

**But, what about all those little brothers?
Geofensing in the Land of the Free.**

Jerome E. Dobson

Professor of Geography

University of Kansas

and

President

American Geographical Society



University of Kansas

dobson@ku.edu

Location Based Services (LBS)
Location-aware Technologies (LAT)

Goods, Vehicles, Pets, People

Privacy **Human Tracking**

Control **Geofencing**

Voluntary
Opt-in

Control **Geoslavery**

Coercive
Surreptitious



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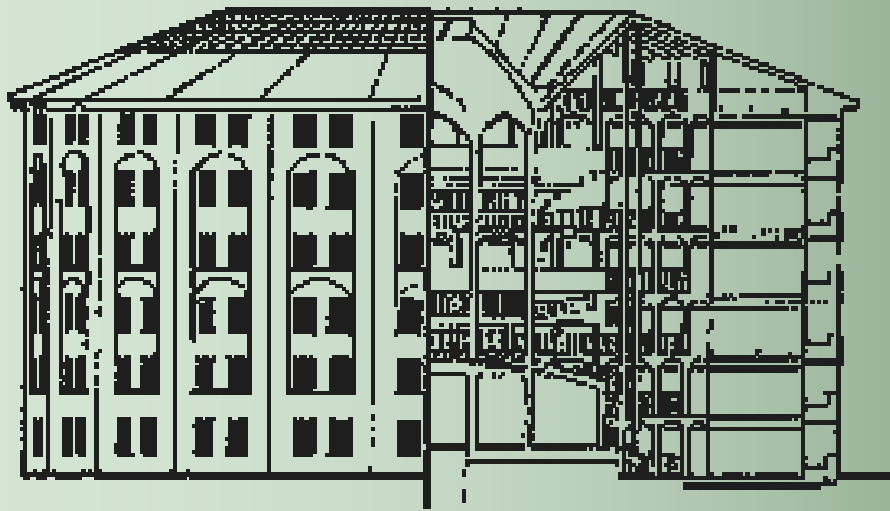
Ethical Dilemmas

Benefits
vs.
Risks



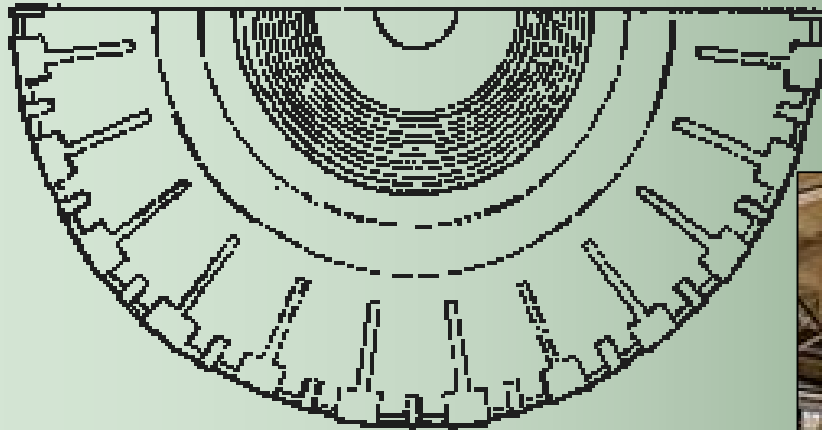
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Panopticon I

Samuel Bentham
Jeremy Bentham
1787



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**“Morals reformed
Health preserved
Industry invigorated
Instruction diffused
Public burthens lightened**

**Economy seated, as it were, upon a rock
The [G]ordian knot of the Poor-Laws . . . Untied
All by a simple idea in Architecture!”**

**“A new mode of obtaining power of mind over mind,
in a quantity hitherto without example. . .
Such is the engine: such the work that may be done with it.”**

**Jeremy Bentham
1787**

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**“Applicable to Any Sort of Establishment,
in Which
Persons of Any Description Are to Be Kept under Inspection;
And in Particular to:**

Penitentiary-houses

Prisons

Houses of Industry

Work-houses

Poor-houses

Lazarettos

Manufactories

Hospitals

Mad-houses

Schools

**Jeremy Bentham
1787**



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“ . . . whether [its purpose] be that of
punishing the incorrigible
guarding the insane
reforming the vicious
confining the suspected
employing the idle
maintaining the helpless
curing the sick
instructing the willing in any branch of industry, or
training the rising race in the path of education. . .

“ . . . whether it be applied to the purposes of
perpetual prisons in the room of death, or
prisons for confinement before trial

Jeremy Bentham
1787

“a cruel, ingenious cage”

