There’s no bike like a Snobike!

Team 16:
Matthew Milan
Matthew Brouwer
Jen Meneely
Justin Karsten
The Snobike Team

Team Members (in order): Matthew Milan, Matthew Brouwer, Jen Meneely, Justin Karsten
Problem

- Current bikes cannot function properly on snow
- Those who rely on bikes are forced to find other methods of transportation
- There are few environmentally friendly modes of transportation that work well in the winter.
Solution

- A bike that can work during any season –
  - Changeable skis at the front tire
  - Tread in place of a rear tire
  - Gearing system that will allow for easy travel across snow and resist saltwater corrosion
Alternatives

- Walking
- Regular bike
- Driving
Design Norms

- **Transparency**
  - Be obvious in design and usability.

- **Stewardship**
  - Provide a low cost, environmentally friendly mode of transportation in all seasons

- **Trust**
  - Provide a reliable solution to seasonal transportation hazards
Challenges

- **Tread**
  - Must be thin enough to effectively move but wide enough to provide stability
  - Must be easy to change (for when tread wears down)

- **Skis**
  - Must be able to easily change between front tire and skis
  - Must provide stability
Challenges (Cont.)

- Gearing System
  - Must be resistant to saltwater corrosion
  - Must provide enough torque to tread system while keeping required pedal power low
  - Must allow for rider to change gears while riding
Christian Faith in Design

- Reduce dependence on fossil fuel powered vehicles to further preserve creation
- Provide an inexpensive method of transportation for those who rely on bikes for transportation
- Create a safer and more reliable mode of transportation that works during any season
Questions?