# TOMATO'S FISHERMAN


## TEAM 25

## PSYLAND

# DESCRIPTION

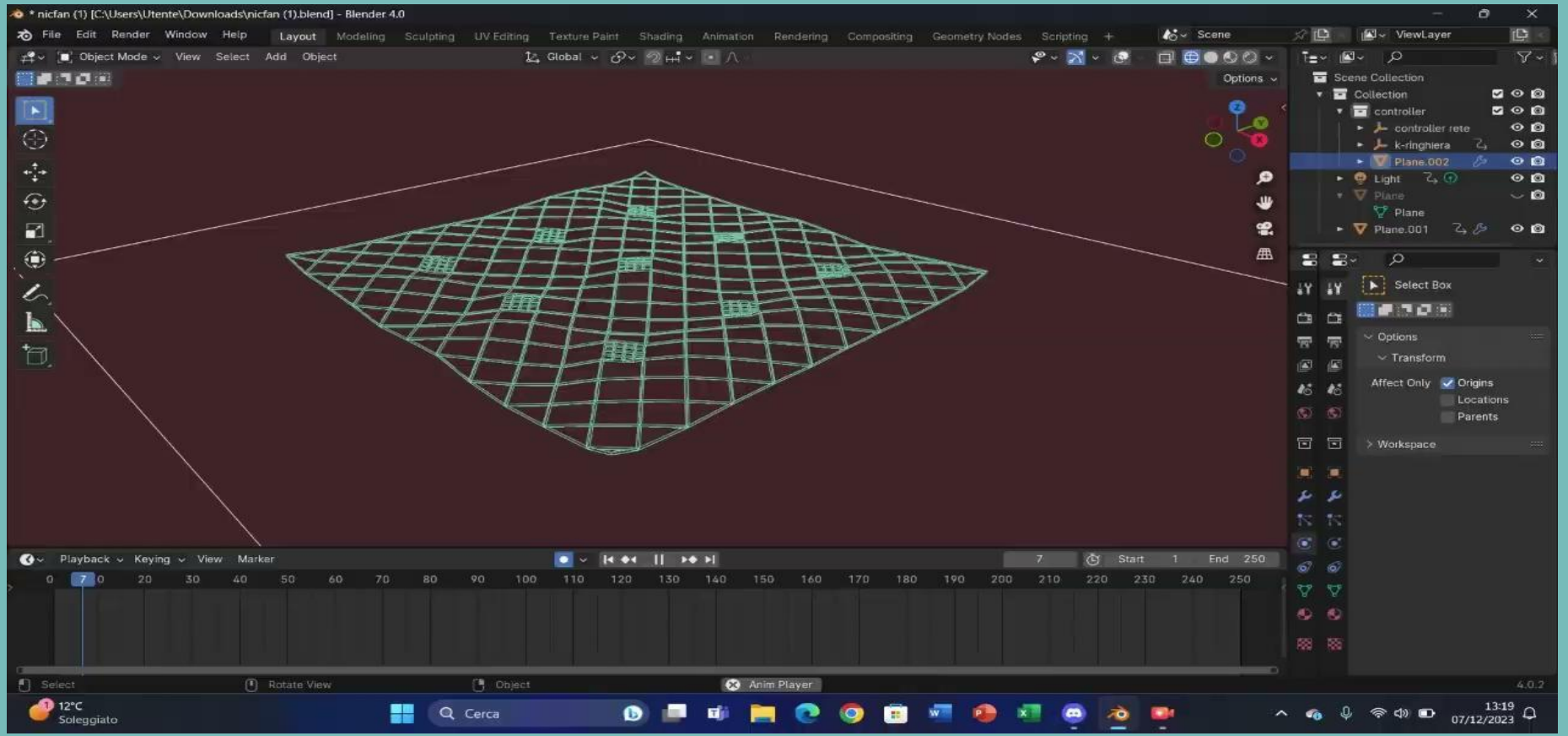

Say goodbye to backache and tiredness, the Tomato's Fisherman is ready to be welcomed into your beautiful gardens!!!
This system is applied at the first moment of sowing, accompanying and growing along with the plant
The net consists of two ends, two that are attached to railings, while the other two on the ground have embroidery on them as a tribute to the Russian textile tradition.
It is composed of two different meshes: a narrower one, with 25 mm diameter meshes, to be attached above the seed of the plant so as to rise with it, while the outer ones are 30 cm in diameter, the average diameter of a ripe tomato.
This measurement is not random, but will be an indicator for the ripeness of the tomato, as only ripe ones will fit into this special mesh.

