Manual Wheelchair + Smart Power Assist

Craig Broady, 2011
Memasa, 2010
Exhausting day
10 ramps
15 minute bursts x 4
Intended Customers
On-the-go
Limited strength

Melody Kuna, 2011
ASCENT Demo
Force Sensing Wheels

Central Control Unit

Power Train

Photos: Melody Kuna, 2011
Quick Release Wheels

Melody Kuna, 2011
Strain Gauge
Force Sensors

Craig Broady, 2011
Hub Sensor Transmitter
Central Control Unit

Melody Kuna, 2011
Power Train

Melody Kuna, 2011
<table>
<thead>
<tr>
<th></th>
<th>Ascent</th>
<th>E-motion</th>
<th>Xtender</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight</strong></td>
<td>20 lbs</td>
<td>65 lbs</td>
<td>35 lbs</td>
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<tr>
<td>*<em>Price</em></td>
<td>$3400</td>
<td>$8100</td>
<td>$5800</td>
</tr>
</tbody>
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*including $2000 wheelchair frame
Predicted Wheelchair Market ($Millions)

Source: Frost & Sullivan
Predicted Cash Flow ($Thousands)

- Initial investment of $466,000
- Profitable after one year
- Breakeven in year 3
- Internal rate of return of 22%
Many Thanks To...