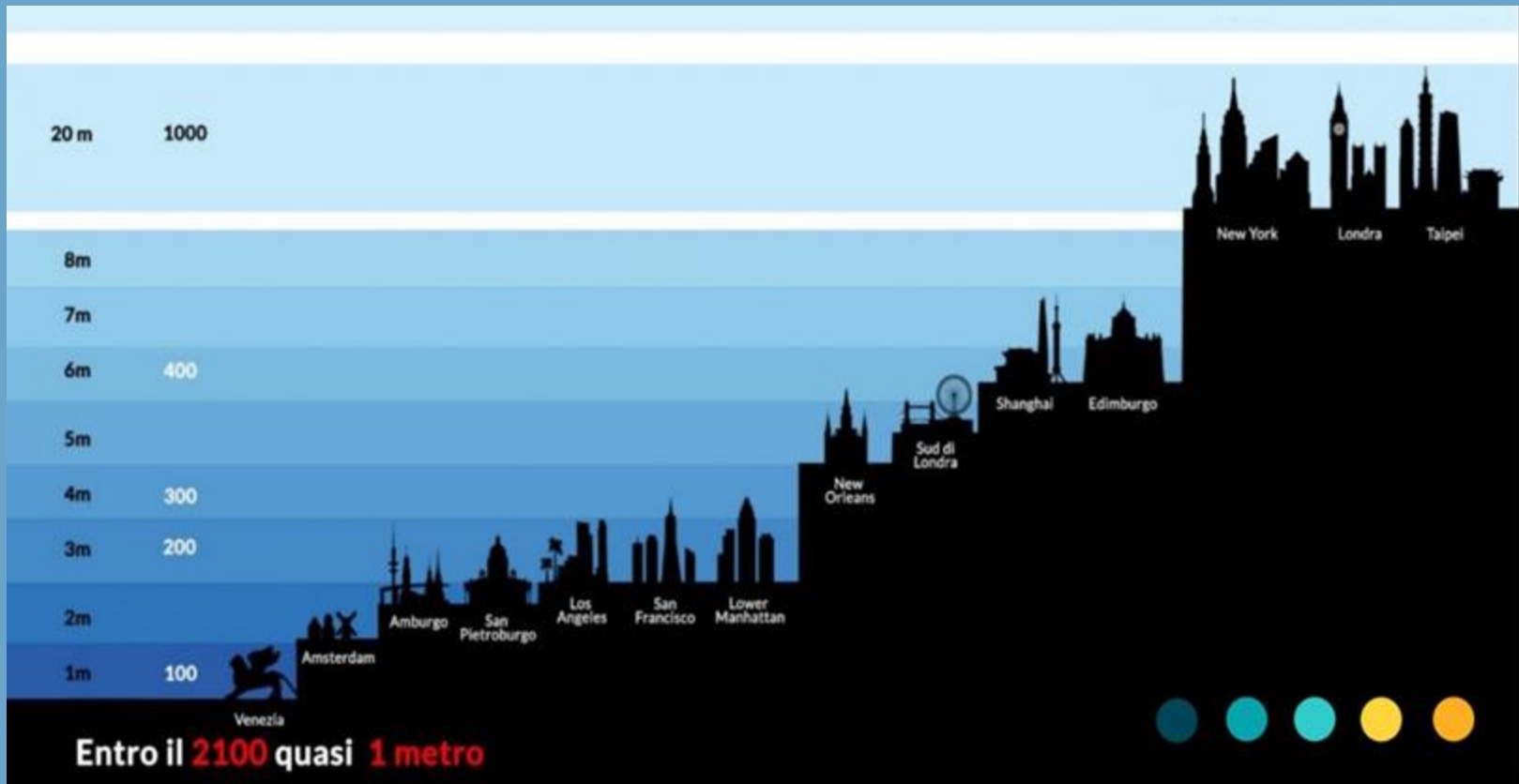
Glaciers are the reservoir of fresh water during the summer and dry seasons, therefore essential for agriculture and industry; moreover, the melting of the ice contributes to the increase in sea level,

“on the trail of the glaciers” ; is a photographic-scientific project that combines photographic comparison and scientific research in order to disclose the effects of the climate changes thanks to the observation of the variations of the glacial masses in the last 150 years.



