



Natco High School

LET'S FEED SOIL



Team members:

- 1.J Sai Priya
- 2.A Vaishnavi
- 3.V Hasini
- 4.G Manshi
- 5.M Aravind
- 6.R Varnith
- 7.Afreen Bgum
- 8.N Geethika
- 9.S Sai Snithik
- 10.M Granthik



Facilitators



Mr. J Srinivasulu
Mrs. P Hari Kumari

Mentor Coaches



Mrs. Padma Sanampudi
Mr. David Gilson

A presentation by Team N.H.S -2

PROJECT DESCRIPTION

- In our school cleanliness staff are collecting dry leaves in the campus and burning them. Due to which carbon monoxide gas emits. When we inhale that carbon monoxide gas, it is harmful to our health.
- In our school, the food is wasted by some of the students during the lunch time and is thrown in dustbin which attracts houseflies. So, We have planned to prepare a compost pit by using the dry leaves and food waste in a sustainable way.
- It helps farmers to do organic farming. This compost can be used in kitchen gardens, nurseries and Fields. This is a very sustainable way to do organic farming. It also helps to recycle the waste in an environment friendly way and also increases the air quality.





What Challenge does your Project Address?



Smoke from burnt leaves



Biker inhaling the smoke

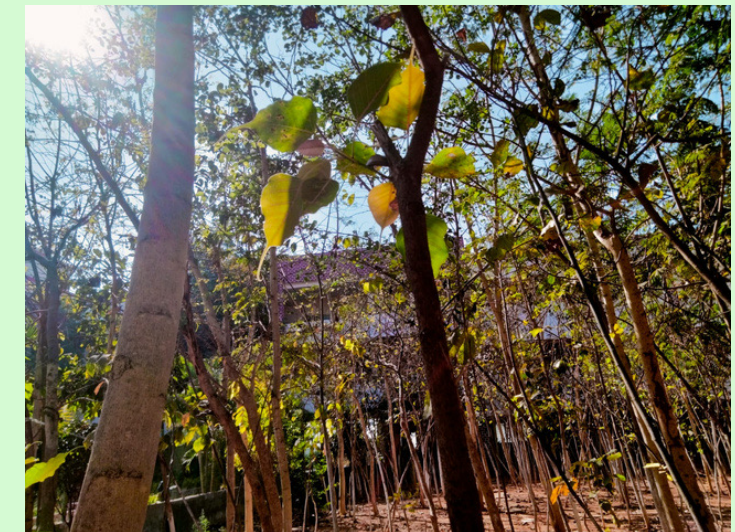
- We aim to stop the food waste by our friends and also stop air pollution which is caused by burning the dry leaves in our school.
- The food which is thrown in the dust bins attracts the house flies and leading to the diseases. Often our friends fall sick due to these flies.
- When the dry leaves are burnt, the carbon monoxide which emits from that makes our friends suffocate and causes breathing problems.



Dried leaves collected to burn



Ash of the dry leaves burnt



Dry leaves falling from trees in our school



Why did the Team select this topic?



- 🌿 To save the environment
- 🌿 To stop air pollution caused by burning dry leaves
- 🌿 To control food wastage
- 🌿 To protect our surroundings from harmful gases emitted by burning leaves
- 🌿 To promote compost pits
- 🌿 To eradicate health problems caused due to carbon emission
- 🌿 To contribute in Organic Farming
- 🌿 To help farmers in reducing the usage of chemicals in farming

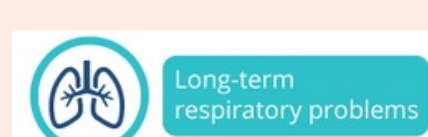
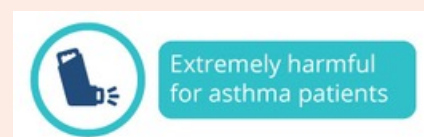
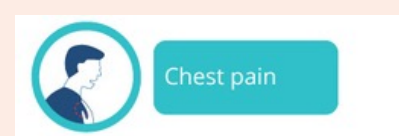
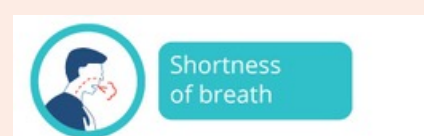




How is this a real world problem or concern?

