# SAFEBIS FOLDABLE DISASTER SHELTER

## DESIGN THINKING

Hexagonal shape for sturdiness and identity Foldable mechanism study and cardboard prototype

MATERIALS

Wood, Cork and Cotton:

and the respect for the

ral environment.

A unique combinaition of natural,

Combining the safety of our users

biodiversity and perfect fit in a ru-

sturdy and sustainable materials

#### INTRODUCTION

Every year peolpe become homeless due to disasters

Thus, our mission is to help those people by designing shelters than can be deployed rapidly in disaster areas.

We intend to provide shelters to the people in need.

That is the purpose of The Foldable Disaster Shelter.

## **CONCERNS**

Provide safety
Minimize the damages
people suffered
Be sustainable AND
sustainably manufactured

## METHODOLOGY

Agile Project management
with SCRUM
Technical Functionnal analysis
with Horned Beast and Charts
Market situation study
with SWOT
Communication and stakeholders
analysis

Jelte Bakker

Lore Pauwels

Eduardo Canossa

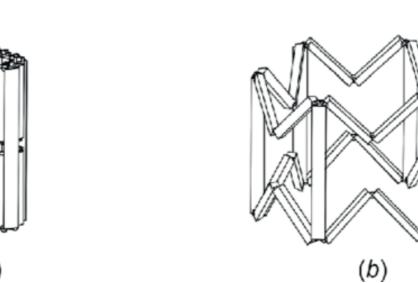
Vladimir Dukoski

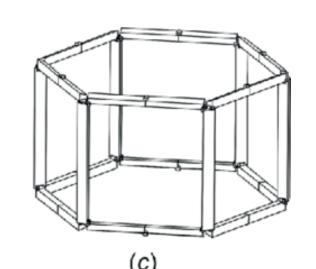
Andreea Popescu

Gabriel Givanovitch

## FOLDING MECHANISM

An innovative design allowing a huge gain of space. From a compact format to the iconic honeycomb shape.





#### **PACKAGING**

Using the cork floor to create a sustainable and aestethic packaging, The idea of creating an origami experience to discover your new shelter

## SIMULATION & SPECS

Using acknowledged CAD software like SolidWork we designed our shelter following strict protocols with simulation of forces and bending moments involved.



