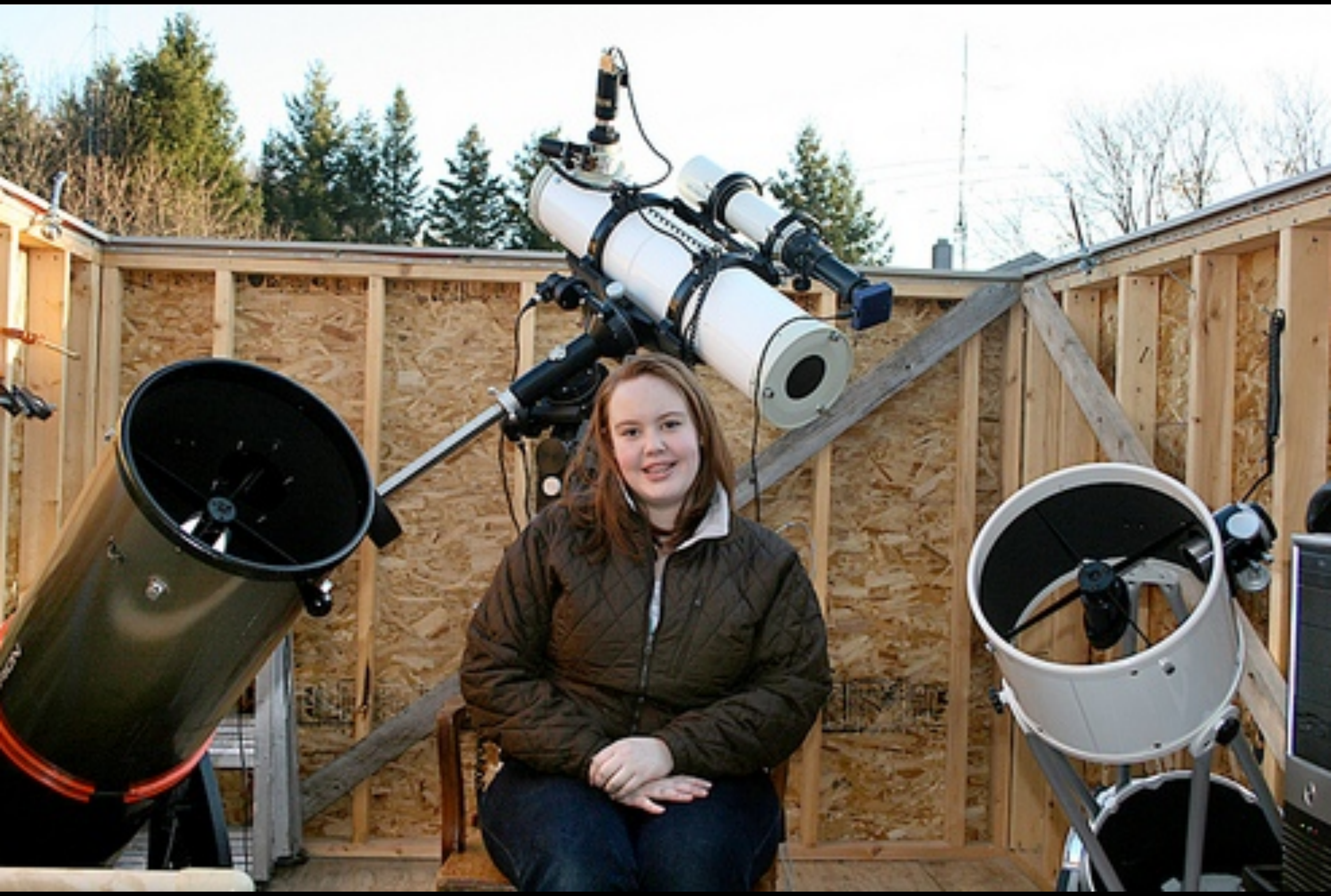
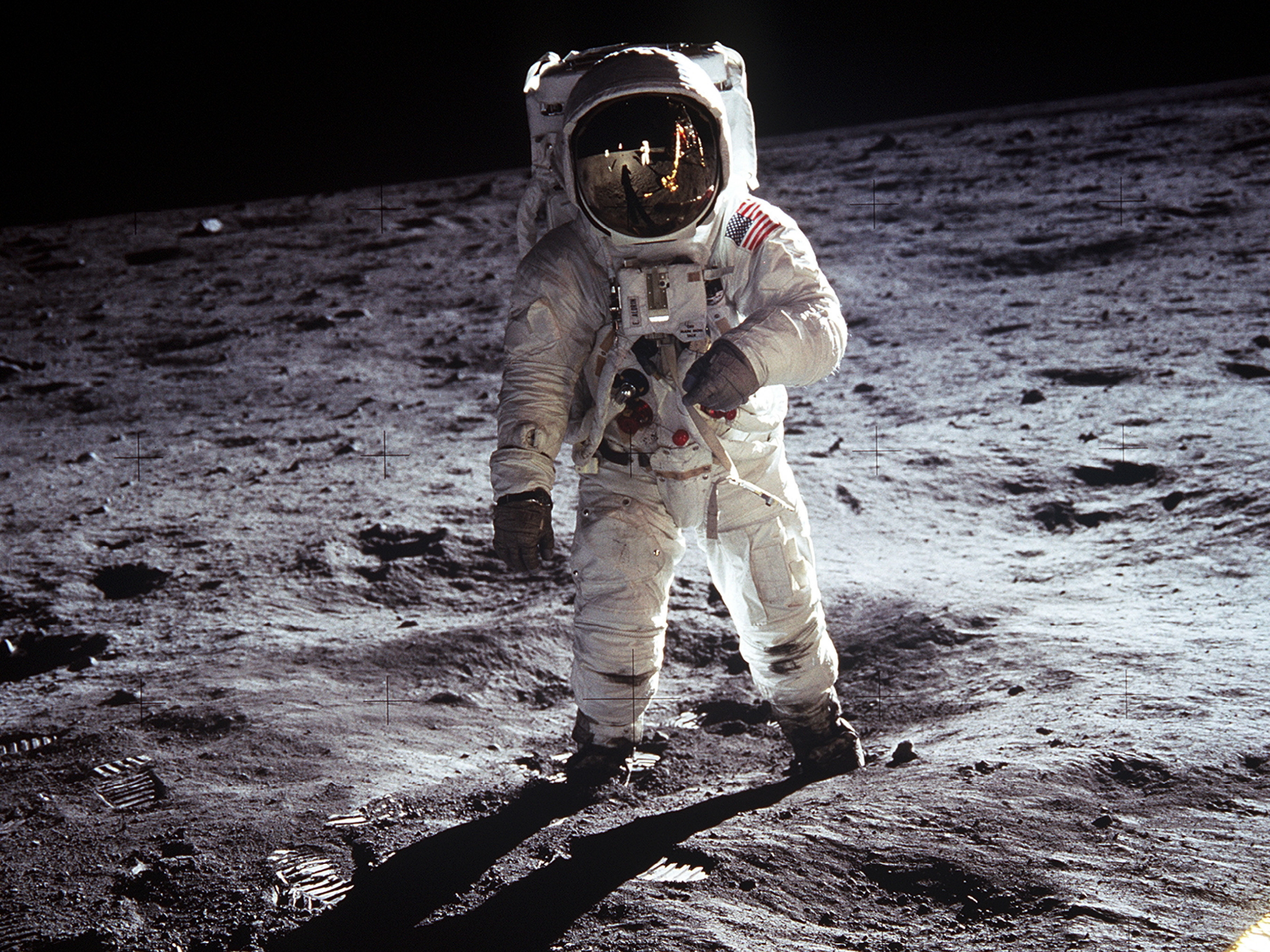
Concealed
microphone
in operation.