**Michel Foucault
1995**



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Panopticon II

1984

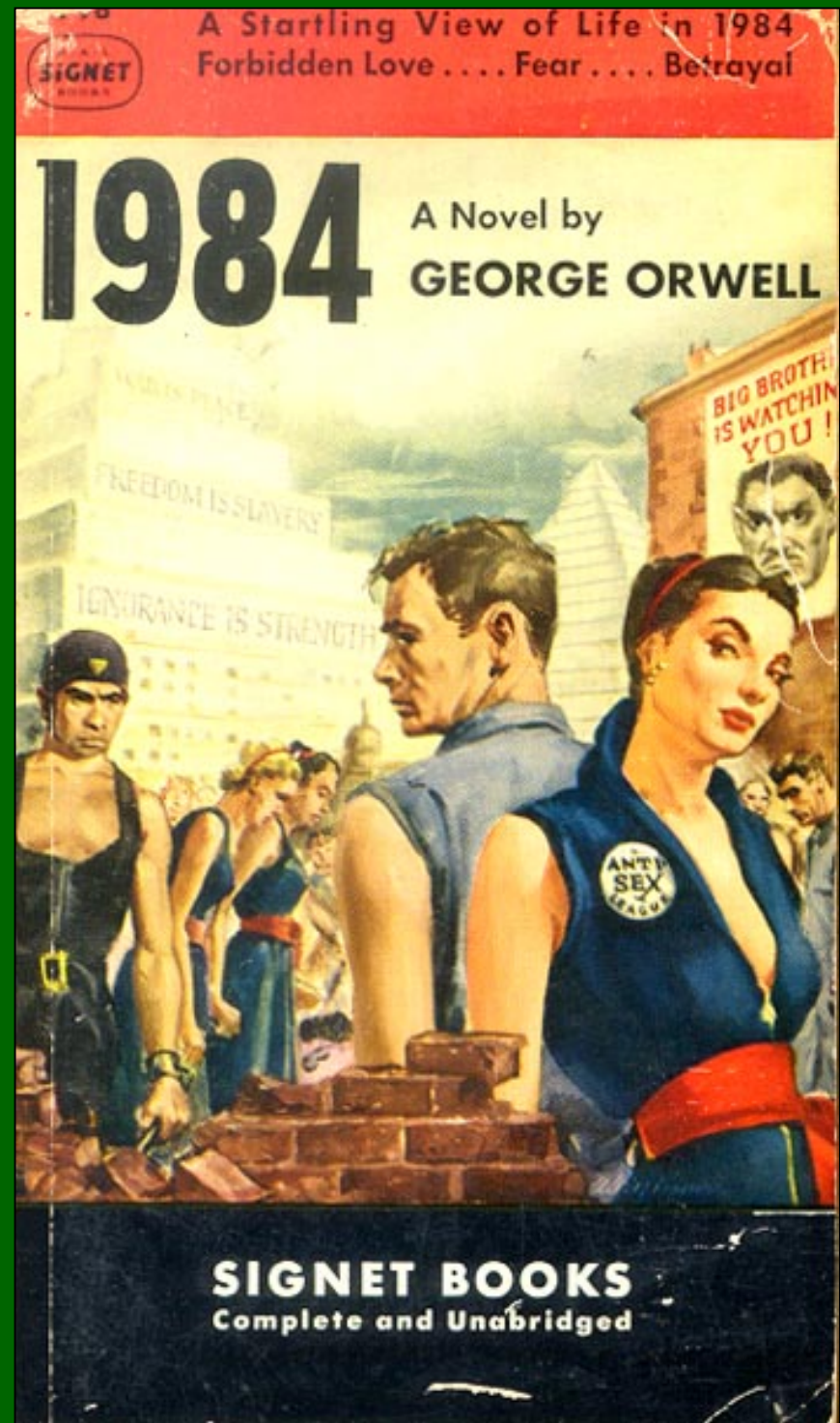
George Orwell

Visual vs. Digital

Government vs. Individual

CCTV

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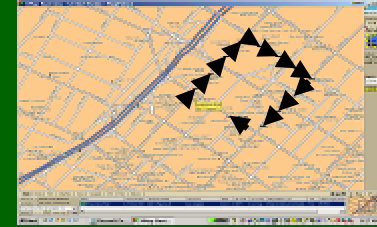


Panopticon III

GPS Receiver tells *you* where you are in Lat/Lon Coordinates.



+ GIS tells *you* where you are in relation to geographic features (roads, buildings, rivers).



+ Radio Transmitter tells *someone* else where you are.



+ Radio Receiver allows someone else to *monitor* your location and *instruct* you *in real time*.



+ Transponder that stings or burns you will enable someone else to *monitor* and *control* your motions in real time.

Surveillance...Human Tracking...Control

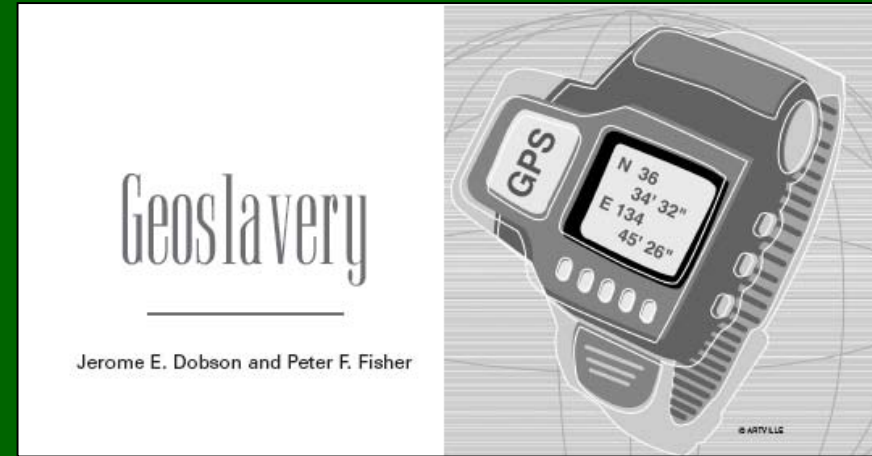
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Cost and Coverage of Continuous Surveillance

Surveillance Technology	Initial Cost of Construction, Purchase, or Retainer	Cost per Person per Year for Continuous Surveillance 	Geographical Coverage 
Analog Spies Private Investigators	\$ 1,000 to \$ 5,000	\$ 350,000	Unlimited
Panopticon I Bentham's Building	\$ 120,000	\$ 22,600	Inside Special Purpose Buildings
Panopticon II Orwell's Big Brother Television CCTV	\$ 2.50	\$ 14,000	Extent of Television Camera Network
Panopticon III GIS/GPS Tracking Cellphone Tracking	\$ 200	\$ 240	Extent of Cellphone Networks

Dobson, J. E., and Peter F. Fisher. 2003. "Geoslavery,"
IEEE Technology and Society Magazine 22(1): 47-52.

