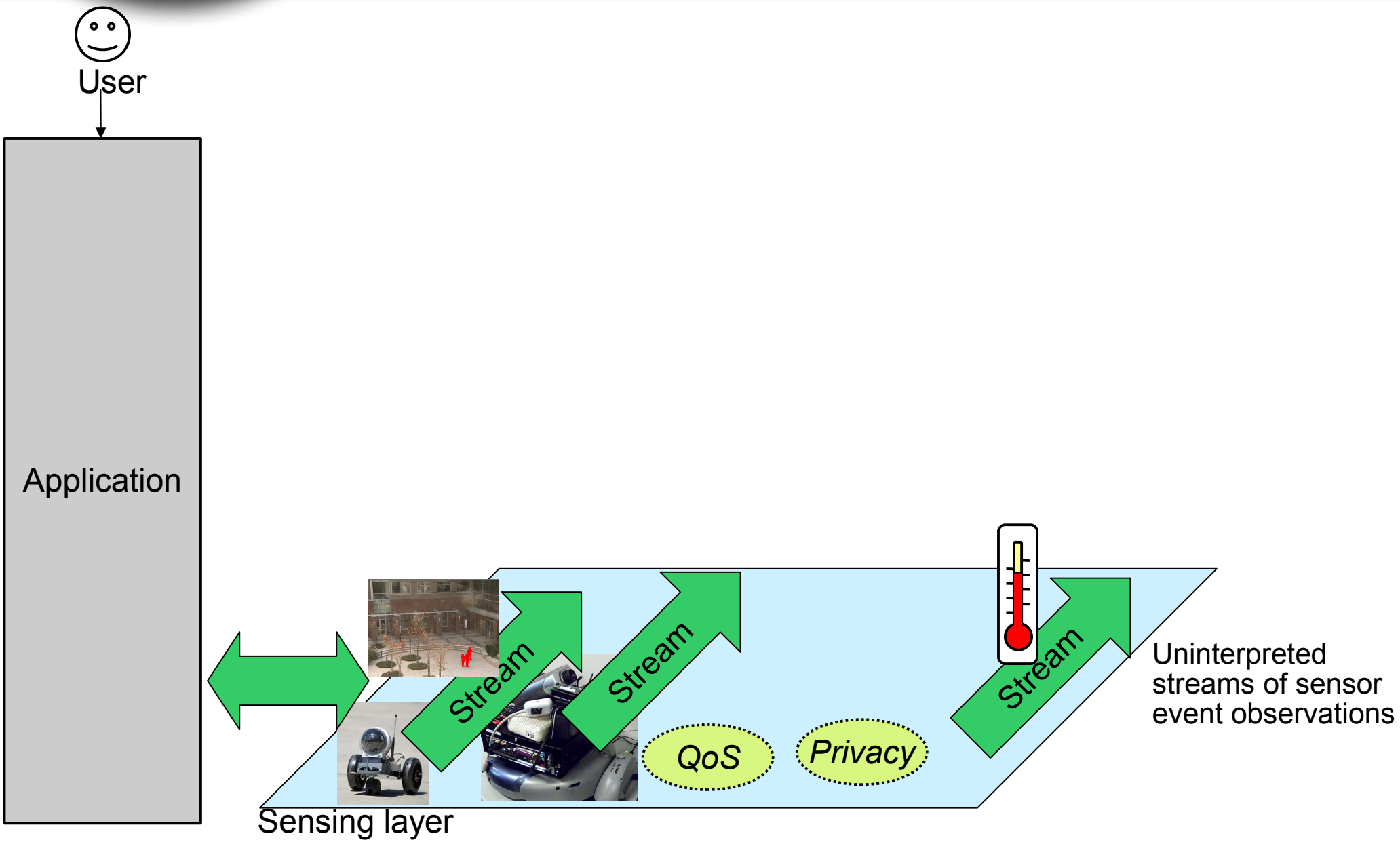
