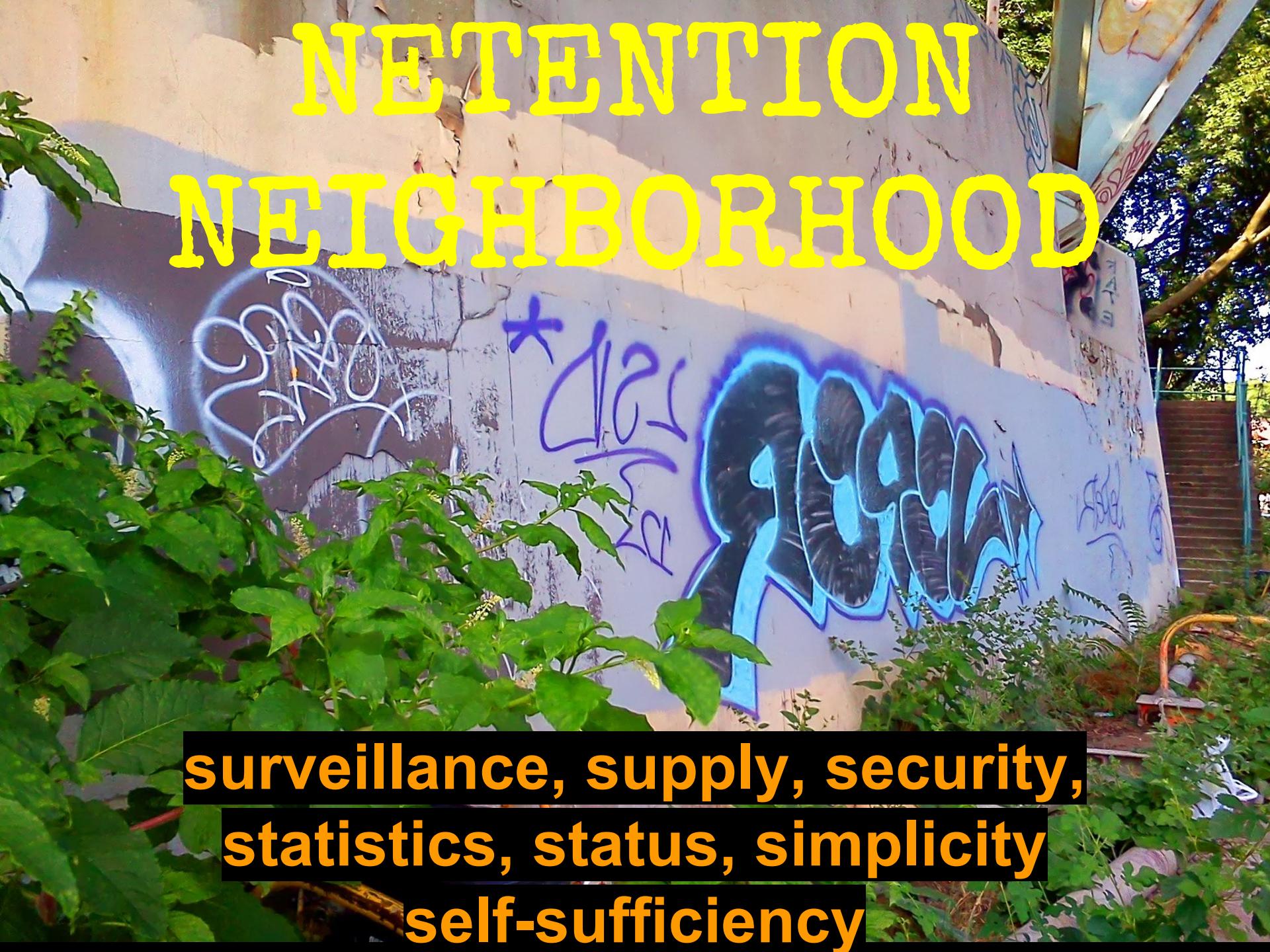


NETENTION NEIGHBORHOOD



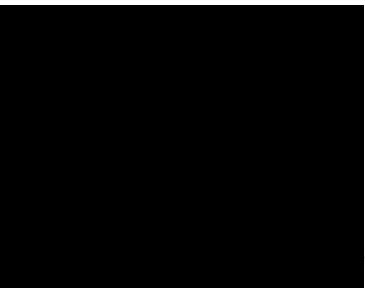
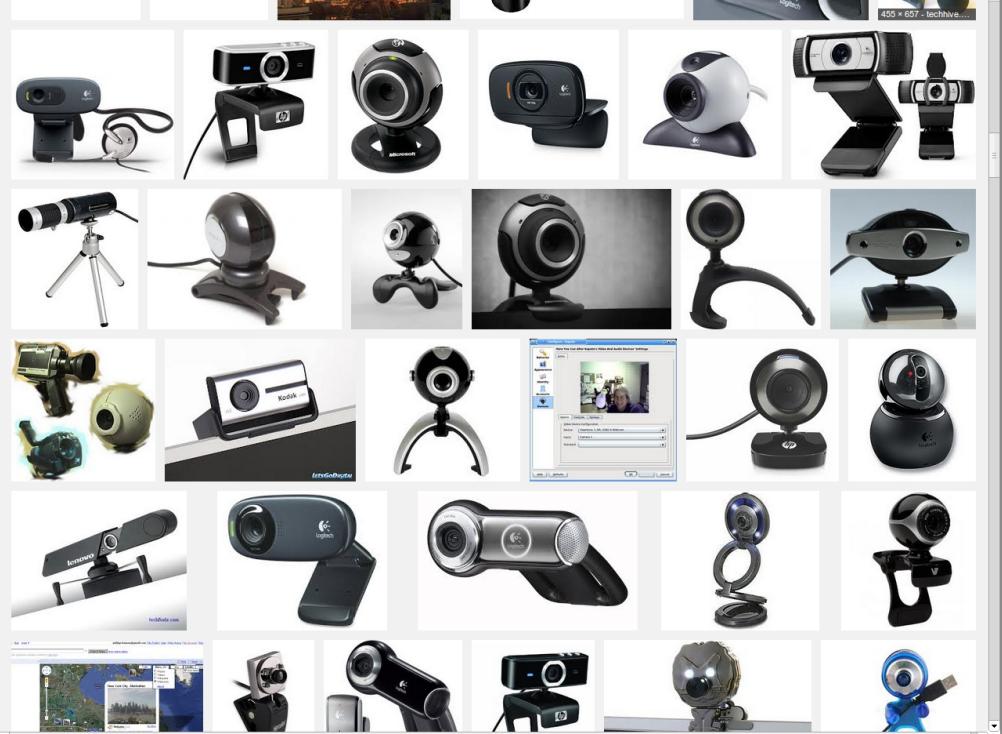