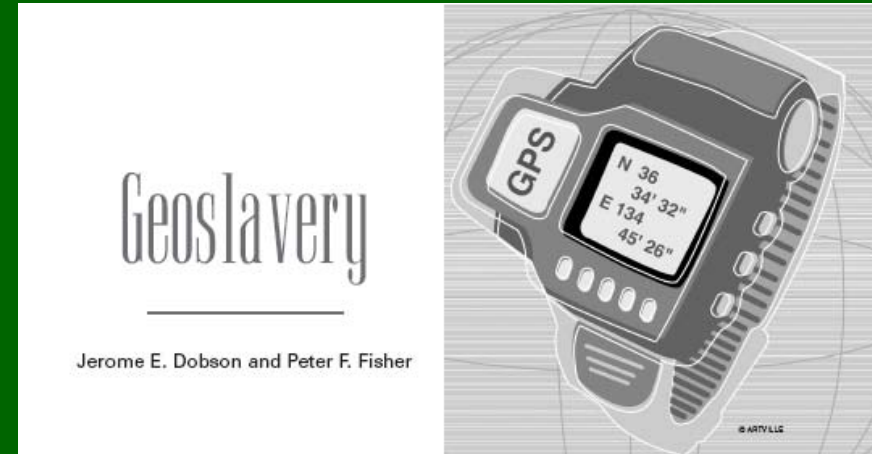


**Society must contemplate a new form of
slavery characterized by location control.**



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Dobson, J. E., and Peter F. Fisher. 2003. "Geoslavery,"
IEEE Technology and Society Magazine 22(1): 47-52.

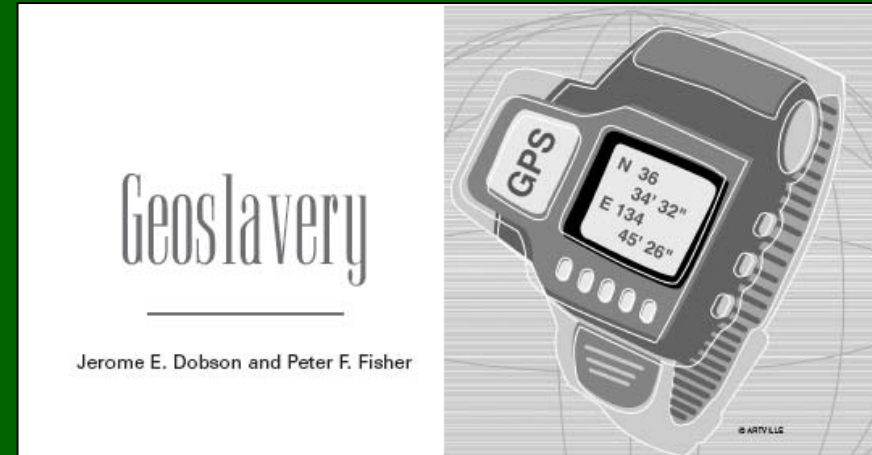


Geoslavery is defined as a practice in which one entity, the master, coercively or surreptitiously monitors and exerts control over the physical location of another individual, the slave.



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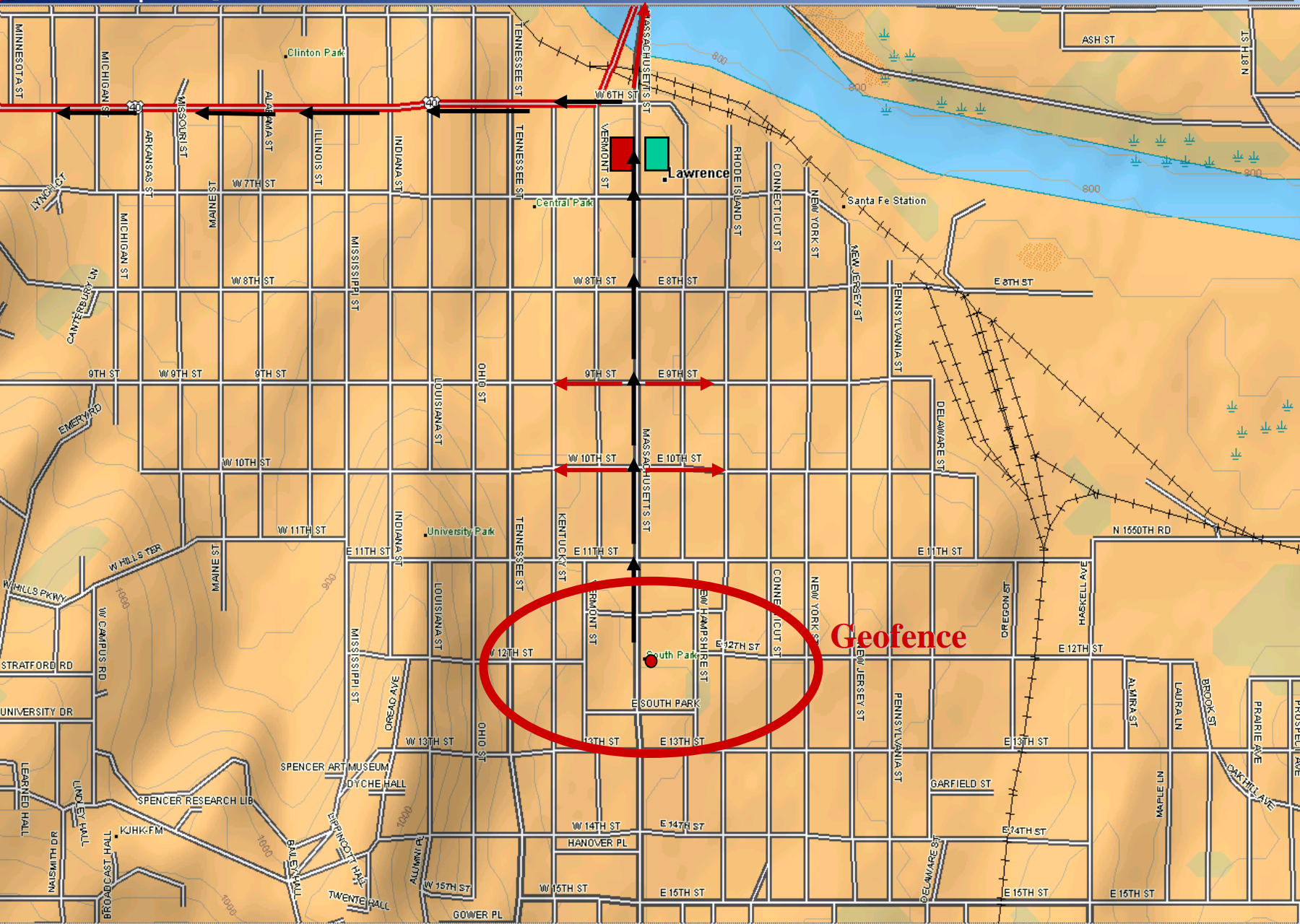
Dobson, J. E., and Peter F. Fisher. 2003. “Geoslavery,”
IEEE Technology and Society Magazine 22(1): 47-52.