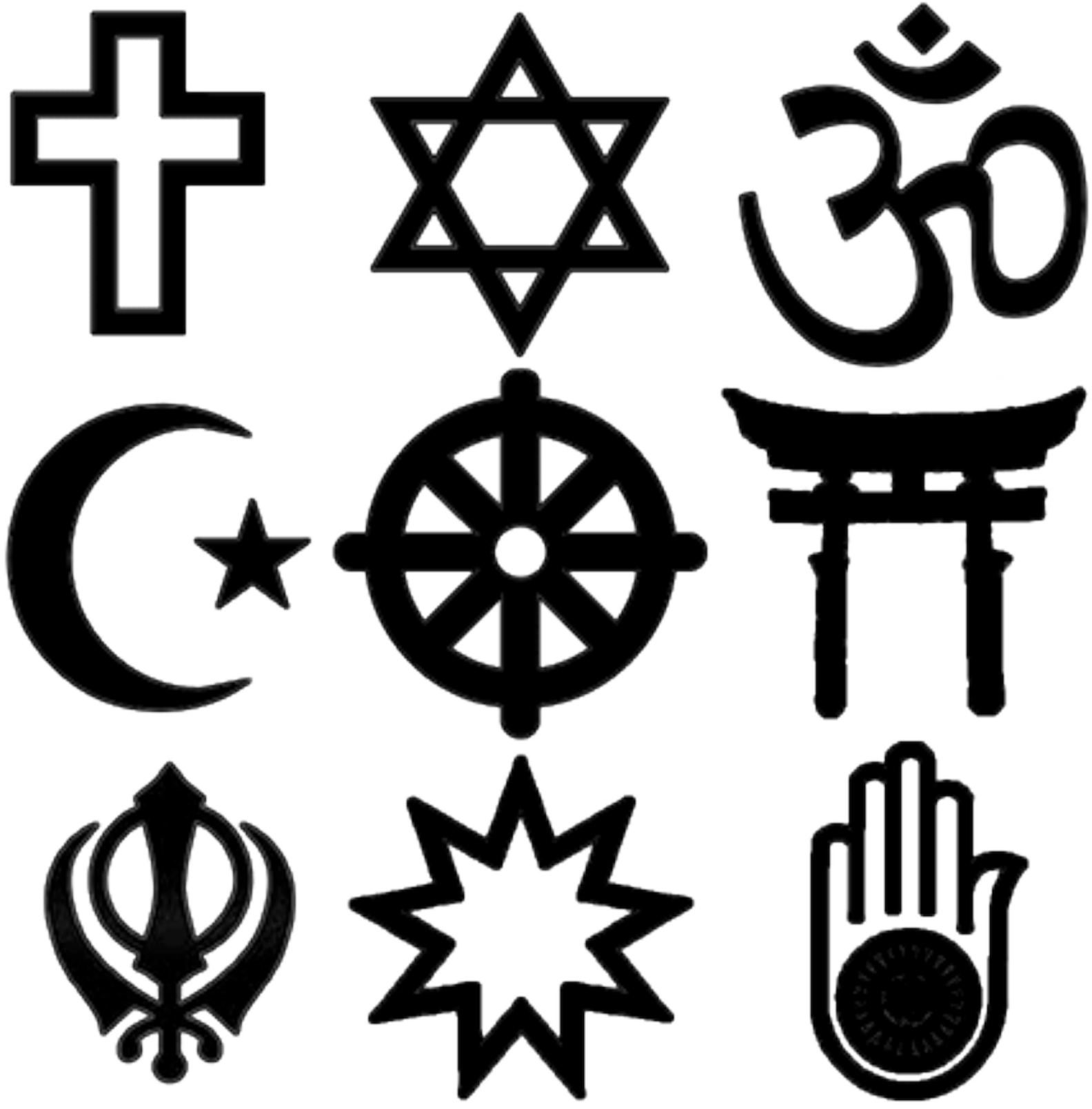
2008ha





Global Financial Crisis
Economic Turbulence
Earnings Fall
Job Cuts
The Depressio
Deficits
Profit Falls
Bailout
Jobless
Economy
Market Declines

2878
NEW YO
CANADA
LAND OF THE
HOMELESS



IN GOD WE TRUST

wicked problems

wicked problems

street crime

wicked problems

street crime

disarm police?

wicked problems

street crime

disarm police?

repeal laws that define crime?

wicked problems

street crime

disarm police?

repeal laws that define crime?

substitute ethical self-control for police and courts?

wicked problems

street crime

disarm police?

repeal laws that define crime?

substitute ethical self-control for police and courts?

shoot criminals and thus reduce
the numbers who commit crimes?

wicked problems

street crime

disarm police?

repeal laws that define crime?

substitute ethical self-control for police and courts?

shoot criminals and thus reduce
the numbers who commit crimes?

give away free loot to would-be-thieves
to reduce incentive?

design research

design research

design research is
an inquiry focused on producing
a contribution of
knowledge

NOT

to directly inform
the development
of a commercial product

design research

emphasize problem making over problem solving

critique norms and expectations

tackle wicked problems

encourage interdisciplinary thinking

highlight empathy for users

allow for disruptive ideas

Urban Atmospheres

Eric Paulos
Chris Beckmann
Elizabeth Goodman
RJ Honicky
Ben Hooker
Tom Jenkins
August Joki
Chris Myers
Ian Smith
Parul Vora

intel Research

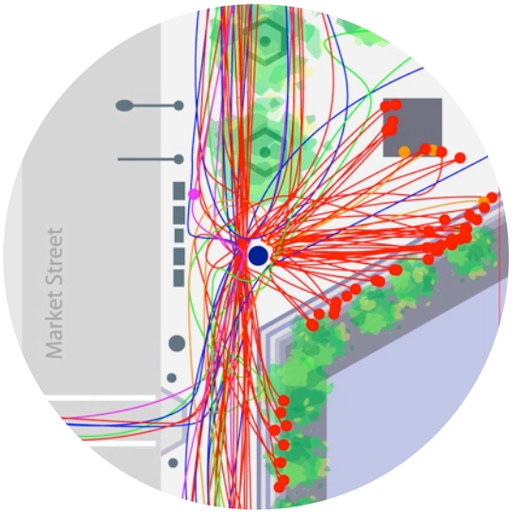
Carnegie Mellon

HCII
Human-
Computer
Interaction
Institute

The map is not the territory

- Alfred Korzybski

NOKIA


Market Street

i hate
PORTLAND
love
PORTLAND

042

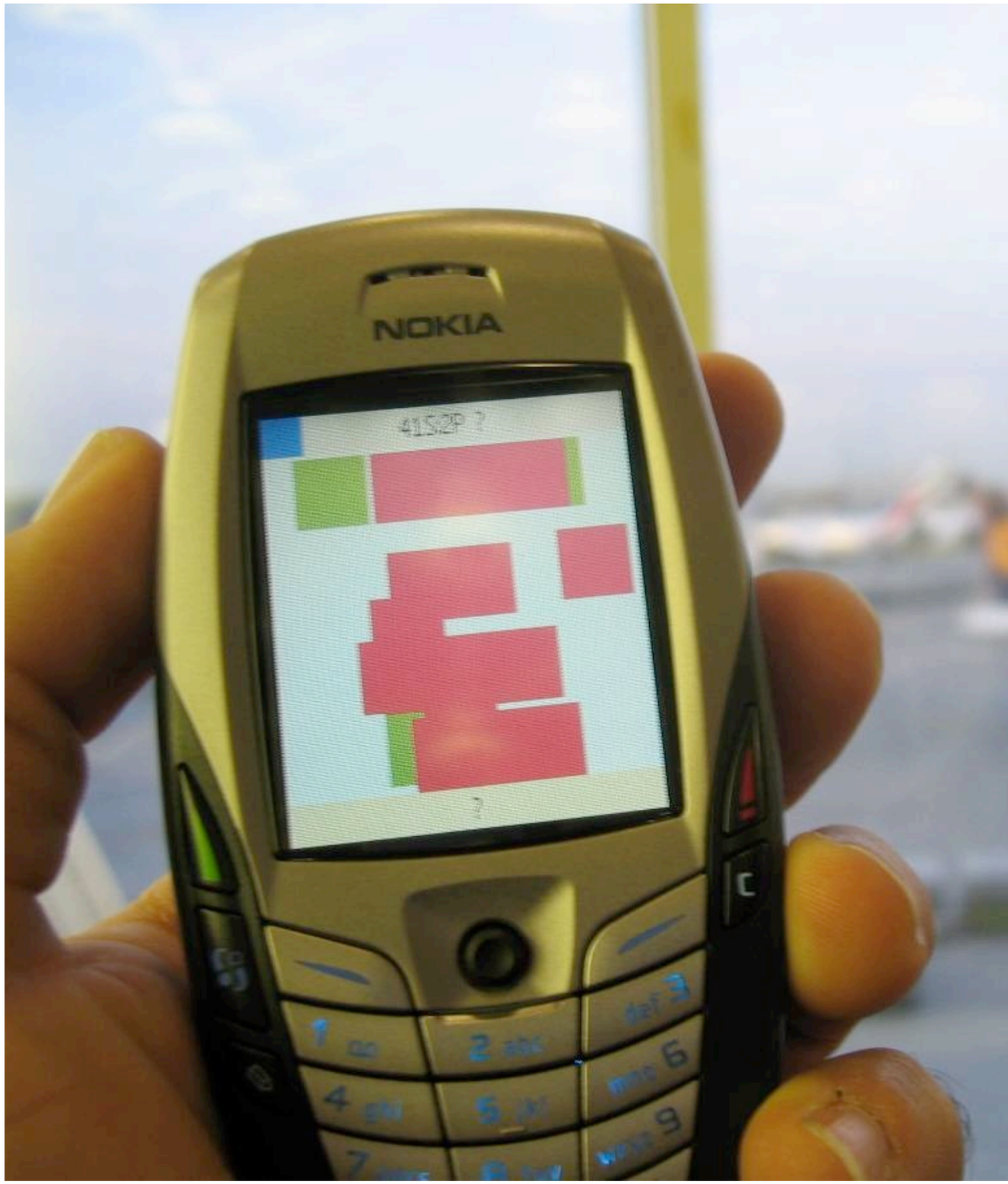
FEELS LIKE...?