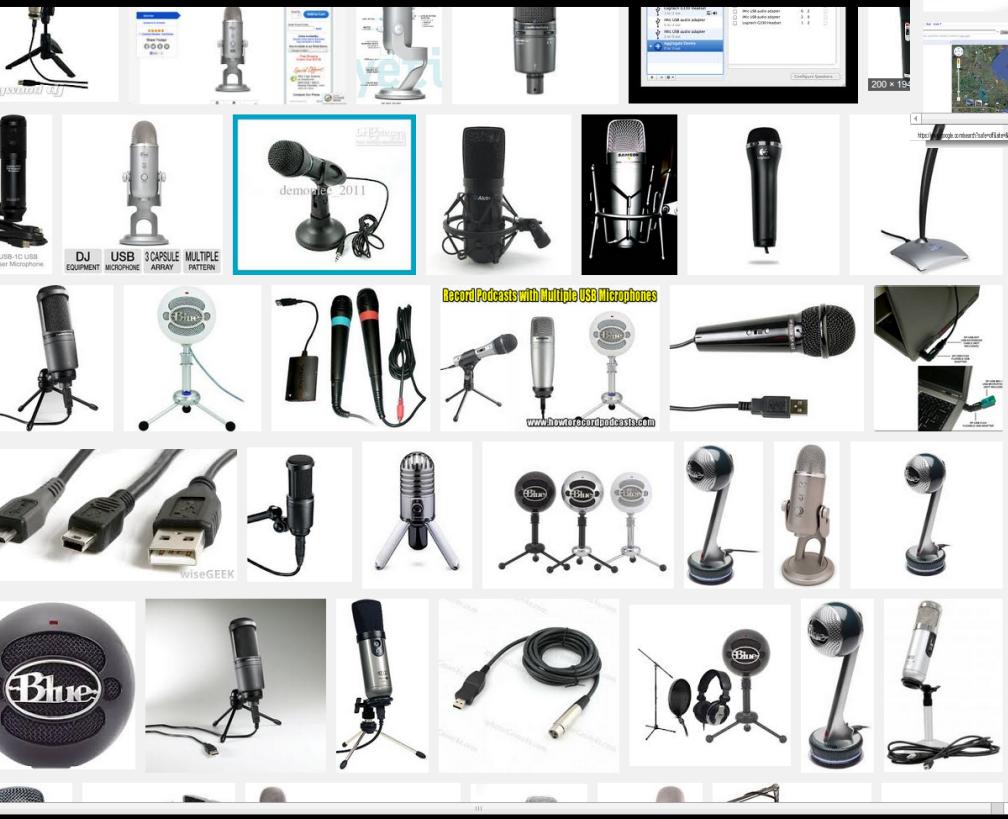
**surveillance, supply, security,
statistics, status, simplicity
self-sufficiency**