Inherent in this concept is the potential for a master to routinely control time, location, speed, and direction for each and every movement of the slave or, indeed, of many slaves simultaneously.



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Zoom Level
14.0

Rotation:
0° (N)

Latitude
N36° 57.610'

Longitude
W95° 14.261'

Elevation
871 feet

Interval
20 feet

Magnify:
100%

Find Print MapData Draw GPS Route Profile 3-D Map Display NetLink

QuickSearch Search For:
Advanced highest point, CO

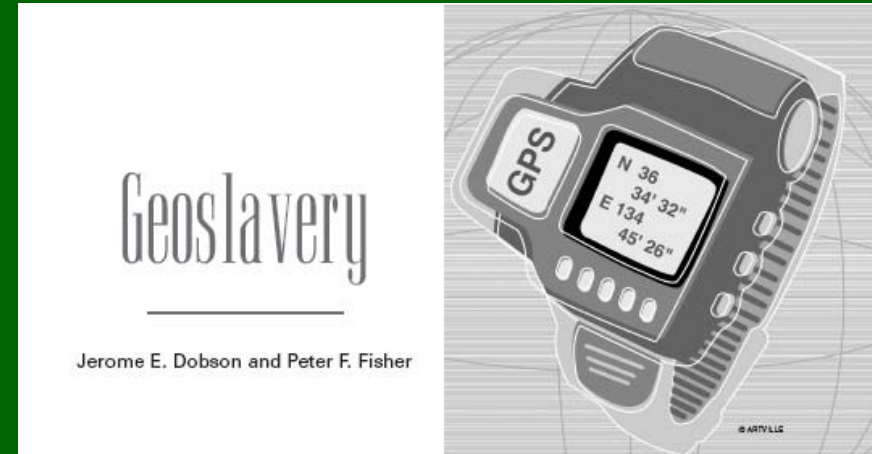
MapTags

Search

Go To

Type a name (Yarmouth, ME), a street address (2 DeLorme Dr, Yarmouth, ME or 2 DeLorme Dr, 04096), a ZIP Code, or a coordinate (N 43.8, W 70.2) and then press the ENTER key on your keyboard or click Search.

Dobson, J. E., and Peter F. Fisher. 2003. “Geoslavery,”
IEEE Technology and Society Magazine 22(1): 47-52.



Surveillance and control may be enhanced through complementary monitoring of functional indicators such as body temperature, heart rate, and perspiration.



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Human Tracking Technologies



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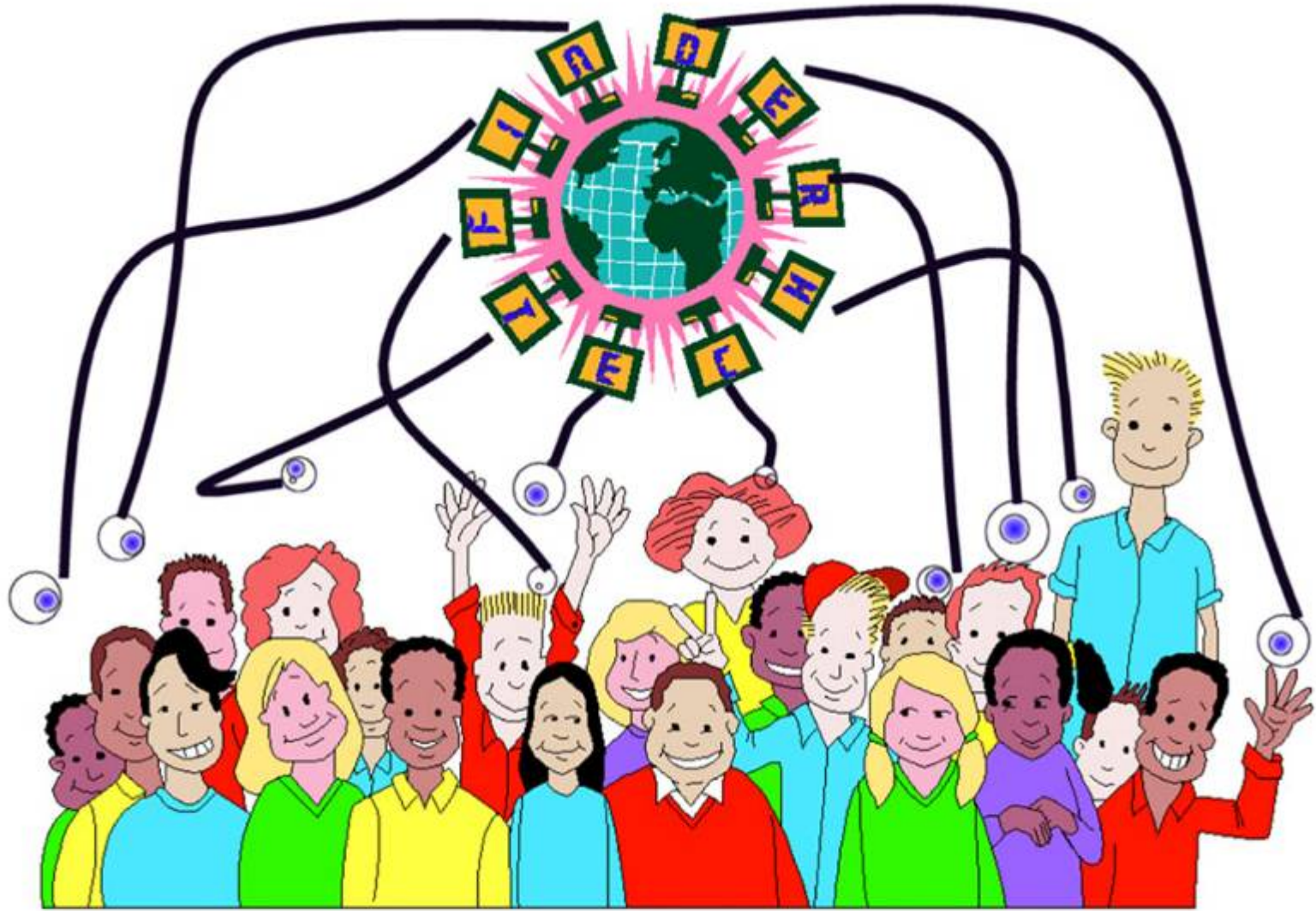
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Wherify's Monthly Service Plans & Coverage Information

