### Sustainable Urban Gardens

**Javier Mazo-Nido (BME), Ronelle LeBlanc (CEE), Will Farrar (MGE)**

**Advisor: Professors Robert Traver & Kristin Wobbe (GPS)**

#### Problem
- Food deserts → no access to nutritious food within a 10 mile radius
- Food deserts cause obesity
- No transportation

#### Data

**Food Deserts in Southern Florida**

#### Urban Garden Model

#### Solutions
- Rooftop Gardening
- Window Gardening
- Container Gardening
- Garden in a Sack

#### Benefits/Costs

<table>
<thead>
<tr>
<th>Method</th>
<th>Benefit</th>
<th>Cost ($)</th>
<th>Example Crops</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rooftop Garden</td>
<td>accessible food</td>
<td>30-200 per ft²</td>
<td>cucumbers, lettuce, cantaloupe</td>
</tr>
<tr>
<td>Window Gardening</td>
<td>use recycled materials, food is inside</td>
<td>20 per window</td>
<td>cherry tomatoes, herbs</td>
</tr>
<tr>
<td>Container Gardening</td>
<td>food in backyard, use recycled materials</td>
<td>45 per household</td>
<td>carrots, celery, beans, cucumbers</td>
</tr>
<tr>
<td>Garden in a Sack</td>
<td>takes up little space, food is accessible</td>
<td>30 per sack</td>
<td>potatoes, tomatoes, onions</td>
</tr>
</tbody>
</table>

#### Approach/Means/Mechanism
- Provide knowledge
- Make Gardening kits available

#### Assessment Plan
- Observe changes made

#### References
- [Obesity in Florida](http://farm5.staticflickr.com/4149/4985810349_ab52ff?04_b.jpg)
- [Window Gardening](http://our.windowfarms.org/files/2010/06/100_2912.jpg)
- [Garden in a Sack](http://containergardening.files.wordpress.com/2011/08/p1070053.jpg)