INPUT

- webcams
- microphones
- ...other sensors

OUTPUT

...nobjects



SOUSVEILLANCE

inverse-surveillance

Sousveillance involves community-based recording and measuring of environmental phenomena, such as your government.

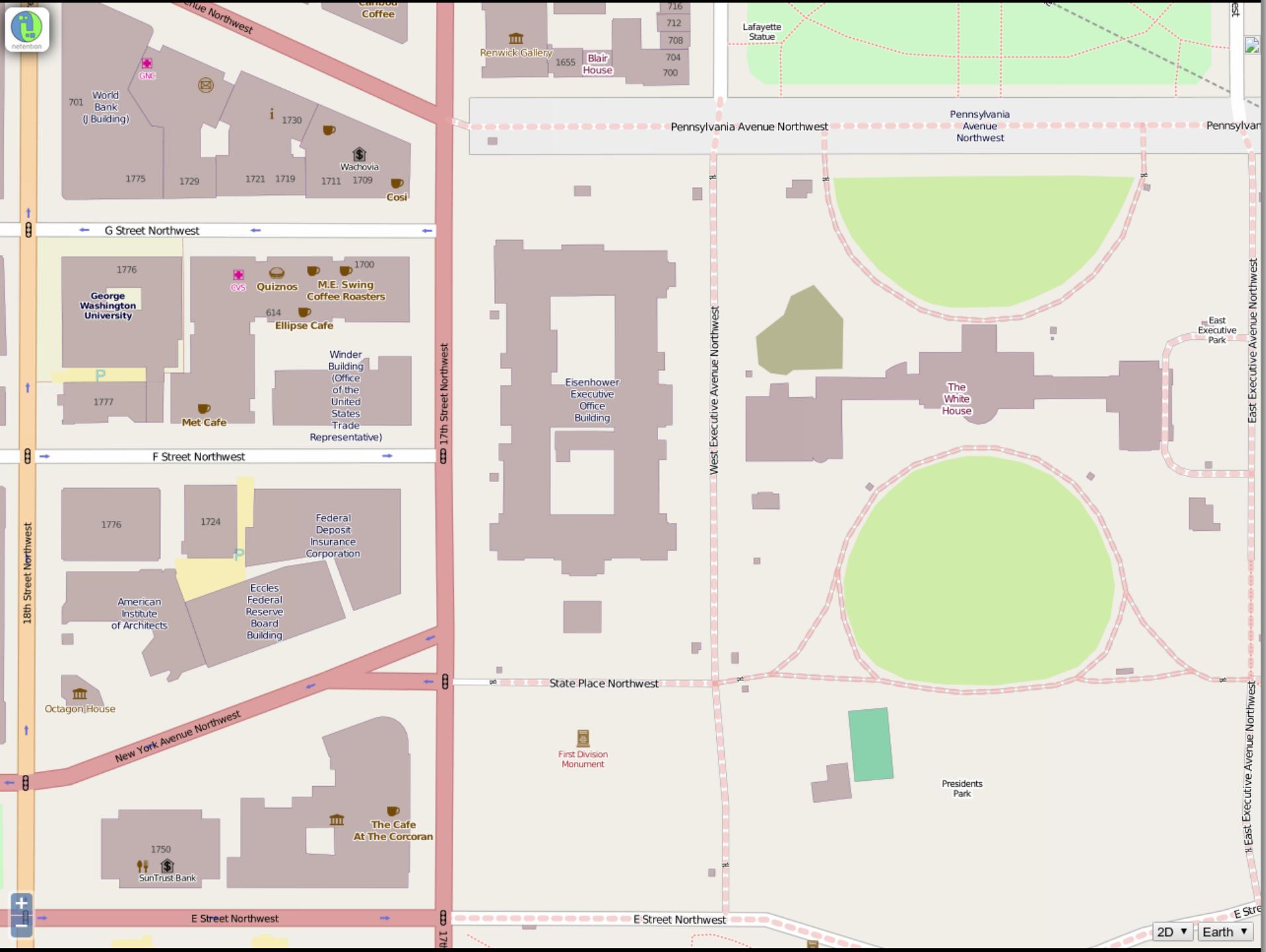


READ MORE:

<http://en.wikipedia.org/wiki/Sousveillance>

