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Power of a Nation

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Power of a Nation

- James Parker
- Connor Smith
- Corbin Swagerty
 - Seth Dennis
 - Robin Hood
 - Joe Esau

Where we came from

- Rowing Machine
 - Need more power
- Bike Machine
 - Better design
- Needed to increase focus of our impact
 - Meet with Dean

Evolution of the Idea

- Met with Dean Orsak
 - •Got advice
- •Suggested we re-evaluate our design process and help US Border slums, the Colonias
- •Connected us with architect, Brent Brown
- Decided to gather research and plan a trip to go down to the border

Road Trip to Colonias

Hidalgo County:

- •County pop. 726K
- •Colonia pop. 400K
- •Predominently Hispanic
- •64% US citizens
- •85% of residents under 18
- •Approx. 2,300 colonias along the southern Texas border.
- •San Carlos colonia sits below sea level, similar to a bowl.



Goals

- 1. Connect with Danny Diaz of LUPE
- 2. Assess current conditions
 - Flood capabilities
 - Public lighting
 - List of community's top concerns
- 3. Debrief and discuss how our diverse skill sets can most effectively be used.

Current Flooding Situation

- 1. Cinder blocks
- Dirt hills ranging in height from 1.5' to nearly 6'
- 3. Sump Pump
- 4. Occasional sand bags.
- 5. House raised ~16 inches
- 6. Knee height water on average.
- 7. Water runs into houses.
- 8. Sitting water for days on end
- 9. School buses refuse to run during flooding.





Lack of Community Support

- 1. Build on their own homes
- 2. Neighborhood cleanup
- 3. Discontinuous sidewalks





Community Concerns

- 1. Flooding
- 2. Public Lighting
- 3. Septic tank overflow
- 4.Clean water
- 5. Community support
- 6.Inadequate political representation
- 7.Language barriers
- 8.Unemployment

Key Problems

- •1)Flooding
 - Drainage
 - Septic Tanks
- •2)Public Lighting

Flooding

- Why flooding is a significant problem
 - Geography
 - Water Drainage System
- Why flooding is a priority
 - Health hazards
 - Water damage
- Goals and Solutions

Possible Alternatives

- Prevent water from reaching house/damaging foundation of the homes
- Find a way to transport water away from the house or redirect
- Prevent an overflow in the septic tanks

Public Lighting

- Crime
- Set up system or
- •Individual units

Timeline & future

- October
 - Gather Research
 - Visit Colonia
- November
 - Establish our problem
 - Goal setting
- December
 - Design/Plan

- Jan/Feb
 - Build
 - Test
- March
 - Visit
 - Implement
 - Recruit

Questions and comments