COVERED BIKE TREE
39.3 million American ride bicycles (age 7+)

5000 MIT Bike owners

2500 use outdoor racks
Customer Needs

WEATHER

SECURITY

SPACE
Bike Tree
Requirements

- Stability
- Footprint efficiency
- Lifting/lowering mechanism
- Appealing user Interface
- Load Capacity

To store their bikes
To secure their bikes
To protect their bikes
More storage spaces
Something EASY to use
Sketch Model A

**Goals**
- Scale
- User Process & Challenges

**Successes**
- Size
- Raising & Lowering

**Improvements**
- Two-person operation
- Difficulty loading
- Difficulty raising
**Goals**

- Explore non-electrical concept

**Successes**

- Spring assisted lifting

**Improvements**

- Need a “catch”
- Lowering against the spring tension
- Multiplication
Looking forward...

- Structural challenges feasible
- Challenge in designing process and user experience
- Explore new loading systems