<http://hplusmagazine.com/2011/05/23/david-brin-on-the-path-to-positive-sousveillance/>

<http://www.acceleratingfuture.com/people-blog/2009/is-sousveillance-the-best-path-to-ethical-agency/>



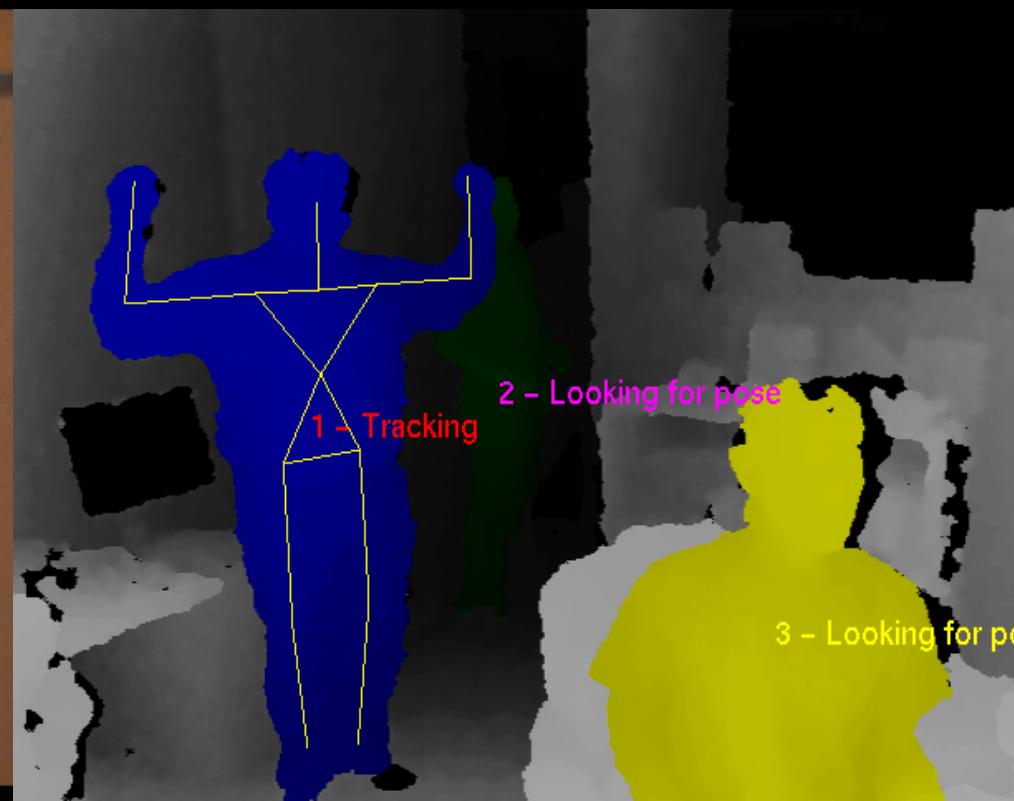
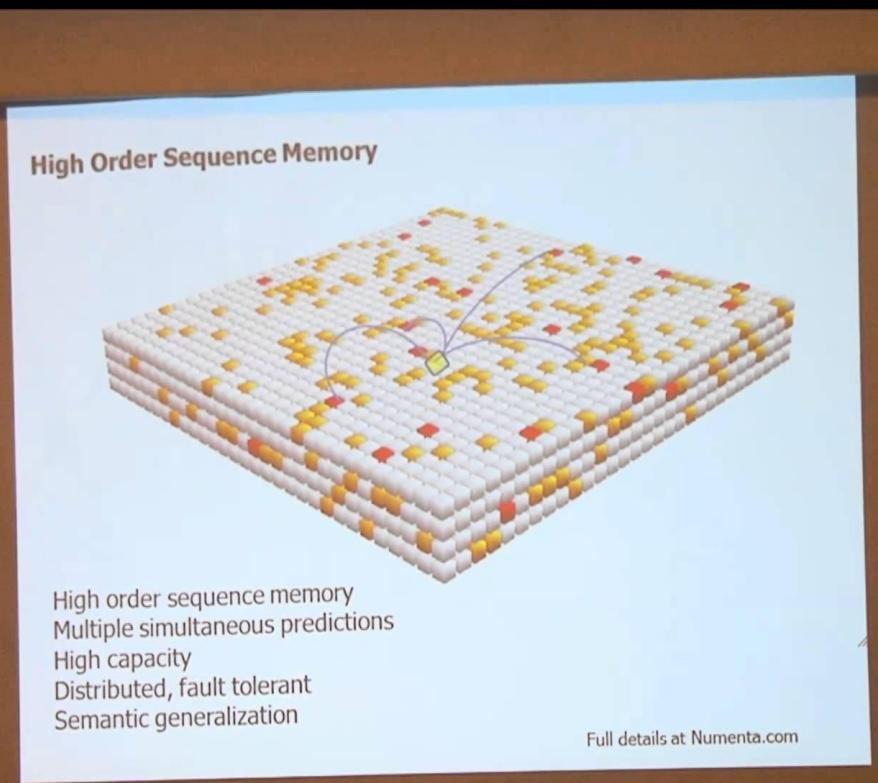
4D SPACETIME ENVIRONMENT MODEL