# DESCRIPTION

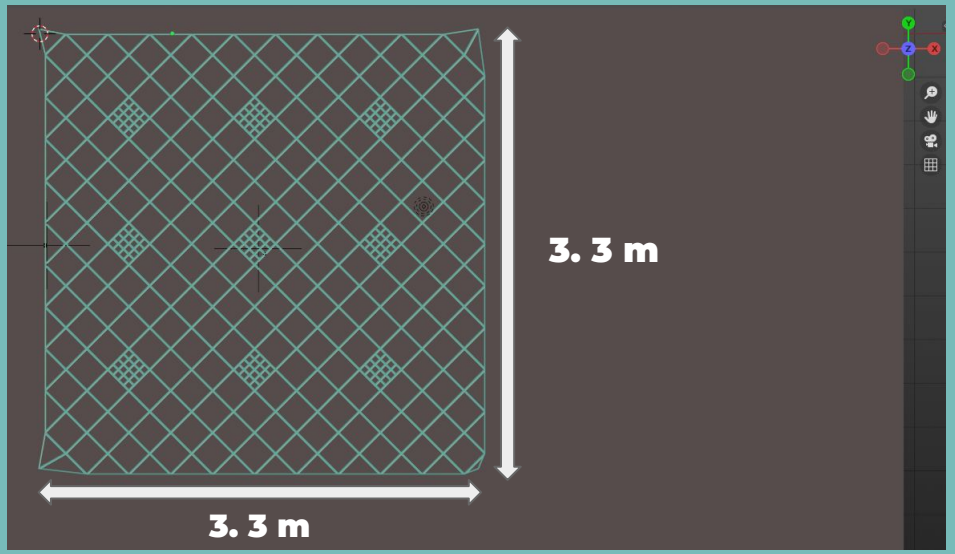

The larger diameter meshes, through a mechanism operated near the point where the net is hooked, close by exploiting the elastic capacity of the net, as if they were shears, in order to cut the stems of ripe tomatoes.
The different height of the plants and the lateral space between them create slopes, which are useful for the cut tomatoes to roll towards the net in excess
Thus harvesting will be greatly facilitated and through a second mechanism also operated by pressing a button at the base, the net will close, causing the four ends to be rejoined.