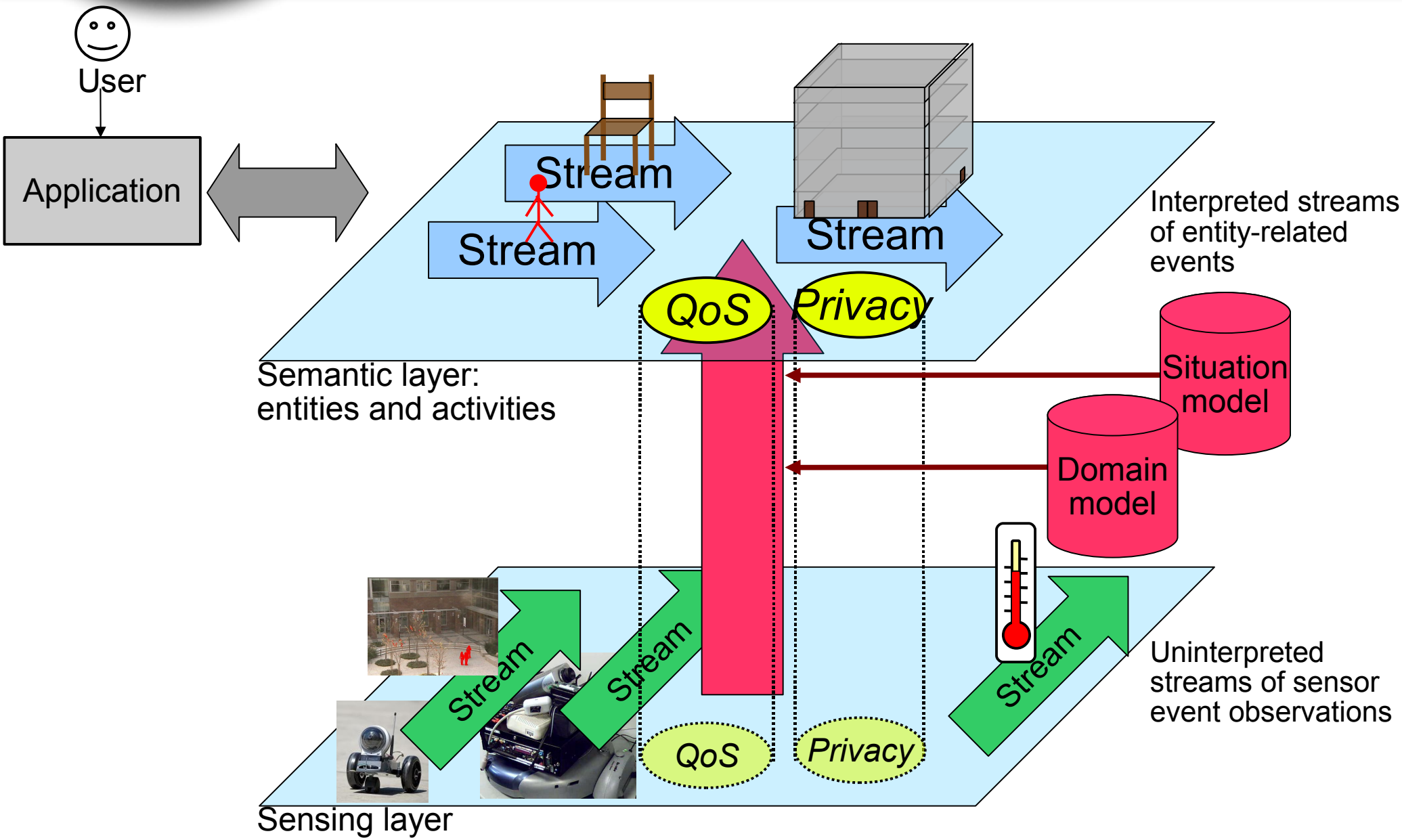