- Inter-connected datapoints (knowbjects) with metadata
- GPS
- Structure in Motion (PhotoSynth) - multiple camera input -> animated 3D model
- Auto-forget “uninteresting” history segments to conserve memory



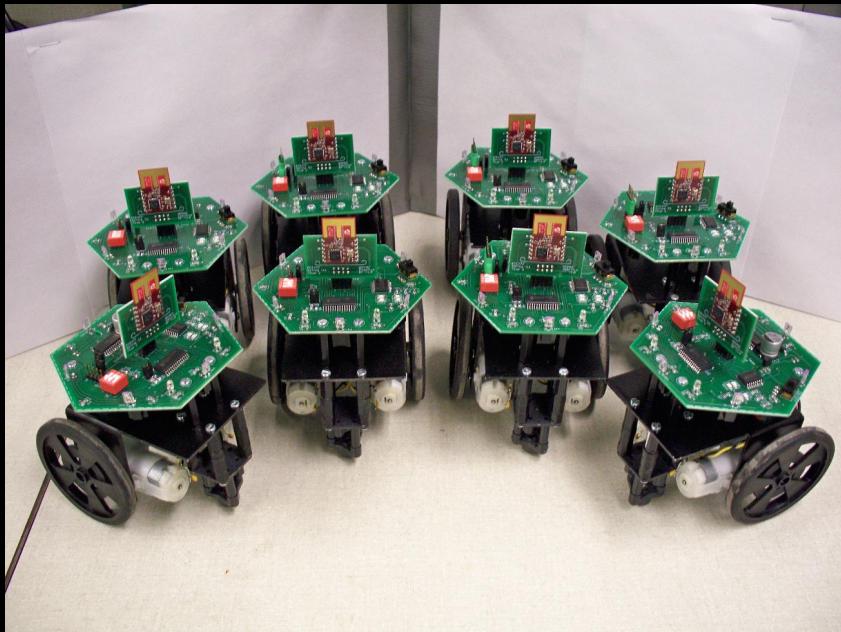
RECOGNIZE & TRACK

- what it is
- who it is (and their public online identity)
- where it goes
- where it looks



