

“The Bed That Grows With You!”

# BEDINNO

By Breaking Bed 

## The Problem & Solution

People are always growing and living situations are always changing, whether you have a child ready to grow out of their crib or you simply don't need the extra space in your bed anymore. In the end, we find ourselves replacing our beds more than we need to. Over time, these practices have contributed to many beds ending up being sent to landfills.

Our solution, “BedInno”, is a bed frame and mattress product that can expand and contract to any size, from a Twin XL to a King. It is designed to accommodate a variety of different sizes with the intention of increasing the potential lifespan of the bed. With our easy-to-assemble and adjustable design, this bed will adapt to your ever-changing needs and remain as a sustainable option!

## The Design

The mattress consists of modular foam blocks that can be purchased and combined to fit any size of the bed frame.

The bed frame has a sliding platform that can simply be pulled from both sides to adjust to the desired size.

## The Team

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## Acknowledgments

Dr. Marjan Eggermont, *Academic Advisor*  
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## Business Model

Our start-up is aiming to manufacture and sell bed products directly to the consumer. Our practices and values are aligned with the delivery of a quality product that is a sustainable and unique alternative relative to modern beds commonly available in today's market.

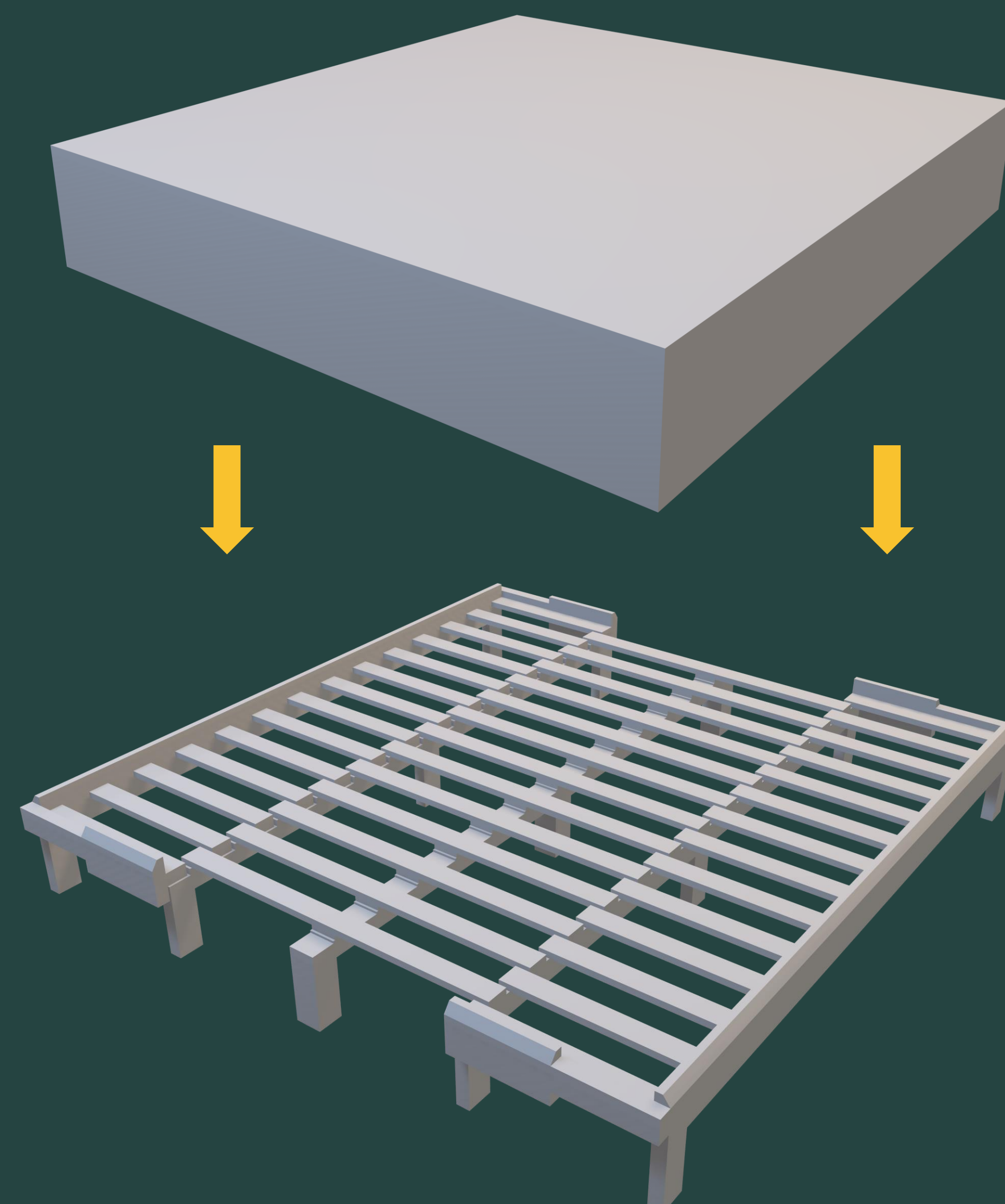
Our key revenue streams would be generated from sales of our product through marketing and advertising avenues.

