Project Overview

- Device network architecture

  – Decentralized, robust, distributed

- Resource discovery, mobility, location awareness

  – Intentional Naming System (INS)

  – Cricket location-support system

- Apps: *Floorplan*, active map, *Camera* (mobile camera service), *TV Jukebox*...

Progress Through June 2000 (from January 2000)

- Implementation of Cricket v1.0
  - Technology based on RF + ultrasound
  - Preserves user-privacy; low cost
- Self-configuring overlays in INS
- Design of *Migrate*, a purely end-to-end mobility architecture
  - Dynamic name updates to track hosts
  - Secure connection migration for mobility

Research Plan for the Next Six Months

- Integrate active map app with Cricket
  - Other pervasive computing applications
- Implement and evaluate *integrate*
- Power consumption and scalability experiments with Cricket
- Evaluation of wide-area service discov using INS