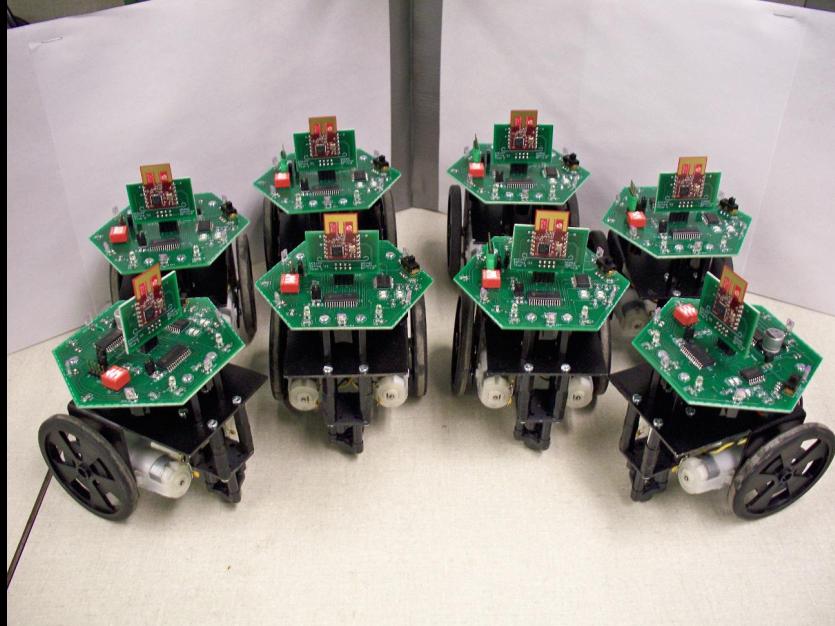
REACT

- Generate alerts and reports
- Activate/deactivate actions
- Access web services
- Contact via IM, e-mail, phone, SMS



DELIVERY NETWORK

- When excess or lack-of are detected, a delivery can be scheduled
- Operates across a wide range of robot devices capable of safely carrying different sizes and weights of packages certain distances



ANIMAL COLLAR NETWORK

- Various sensors
 - Camera
 - Microphone
 - Accelerometer
 - GPS
- Minimal wireless transmission (avoid electrosmog)
- USB hub for download (at end of day)
- Solar or battery powered
- Doesn't involve invasive surgery or implants

RESOURCE INVENTORY

- Collaborative Consumption
- Services / Items Desired (Imaginary Items)
- Services / Items for Sale or Exchange
- Supply Chain: Scheduled Shopping Lists (+recurring)