Wherify's Monthly Service Plans

	Liberty	Independence	Freedom	High Usage
	\$19.95	\$24.95	\$29.95	\$44.95
- Included Online Services - Locates and Pages: Remote Unlocks:	20 unlimited	30 unlimited	40 unlimited	80 unlimited
Included Live Operator Assistance: Locates, Pages or Remote Unlocks Emergency 911 Panic Alert	3 4/yr	4 4/yr	5 4/yr	5 4/yr
Optional Online Services: Additional Locate	\$0.95	\$0.85	\$0.75	\$0.50
Additional Page	\$0.20	\$0.15	\$0.15	\$0.15
Temporary Guardian Set-up	\$6.95	\$6.95	\$6.95	\$6.95
Optional Live Operator Assistance: Additional Locate, Page or Remote Unlock		-- \$5.00 --		
Additional Emergency 911 Panic Alerts		-- \$15.00 --		
Temporary Guardian Set-up		-- \$12.95 --		
Additional Charges: One Time Non-Refundable Activation Fee (required)		-- \$35.00 --		



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Additional Information

▶ Pfizer Plans to Incorporate RFID Technology into Viagra Packaging in U.S.

New York, November 15 -- In a continuing effort to combat drug counterfeiting and protect patients, Pfizer has announced a new initiative to use radio frequency identification (RFID) tags that will enable wholesalers and pharmacies to authenticate all Viagra sold in the United States. The project supports FDA efforts to promote the development of standards and processes in preparation for RFID's broader use across the pharmaceutical industry. Pfizer will begin planning for the project immediately and has set a goal to start shipping Viagra with RFID technology by the end of next year.

Pallet?

Package?

Product?



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136 x 92 pixels - 11k

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RFID

Skin Deep: Human Microchip Gets Green Light for U.S. Distribution

10Meters News Service

April 4, 2002 – VeriChip has been given an official green light to begin selling its implantable human microchip in the United States.

The Palm Beach, Fla., company yesterday announced that it had received "written guidance" from the U.S. Food and Drug Administration (FDA) that the chip is not considered a "regulated medical device."

The designation clears the way for the



?

Former Bush official gets chipped

Tue, 26 Jul 2005 20:34:53 -0700

GNN 2.0 Beta

Summary:

Former Wisconsin Governor Tommy Thompson has joined the board of directors of Applied Digital Solutions - maker of the VeriChip implantable RFID tag - and will now promote the product by having one injected into his arm. Proponents of the technology (mostly those with a financial stake in the product) cheer the benefits of tracking **kids**, **pets** and senile adults as well as the ability of the chip to store **medical** and **credit information**. Detractors cite a host of concerns ranging from medical issues to the possibility of mandatory chipping in a system of global **geoslavery**.

[Posted By **whitey**]

By Michael Kanellos

Republished from **ZDNet News**

Tommy Thompson, the Health and Human Services Secretary in President Bush's first term and a former Governor of Wisconsin, is getting an RFID implant

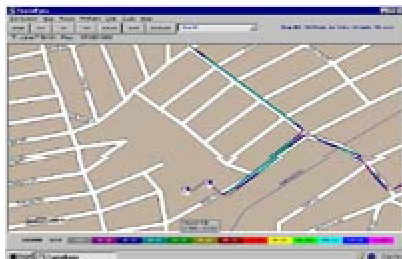
Thompson has joined the board of Applied Digital, which owns VeriChip, the company that specializes in subcutaneous RFID tags for humans and pets.

GPS SATELLITE TRACKING/LOCATION SYSTEMS

GPS Satellite Tracker:



TravelEyes GPS Tracker



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TravelEyes™ is the ultimate in private GPS vehicle tracking, featuring the same GPS satellite technology developed and used by the US Department of Defense.

TravelEyes™ small size (2" wide x 3.38" long x .98" high) and its light weight (2.8 oz.) make it ideal for concealing inside any vehicle. Powering TravelEyes is made simple, by connecting it to fuse box. If you need a weatherproof version of Travel Eyes, check out [DataLogger](#) which runs off it's only battery pack!

TravelEyes™ is a miniature tracking device for monitoring the travel activities of private vehicles using GPS (Global Positioning System), to be concealed within the vehicle, the tiny TravelEyes™ unit can tell exactly where the car has been, how long it was there and when it left the last destination.

TravelEyes™ Is Right For You:

TravelEyes™ gives you proof your suspicions were right...

Ever wish you had a tool that could prove your suspicions were valid? Next time you sense suspicious activity, make sure TravelEyes™ goes along for the ride. TravelEyes™ can track a vehicle to the nearest address, tell how long the vehicle remained at any given destination and provide details of suspicious activities. Why pay a fortune to hire a private investigator when you can be your own "detective" with TravelEyes™...and pocket the money?



Belle accused of stalking ex-girlfriend

Associated Press
Posted: 1 hour ago

SCOTTSDALE, Ariz. (AP) - [Albert Belle](#) tracked his ex-girlfriend with a GPS device and repeatedly threatened her, according to a police probable cause statement filed in support of stalking charges.

The 39-year-old former baseball star was arrested in Scottsdale on Thursday and charged with stalking. He made an initial court appearance late Thursday, and a judge set bail at \$108,000, ordered him to be electronically monitored and to stay away from the victim.

