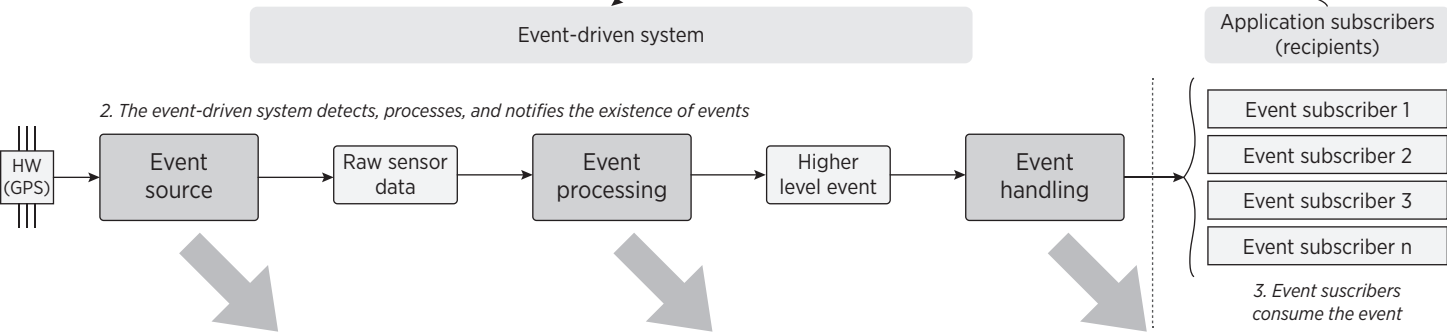
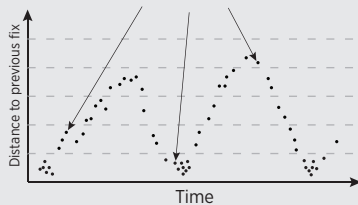


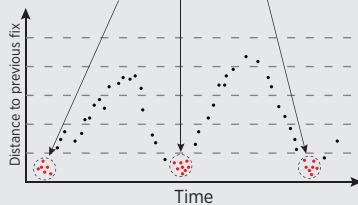
1. Applications subscribe to an event-driven system for event notifications



Raw location fixes are incrementally received from the stream of locations, i.e. event source ($\text{lat}=\text{x}$, $\text{long}=\text{y}$, $\text{time}=\text{t}$)



Location fixes are processed within distance and time threshold parameters of stay points detection algorithm thresholds θ_d, θ_t



Detected stay points as higher level events ($\text{lat}=\text{x}$, $\text{long}=\text{y}$, arrival time= t_{arrival} , departure time= $t_{\text{departure}}$)