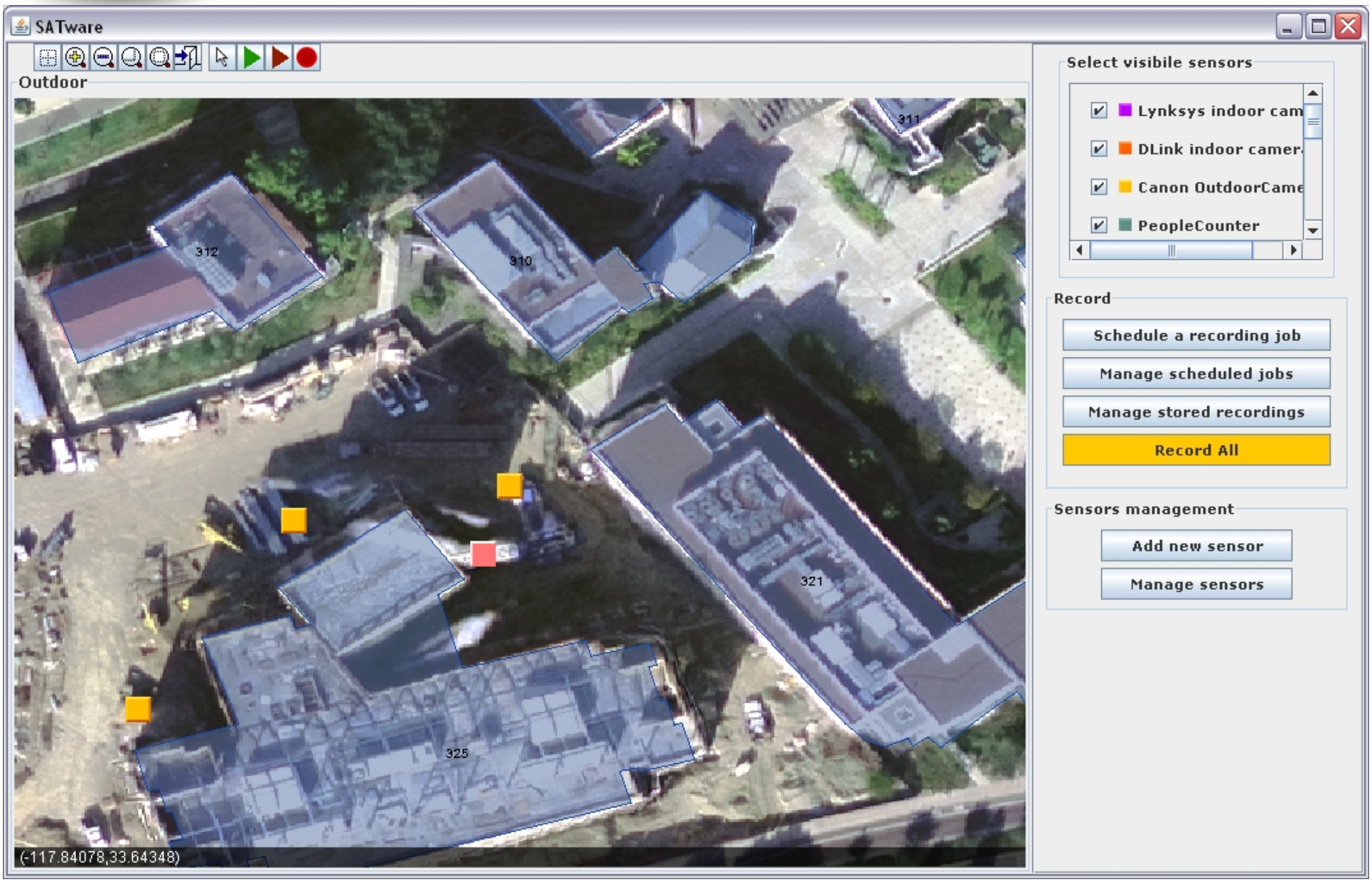
Traditional sensor network



