

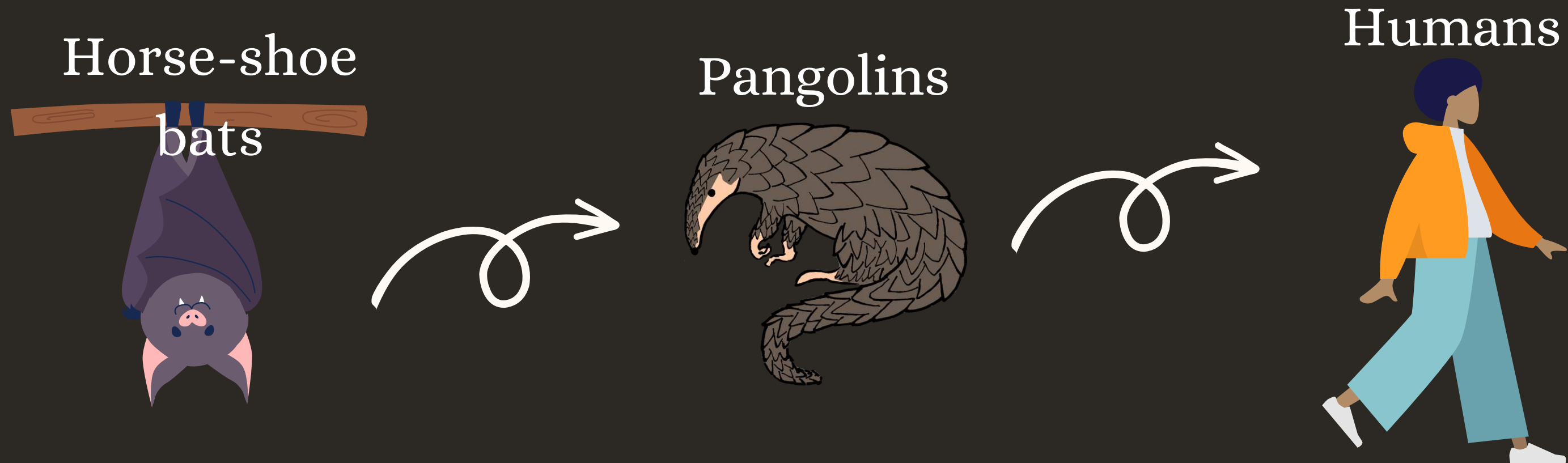


10th
PROGRAMME
2023
Youth
Leadership

Recurity

REQUIRES CURE AND
SECURITY

How did Covid-19 start? And how it effected humans?



This is called a Zoonotic spillover, in which a virus is transmitted from animals to humans



Severe Cough



Sneezing



Shortness of breath



Pneumonia

a

**Why did it
start?**

Topic Outline



1

Reason behind our
preference?

2

Planning and
preparation?

3

The solution we have
provided





YLP 9C

RECURITY

REQUIRES CURE & SECURITY

EXPLORING THE GLOBAL CHALLENGES THAT HAVE EMERGED WITH THE COVID-19 PANDEMIC

1. AWARENESS ABOUT BIOSECURITY
2. HOW HAS QATAR PROTECTED THE ENDANGERED SPECIES
3. A SOLUTION WILL BE PRESENTED TO PREVENT BIOSECURITY

A central green rectangular box containing text, surrounded by illustrations of a pink parrot, a hummingbird, a yellow and orange snake, a pink flamingo, and a blue monkey.

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**Poster for our
YLP**

What is Bio-security?

Bio-security is the prevention of disease-causing agents entering or leaving any place where they can pose a risk to farm animals, other animals, humans, or the safety and quality of a food product. The COVID-19 pandemic is an example of an infringement on bio-security that posed a serious threat to the world.



Bio-security protocols for:

Animals:

1. **Isolation and quarantine** when they are sick
2. **Monitoring** and testing so they don't get diseases
3. **Vaccination**
4. **Hygiene**
5. **Bio-security plans** and procedures to prevent diseases

Plants:

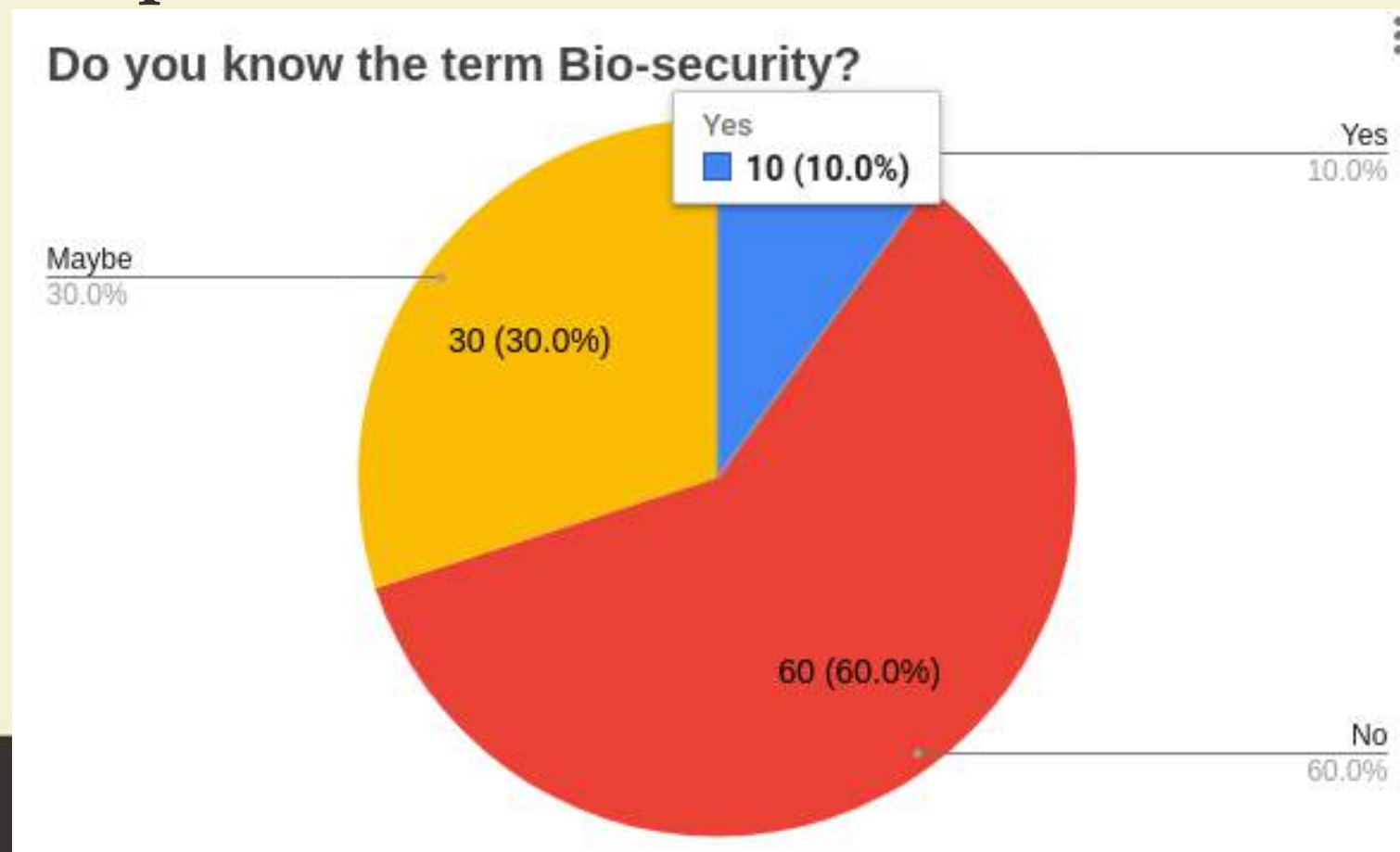
1. **Pest exclusion**
2. **Monitoring programs** to detect pests
3. **Sanitation**
4. **Plant certification** and traceability
5. **Training** to plant producers etc to prevent the diseases

Humans:

1. **Vaccination**
2. **Personal hygiene**
3. **Environmental hygiene**
4. **Isolation**
5. **Education and awareness**

Reason behind choosing the topic- BIO-SECURITY

We conducted a survey asking students about their knowledge of biosecurity prior to choosing the topic. Here are the results:





Therefore, we chose bio-security as our subject because we want to **stop diseases** from spreading plants. Because illnesses like the Ebola and corona viruses pose a threat to the environment.