Jabberwocky

Encountering our familiar strangers

The Familiar Stranger: Anxiety, Comfort, and Play in Public Places, ACM SIGCHI 2004
Eric Paulos and Elizabeth Goodman

NOKIA
135:5P San fran
San fran


NOKIA

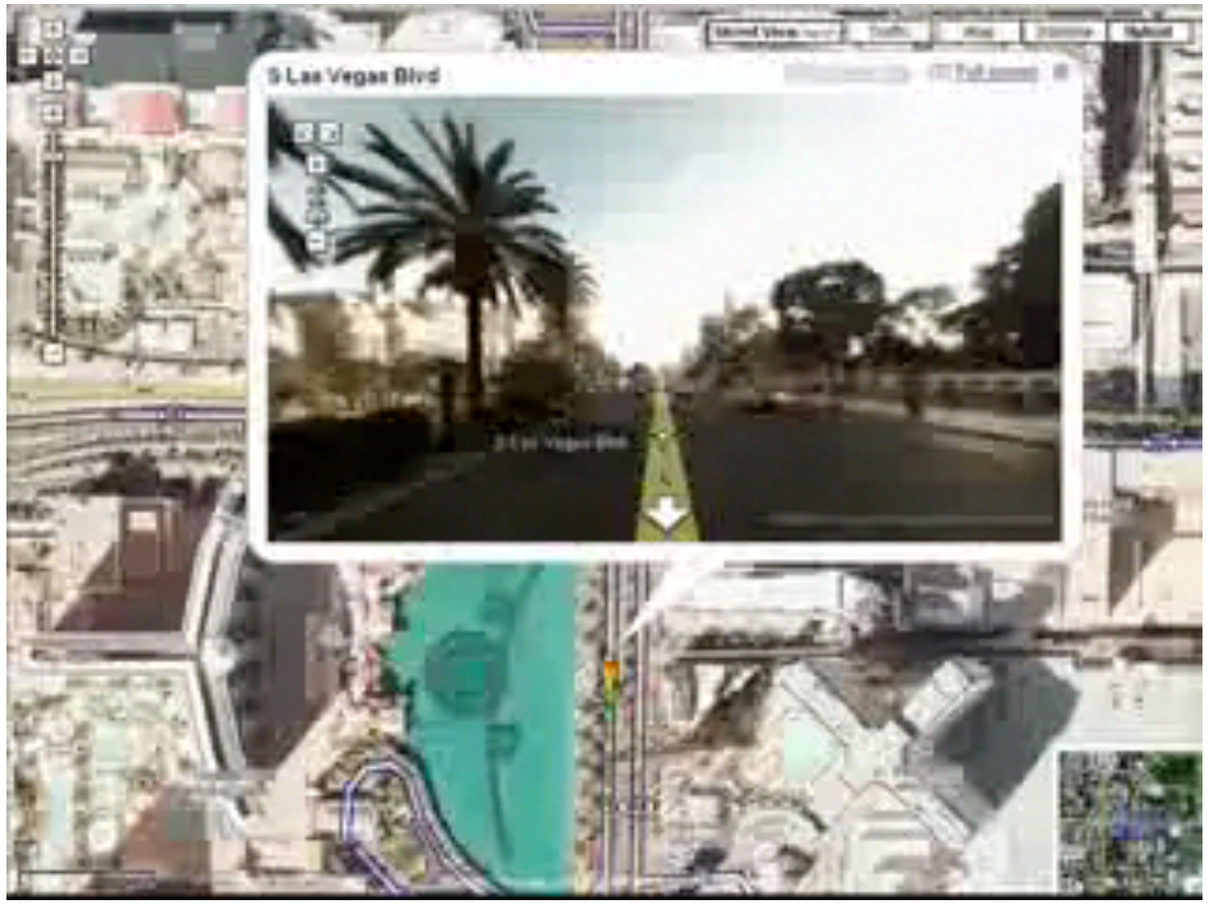
Stanley Milgram 1971

Vito Acconci / Following Piece 1969

Sophie Calle / Please Follow Me 1983

Aspen Movie Map
Michael Naimark
1978

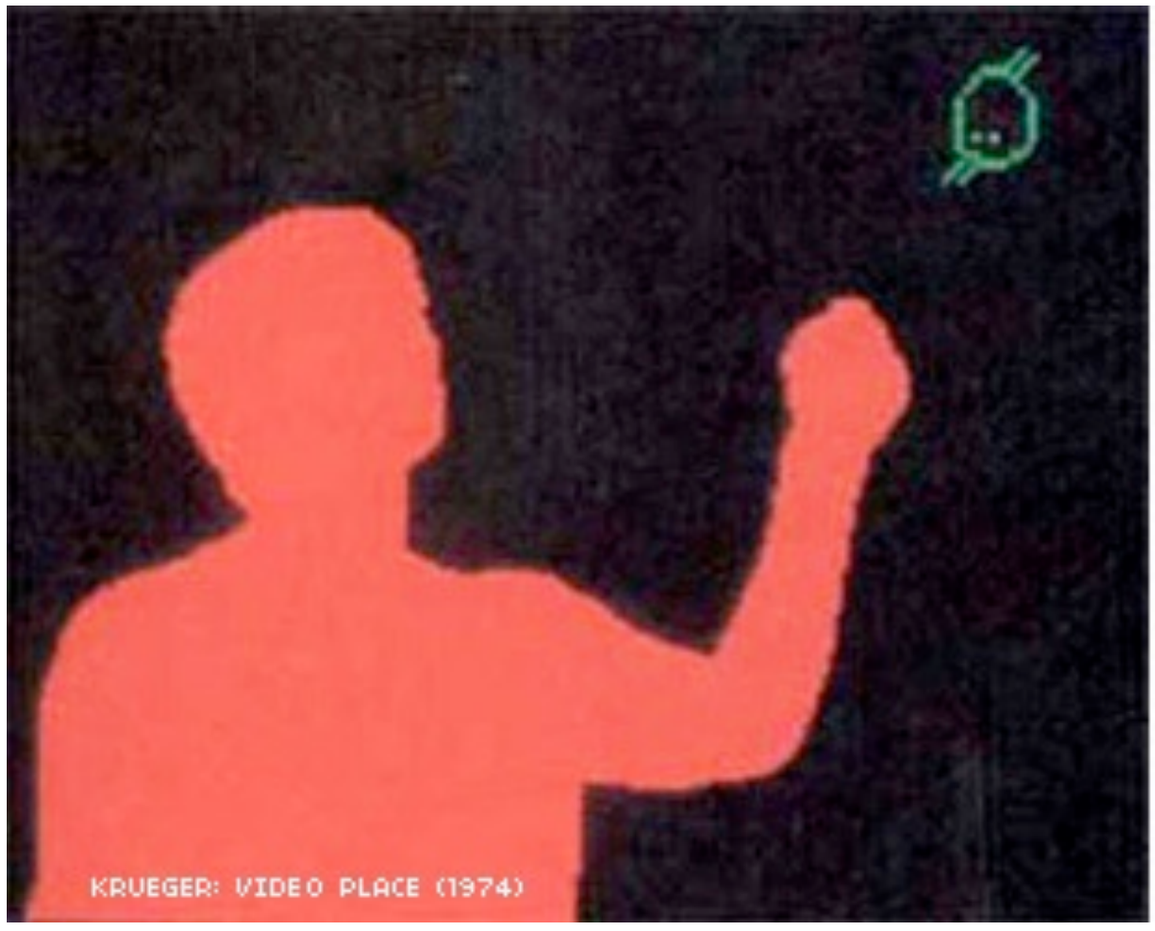
Aspen Movie Map
Michael Naimark
1978



Street View
Google
2007

Michael Naimark & MIT
ArchMac's Aspen Movie Map
1978-1980

Google StreetView
2007



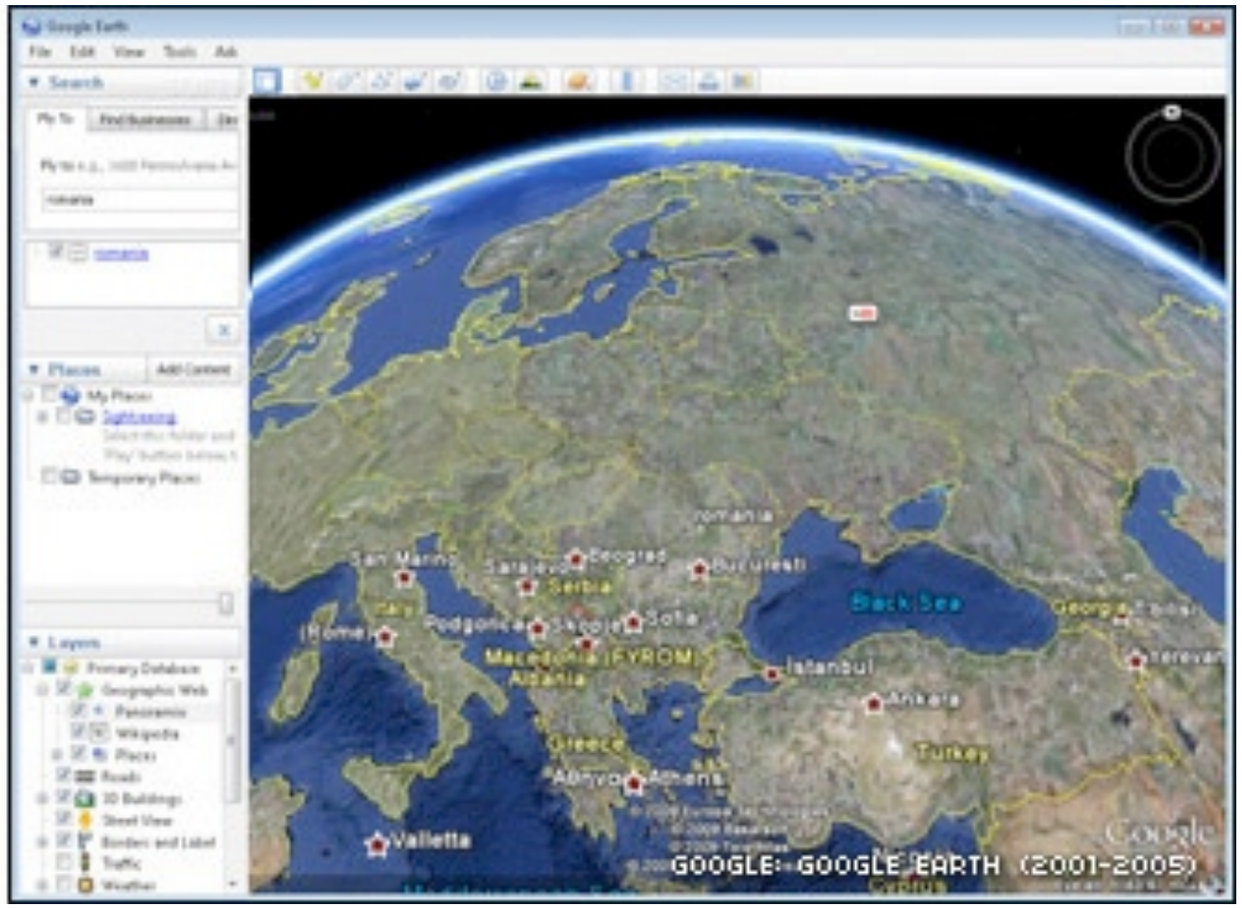
Myron Krueger’s Video Place
1974

Sony EyeToy
2003

