Intel Mote
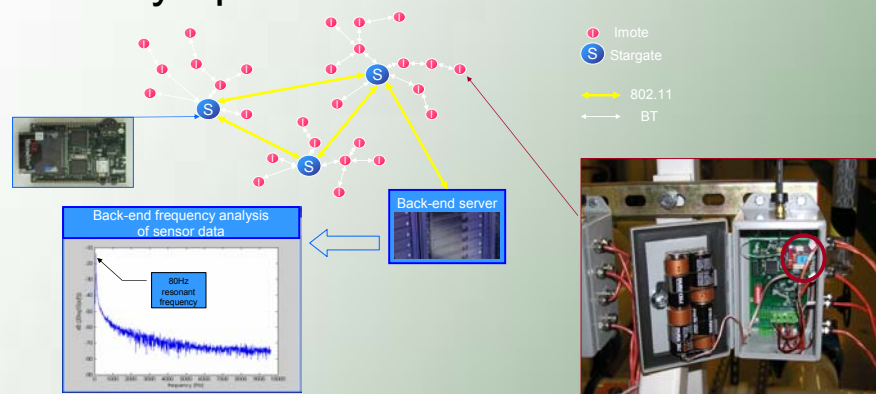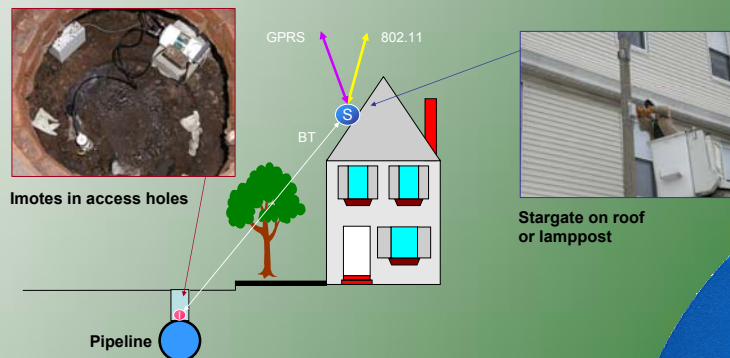## applications

Equipment vibration monitoring pilot
- Motes connected to vibration sensors
- Data collected at periodic intervals
- Reliable transfer to cluster head (Stargate)
- Battery operated nodes

Water pipeline monitoring pilot
- Motes connected to pressure/pH sensors
- Data collected at periodic intervals
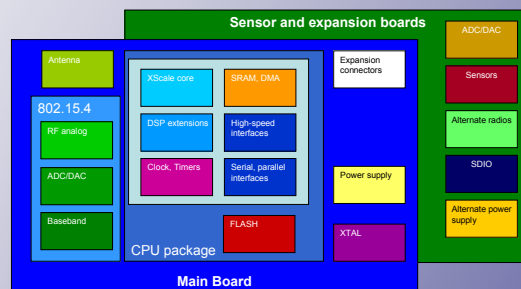- Reliable transfer to cluster head (Stargate)
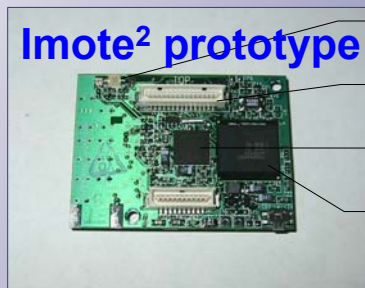- Battery operated nodes

Research at Intel

Intel Mote 2

Second generation Imote

- Intel XScale: scalable performance
- 802.15.4 standard radio
- Multiple radio support
- SDIO expansion capability
- USB connectivity
- Lower voltage/power operation
- DSP enhancements
- Prototypes: mid 2005
- TinyOS 2.0 support

Imote^2 prototype

- Color status LED
- Expansion connectors
- Power supply
- XScale CPU

Bottom: Radio, antenna, USB, advanced expansion connectors

Research at Intel