But let's look in detail at how the tomato's fisherman develops →

# 1. THE NET ON THE GROUND



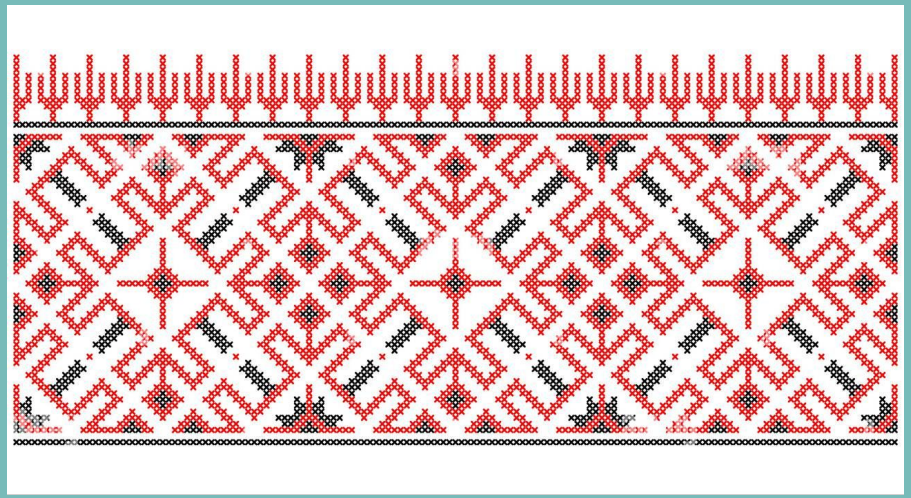
# 1. THE NET ON THE GROUND




- Diameter of the outer mesh for tomato ⟶ 30 cm
- Diameter of the smaller meshes, which will be placed over the seed of the tomato plant ⟶ 25 mm a hole
- Material ⟶ High-density polyethylene, because it is non-toxic, 100% recyclable, high temperature and tensile resistant

The measurements of this net are designed for three rows having three plants for each. The plants are spaced 60 cm apart from each other

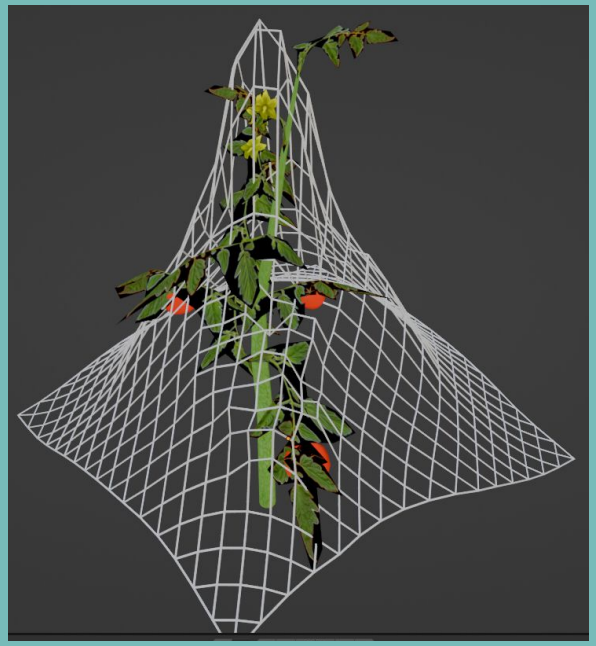
# 2. We love Russian weaving



At the two vertices not connected to the railing, there are embroideries, intending to pay homage to the magnificent Russian manufacturing culture

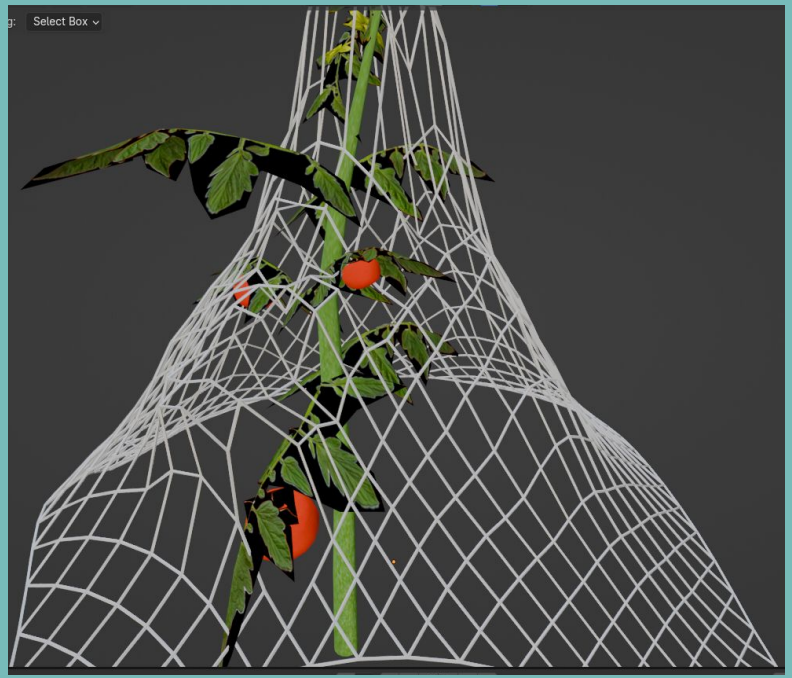
The embroidery has a rectangular shape and the following measurements:

