



Universidad de Jaén



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# PROJECT PLAYING.

## INLOGY TO 2D AND 3D BIM PROJECTS

### A sustainable corner in our school.

## INTRODUCTION

### BIM

Building Information Modeling is an intelligent 3D model-based process that gives architecture, engineering, and construction (AEC) professionals the insight and tools to more efficiently plan, design, construct, and manage buildings and infrastructures.



We have decided to use this model to build something useful for our High School, sustainable, efficient and not very expensive. To make our greenhouse we used low polluting materials and renewable sources of energy, including solar power (with solar panels) and drip irrigation.

### INNOVATION OF THE PROJECT

### PROCESS

1. First, we decide the location



2. Then, we measure and dimension

3. We got acquainted with sketchup



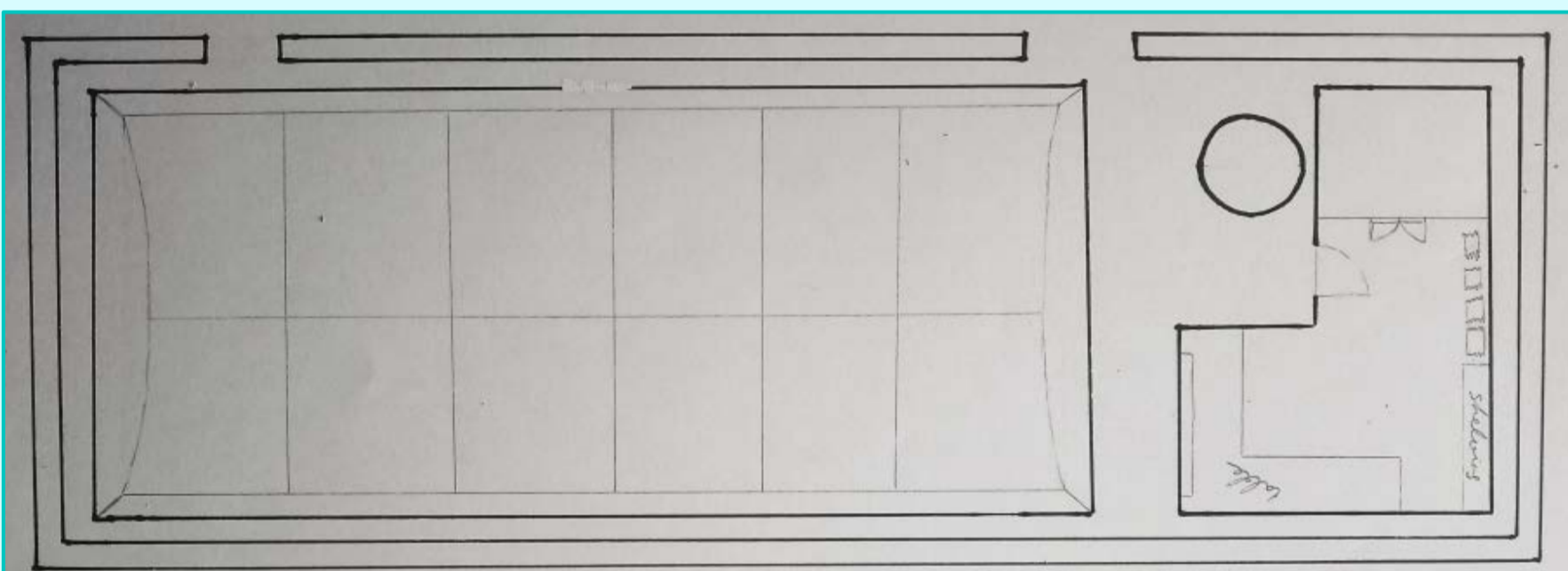
Sketchup is a 3D modeling software that's easy to use and has an extensive database of user-created models

## METHODOLOGY

### PROBLEMS

1. Orientation
2. Materials
3. Type of crop
4. Care
5. Sustainable resources
6. Organization of the terrain

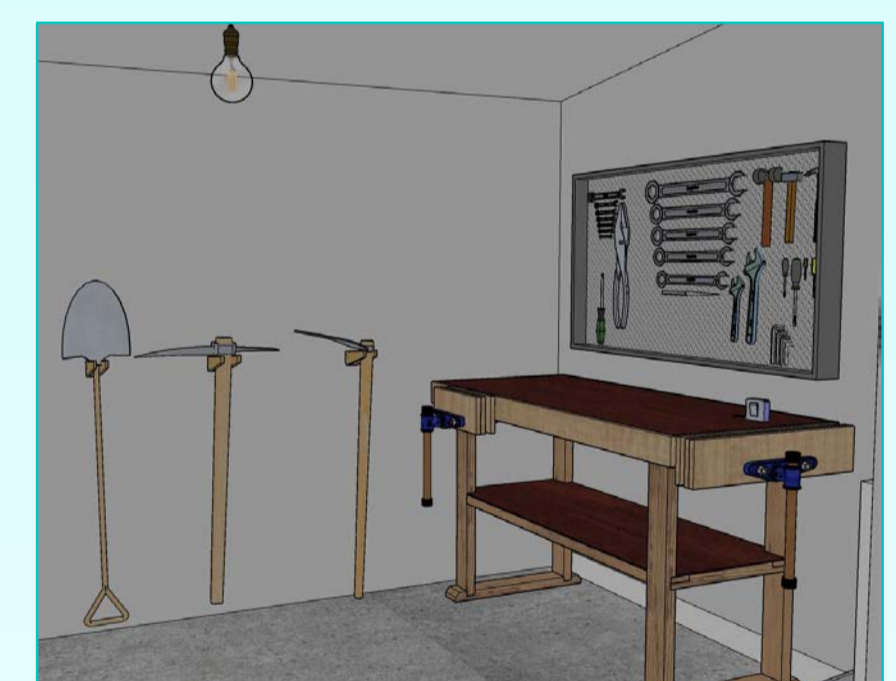
## RESULTS



INITIAL BLUEPRINTS



OUR SUSTAINABLE GREENHOUSE



THE INTERIOR OF THE WAREHOUSE



FINAL DISTRIBUTION

## CONCLUSIONS

This project is very interesting and we have learned. But we have also found new problems that, after considering them carefully, we solved.

1. & 6. When we studied the orientation, the path of the sun and the climate, we put the solar panel and the water bottle on top of the tool house and reorient the greenhouse.
2. & 5. To help the environment, we use renewable, sustainable and efficient materials.
3. By studying the climate of Jaén, the growing seasons and what is used in greenhouses, we decided to plant ...
4. We propose more developed greenhouses, but for this, more care would be needed and we could only use it when we are at school. So, we had to change it and apply the possible care.

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