We hoped to raise awareness of the issue through this YLP project so that fatal diseases can be avoided in the future.

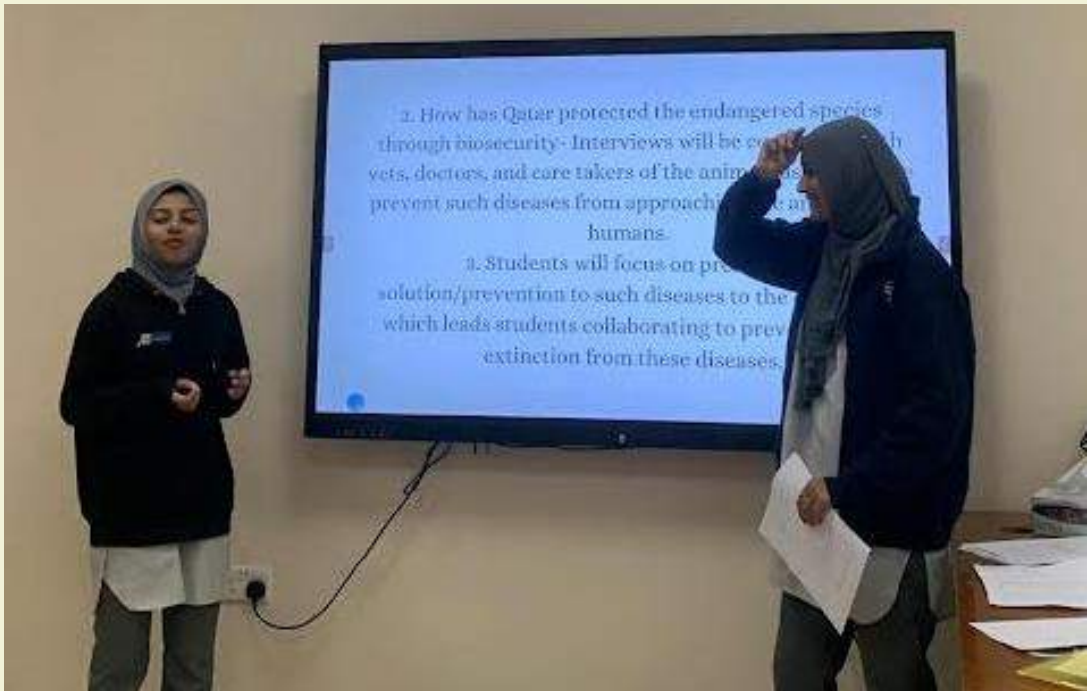
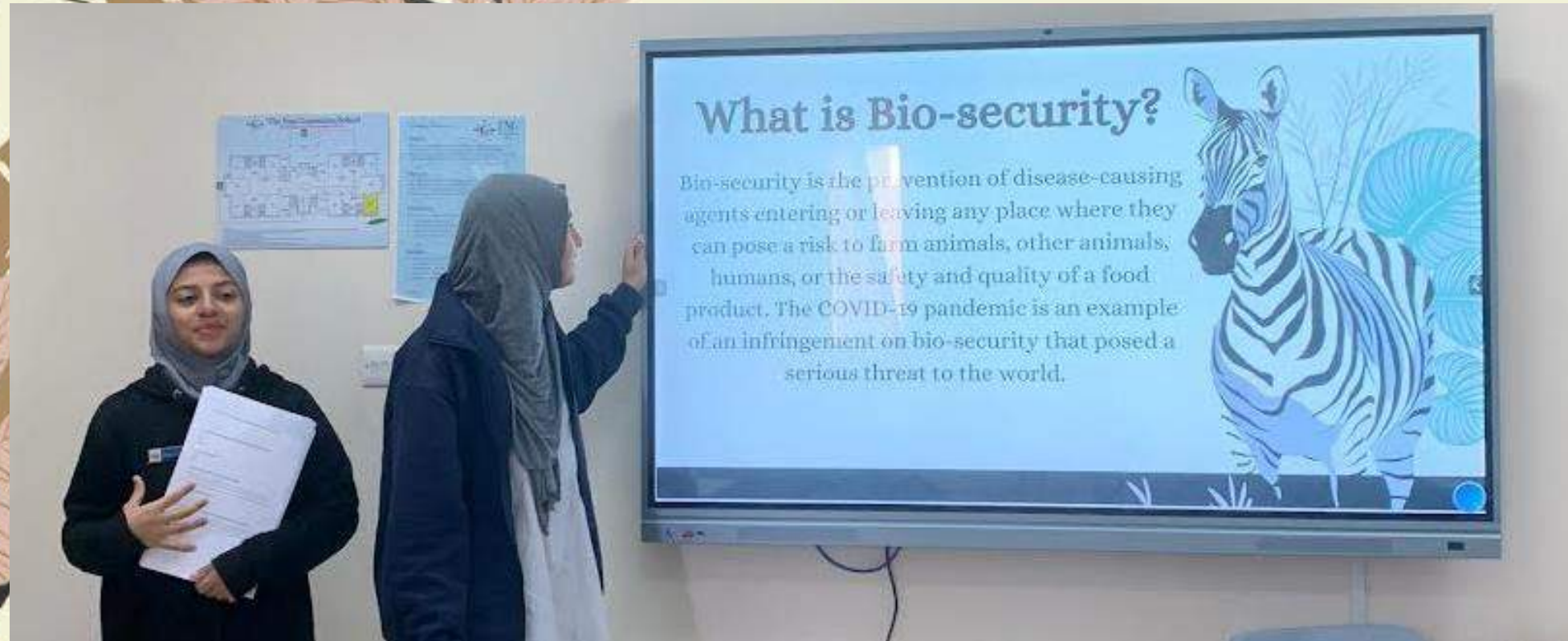


Plans and Implementation

Our project will be focusing on **three aspects mainly:**

1. **Awareness about Bio-security-** Our class intended to run awareness **campaigns** to inform students about biosecurity in the wake of the survey results. The campaigns were successful, and now many students in our school are aware of bio-security and are aware of how to care of themselves to avoid diseases. diseases.

