TranSit

Transforming Public Transportation

Silver A
Product Vision: Retracting Seat

Transform public transportation systems to accommodate peak and off-peak demand
Learning from the Sketch Model

- **Motion**
- **Usable, Intuitive**

? **Materials, Structural integrity,**
**Space-saving capacity,** **Users**
Space-saving, Intuitive, Adaptable Seat
Critical Risks: Adapting to Commuters’ Needs

**Materials**—structural integrity
   Spec to 300lbs on seat edge

**Usability**—force required
   10lbs upward force to retract seat

**Height**—window coverage
   48 inches

**Safety**—pinch-points
   eliminate
## Key TranSit Specifications

<table>
<thead>
<tr>
<th>Customer Need</th>
<th>Attribute</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easy, fast deployment</td>
<td>Deployment time</td>
<td>Less than 4 seconds</td>
</tr>
<tr>
<td>Saves space when retracted</td>
<td>Percentage of footprint saved when retracted</td>
<td>&gt;85%</td>
</tr>
<tr>
<td>Standard seat size and weight capacity</td>
<td>Same size, weight specs as available seats</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Key Findings—Customers

• Key Customer Needs
• 20-50% increase in T capacity/car
• No IP infringement
Remaining Concerns & Design Options

- Automatic stowing
  - Spring loaded
  - Motorized actuation
- Locking
- Installation
- Cost