Reached by The Associated Press on Friday morning, Belle declined to comment on the case.

"You didn't write a story about my Hall of Fame induction," said Belle, referring to joining the Louisiana Sports Hall of Fame last year. "You guys never report the good stuff that I do."



Former slugger Albert Belle is charged with stalking his ex-girlfriend. (Jamie Squire / Getty Images)

FoxSports.Com

February 17, 2006

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Stalker Victims Should Check For GPS

MILWAUKEE, Feb. 6, 2003



Former live-in lovers Connie Adams and Paul Seidler, at a Kenosha, Wis., court hearing at which he was accused of planting a GPS transmitter in her car, in order to stalk her. (AP)

(AP) Connie Adams found it impossible to escape her ex-boyfriend.

He would follow her as she drove to work or ran errands. He would inexplicably pull up next to her at stoplights and once tried to run her off the highway, authorities said.

When he showed up at a bar she was visiting for the first time, on a date, Adams began to suspect Paul Seidler wasn't operating on instinct alone.

He wasn't - Seidler had installed a satellite tracking device in Adams' car, according to police in Kenosha, Wis., 30 miles south of Milwaukee.

"He told me no matter where I went or what I did, he would know where I was," Adams testified at a recent court hearing.

QUOTE
GPS is not the first technology to be misused by stalkers, who have also employed the Internet, microchip-sized cameras and even caller i.d.

Police say Adams' case and several others across the country herald an incipient danger - high-tech stalking.

Just as the global satellite positioning system can help save lives, so can its abuse endanger them, advocates of stalking victims say.

"As technology advances, it's going to be almost impossible for victims to flee and get to safety," said Cindy Southworth, director of technology at the National Network to End Domestic Violence in Washington.

In the Adams case, Seidler pleaded not guilty last month to felony counts of stalking, recklessly endangering safety, burglary and a misdemeanor count of disorderly conduct. His trial is pending.

Adams does not want to speak to reporters about the case, said Susan Karaskiewicz, a Kenosha County prosecutor.

- Interactives
- Digital Dan's Gizmorama
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- The Columbia Disaster
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About Digital Angel Corporation

Digital Angel Corporation develops advanced RFID and GPS technologies that enable rapid and accurate identification, location tracking, and condition monitoring of high-value assets. Applications for our products include identification and monitoring of pets, humans, fish and livestock through our patented implantable microchips as well as message monitoring of aircraft in remote locations through integrated GPS and geosynchronous satellite communications systems.



Search Google for information about <http://www.digitalangel.net/consumer.asp>

Digital Angel
CORPORATION

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Designed for:

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- Find out quickly if someone has an emergency situation, has fallen or has wandered away
- Safeguard seniors, children – all family members

When they're in trouble...

Alerts are sent by the wearer's monitor to the Digital Angel Operations Center, 24x7 a day!

Emergency Alert
Anyone wearing a monitor can issue an Emergency Alert to immediately signal for assistance.



Franks Endorses GPS Teen Tracker

Retired General Likes Idea Of Keeping Tabs On Driving Habits

BRADENTON, Fla., Dec. 10, 2004



Retired General Tommy Franks (CBS)

1 2

< PREVIOUS IMAGE

NEXT IMAGE >

QUOTE

"As a parent, I know it is not only my right, but also my responsibility to keep an eye on and protect my children."

Tommy Franks

(AP) Retired Gen. Tommy Franks has signed on to be the spokesman for a company that uses global positioning system technology in teens' cell phones to let parents know how fast they're driving.

Franks will be the official face of Teen Arrive Alive. The organization aims to get teens to carry a cell phone containing a GPS chip that sends out regular signals letting parents know where they are and how fast they're going.

If a certain predetermined speed limit is passed, an alarm will go off in the cell phone and parents will be notified.

A bumper sticker on the teen's car enables drivers to report reckless behavior. Both the teen

and his or her parents are then notified by phone or e-mail that a negative driving report has come in.

"As a parent, I know it is not only my right, but also my responsibility to keep an eye on and protect my children," Franks said. "If I know where my kids are, where they're going, how they're driving and how fast they're traveling, I can

An advertisement for Pfizer. The top part shows a basketball player in a blue jersey holding a ball, and a man in a grey jacket standing next to him. Below the image is a white bar with the text "Click for audio" and a red arrow pointing right. At the bottom, there is a red bar with the text "Rate your sexual health" and a blue Pfizer logo on the right.

CBS NEWS VIDEO

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Ready



Fullscreen | Help

Tracking Down Your Teen

Parents who suffer anxiety attacks every time their teens get behind the wheel have a new weapon in their arsenal: cell phone tracking. The Franks Family Trust works

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Certain business environments demand Sprint Business Mobility Framework. For example:

- If your business has a high number of field workers and real-time knowledge of precise mobile workforce location improves processes
- If your business is interested in enhancing applications with the ability to track, direct and message with the mobile workforce
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Then you may require better access to network information such as

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Meets the following requirements:

Location/Status—Determine the exact latitude /longitude of a mobile device (employee assigned or otherwise) at a specific point in time or under pre-assigned parameters (geo-fencing); determine if a device is on or off.

Track—Track and manage mobile employees, vehicles or inventory.

Direct—Enable mobile employees to receive visual or audible, detailed driving directions and maps.

Message—Send mobile employees an SMS or voice message at a specific point in time or under pre-assigned parameters (alerts) within the enterprise application. Voice messages can be sent to any valid phone number

Information Share—Share Third Party Application data with mobile employees using Sprint PCS Vision.



New Xora Service Dramatically Changes the Way Companies Locate and Manage Field Workers

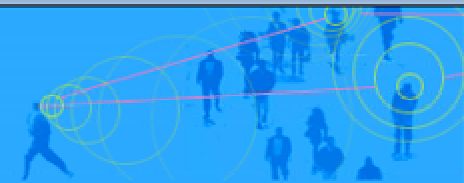
Xora GPS TimeTrack 2.0 Offers Advanced Tools for Location, Job and Time Management

MOUNTAIN VIEW, California (November 23, 2004) – Xora, Inc., a leading provider of Mobile Workforce Management solutions, today announced the availability of its second-generation Xora GPS TimeTrack service, a hosted software application that runs on GPS-enabled phones.