Jeffrey Shaw’s Legible City
1988

E-fitzone exercise equipment
2008

Art+Com’s Terravision
1996

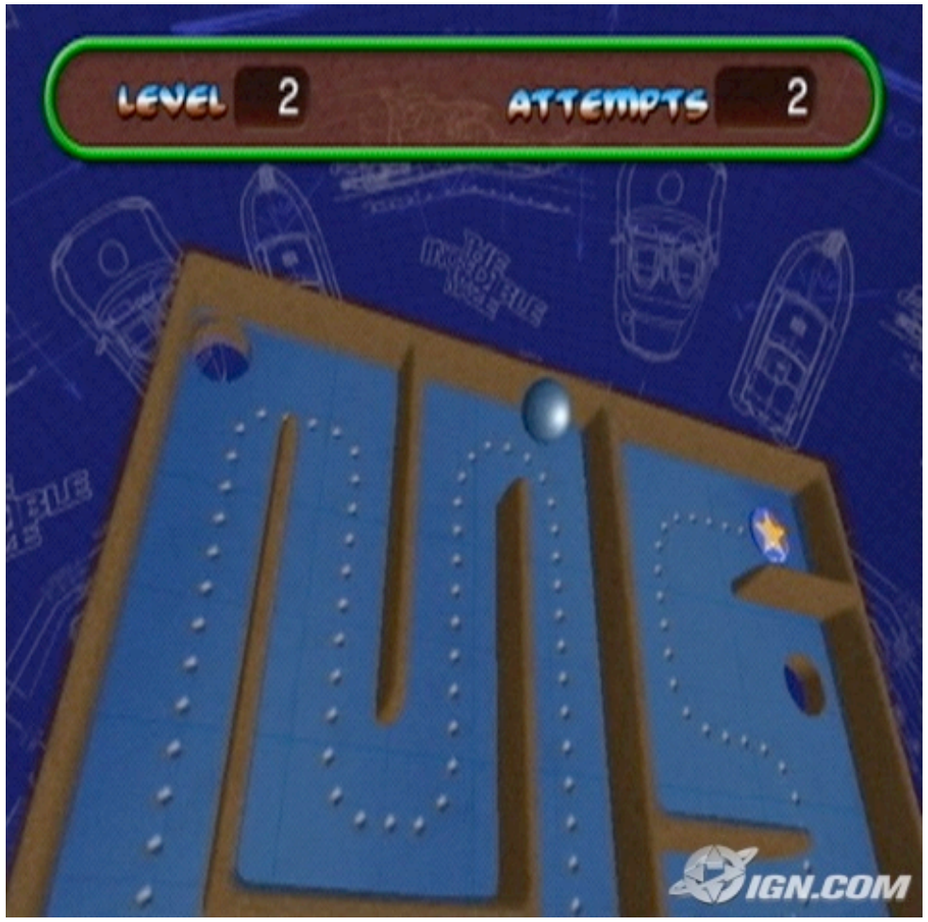


Google’s Google Earth
2005

Institute for Applied Autonomy's
GraffitiWriter & Streetwriter
1998-2004

Nike Chalkbot
2009

Motoi Ishibashi and
Motoki Kouketsu's
G-Display artwork
1999



The Incredible Maze (Wii) 2008

aMaze (iPhone) 2009

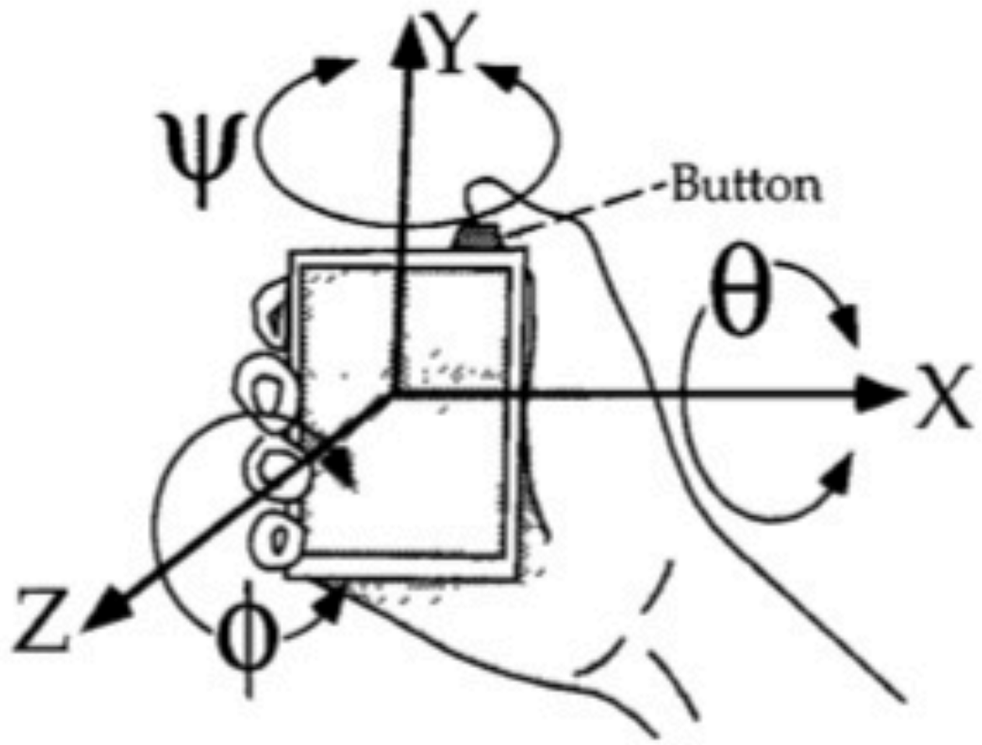


Figure 1: The operational concept of the tilting interface

Jun Rekimoto's Tilting Operations for Small Screen Interfaces

Tech Note
UIST 1996

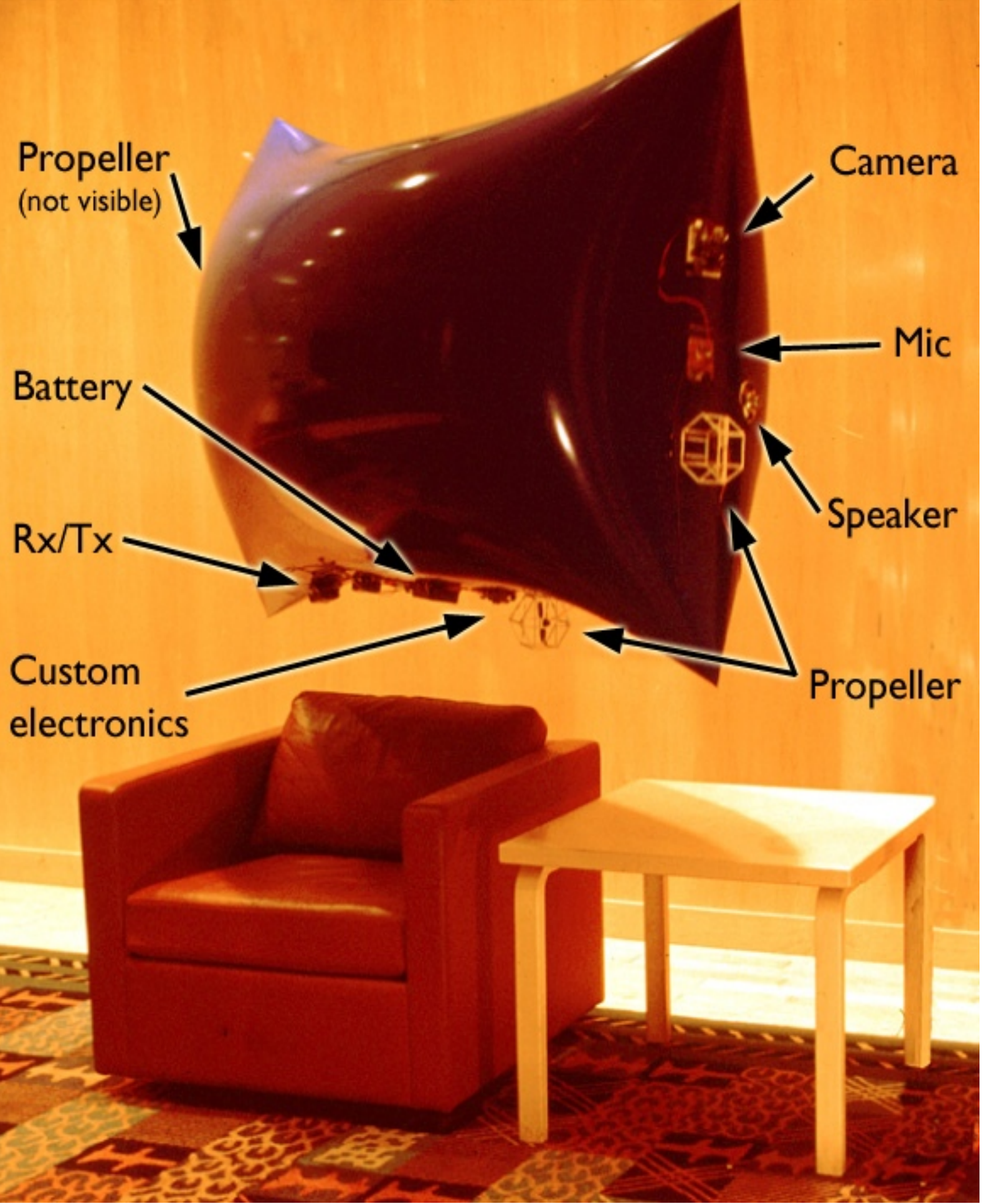
Wearable Computing
Parasitic Power Shoes Project
1991-1998

