

# SensorNet

Data Systems Sciences & Engineering Group

Computational Sciences & Engineering Division



The image shows two slides from a SensorNet presentation. The top slide features the SensorNet logo and the tagline 'The New Science of Public Protection and Awareness'. It lists four key capabilities: Intelligent Collection, Intelligent Processing, Intelligent Dissemination, and Knowledge Generation. The bottom slide illustrates the architecture with 'Many Sensors' and 'Many Applications' feeding into a central 'One Knowledge Network'. A central blue oval highlights the network's characteristics: 'Ubiquitous, Intelligent Processing' and 'Plug and Play Open and Extensible'. Surrounding this oval are various images of sensors, a control room, a boat, a crane, a map, and a fire truck.

- **Problem Statement:**

- Build a comprehensive incident management system for near-real-time detection, identification, and assessment

- **Technical Approach:**

- Build a common data highway for the processing and dissemination of data sensors in order to provide near-real-time information
- Create a system of systems consisting of
  - SensorNet node hardware and software
  - Web service interfaces
  - Relational database
  - Client applications

- **Benefit:**

- SensorNet is a robust data architecture and infrastructure that supports plug-and-play sensors of various types, archival storage of sensor data, standards-based publication of sensor data, and sensor control services

- **Technology Readiness Level 9**

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