# 3. *THE NET ON THE TOMATO'S PLANT*



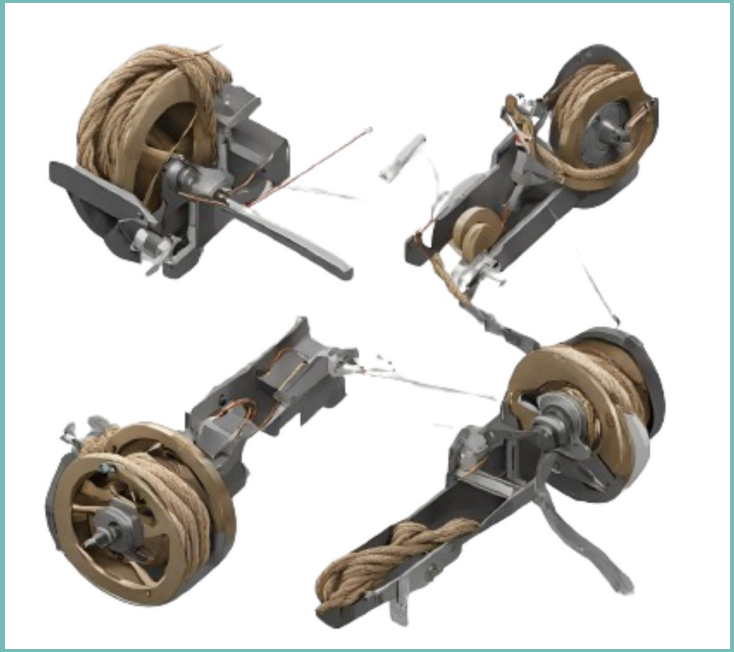
Once the plant has grown, the net will wrap around the plant, creating a kind of cone that goes over it
Having been inspired by anti-bird nets, this system will let you sleep soundly, protecting the plant from unwanted visitors.

# 4. THE NET WRAPS TOMATO



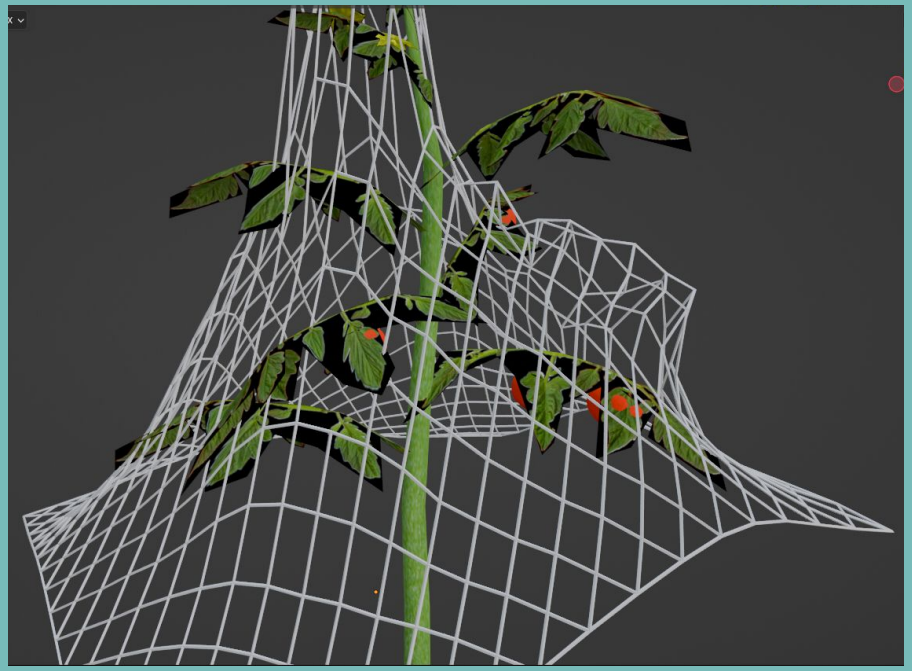

Ripe tomatoes will be the perfect size to be wrapped by the openings in the net

# 5. THE MECHANISM



One rope is pull to close the outer mesh for cutting the fruits stem. The other rope drags the whole net with its fruits when you want to pick up the fruits.