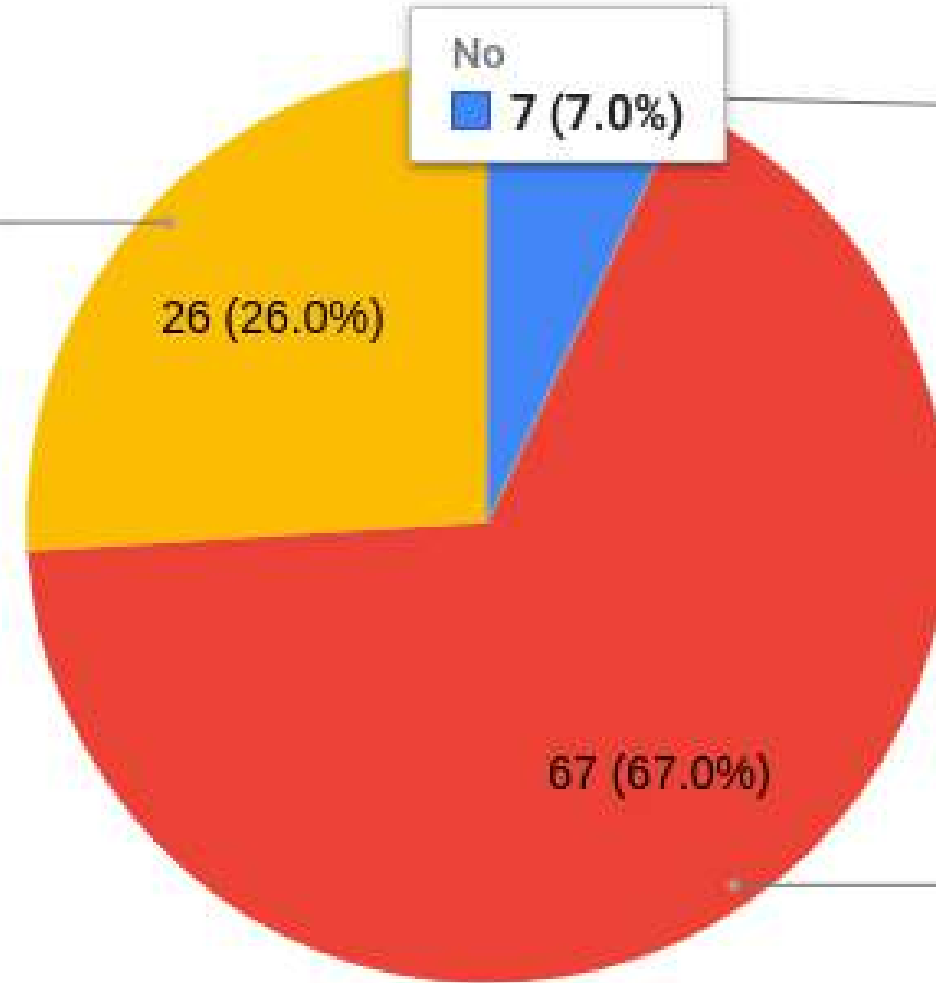






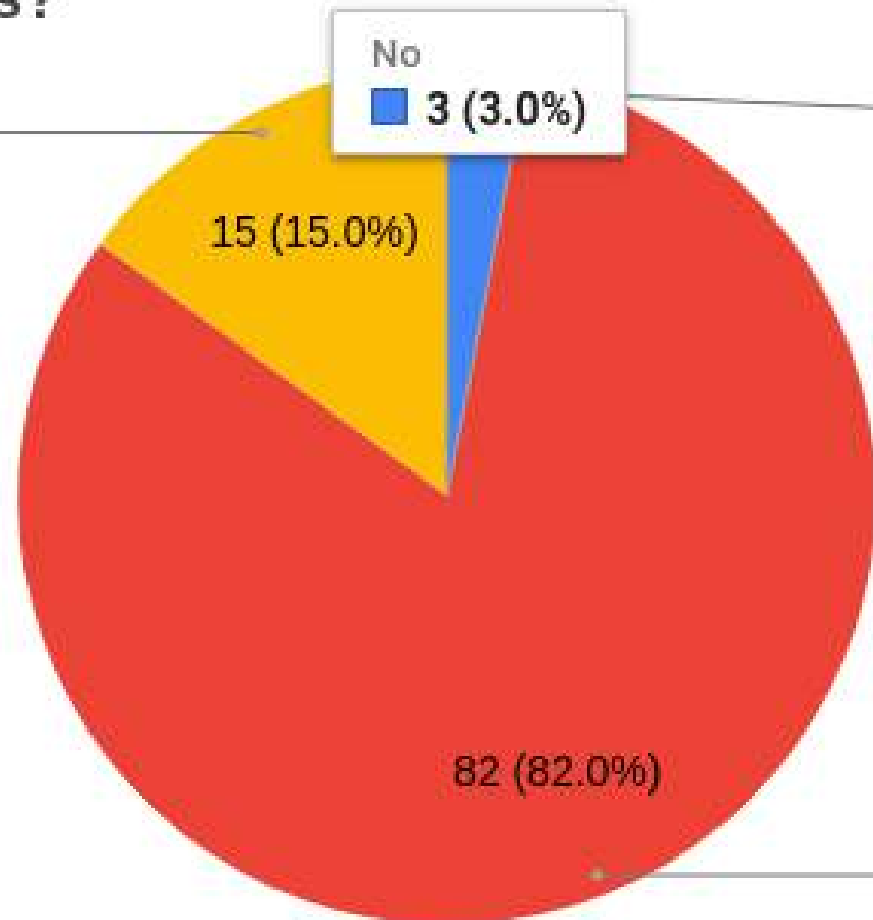
After the campaigns, are you now aware about the term bio-security?

Maybe
26.0%



Are you now aware on how to keep yourself hygienic to avoid diseases?