“Xora GPS TimeTrack 2.0 goes further than any other phone-based mobile workforce management service, with features and functionality that can not be found in other competing systems,” said Brent Iadarola, Program Leader for Mobile Communications at Frost & Sullivan. “Having firmly established itself as a market leader, Xora is raising the bar with this latest release in terms of making mobile worker’s time, location and job information even more useful. If you are the manager of a mobile service organization in any industry that is seeking to improve the productivity and accountability of field staff without investing in expensive software or hardware, you would be wise to check out Xora GPS TimeTrack v2.0.”

Now 50,000

Xora GPS TimeTrack already is being used by more than 20,000 mobile workers across the country every day to locate and manage field employees. Managers of field-service organizations report that the Xora service helps them to keep track of mobile workers’ activities and billable hours, often resulting in



September 26, 2004

Don't geofence me in

Always-On Panopticon...or Cooperation Amplifier

Posted by [Jim_Downing](#) at 12:15 AM

CNET news says that "cell phones are giving employers new ways to check up on employees in the field--and raising fresh workplace privacy concerns as a result. On the leading edge of the trend is Nextel Communications. The wireless provider began selling its Mobile Locator service last November, giving bosses an easy way to find employees who carry GPS-equipped cell phones. Earlier this month, mobile tracking firm Xora showed off the latest version of its Nextel GPS (global positioning system) phone software. The company says 1,600 corporate customers have signed up for its services, including "geofences" technology that sets off an alarm at the office when field workers go to preprogrammed off-limits sites, such as a bar or a park. "There's no electro shock--yet," Xora CEO Sanjay Shirole said."



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Reactions



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Posted 2/16/2005 5:46 AM

Company pulls out of contract to track students

SUTTER, Calif. (AP) — The grade school that required students to wear radio frequency identification badges that can track their every move stopped the program Tuesday night when the company that developed the technology pulled out.

"I'm disappointed; that's about all I can say at this point," said Earnie Graham, the superintendent and principal of Brittan Elementary School in Sutter. "I think I let my staff down. Nobody on this campus knows every student."

The badges, developed by Sutter-based technology company InCom, were introduced on Jan. 18. The school board was set to talk about the controversial policy Tuesday night but tabled the discussion after InCom announced it was terminating its agreement.

"I'm not convinced it's over," parent Dawn Cantrall, who filed a complaint with the American Civil Liberties Union, told the (Marysville) *Appeal-Democrat*. "I'm happy for now that kids are not being tagged, but I'm still fighting to keep it out of our school system. It has to stop here."

The system was imposed, without parental input, by the school as a way to simplify attendance-taking and potentially reduce vandalism and improve student safety.

While many parents criticized the badges for violating privacy and possibly endangering children's health, some parents supported the plan.

"Technology scares some people it's a fear of the unknown," parent Mary Brower told the *Appeal-Democrat* before the



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'No GPS In The Cars,' Cabbies Say

Oct. 10, 2005

Taxi drivers in New York protest plans to put tracking systems in their vehicles

By K.C. Jones, *TechWeb*

[InformationWeek](#)

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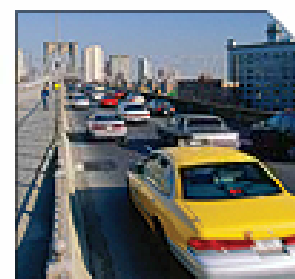
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New York City cabbies are opposing plans to install wireless tracking equipment in their vehicles.

As the city's Taxi and Limousine Commission boasts of its plans for technological innovation, including hybrid vehicles and wireless devices based on the global-positioning system or a similar technology, thousands of drivers are parking their yellow cabs and protesting. The New York Taxi Workers Alliance staged a rally in the city Oct. 3.



Drivers say they don't want to be tracked, and they don't need the expense (estimates range from \$3,000 to \$5,000 per vehicle) of installation. They also claim the devices could be used to monitor speeding and other activities,



Revelations

¹¹ Then I saw another beast that rose out of the earth; it had two horns like a lamb and it spoke like a dragon. ¹² It exercises all the authority of the first beast on its behalf, and it makes the earth and its inhabitants worship the first beast, whose mortal wound had been healed. ¹³ It performs great signs, even making fire come down from heaven to earth in the sight of all; ¹⁴ and by the signs that it is allowed to perform on behalf of the beast, it deceives the inhabitants of earth, telling them to make an image for the beast that had been wounded by the sword and yet lived; ¹⁵ and it was allowed to give breath to the image of the beast so that the image of the beast could even speak and cause those who would not worship the image of the beast to be killed. ¹⁶ **Also it causes all, both small and great, both rich and poor, both free and slave, to be marked on the right hand or the forehead, ¹⁷ so that no one can buy or sell who does not have the mark, that is, the name of the beast or the number of its name.** ¹⁸ This calls for wisdom: let anyone with understanding calculate the number of the beast, for it is the number of a person. **Its number is six hundred sixty-six.**

The Mark of the Beast



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THE KANSAS CITY STAR.

Posted on Fri, Mar. 07, 2003

KU professor has nightmare vision of global positioning
technoloav

geoworld

Is GIS a Privacy Threat?

<http://www.geoplace.com/gw/1998/0798/798onln.asp>

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THE "G" in GIS | Jerry Dobson

Think Twice About Kid-Tracking

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Geoslavery

Jerome E. Dobson and Peter F. Fisher



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What Are the Ethical Limits of GIS?

<http://www.geoplace.com/gw/2000/0500/0500g.asp>

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Every step you take, every move you make
It's time for an explicit national debate on human-tracking that goes far beyond privacy issues
[Chicago First Edition]

Chicago Tribune - Chicago, Ill.