# 6. THE NET CUTS TOMATO

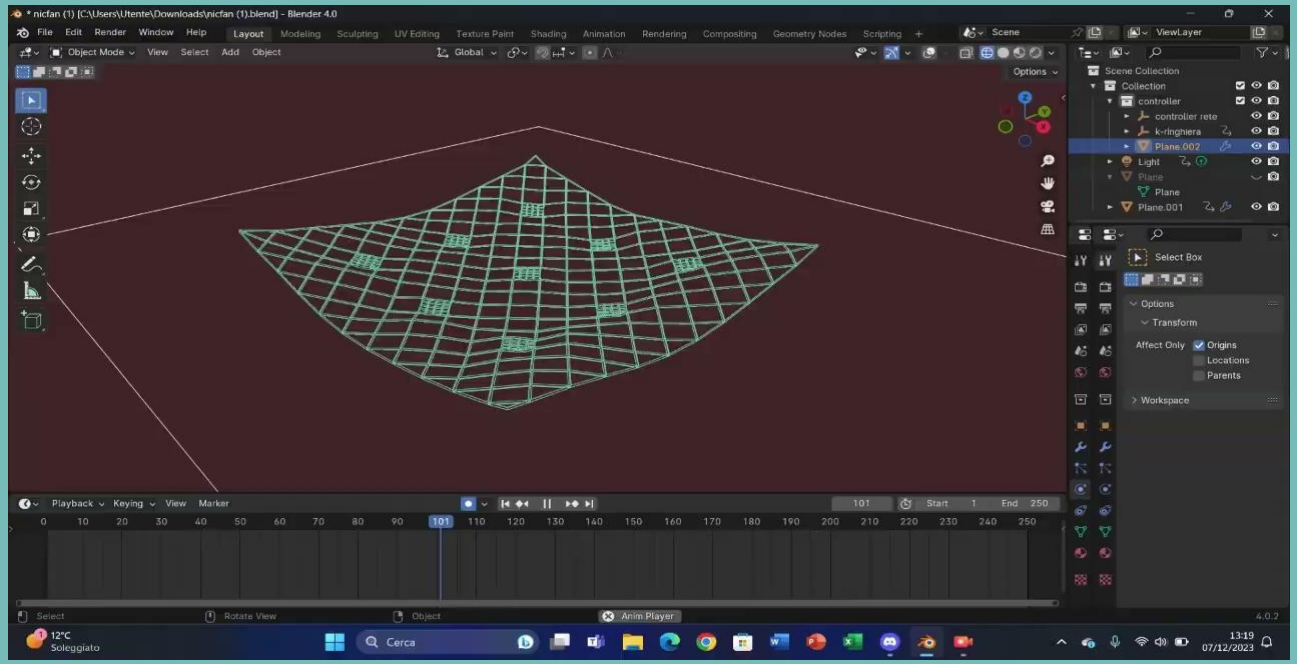


Through a mechanism, the branches of the ripe tomatoes will be cut off, so the tomatoes will fall on the remaining net

# 7. TOMATOES ROLLS

The tomatoes will roll on the net and can be harvested very easily with the second mechanism that can be visualized in the next slide

# 8. RAISING NET




The net proposed here is just to give an idea, in practice the net follows the same closing principle but at different heights as it is placed above the plants

# WHY YOU SHOULD USE IT?

Because not only does this net make harvesting tomatoes much easier, it is also a low-cost system that, above all, does not spoil the field
In addition, weaving for support: Growers often use nets or cages to support tomato plants during growth.

***Ready to become a tomato fisherman? Throw the net into the field and you will be the first to revolutionise the way you cultivate!***

# Thanks for watching!

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