Yes, wasting food and burning dry leaves are real world problems. Below statistics and studies can prove our statement

- 1.3 billion tons of food is getting wasted while 7,745.7 and 19,701.7 people dying daily as a result of acute hunger, and between 5.39 and 13.69 people dying per minute.
- People are consuming higher levels of pesticides, antibiotics, hormones in the form of inorganic food
- Burning dry leaves cause air pollution which lead to global warming.
- Smoke from the dry leaves causes serious health problems



<https://www.ifco.com/countries-with-the-least-and-most-food-waste/>



<https://thefederal.com/features/burning-dry-leaves-during-spring-season-cause-air-pollution-and-a-huge-resource-drain-in-terms-of-vital-organic-carbon-lost-from-the-soil/>



Describe Learning / Discovery from the use of interviews or surveys

On conducting interviews we came to know that many of the students are wasting food as they not aware of the food problems and its value, there are some reasons like taste, or less appetite to waste food and some students doesn't show any interest in eating food, they want to use their lunch hour to play or for some other activities , just not get noticed by their parents or teachers they throw food

After interacting with the villagers and helping staff of our school we realized that , in order keep the school environment clean ,the dry leaves are being burnt which is causing air pollution and also the villagers who want to keep their surroundings clean burn dry leaves

Interaction with farmers helped us to realize about the usage of chemical fertilizers and pesticides (Inorganic farming) which affects human health

We can bring a change by preparing compost pit with food wastage and dry leaves which helps farmer in Organic farming , reduces air pollution, food wastage

Link for interviews: [Team Interviews folder](#)



Mock interview



Interviewing Sarpanch
(Rangapur)



Team with Sarpanch (Rangapur)



Team with guide at
GramPanchayat

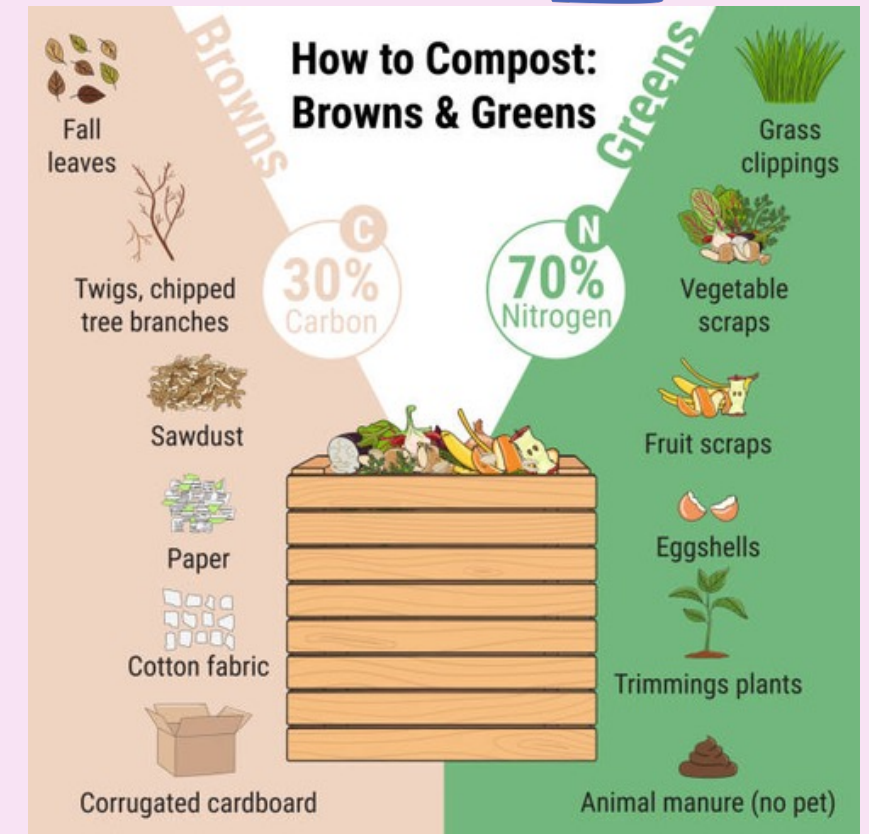
Which research data helped you to determine what to be done?