The Eudaemons Shoe
1978

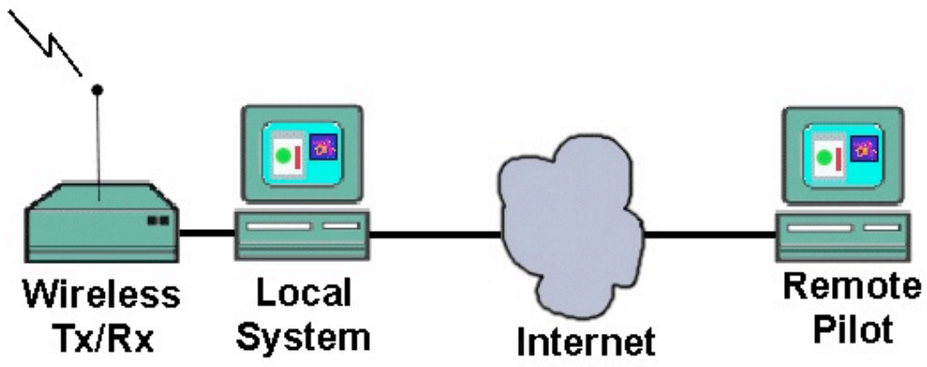
Wearable Computing
Parasitic Power Shoes Project
1991-1998

The Eudaemons Shoe
1978

Wearable Computing
Parasitic Power Shoes Project
1991-1998


Propeller
(not visible)
Camera
Mic
Battery
Speaker
Rx/Tx
Custom
electronics
Propeller

