

# LET'S READ AND LISTEN

Listen to and read the posters

## JANKO ECO-BIKES

### The problem

The COVID-19 is contagious when many people are in one place. Usually, public transportation is crowded. Bikes offer an alternative kind of transportation, but they are expensive.

### Opportunity

Many people use bikes as transportation.

### Innovation

Bamboo grows in different places in Peru. Bamboo is a strong plant. It is a good material to make bikes and it is cheap.



### The Janko Ecobicicleta

This bike is eco-friendly. The designer is Víctor Barraza. He is an architect. He's from Tingo María, but he lives in Lima. The most important part of the Janko eco-bike is the frame. It is entirely made of bamboo. The Janko eco-bike is light, very fast and cheap. This invention is amazing.

## FITOTOLDOS

### The problem

People in some parts of the world can't grow vegetables like lettuce, celery, spinach, carrots or onions. Why? Because it is very cold. Temperatures can be  $-5^{\circ}\text{C}$ .

### Opportunity

The sun is really shiny for some hours during the day.

### Innovation

Greenhouses are really fantastic. Generally, a greenhouse is a structure with walls and a glass roof. But, a special greenhouse or "fitotoldo" is a structure with walls and plastic film also called agrofilm.

### The Fitotoldo

This greenhouse is very basic and really inexpensive. It has 6 important requirements.

1. It needs to sit on a flat area.
2. The sun needs to shine on it for at least 5 hours during the day.
3. It needs to be near water supplies.
4. The long side of the structure needs to face east and west.
5. The roof needs to face north.
6. The door needs to be far from where the wind blows.



### Result

Families and communities in cold places can eat vegetables. There are "Fitotoldos" in Puno, Huánuco, Lambayeque, Ancash, Apurímac, Huancavelica and many other Regions in Peru. This invention is great.

# LET'S UNDERSTAND!

Check the correct box

|                                                                    | Poster 1:<br>Janko Bikes            | Poster 2:<br>Fitotoldos  |
|--------------------------------------------------------------------|-------------------------------------|--------------------------|
| Example:<br>This invention is a type of transportation.            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1. This invention helps people avoid COVID-19.                     | <input type="checkbox"/>            | <input type="checkbox"/> |
| 2. This invention helps grow food in the cold mountains of Peru    | <input type="checkbox"/>            | <input type="checkbox"/> |
| 3. Generally, this invention uses sunlight.                        | <input type="checkbox"/>            | <input type="checkbox"/> |
| 4. Generally, people use this invention to go to different places. | <input type="checkbox"/>            | <input type="checkbox"/> |
| 5. One of the materials for this invention is a plant.             | <input type="checkbox"/>            | <input type="checkbox"/> |
| 6. One of the materials for this invention is a type of plastic.   | <input type="checkbox"/>            | <input type="checkbox"/> |
| 7. This invention is not expensive.                                | <input type="checkbox"/>            | <input type="checkbox"/> |



## Perú Ecofriendly

*Amigable con la naturaleza*