Maybe
15.0%

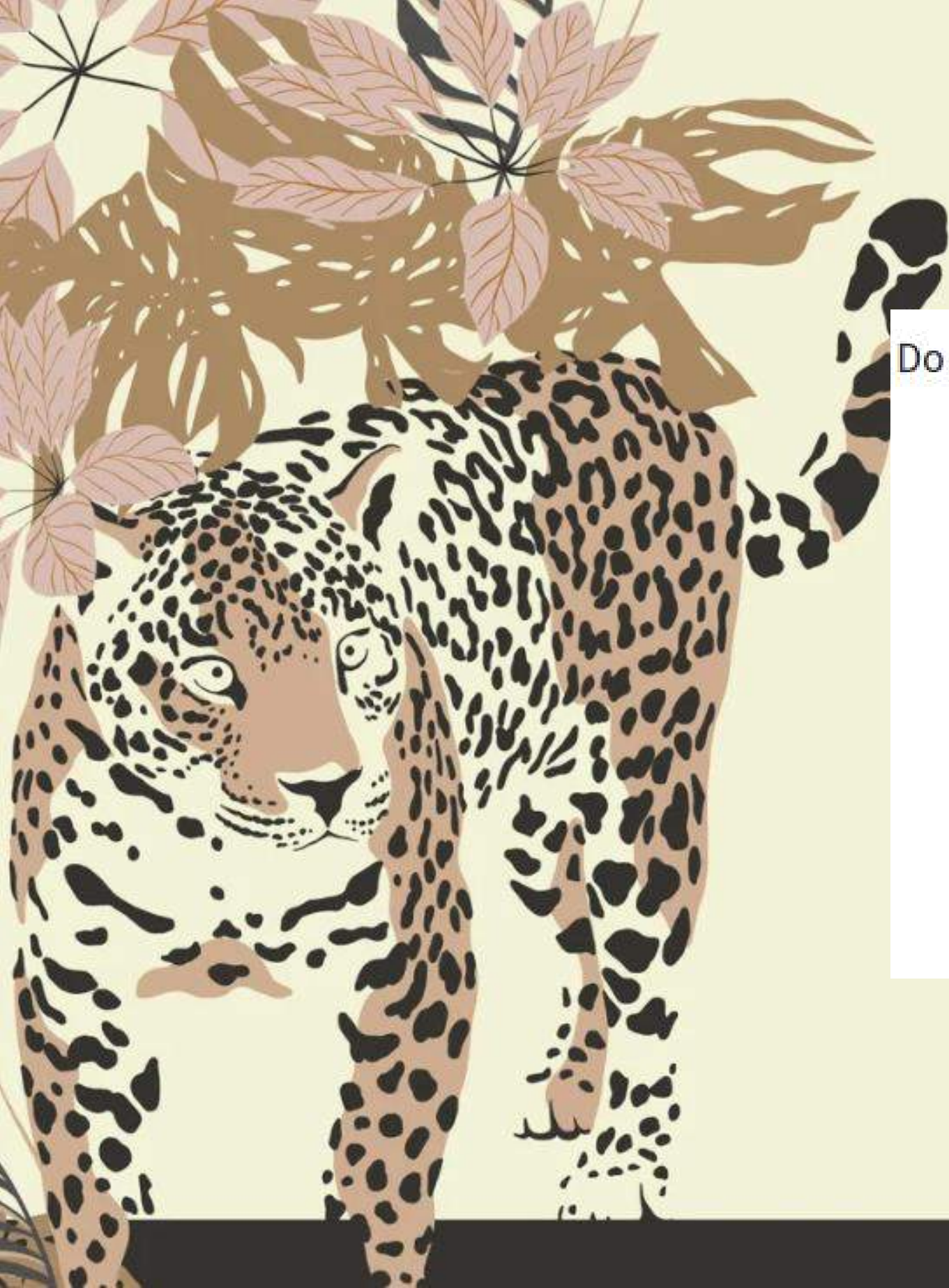


No
3.0%

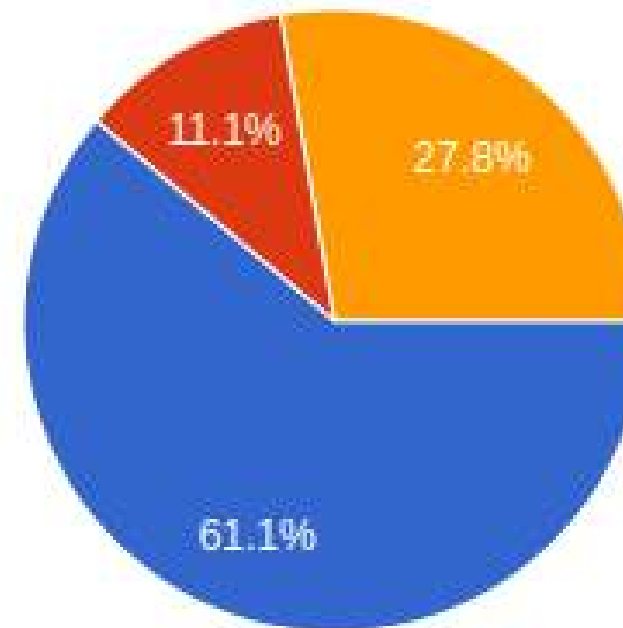
Yes
82.0%

No
7.0%

Yes
67.0%



Do you think Covid happened because of the breach of biosecurity?



- Yes
- No
- Maybe

Recurity

Class: 9D

Do you know what biosecurity is?

- Yes
- No
- Maybe

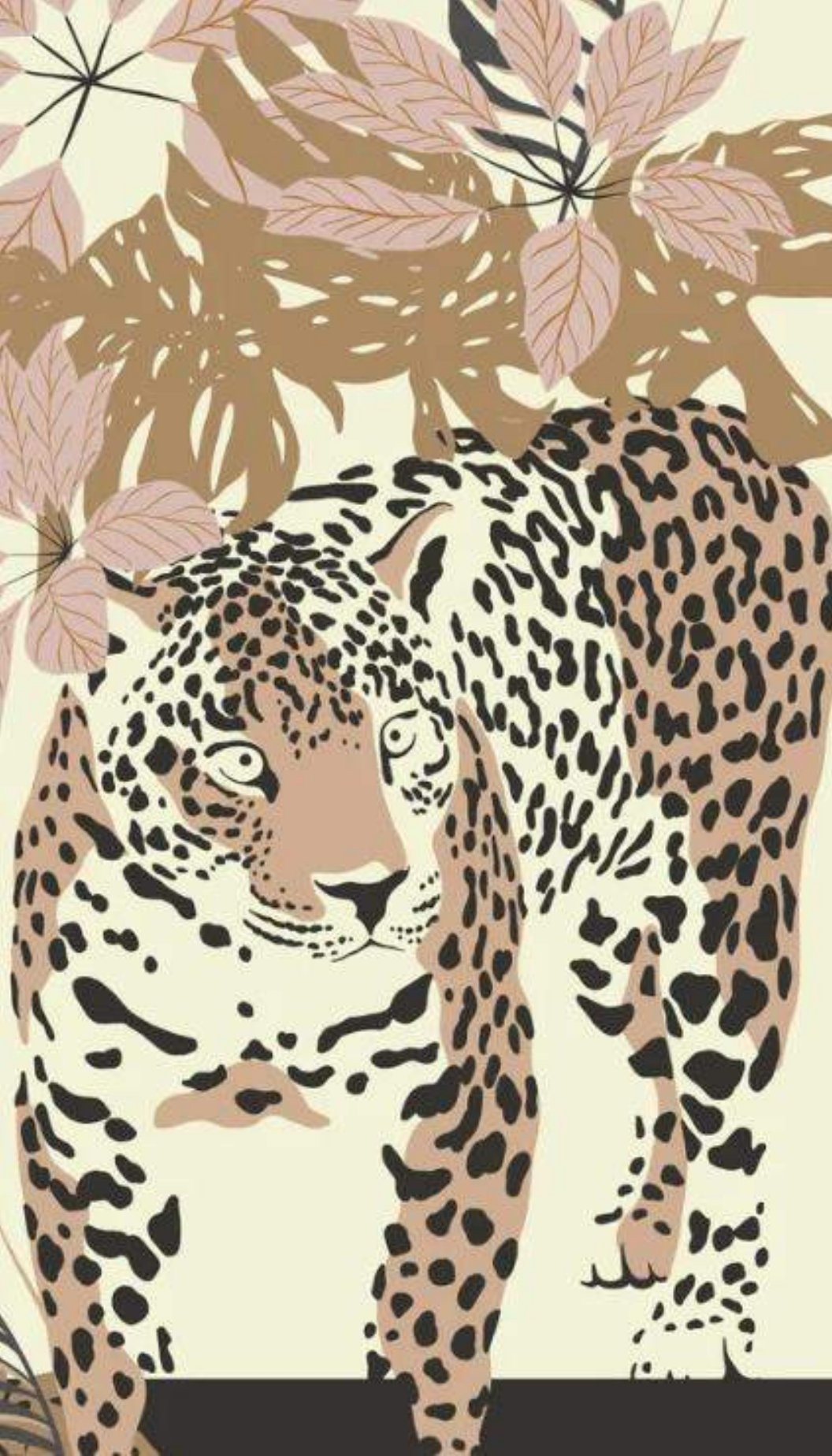
Meaning of Biosecurity

Biosecurity is the prevention of disease-causing agents entering or leaving any place where they can pose a risk to farm animals, other animals, humans, or the safety and quality of a food product. The COVID-19 pandemic is an example of an infringement on biosecurity that posed a serious threat to the world. Our project aims to spread awareness on biosecurity so that the chance of such a pandemic effecting the world in the future will be lessened.

Do you know about the initiatives that Qatar has taken for biosecurity?

- Yes
- No
- Maybe

**A few
responses
of our
survey**



Do you think Covid happened because of the breach of biosecurity?

- Yes
- No
- Maybe

Do you do gardening?

- Yes
- No

Write one way of how you take care of your plants.

- 1 Water the plants everyday,
- 2 Use fertiliser for healthy soil & plants.

Do you often go to the doctor?

- Yes
- No

If not, then how do you take care of yourself in a way you don't get sick?

- 1 Eating healthy food,
- 2 Drinking plenty of water,
- 3 Washing my hands all the time (not washing your hands can cause diseases / illness)

Do you often go to the doctor?

Yes

No

If not, then how do you take care of yourself in a way you don't get sick?

I take care of my environment by making sure it's all neat and clean



Do you think Covid happened because of the breach of biosecurity?

Yes

No

Maybe

Do you do gardening?

Yes

No

Write one way of how you take care of your plants.

We can take care of the plants by taking good care of them by watering them in time.



Do you think Covid happened because of the breach of biosecurity?

- Yes
- No
- Maybe

Do you do gardening?

- Yes
- No

Write one way of how you take care of your plants.

