**Problem**

- Early warning systems are not robust
- Lack of effective communication technology in the immediate aftermath of disasters
- Lack of a robust data communication during rehabilitation

**Opportunity**

- Average disasters = 350 to 400 per year
- Humanitarian Funding (2010) = 6 Billion USD
- Expenditure on Planning, Communication, Coordination = 15%

**What is LifeNet**

- Software installable on
- WiFi based ad hoc network for use in the FIELD
- Hardware

**Stakeholders**

- End-users – Disaster relief agencies, technicians, disaster victims
- Field partners – JTCDM
- Technology partners – Hardware manufacturers, retailers,

**Value Proposition**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requires no infrastructure</td>
<td>Hassle-free, instant deployment</td>
</tr>
<tr>
<td>Runs on consumer devices</td>
<td>No extra hardware required</td>
</tr>
<tr>
<td>Hardware is compact</td>
<td>Convenient and users can be mobile</td>
</tr>
<tr>
<td>Ad Hoc Communication</td>
<td>Users can be flexible / mobile, Increased reliability, no single point of failure</td>
</tr>
<tr>
<td>Low cost</td>
<td>Even small organizations can afford</td>
</tr>
<tr>
<td>Since LifeNet is layer 2.5, it can support changing technologies</td>
<td>Users do not have to rely on specific hardware if they do not want to</td>
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<td></td>
<td>All users can access internet even if only a few users have direct internet connectivity</td>
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</tbody>
</table>

**Status**

- Partnered with Jamshetji Tata Centre for Disaster Management (India)
- Deployment Area selected – Guhagar, India (cyclone-prone zone)
- Preliminary field trips and data collection conducted
- Deployment will commence in April 2011

**Why LifeNet**

[Current System]

- Disaster
- Infrastructure destroyed
- Response dispatch
- Few hours
- Day 1

[Why LifeNet]

- Relief
- Organized relief work
- Day 1
- Improved coordination
- Lives saved

- Right Resources for right needs at right time
- Infrastructure restoration
- Day 1 or 2
- Time lag proves critical
- 1 or 2 weeks
Day 1

Disaster

Infrastructure destroyed

Emergency response dispatch

Relief work begins

Infrastructure restoration begins

Lack of communication resulting in lack of coordination in efforts

Basic infrastructure up

Coordination in efforts improved

Few hours

Day 1

Day 1 or 2

Time lag proves critical

1 or 2 weeks

[Current System]

[Why LifeNet]

Relief work begins

Organized relief work from the beginning

No time lag for communication!

Right Resources for right needs at right time

Improved coordination

Lives saved