**Synergy: A Policy-driven Information Sharing Infrastructure**

**Goal:** To create a generic framework for sharing information that enables: ① information exchange across multiple security domains, ② use of policy-driven, attribute-based authorization via trust negotiation, and ③ abstraction of information sources and consumers for flexibility.

**Approach:**
- Decouple information sources and consumers from the dissemination mechanism
- Use TrustBuilder for trust negotiation between source and client domains, based on high-level policies
- Provide a platform-independent way for information interchange

**Mechanism:**
- Clients request information on behalf of end-applications
- Information sources set access policies
- Triggered by requests, trust agents negotiate access authorization
- Servers provide information in response to authorized requests

**Synergy Infrastructure Components**
- **Synergy Servers** provide negotiated access to resources
- **Information Sources** set policies for access to information
- **Trust Agents** negotiate access to information on behalf of Synergy clients and servers
- **Synergy Clients** fetch communicates with server, provides resources to local application
- **Information Consumers** interpret and use the information

**School policies** allow video feed to be shared only during emergencies.

**Example: VisiRescue Situational Awareness system using Synergy**

**In a Disaster Scenario, Emergency Operations Center requests and gains information via Synergy:**
- Emergency Operations Center needs a video feed from the school during a fire
- Access to video feed dynamically authorized during disasters via trust negotiation
- Retrieved info projected on GIS display