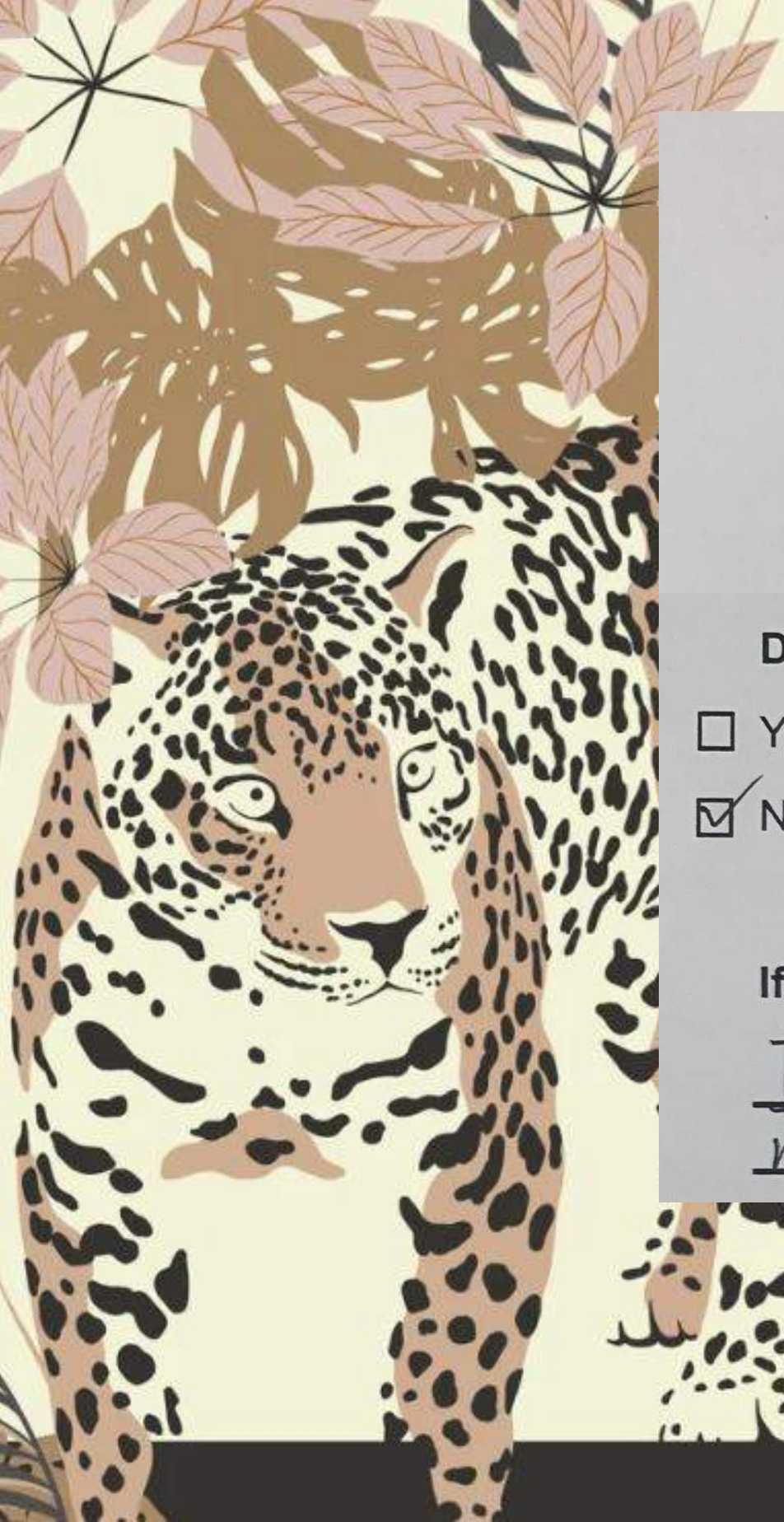
Water them in an efficient way (prevent overwatering)
& keep them in an area that give sufficient
sunlight

Do you often go to the doctor?

- Yes
- No

If not, then how do you take care of yourself in a way you don't get sick?

Eat a healthy diet rich with fruits & vegetables
and prevent all sorts of foods that make you
sick.



Do you think Covid happened because of the breach of biosecurity?

Yes

No

Maybe

Do you often go to the doctor?

Yes

No

If not, then how do you take care of yourself in a way you don't get sick?

I take care of my environment by making sure it's all
neat and clean

2. How has Qatar protected the endangered species through bio-security- Interviews were conducted with vets, doctors, and care takers of the animals as to how to prevent diseases from approaching the animals and humans.

Qatar has made numerous biosecurity-related efforts

1. Qatar marked the **International Day for Biological Diversity** which falls on May 22 each year and is celebrated under the slogan "Protecting Life on Earth"
2. Qatar plays along with the countries of the world by working together to preserve biodiversity through the ratification of international and regional conventions.

The most important of these are:

- The **International Biodiversity Convention** since 1996
- The **Convention on Combating Desertification** in 1999
- The **International Convention on the Regulation of Traffic in Endangered Species of Wild Fauna (CITES)** in 2001
- The **Regional Convention on the Protection of Wildlife of the Gulf Co-operation Council States** in 2004
- The **Cartagena Protocol on Biosafety** in 2007.

3. The Ministry also carries out several pilot projects **aimed at protecting the marine environment** and **enriching biodiversity**, such as the whale shark protection project, turtle nesting, the crocodile protection, and coral reef culture projects in several locations.

4. **Qatar is one of the five Arab states parties** to the **Convention on the Suppression of International Traffic in Endangered Species of Wild Fauna and Flora** (CITES) and among the best countries that were committed to the convention.

5. In order to protect biodiversity, the Ministry of Municipality and the Environment has **adopted laws to protect wildlife and natural habitats.**

Interview with the vet



Interview with the zoologist



What Bio-security procedures are used whilst in control with a biological organism?

Interview with the botanist



Azka and Nabeelah

Activity for grade 7: OUTBREAK TAG

They pretend to be the animals in a flock. One of them was designated as the infected animal.

The rest of the class (healthy members of the flock) had to run around and avoid being tagged (infected) by the person who infected.

One of participant acted as a vet and gave vaccines to the infected participants.



This taught them that when there was a vet it took longer for all of the animals to become infected, or not all of the animals got infected. And that it is important to have a good animal health management plan in place and to be prepared in case of disease outbreak or illness in the flock; such a plan can reduce losses and keep the animals healthier.

And this is one of the reason why it is important to

have strong bio-security protocols



Activity for grade 8:

INDIRECT CONTACT- Ping Pong Ball Relay Race

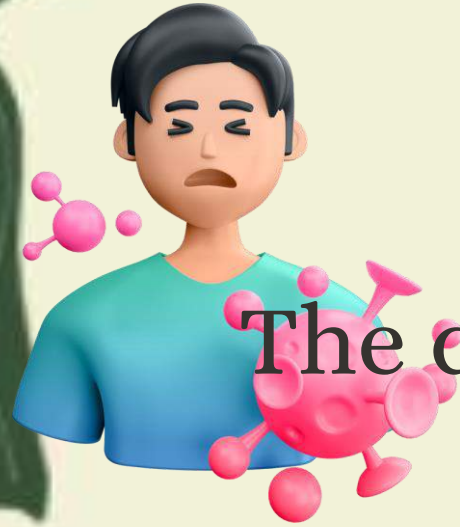
Participants were divided into two teams and each were given a spoon.

A ping-pong ball was placed on the first person from each team.

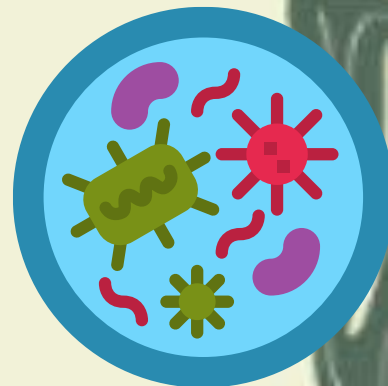
The ball represents a pathogen, while the spoon represents a surface. Each participant runs until they pass the ball to the next runner on their team. They must transfer the ball to the next runner's spoon without directly touching the ball. This represents pathogens being carried on surfaces such as boots or equipment.

