Building Hawaiian Smart Software Capacity

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"What information consumes is rather obvious: It consumes attention of its recipients. Hence a wealth of information creates a poverty of attention"

Herbert Simon, 1971

IT Trends

- **Accelerating global data storage gap**
  - In 2006 data creation equaled storage capacity
  - In 2011 storage capacity will be deficient by 1 zettabyte
- **Convergence of wireless platforms will generate more opportunity for smart software**
  - Almost one cell phone for each person on planet
  - Transition to smart phones, tablets, sensors and apps
  - Bandwidth explosion
  - Smart dust is coming
- **US IT spending**
  - 2008 equaled $400B
  - 2017 projected to be $800B
  - Most growth projected to be in smart software

Tools to Capture the Opportunity

- Access to broadband networks
- Indigenous highly skilled workforce
- Innovation friendly ecosystem
- Access to investment capital

Why Smart Software for Hawaii?

- Center of Pac Rim with diverse connected population
- Health sciences, SOEST and astronomy strengths
- DoD supercomputing and AMS data centers
- US Military presence and needs
- Enhance local business with smart real time services
- 2008 Hawaii Broadband Plan
    - +7% Broadband adoption = $578M economic impact
- Smart software is supply chain free

Ten Year Hawaii Smart Software Vision

- **Ubiquitous broadband** coverage of state
  - Wired and wireless
  - Open to both space and fiber optic landings
- **Indigenous workforce of best and brightest**
  - Trained in UH System
  - Community college through post doc
  - Grow computer and math from 1.4 to 2.5% of workforce
- **Supports growth in research grants**
- **Builds smart software industry servicing local business sectors**
- Creates smart software and services exports

Challenge Ahead

- Implement 2008 Broadband Plan!!!!!!!
- Build UH system wide smart software capacity
  - Funding to attract best and brightest
  - Interdisciplinary School of Smart Software
- Build innovation friendly ecosystem
- Seek critical level of investment funds
- Build a necessity for speed of actions