Collaborative Consumption: 3 Systems



MESH INTERNET

- Suggests best hardware and software options
- Monitors link quality

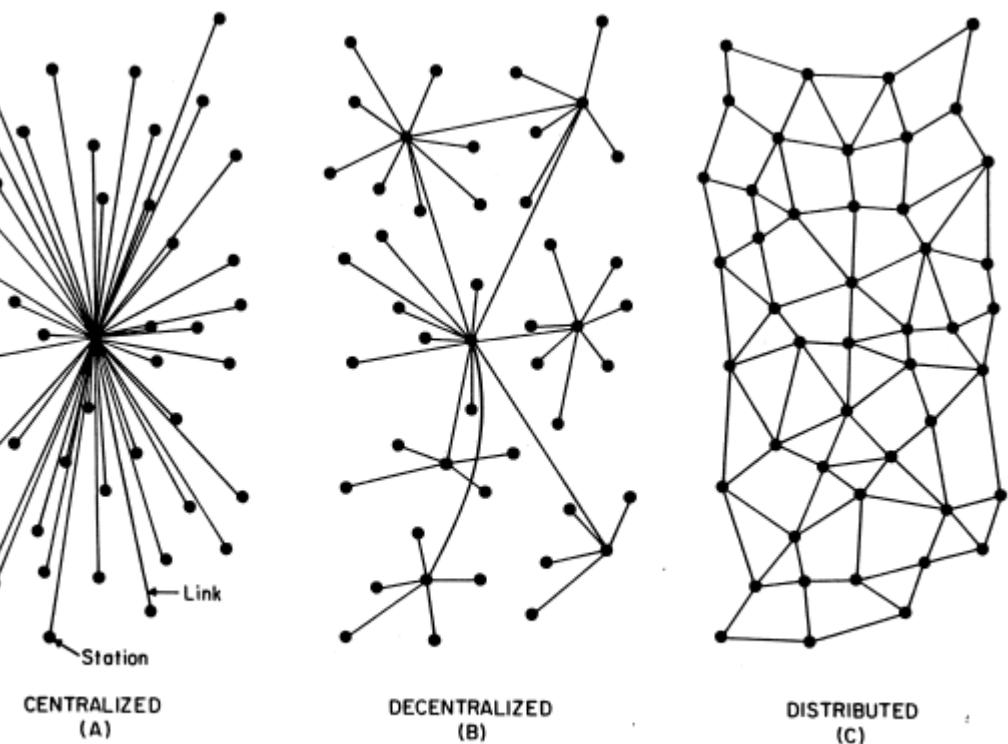
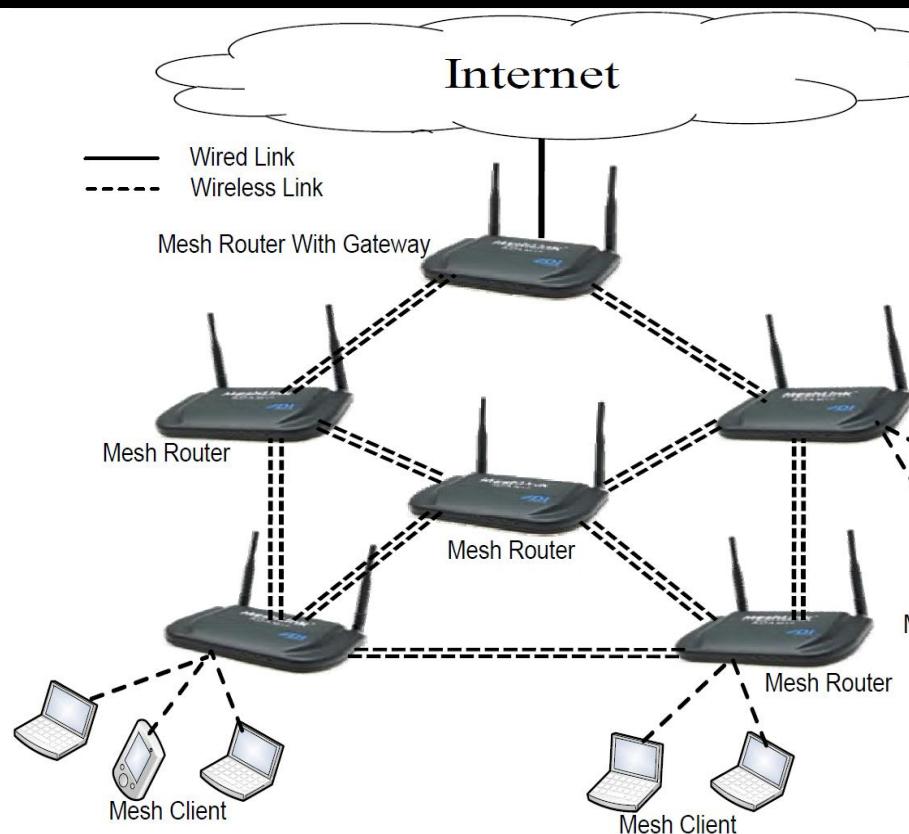


FIG. 1 – Centralized, Decentralized and Distributed Networks



OUTPUT

- Web interface
- Share with neighbors
 - stray animal census
 - collect evidence
 - investigate crime
- Sonification (make data streams audible)
- Colors and Sounds
 - can be learned by animals
 - *[picture of shuka watching security cam]*

TECH IMPLEMENTATION

- Netention (web interface)
- dANN (AI algorithms)
- OpenCV / Node-OpenCV
 - <https://github.com/peterbraden/node-opencv>
- Predator
 - <https://github.com/zk00006/OpenTLD>
- NuPic (Object recognition)
- Bundler (Cameras -> 3D scene)
- Linux (stable platform with access to a wide array of peripherals)
- Robot Operating System (ROS)