

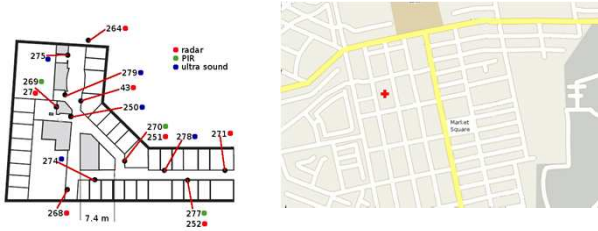
Quantity or Quality?

Networks of simple sensors

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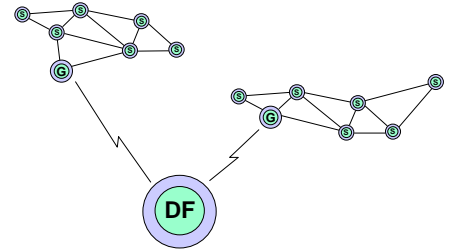
Short range vs. long range sensors

- Limited usage of long range sensors in urban areas
- Simple sensors
 - Cheap
 - Short range, low performance
- Networks with short range sensors: Gapfillers or complete coverage
- Outdoors, indoors



Proposed simple sensor network

- Sensors
- Sensor nodes (S)
- Ad hoc networks
- Gateways (G)
- Data reduction
- Configuration
- Data Fusion (DF)
- C2
- Sensor control



Simple sensor types

Acoustic



Radar



Seismic



Infrared (PIR)



Magnetic



Video



Tripwire



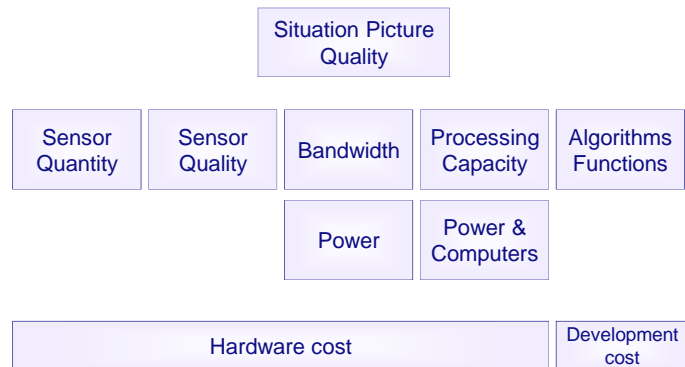
Ultrasound



Required / desired features



Quality costs



The R&T Project D-FUSE (Data Fusion in Urban Sensor Networks) is contracted by the European Defence Agency on behalf of Members States contributing to the Joint Investment Programme on Force Protection

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