Buying Privacy in Digitized Cities

Eleanor Saitta
@dymaxion

The Next HOPE
How Are We Watched?

- DNA Tracking
- Public Building Security Cameras
- Private Building Security Cameras
- Public Street Safety Cameras
- Traffic Cameras
- Congestion Metering Cameras
- Red Light / Speed Cameras
- Aerial Surveillance
- Helicopter-mounted FLIR
- Media Consumption Tracking
- Voter Registration Tracking
- Library Book Checkout Tracking
- Professional License Registration
- Wave and Current Buoys
- CO2 Emission Tracking

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- UV Monitoring
- Pollen Monitoring
- Police Car Mobile Cameras
- Bugs
- Gunshot Detection Microphones
- Data Mining/Data Profiling
- Air Quality Monitoring
- Thermometers
- Hygrometers
- Barometers
- Permanent Traffic Sensors
- Temporary Traffic Sensors
- EZPass/Toll Billing Systems
- Anemometers
- Taxi GPS Tracking
- Insurance Risk Analysis
- Transit GPS Tracking

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- Rainfall Measurement
- Bugs
- Cloud Cover Monitoring
- Gunshot Detection Microphones
- Taxi Cab Cameras
- Data Mining/Data Profiling
- Bus/Transit Cameras
- Air Quality Monitoring
- Face Recognition
- Thermometers
- Rootkits and Keyloggers
- Streetview Cameras
- Barometers
- Network Traffic Analysis
- Permanent Traffic Sensors
- Real Estate and Vehicle Sales Record and Registration
- Temporary Traffic Sensors
- EZPass/Toll Billing Systems
- Rental Car/Carshare GPS Tracking
- Security Badge Tracking
- Anemometers
- Building Visitor Logs
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- Insurance Risk Analysis
- Email/Web Monitoring
- Transit GPS Tracking
- Criminal Ankle Bracelets

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- Vibration Sensors
- Structural Stress Sensors
- Credit/Debit Card Transaction Tracking
- Foursquare
- Brightkite
- Twitter Locations
- Google Latitude
- Doppler Radar
- Income Tracking for Taxation
- Web/WiFi Location Detection
- Voter Registration Tracking
- Border Control
- Library Book Checkout Tracking
- DUI Checkpoints
- Professional License Registration
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- Remote Medical Monitors
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- Construction Stage Tracking
- Insurance Risk Analysis
- Fall Alert Systems
- Camera GPS Tracking
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The Next HOPE: Buying Privacy in Digitized Cities
Structures Around Surveillance

- Secondary uses
- Buying and sharing data
- Sunk cost
- Opportunity leads to abuse
- Equality versus aggregation

The Next HOPE: Buying Privacy in Digitized Cities
Surveillance Can Be Good and Bad

• Saved by surveillance
• Marketed to
• Data protection for the rich and famous
• Fraud detection
• Surveillance in the common good
• Personal protection
• Surveillance as crime stopper
• A consistent pattern

The Next HOPE: Buying Privacy in Digitized Cities
Fixes

• Documenting the problem
• Raising awareness
• Working directly with existing projects
• Subverting the system
The Deployable Camera Competition

The Next HOPE: Buying Privacy in Digitized Cities
The Deployable Camera Competition

Functionality:
• Deployability
• Operating life (ruggedness & battery life)
• Video quality
• Network integrity
• Privacy preservation & verifiability

Utility:
• Ease of use (end unit)
• Integration (software)
• Cost
• Constructability
• Documentation quality

Bonus Points:
• Real-world involvement
• Production chain
The Deployable Camera Competition

http://sldrc.com/projects/deployable
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Questions?

Eleanor Saitta
@dymaxion
ella@sldrc.com

IF YOU SEE SOMETHING,
SAY SOMETHING.

BE SUSPICIOUS OF ANY POLICE BRUTALITY.
Take pictures or video and tell a journalist or lawyer.