If the ball falls off their spoon as they run, participants may pick it up to put it back on but this means that they are now infected — through indirect contact transmission — and because they are now “sick,” they must walk instead of run.





- What we learned through this activity is that
The disease transmission can also occur when animals seem healthy (represented by the participants who never dropped the ball and ran the entire way) as well as when they show symptoms (represented by the participants who dropped the ball and had to walk)
- Participants never had to touch one another for the pathogen to be able to travel from the first participant to the last; they all came into contact with it indirectly



Social Media account:



recurity_

Follow

5 posts

43 followers

0 following

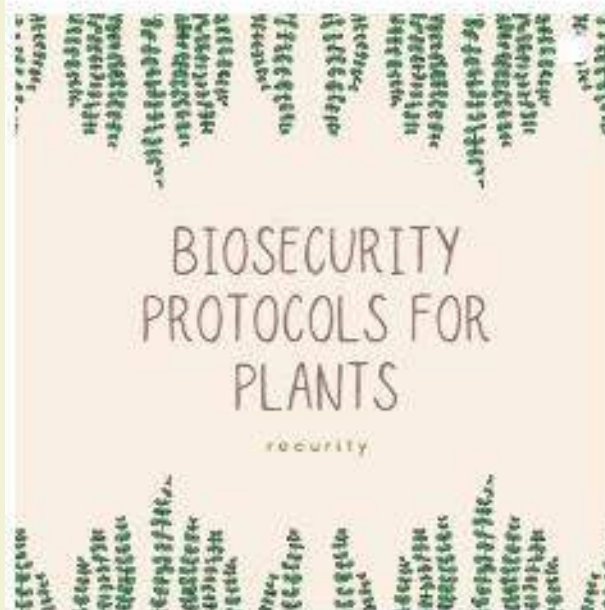
Biosecurity

Working towards biosecurity



POSTS

TAGGED



3. Students presented a solution/prevention to such diseases for developing and under-developed countries which lead students to collaborate to prevent animal extinction from these diseases.



Protocols taken by Developed countries for Biosecurity

- The main statutory legislation for controlling and conserving nature in general, is covered under the **Wildlife Act, 1976**.
- The **government of Portugal**, has ordered a major review of their **National Parks and Wildlife services** to revamp their method in conservation, protection and sustainable development of the same.
- **Italy: Protecting areas** with large mammals
- Regular surveys and animal check-ups
- The need for the injured and sick wildlife has been taken care of by the **Wild Animal Rescue Centre** which supports the government efforts in tackling the illegal wild life trade .
- Departments include various projects one of which is the **Golden Coin Turtle Conservation** project to prevent this species from becoming extinct.
- **Execution of projects** for the **conservation** of local **endangered species**

Protocols taken by countries to protect animals in developing countries

- **Illegal** to **capture** or kill **endangered animals** or birds.
- **Establishment** of Protected areas, **National Parks**, Sanctuaries , Conservation Reserves and Community reserves
- **Breeding programs** for endangered species

Protocols taken by the underdeveloped countries to protect animals

- **Establishment of National Environmental Protection Agency**
- National Biosecurity Strategy and Action Plan (NBSAP):
NBSAP's purpose is:
 - To provide the government of these countries with a **policy document** that can help them with the development of the country's biosecurity.
 - And secondly, and to **communicate bio-security conservations priorities** in underdeveloped countries.

The solution:



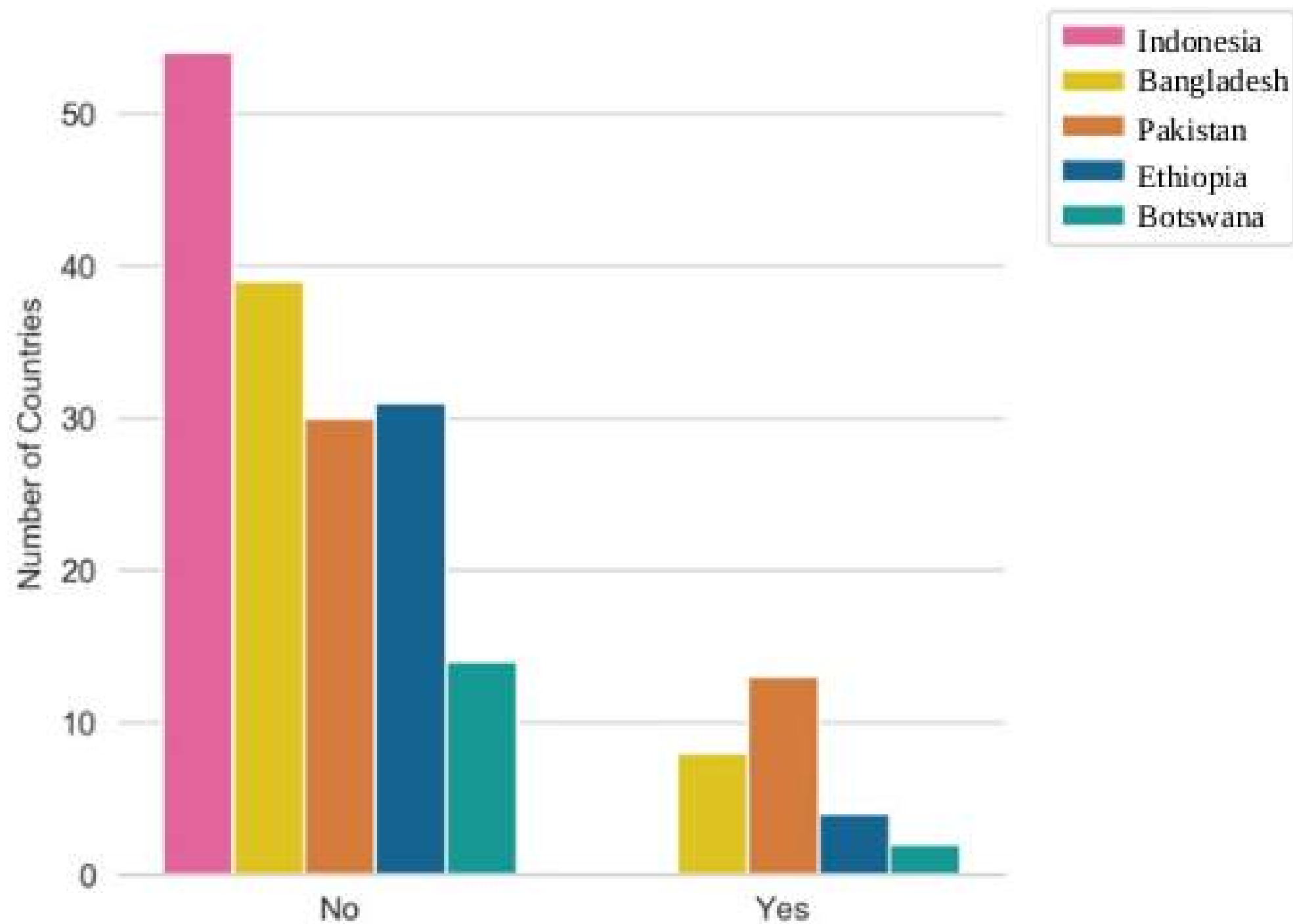
Developing and underdeveloped countries can **create national parks** and reserves, similar to the one in Portugal, and **conduct reviews** to enhance bio-security procedures.

Since developing and underdeveloped nations place a greater emphasis on their economies, animals become extinct by diseases like the Ebola and Corona viruses.