Blimp Flight Controls


Wireless
Tx/Rx
Local
System
Internet
Remote
Pilot

Silver Clouds by Andy Warhol 1966

Remote Controlled Blimp
$19

Remote Controlled Blimp
$19

iPhone 3Gv

Remote Controlled Blimp
$19

iPhone 3Gv

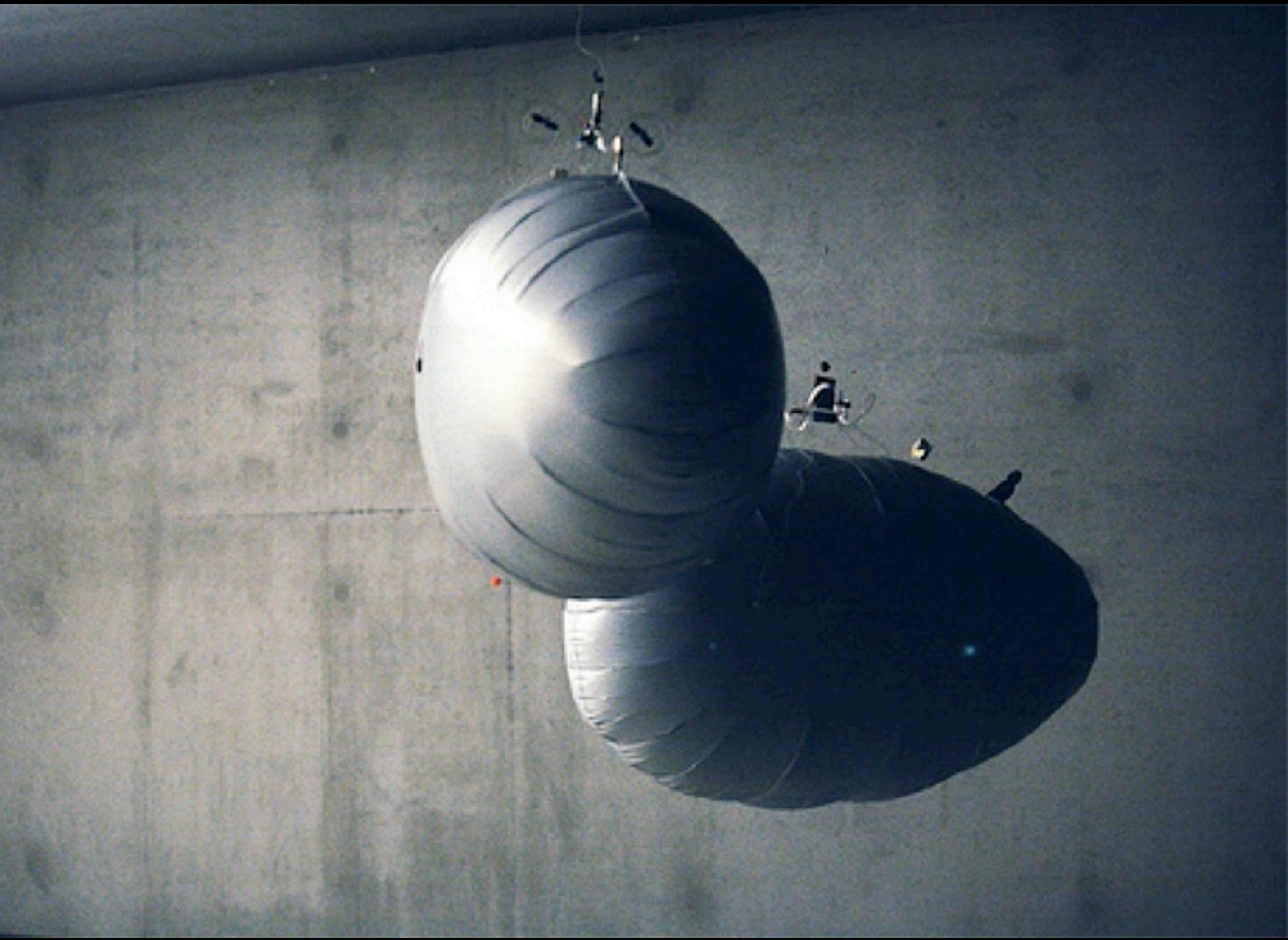
Eric’s Thesis App
99¢

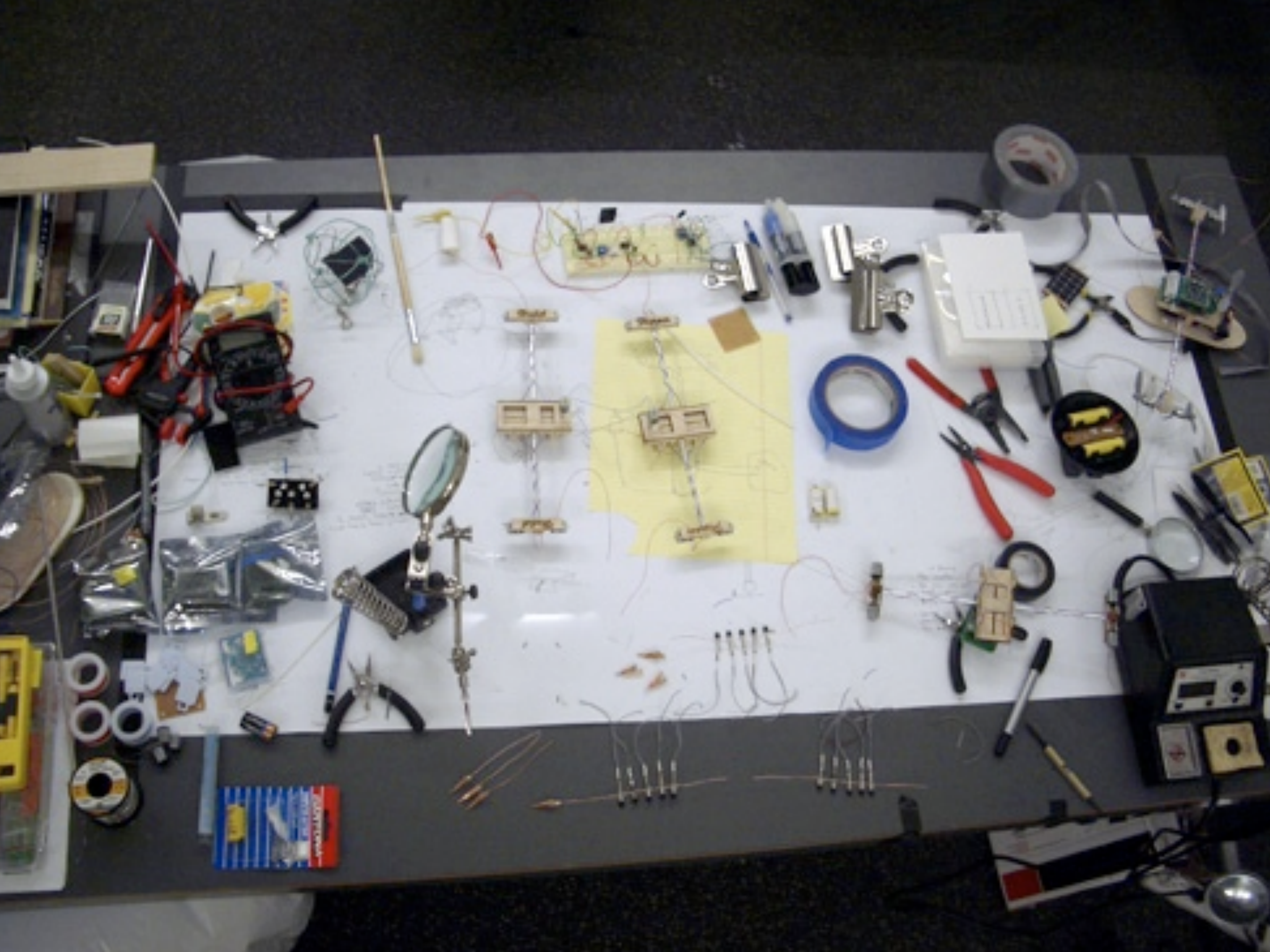
Remote Controlled Blimp
$19

iPhone 3Gv

Eric’s Thesis App
99¢

My PhD Dissertation
$19.99





Top

Secret

ERIC'S

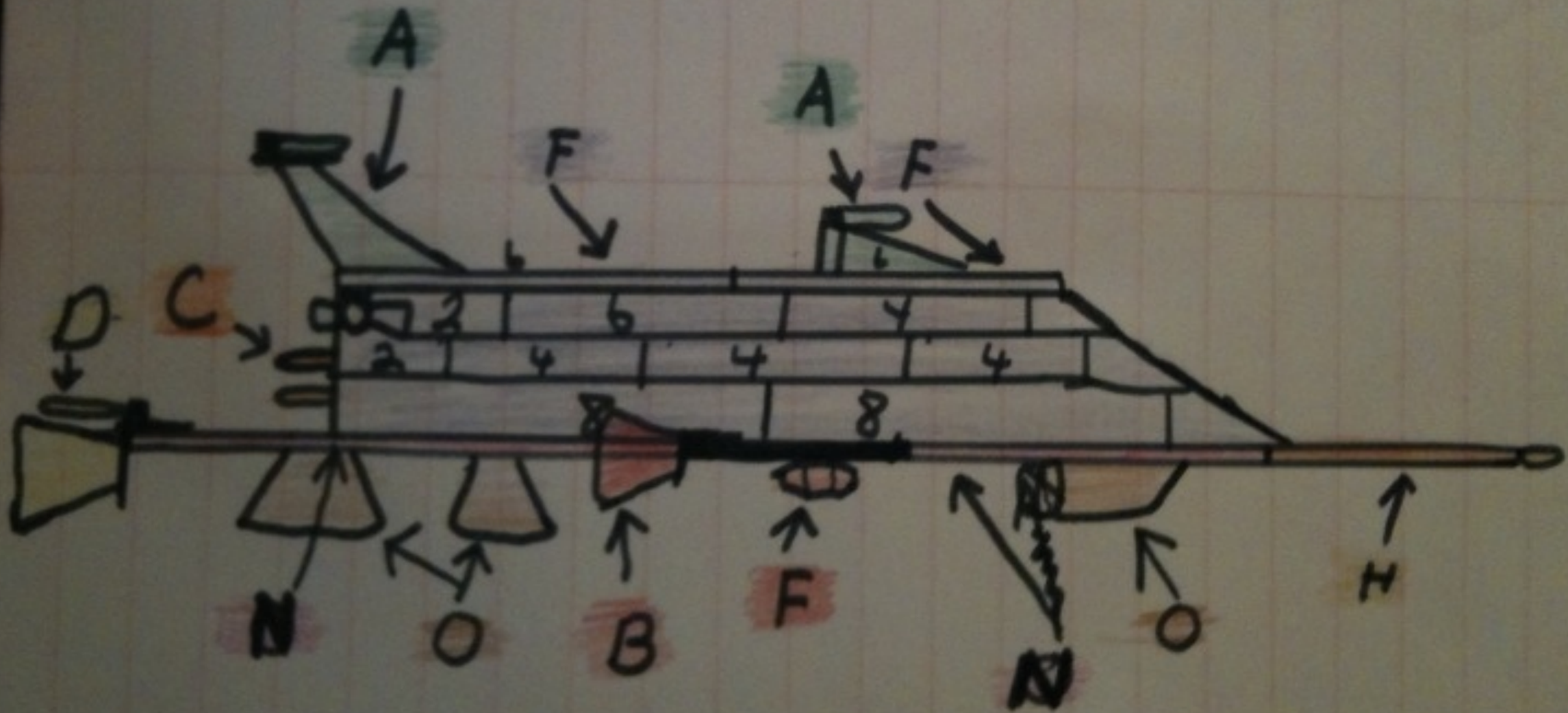
Plans

Donot

open

UNLESS

AUTHORIZED


A
F
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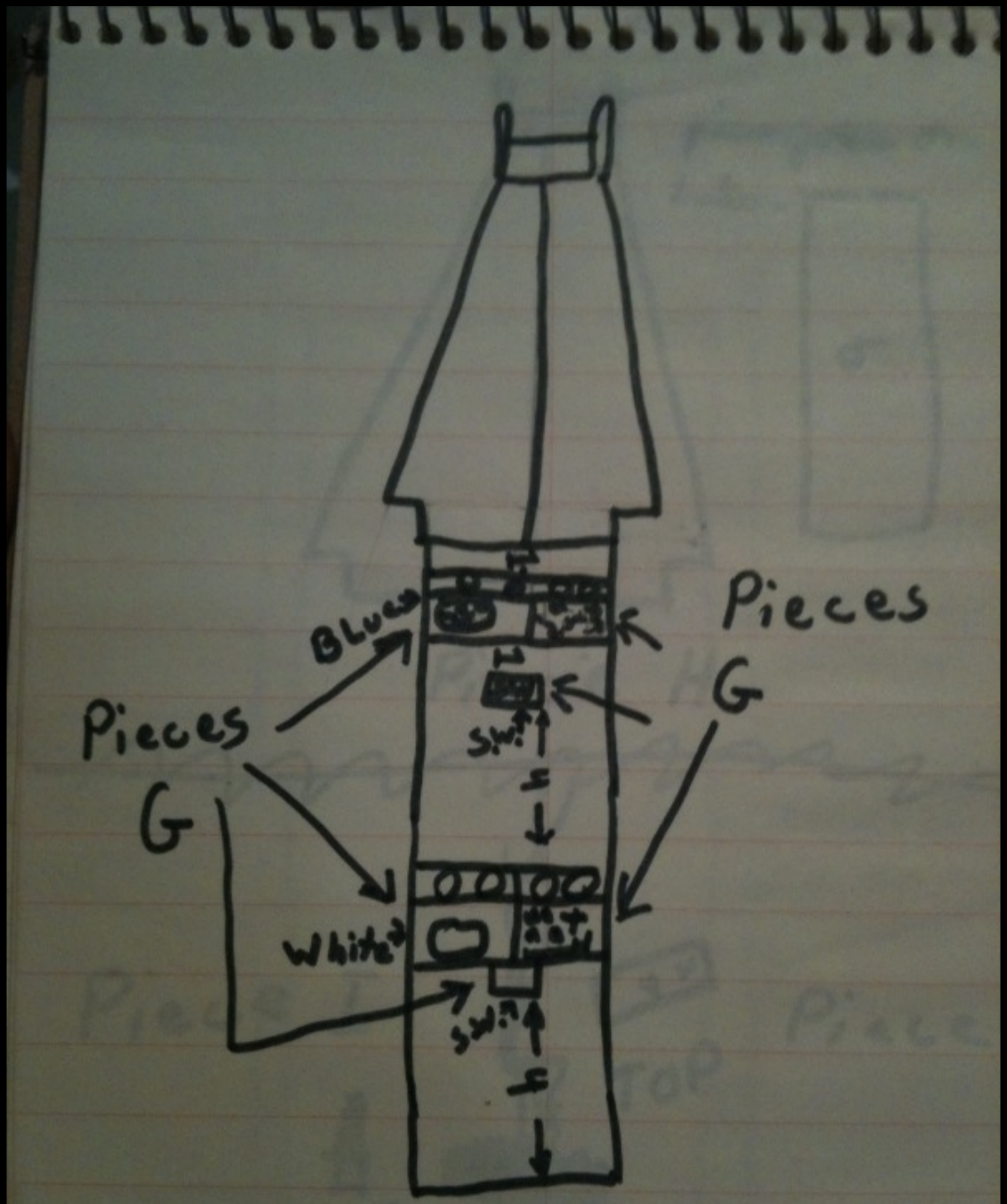
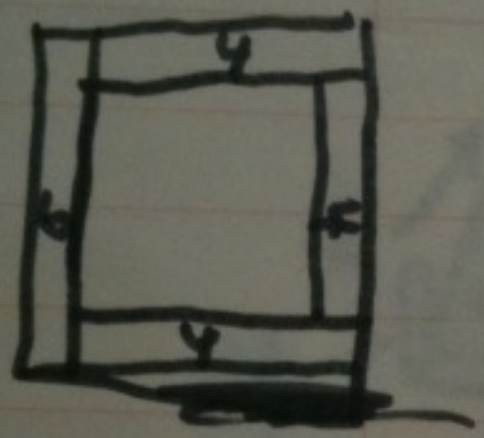
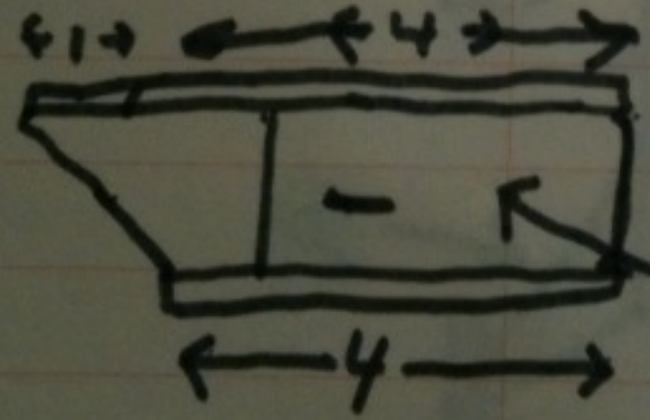

Pieces
G
Pieces
G
Blue
White
S.W.
S.W.

