

Better data → better transport

Decouple apps from sensors

Technology

Middleware helps avoid vertical integration

Existing applications

Systems like SCOOT need not be monolithic

Opportunities for companies

Data collection and consumption

Create a data marketplace

Technology

- Apps can use whatever data they need
- Data can be provided to whoever needs them
- New sensors, same applications

Sensing

An architecture for data capture

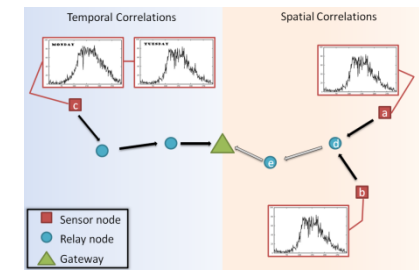
Technology

- Sensor nodes forward data to gateway nodes, possibly using relay nodes

- Exploit correlation

Opportunities for companies

Concentrate on sensing, not communication



Data transportation

Middleware

Technology

- High-bandwidth streams of data
- Dynamic, reconfigurable environment
- Easily allow for a library of processing components

Opportunities for companies

Sell your data and processing smarts

Data control

Data have commercial value

Technology

Monitoring of compliance with data use agreements

Existing applications

Traffic light scheduling, bus route planning, ...

Opportunities for companies

Protect your investments in data

Provenance

Technology

Use an audit trail bound to data transmission and content

Existing applications

Any where you process data from others

Opportunities for companies

Answer "where did this come from?"

Personal information

Technology

Try to keep private information out of the system while allowing applications to function

Existing applications

Congestion charging, ...

Opportunities for companies

Avoid a legal and ethical quagmire