So, in order to stop this, we could **create an organization** in those countries with the following primary goals:

1. **Medical infrastructure/disease surveillance:** Special care for animals; vaccinate all animals, including pets, once a year.
2. **International Cooperation and Bio Security Policies:** International Cooperation
3. **Educating the public** through yearly **campaigns**

1.3.1c) Existence of agency for enforcement of biosecurity legislation/regulations





Source	Total Annual Funding, \$	Activities Funded by Hunters		Activities Funded by Non-hunting Public, \$
		% of Total	\$	
National Wildlife Refuge System (operating budget, see Table 2 for land purchase funding)	\$276M	4.6%	\$13M	\$263M
Pittman-Robertson & Dingell-Johnson Acts Funds:				
Funding based on hunting activities	\$882M	14.5%	\$128M	\$719M
Funding based on population		4.6%	\$35M	
USDA Wildlife Services	\$89M	4.6%	\$4	\$85M
USDI Fish & Wildlife	\$2,795M	4.6%	\$129M	\$2,666M
US BLM	\$1,200M	4.6%	\$56M	\$1,144M
US Forest Service	\$9,779M	4.6%	\$453M	\$9,326M
National Park System	\$3,650M	4.6%	\$169M	\$3,481M
SUBTOTAL				\$17,685M
Federal Funding	\$18,671M	5.3%	\$986M	94.7%

Nature Conservancy	\$859M	4.6%	\$40M	\$819M
Land Trusts (all, except N.C)	\$535M	4.6%	\$25M	\$510M
Wildlife Conservation Society	\$230M	4.6%	\$11M	\$219M
World Wildlife Fund	\$204M	4.6%	\$9M	\$195M
Ducks Unlimited	\$147M	99%	\$146M	\$1 M
The Conservation Fund	\$138M	4.6%	\$6M	\$132M
Natural Resources Defense Council	\$123M	4.6%	\$6M	\$117M
National Wildlife Federation	\$93M	4.6%	\$4M	\$89M
National Audubon Society	\$89M	4.6%	\$4M	\$85M
Rocky Mountain Elk Foundation	\$54M	99%	\$53M	\$1 M
SUBTOTAL				\$2,168M
Non-profit Organizations	\$2,472M	12.3%	\$304M	87.7%
TOTAL				\$19,853M
Federal & Non-profits	\$21,143M	6.1%	\$1,290M	93.9%

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**Most of these are in different states of
US**

**And US is a developed country
So what our class is suggesting that we
should create such non-profit
organization and can take funds from
other countries too (developed
countries)**

Farms in a developed countries

Qatar



Norway



Sweden



Farms in a developing and underdeveloped countries



Angola




Pakistan



Botswana





Our class created a simple model of a farm for a developing and an underdeveloped countries so there can be prevention of diseases

Model



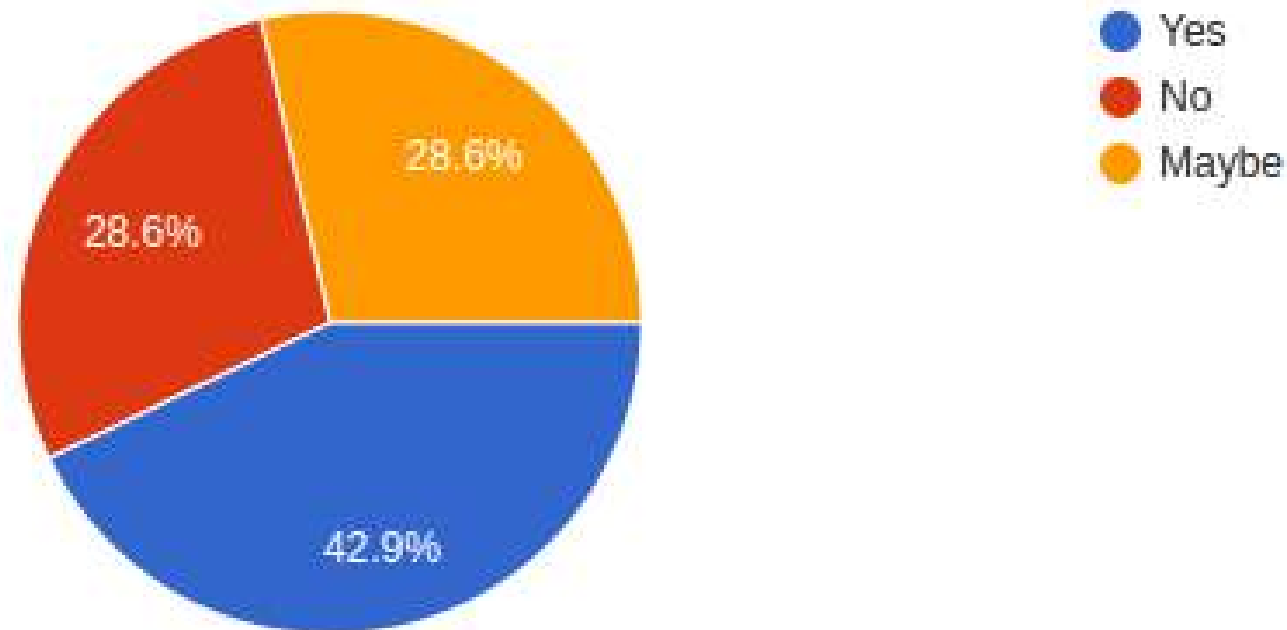




Parent engagement:

Thank you to all the parents who took out their time and filled the survey and did an interview.

Are you aware about the term biosecurity?



The background of the entire page is a vibrant tropical floral pattern. It features large, dark green leaves with prominent white veins, interspersed with delicate pink flowers and a brown, leopard-spotted branch. The overall color palette is warm and natural, with shades of green, pink, brown, and cream.

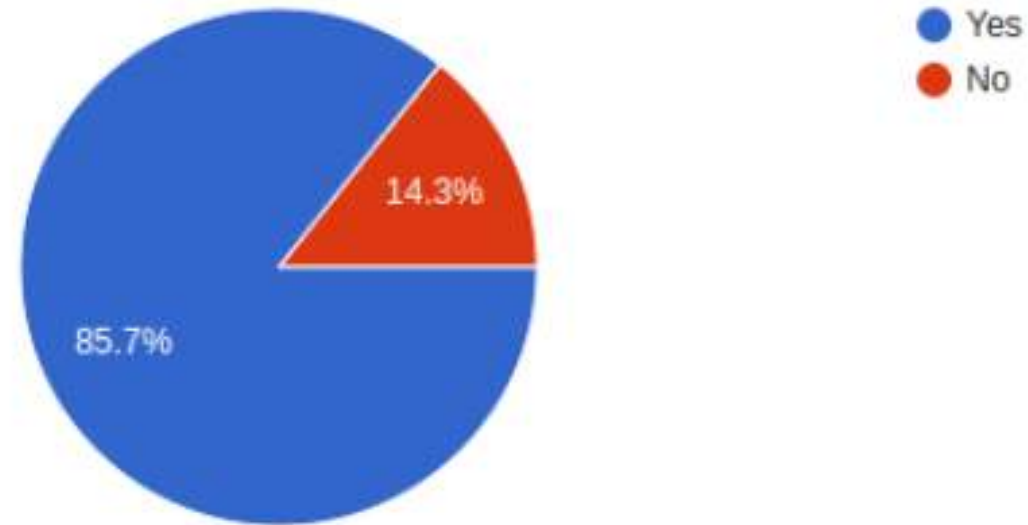
How do you take care of your kids to prevent them from getting diseases?

I make them wash their hands when they come back home after playing, and even when they sometimes get sick we take them to the doctor for medications without any delay.

How would you take care of your plants?

We would water them daily in the afternoon and would put the plant in a bigger pot so that the plants could get more space to grow, we would also keep them in the net so like nowadays the weather is very hot so they get saved from excessive sunlight too, sometimes they get burnt too when a lot of sunlight is reflected.

Do you think COVID happened because of the lack of biosecurity?