## The Loads

The following displacement results were obtained via Finite Element Analysis completed using Autodesk Fusion 360® software:

Single XL: 0.4813 mm ↓  
Queen: 0.2558 mm ↓  
King: 0.03024 mm ↓

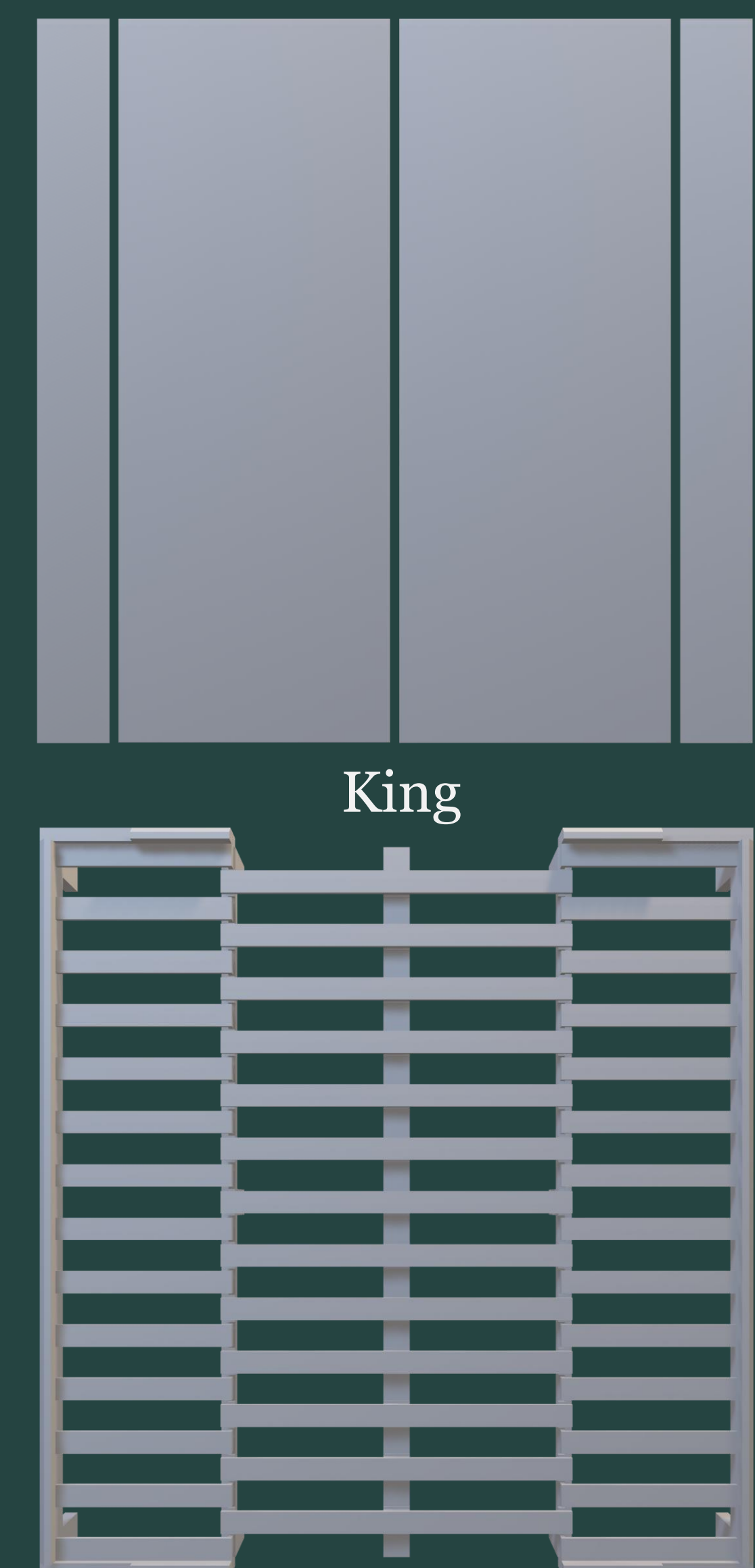