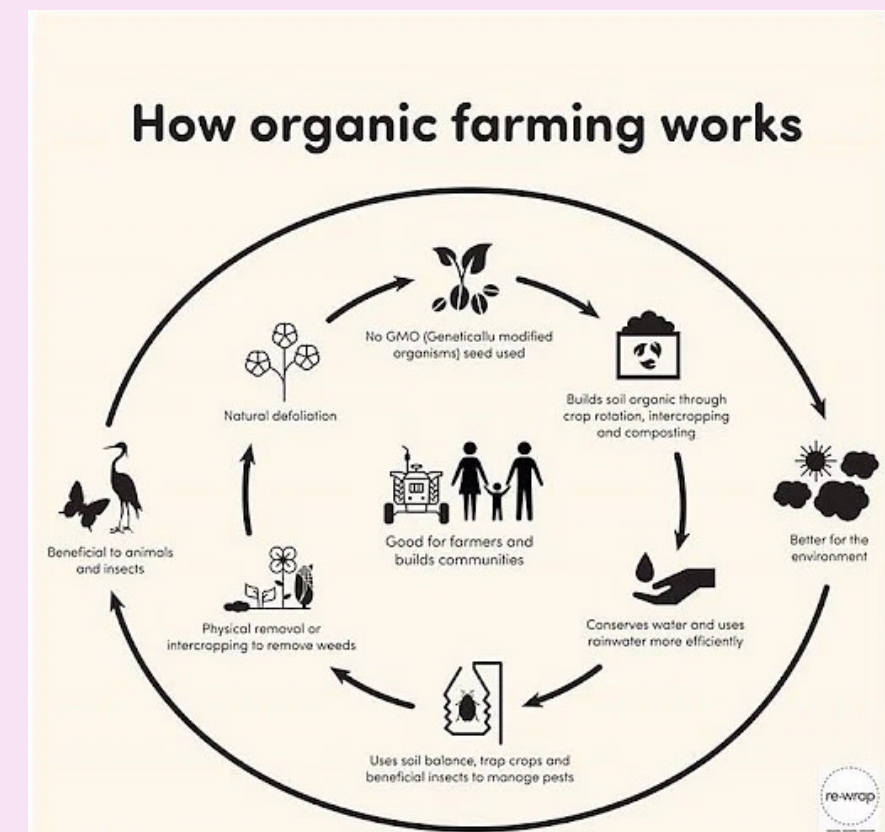
We referred some research papers which are available online, they gave us an idea of how to prepare a compost pit and importance of the compost pits and Organic farming



Our interviews also helped us in knowing about the food wastage and burning dry leaves. Below are the links of research data and websites we referred to



- <https://environmentalsystemsresearch.springeropen.com/articles/10.1186/s40068-017-0079-4>
- <https://www.farmlinkkenya.com/how-to-make-compost-manure/>
- <https://vikaspedia.in/agriculture/crop-production/organic-farming>





How did the information you learned motivate you to act in an impactful way



After Knowing about the Food Wastage Statistics and people dying of hunger our team took an Oath not waste the food and bring awareness so that that our friends , relatives or neighbors won't waste the Food



If the Food is not in a stage to eat, then we will definitely use it in Compost pit

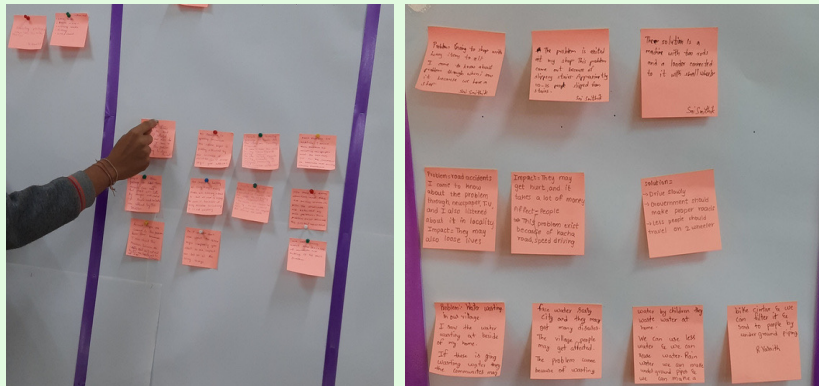
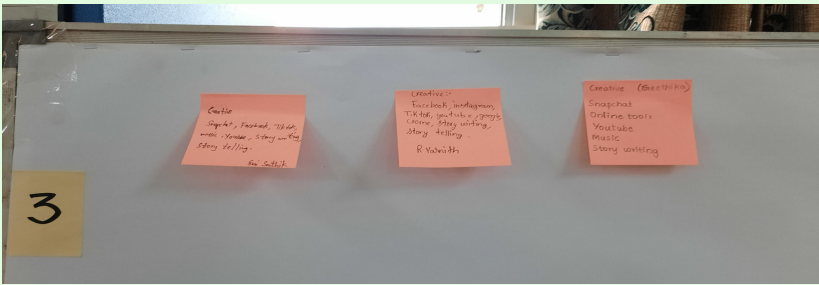


Since Burning Leaves is not good for environment we will request our school management and villagers instead of burning them allow them to decompose or use it compost pits



After being aware of the health problems caused due to inorganic food which have high presence of chemical fertilizers we have decided to bring awareness among farmers

Photos of Team Members being involved in investigative Phase



Plan Boards



Team Planning



Plan Boards



Interviewing Sarpanch



[Link to Team Investigation photos videos](#)



How are you planning for a permanent Change?