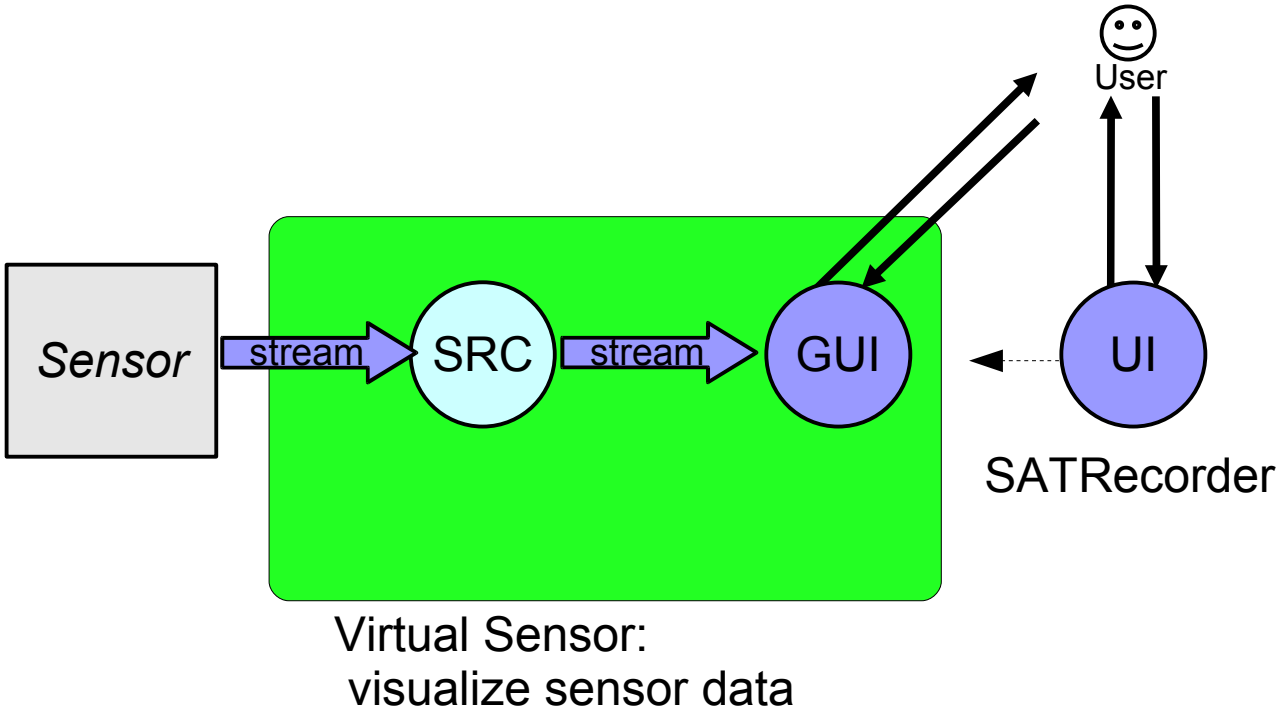
Semantic Layer



SATRecorder

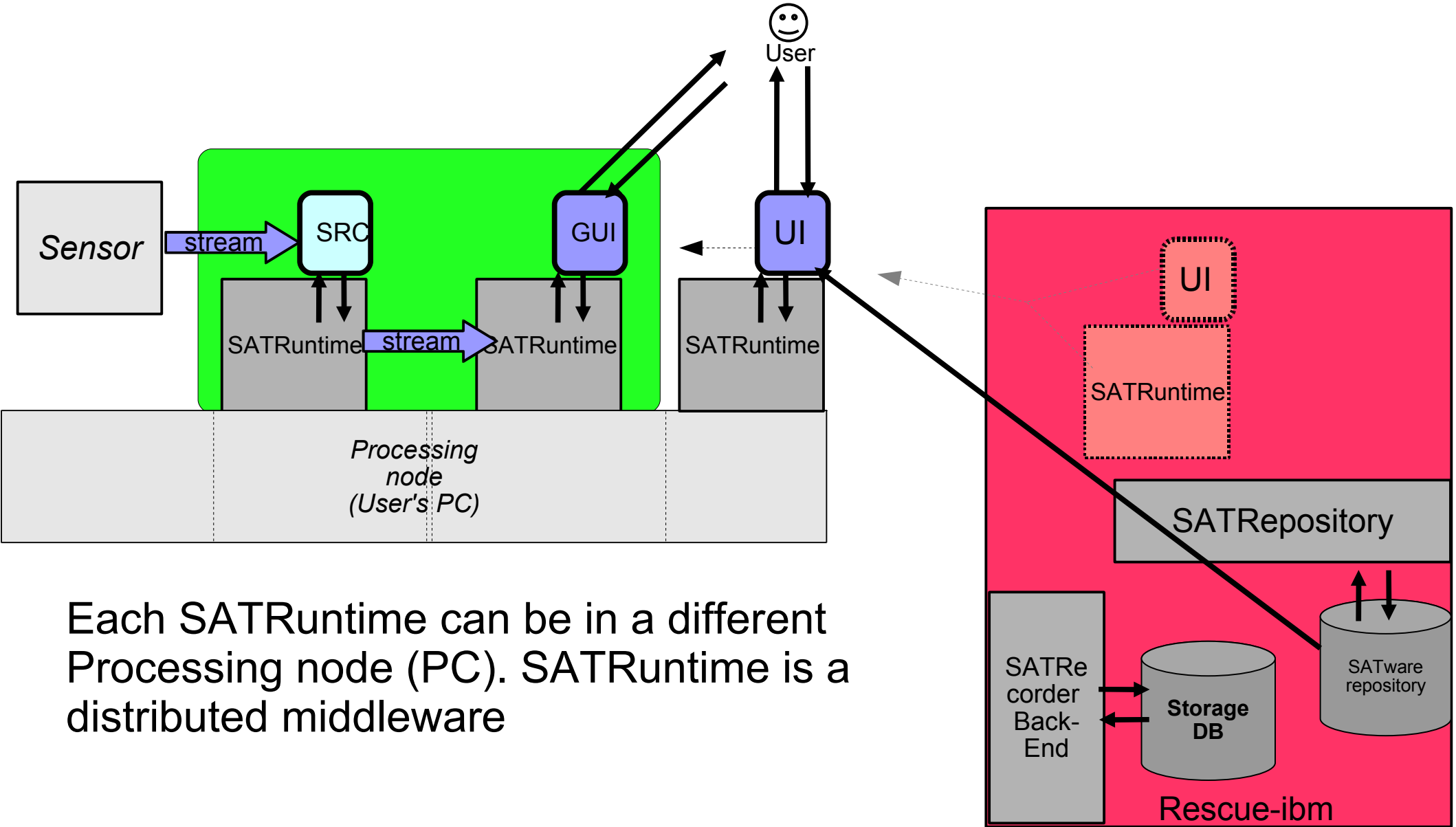


A query



User asks SATware UI to visualize/connect to a sensor -> SATware UI instantiates a predefined virtual sensor.