Part 0



Top

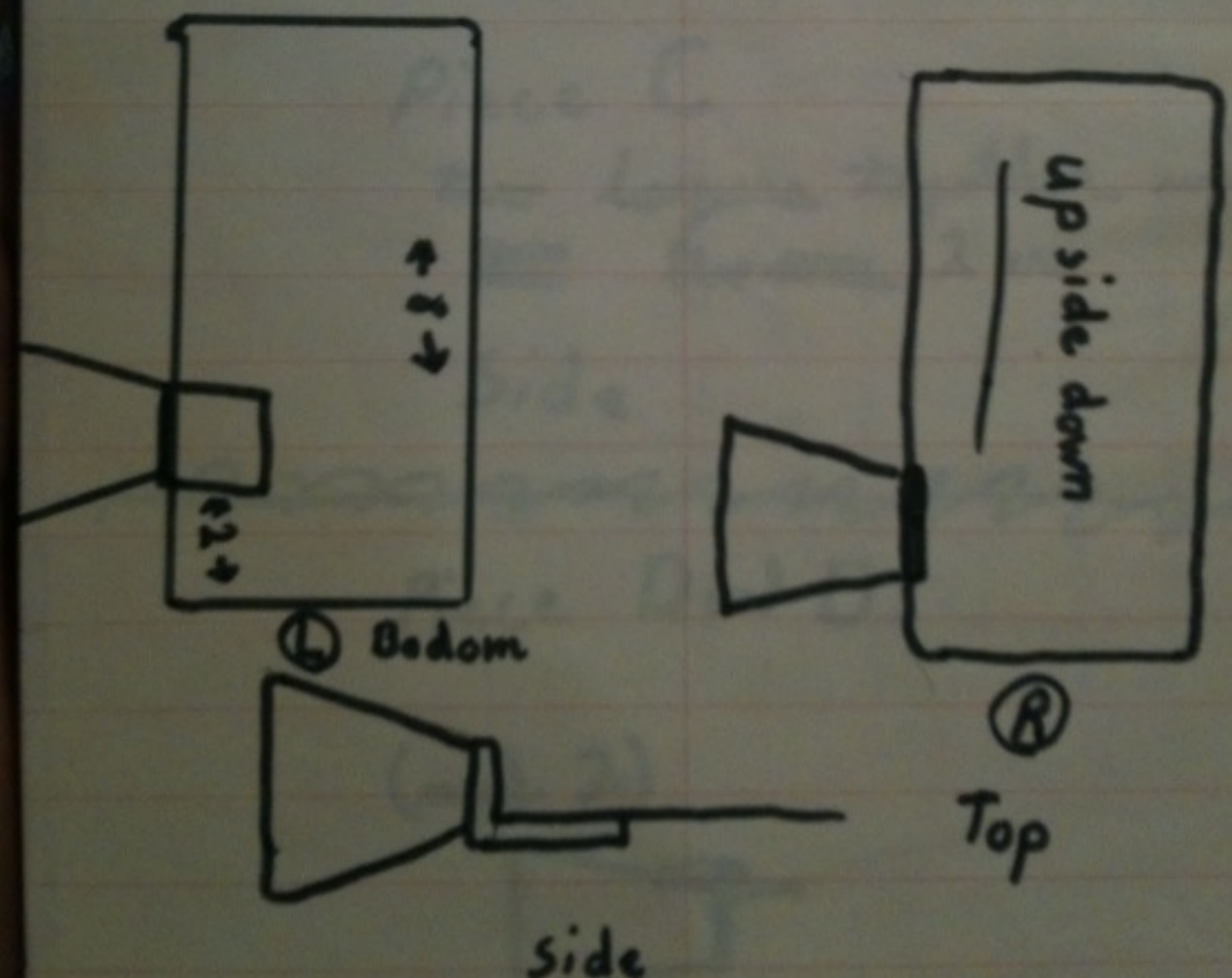


put a door on each side

SIDE

Piece B and B2

Engine and engine holder need to be reversed for right and left side



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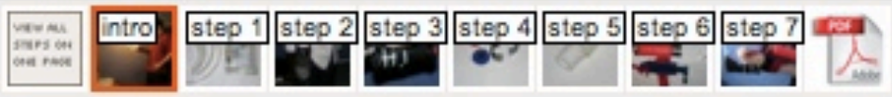
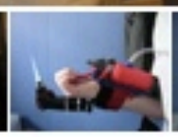
Flameslinger



intro Flameslinger

FACEBOOK
TWITTER
EMAIL
EMBED
PRINT
PDF

Instructions on how to modify a spiderman webslinger into a handheld flamethower.
Disclaimer: I havent had any problems with this design and I have never been burned by it, however it still is dangerouse and I take no responsibility for anyone who attempts to build this.



« previous step
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next step »

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STATS 3.823 views
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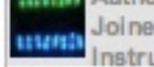


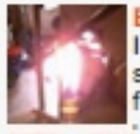
Author: Tetranitrate
Joined: Jul 3, 2006
Instructables: 44
subscribe
published: Jul 3, 2006 (more info)

RELATED

Nerf Gun Modifications.
Nerf guns are not just for kids any more. In this how-to, you will learn how to

How to Kill Ants
Many people can't figure out how to get rid of those pesky little ants. If you're

Orange Peel Flamethrower
No, this has nothing to do with textured plaster. Basically, you just squeeze



Easy Flame Thrower !
In this instructable i will show you how to make a flamethrower/blaster in

Overclock a lighter, AKA: .
ALLERT: I jsut realized that another person has made this same instructable only

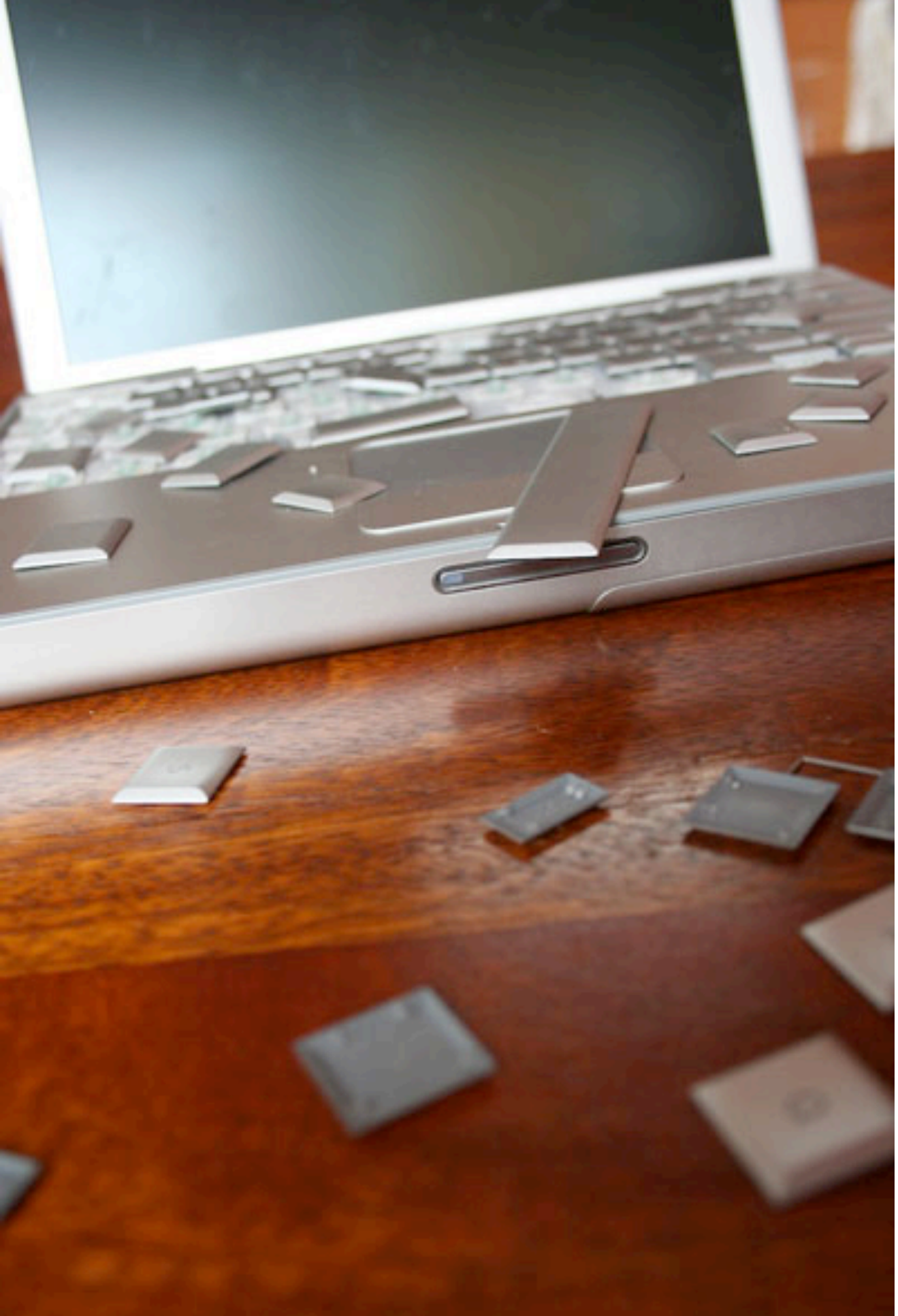
Fire Extinguisher super-so.
I am liable for nothing you do with this. by reading this instructable, you accept...