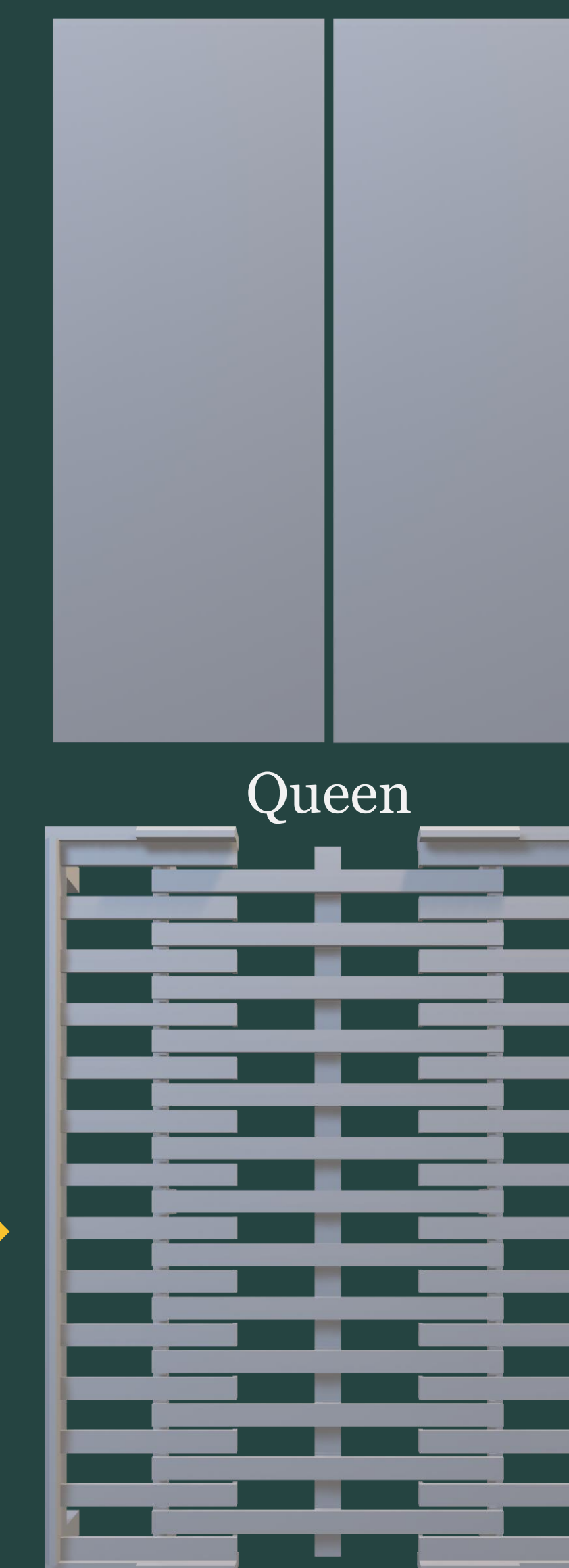
## 3D Model



## The Layout

The Mattress

The Bed Frame



## The Making

Building progress of the bed all done in the team's personal garage.

[Start: Feb 23, 2023]