A query: implementation

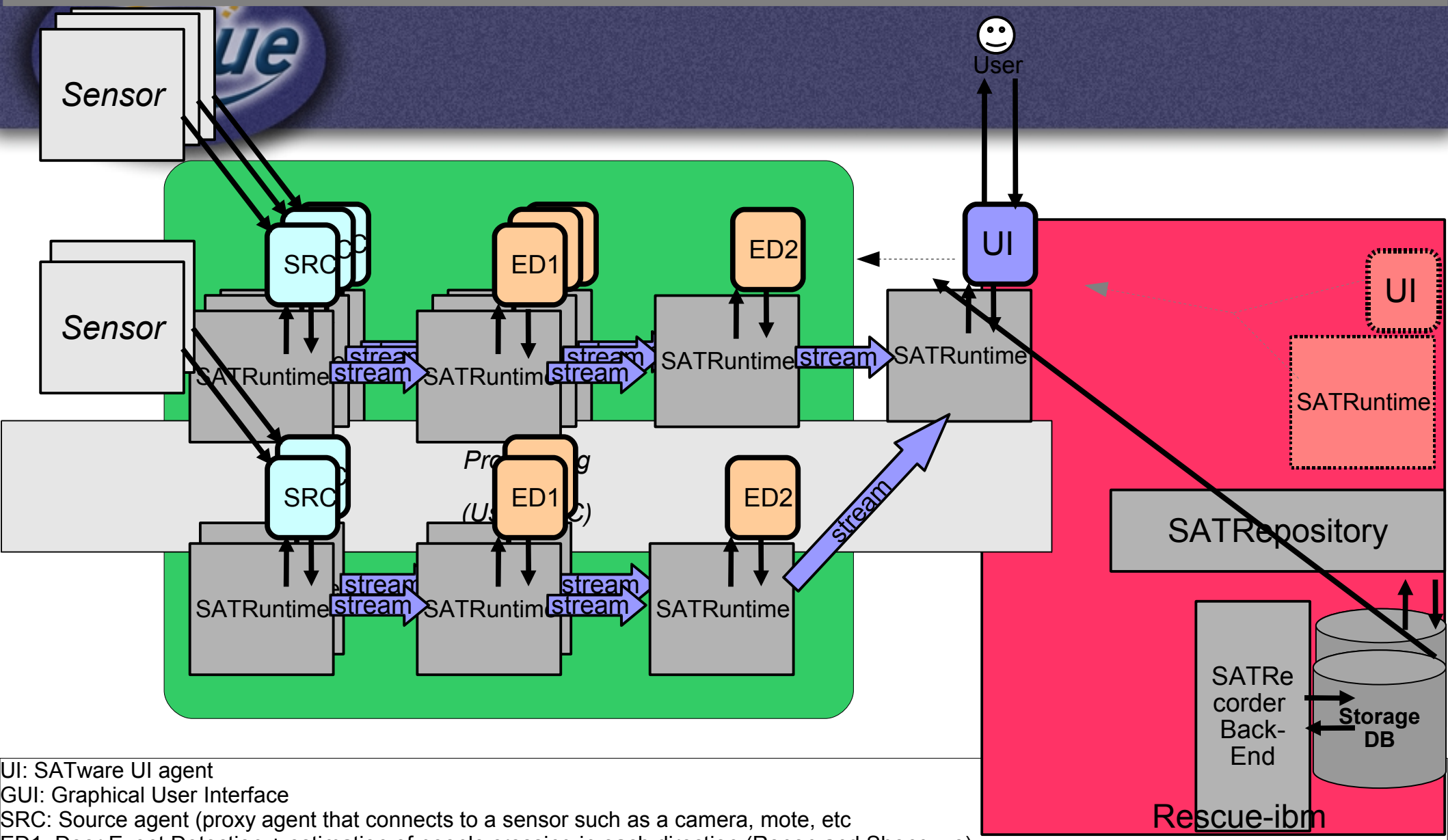


Each SATRuntime can be in a different Processing node (PC). SATRuntime is a distributed middleware

rescue

Responding to Crises
and Unexpected Events

User asks SATware UI to visualize event x from sensor set y -> SATware UI instantiates a predefined virtual sensor.
> SATware UI receives event tuples and visualizes them



UI: SATware UI agent
GUI: Graphical User Interface
SRC: Source agent (proxy agent that connects to a sensor such as a camera, mote, etc
ED1: Door Event Detection + estimation of people crossing in each direction (Ronen and Shengyue)
ED2: Area (e.g. room) estimated occupancy