ntt∞mit
Project Overview

- ## Research areas
  - Communications architectures
  - Networks of devices
  - Remote monitoring
  - Medical signal processing

- ## Specific goals
  - Construct a multi-tiered medical sensor net
  - Demonstrate useful applications of sensor fusion
  - Assure properties related to safety criticality

Progress Through December 2001

- Built prototype device manager

- Built remote monitoring software
  - Wireless on handhelds

- Attached two physical devices to net
  - Electronic stethoscope, infusion pump

- Built proxies for synthetic devices
  - Robust heart rate, cardiac annunciator

Research Plan for the Next Six Months

- Solidify infrastructure software
- Work with clinicians to gather data
  - EEG, acoustic
- Build novel proxies
  - Seizure detection, mitral valve prolapse detection
- Port remote monitoring capability
  - To 3G phones