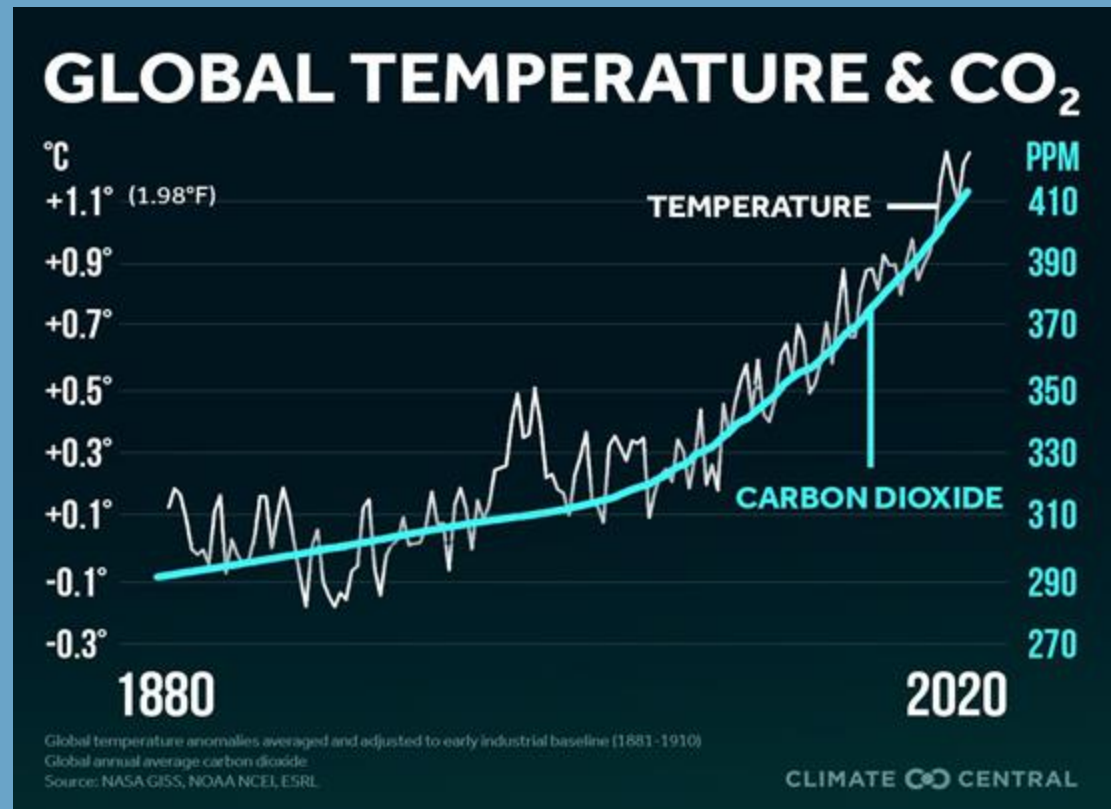
In this picture, you can see the comparison between the glacier closest to us (Adamello) in 1891 and in 2020: we can see the loss of ice surface.

Our work



Our work

The global warming is due to the increase in atmospheric CO₂.



Levels of interventions



Policies:

197 countries signed the 2015 Paris Agreement, we need to contain the global warming below 1.5° by 2050.

Governments must commit in actions aimed at reducing emissions.

Levels of interventions



the individual citizens

each of us must adopt a more sustainable lifestyle, starting with the little things of each day (do not waste

water and energy, use public transport or bicycle, food waste sorting, recycle and reuse as much as possible).

CARBON DIOXIDE REMOVAL PROGRAM



CDR refers to the human activities that capture CO₂ from the atmosphere and permanently store in geological, terrestrial or oceanic reserves or in products beyond the natural process of CO₂ absorption.

Carbon Capture and Storage

Another possibility is offered by the CCS, Carbon Capture and Storage or capture and storage of fossil fuel combustion fumes.

For example: one of the possible destinations is to mineralize it in the subsoil as it happens in Iceland, where the largest system in the world went into operation in 2021.



It's called ORCA and it is consisting of fans that draw in air and separate the CO₂ present in the atmosphere then conveying it to over 1000 meters deep in the ground where there is the process of mineralization.

“If the ice disappears, our history disappears”

The explorer Alex Bellini took a challenge:
the crossing on foot of the largest glacier in Iceland, the Vatnajökull glacier.



Alex Bellini says:

If the ice disappears, our history disappears. There is a problem that prevents people from taking a stand position towards the environment, that is the separation between their actions and their consequences. The further the consequences are from the actions, the less you perceive the problem as urgent and taking responsibility is difficult.



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we can... but ... only together



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