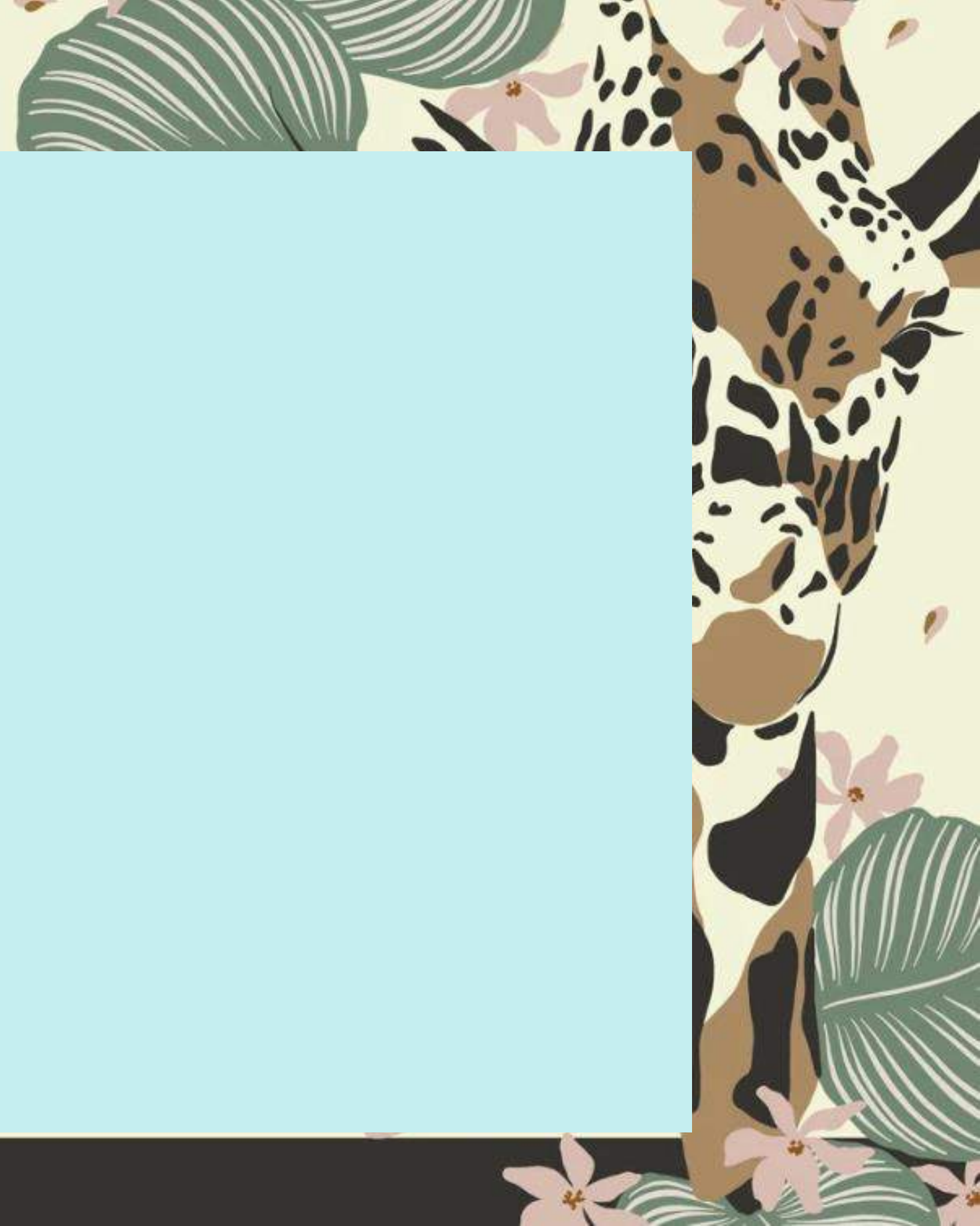
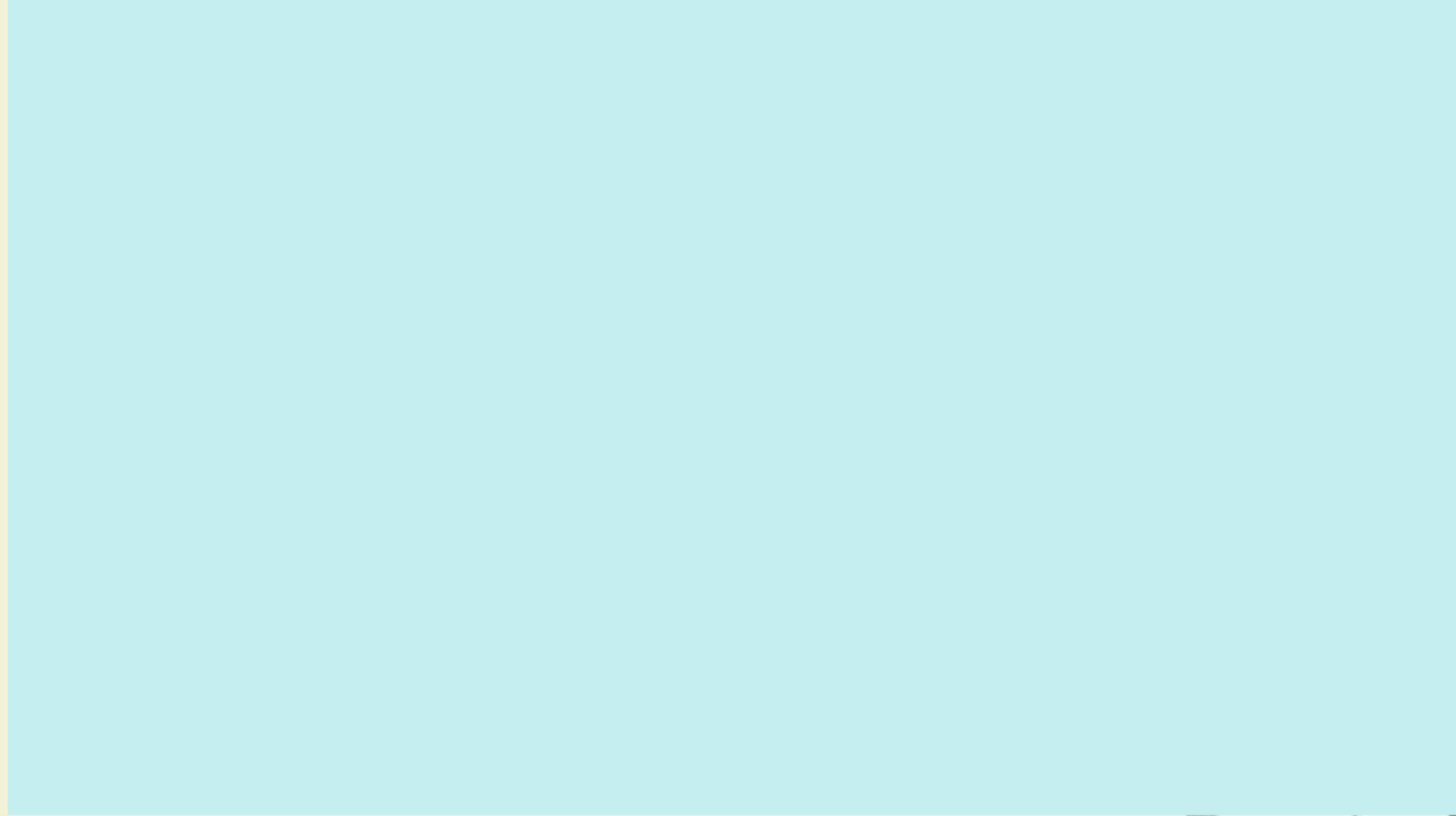
In what ways do you think COVID could've been prevented if known earlier?

As scientists discovered that the virus came from bats so if the country had been known earlier then the scientists would have focused more on bats and found any antidot to this virus, as the root to the problem is the solution itself.

We had planned to do an interview with the Ministry of Municipality and Environment, but due to the time slot given which was after Ramadan, we couldn't conduct it.



YLP Journey video





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Thank you for listening!