Bring awareness among farmers about Organic Farming



Requesting Cleaning Staff not to burn dry leaves instead use them for Compost Pit



Asking our friends to take Oath not to waste the Food



Letting everyone know about the health issues caused due to burning dry leaves



Training Farmers, Self employed women and House holds in preparing thier own compost pits



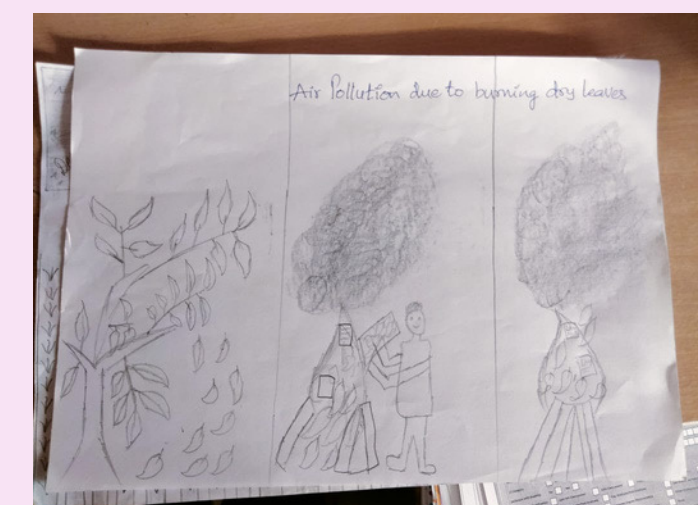
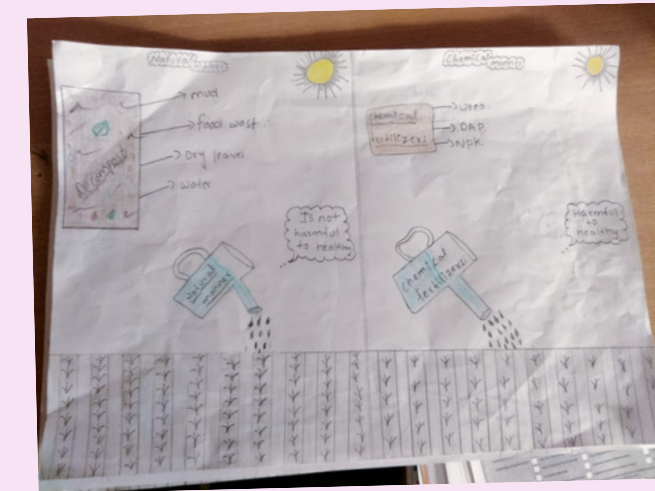
Motivating everyone through Drawings, Skits etc.



Preparing Flyers, T-shirts



Explaining the benefits of Organic farming and the difference between organic and inorganic foods





How did your team influence Others?



Team collecting dry leaves

We started change from our team to influence others, we have started collecting dry leaves in our campus , preparing compost pits, interacted with sarpanch of Rangapur to explain about the advantages of a compost pit and how it can help in protecting our environment, also interacted with farmers and house holds explained them the importance of Compost pit



Team preparing compost pit

We used drawings , role play to promote Organic farming . As we are aware about the preparation of the compost pit we tried to teach that to others

The slogans and Role play helped us in promoting our idea

We prepared compost pits in our school it helped us in creating awareness

Used Pluck cards with slogans promoting to stop food wastage



Team planning



Role Play



Team with sarpanch



Slogans on Pluck cards



Requesting students not to waste food

Photos of Team Members being involved in implementation Phase



Collecting dry waste and food waste



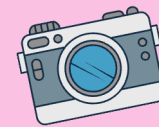
The waste is going to decompose and changed into manure.



Applying the manure for trees as natural fertiliser



In the process of preparing manure



Link: [Team Project Implementation videos photos folder](#)

Give examples of creative use of technologies in your project

- ☐ To participate in the meetings conducted by Mentor coaches, and to know about the UN-SDG project step by step, we used: ZOOM app.
- ☐ To communicate with ourselves and share our ideas also with Mentor coaches we used Whatsapp messenger
- ☐ For more information in the process of investigation also for implementation, we used Google
- ☐ To update & Uploading the work done Google drive
- ☐ For zoom links to participate in the meetings, in the calendar, we used Gmail
- ☐ For coverage of the investigation, interviews, and implementation we used a Phone Camera
- ☐ For more information in the process of investigation also for implementation, we used Youtube
- ☐ To record the influence of community people, we used a WhatsApp recorder
- ☐ To prepare slides of our work in a beautiful way, we used power point

Links to interview Snippets



Interview with Villagers



Interview with Sarpanch



Interview link [Team Interview Videos folder](#)



Mock Interview

T-Shirt Design

We Designed T-Shirts as part of Implementation Phase the T-Shirt Designs are as given below:



Front Side



Back Side