A Smart Wireless Sensor Network for Monitoring Hawaiian Mountain-to-Sea Environments

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InteleCell Next Generation
(with compatible hardware)

- LCD Display / Keypad Menu
- 10W-20W Solar Panels
- Cellular Base Station / Antenna
- MiFi Mobile Hotspot
- Vaisala Weather Station
- InteleCam Image Sensor
- 900 MHz Long-Range RF Module (Xtend)
- 900 MHz Short-Range RF Module (XBee)
- Omni-Directional and Directional Yagi Antennas
- Built in Wi-Fi / Ethernet / GPS
- YSI 6920 Multi-Parameter Sondes
- HOBO Weather Station and compatible sensors
- Stage Height Sensors
The Research Cyberinfrastructure Core (RCC)

Developed at the University of Hawai‘i at Mānoa with NSF EPSCoR investment for researchers to transform ‘data into knowledge’. Integrates environmental monitoring with secured data acquisition and management, fusion and integration, analyses and visualization.