Getting Lost is Dangerous

“Before they ran out of air, they usually were lost.”

Rick Lasky, Chief, Lewisville (TX) Fire Department
Identifying Needs

Simple to Use

Work in Large Buildings

Lightweight
Our Vision

An indoor location tracking system for large buildings that is simple to use for firefighters
Mockup Tests

An **indoor location tracking** system for large buildings that is **simple to use**
Location Tracking Technology

Wearable Receiver

Transmitters
# Product Contract - Technology

<table>
<thead>
<tr>
<th>Customer Needs</th>
<th>Product Attributes</th>
<th>Engineering Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accurate in Location Detection</td>
<td>Accuracy Range</td>
<td>&lt; 1.5 meters</td>
</tr>
<tr>
<td>Able to Detect in Large Buildings</td>
<td>Detection Range</td>
<td>&gt; 45 meters</td>
</tr>
</tbody>
</table>
Tracking Technology Mock Up

Lesson Learned

Accurate but not precise enough
Transmitter Housing Mock Up

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<tr>
<th>Customer Need</th>
<th>Product Attribute</th>
<th>Engineering Specification</th>
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<tbody>
<tr>
<td>Simple to Use</td>
<td>Setup Time</td>
<td>&lt; 30 sec/Transmitter</td>
</tr>
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</table>

![Image of simple to use transmitter housing mock up](image1.png)

![Image of setup time transmitter housing mock up](image2.png)
Next Steps

- Explore other tracking technologies
- Create Location Display
Citation