Author: Jerome E. Dobson, president of the American Geographical Society and a geography professor at the University of Kansas

Date: Feb 25, 2005

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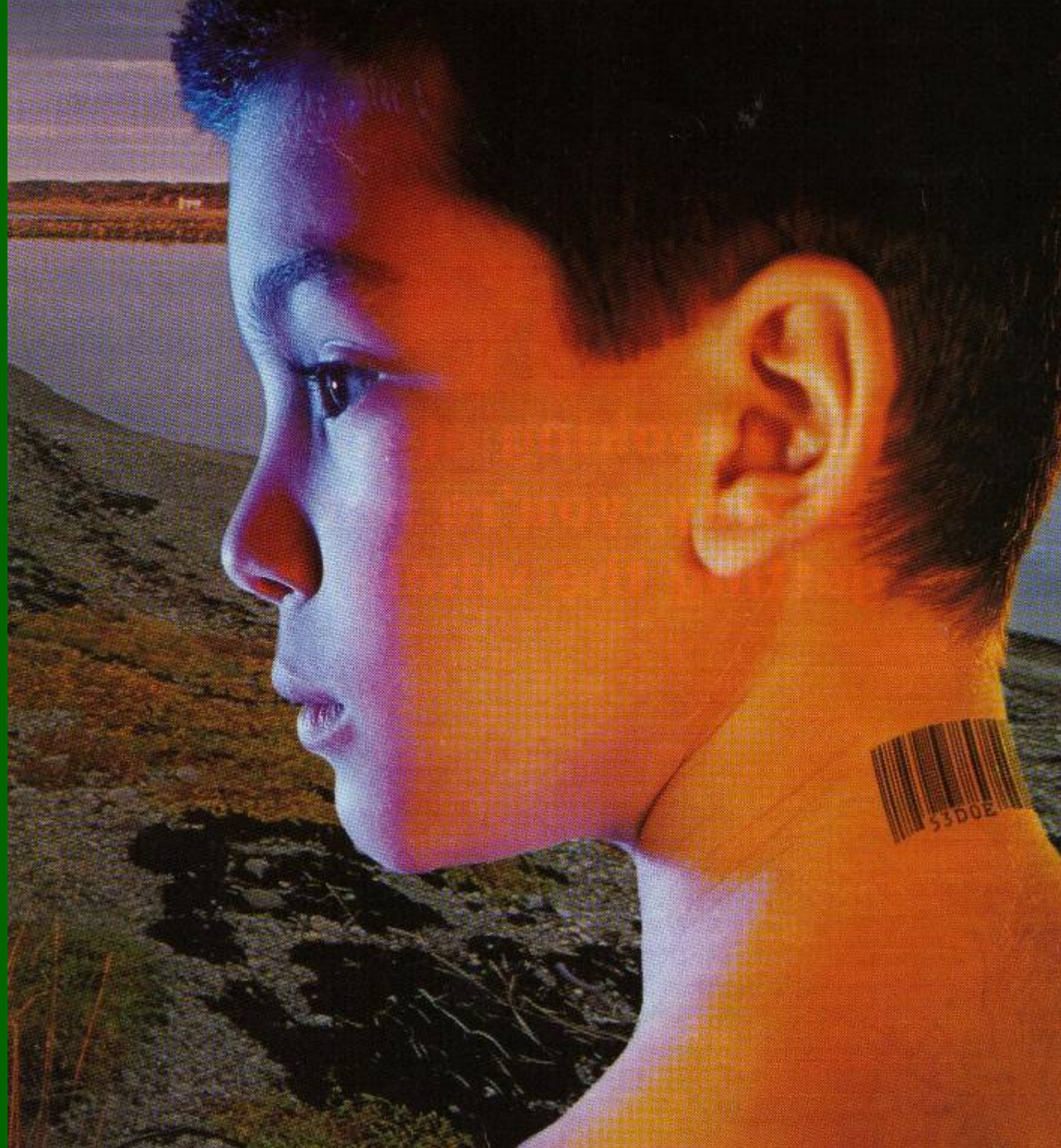
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Abstract (Document Summary)

Once viewed as a futuristic nightmare, human-tracking is now affordable and available without restriction. For \$200, plus a monthly service fee of \$20, anyone can purchase an electronic device that puts George Orwell's 1984 surveillance technology to shame. They're marketed as "kid-tracking" devices, though some ads also mention pets and senior citizens. In vivid shades of doublespeak, one company offers service plans named "Liberty, Independence and Freedom," but surveillance and control are their purpose.

**“The
greatest
threat to
personal
freedom
ever faced
in human
history.”**



Americans often say they love freedom enough to die for it.

Monday, November 06, 2006 #

Cheaper car insurance, geoslavery or geosavings?

Tim from [GPS Review](#) revisits the idea of submitting a GPS tracklog to your insurance company to prove you are a good driver in exchange for better rates. This particular program is in the UK called "Pay as you Drive". [David Starr](#) talked about a similar program in Canada a couple months ago.

I still think [this is a good idea](#). In order for GPS to be profitable in the consumer market, the end person being tracked must be in full control. In both of these cases, participation is voluntary and the consumer is in full control over who sees their data.

As long as rewarding volunteers doesn't turn into punishing non-volunteers, then I encourage these programs. I can see the commercials, "Where's Tim can save you 15% or more!!"

I'm curious to hear [Jerome Dobson's](#) opinions on this.

Technorati tags: [GPS](#), [Car Insurance](#), [Pay as you Drive](#), [Where's Tim](#), [GPSReview](#), [David Starr](#), [Jerome Dobson](#), [geoslavery](#)

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Will they now trade it for a few dollars a month on car insurance?



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“Those who would sacrifice liberty for security soon shall have neither.”

**Benjamin Franklin
Often Quoted**

“They that can give up essential liberty to obtain a little temporary safety deserve neither liberty nor safety.”

**Benjamin Franklin,
Historical Review of Pennsylvania
1759**



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“If you want total security, go to prison. There you're fed, clothed, given medical care and so on. The only thing lacking... is freedom.”

**President Dwight D. Eisenhower
Engraved On Wall of Presidential Library**



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