Filming Sniper Scenes
Every war movie must have

“fail-safe”
load-bearing members must fail catastrophically
when exposed to flame
throttles default to max when control signal is lost

from proprietary innovation ...

to populist innovation



Manifesto of Open Disruption and Participation

20 Feb 2009

We want our technologies
to sing
of not just productivity
but of our love of curiosity,
the joy of wonderment,
and the freshness of the
unknown.

Emancipation Computing

emancipation - the act of setting an individual or social group free

emancipation - to free from restraint, control, or the power of another

emancipation - to free from bondage

emancipation - to free from any controlling influence

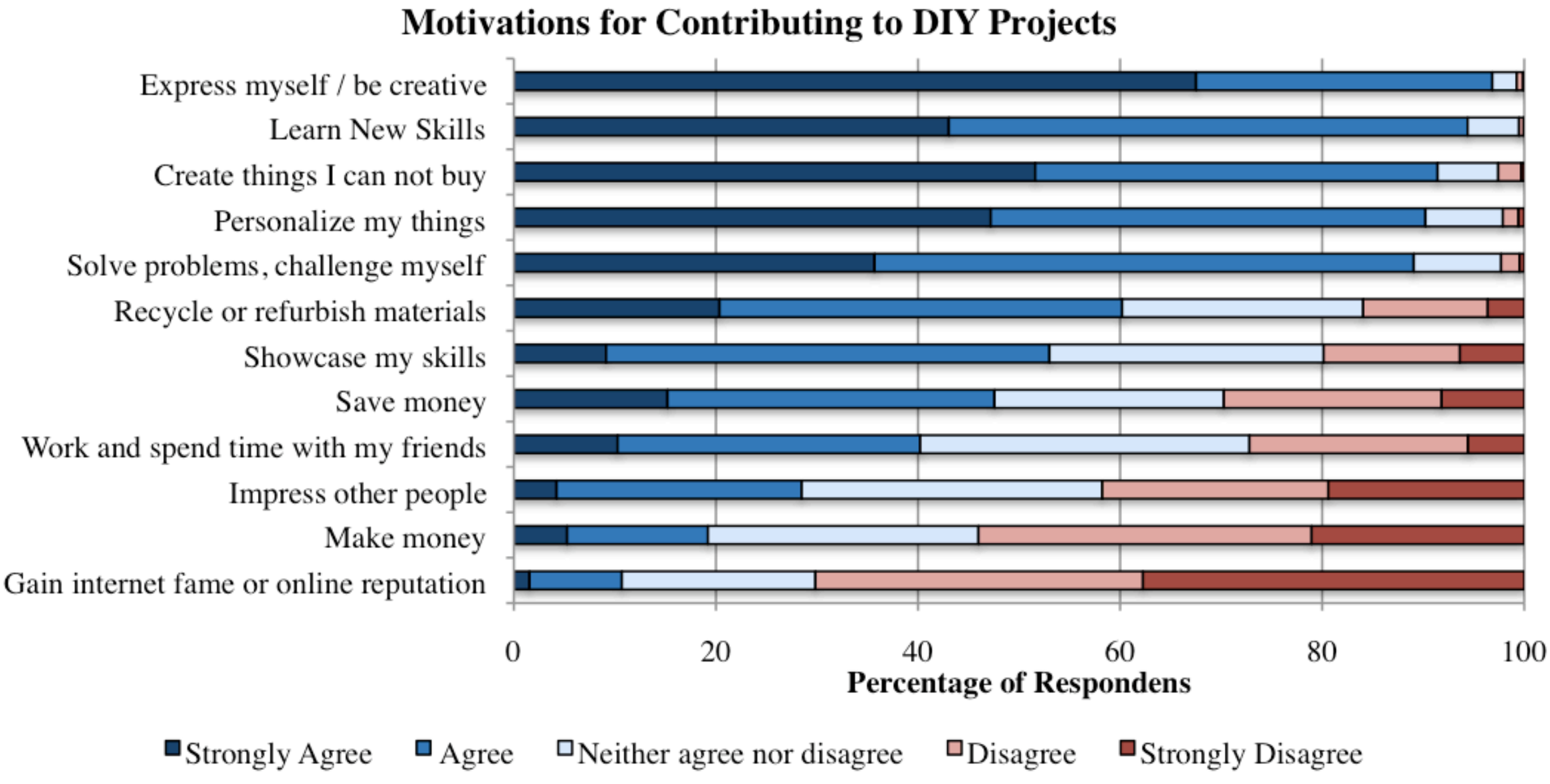
Amazing but True Cat Stories

by Folks on the Internet

DIY Culture

Stacey Kuznetsov

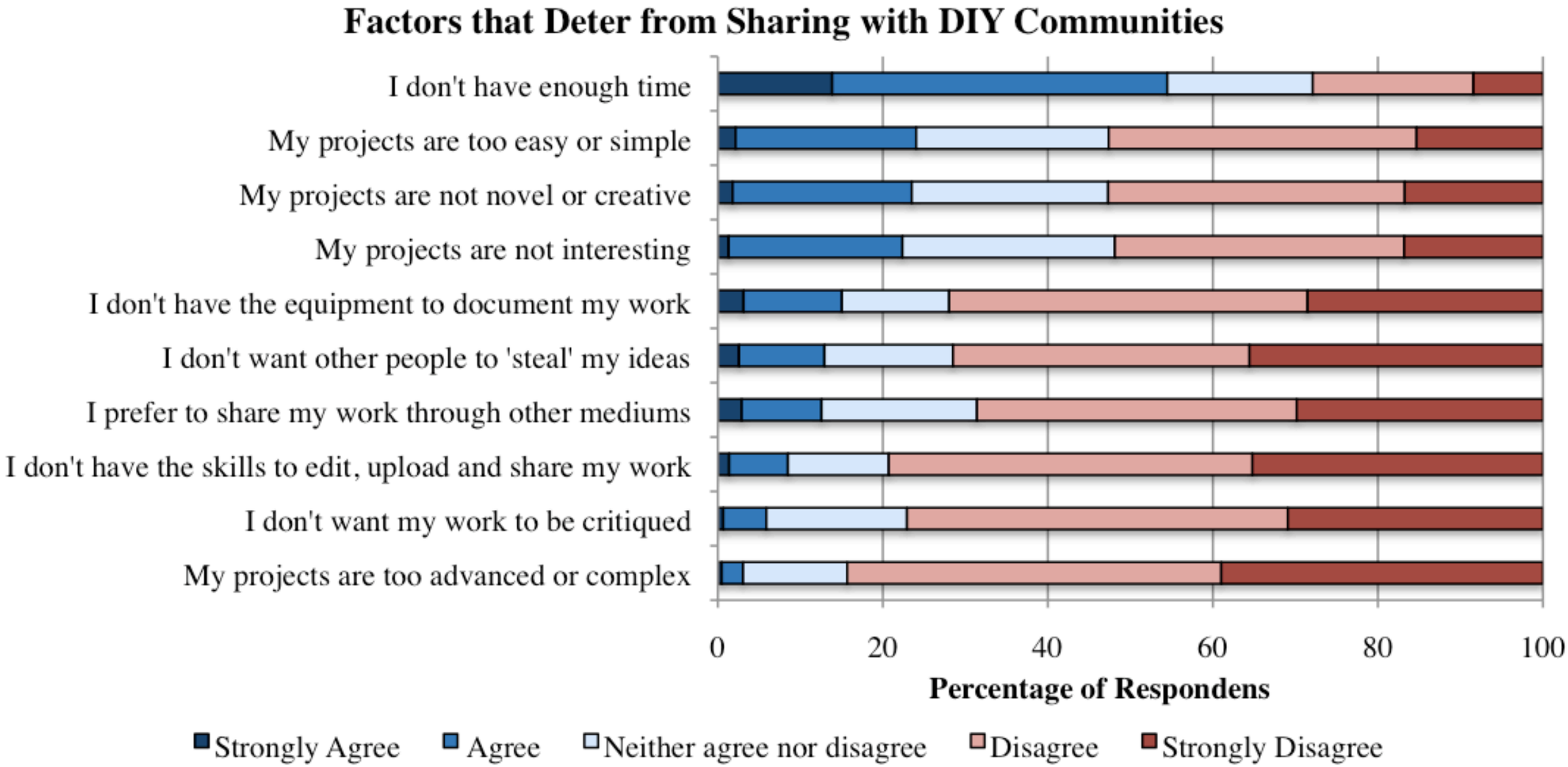
Rise of the Expert Amateur



DIY Culture

Stacey Kuznetsov

Rise of the Expert Amateur



DIY open questions

- How important is DIY to people?
- Is it a moral, aesthetic, or practical choice?
- How many people places themselves in the category?
- What portion of their life is DIY?
- Is it something that appeals to young people more or less?
- Is DIY a durable phenomenon -- will it last?
- Is it affected by the economy?
- Concerns about climate change?
- How is DIY incorporated into an individual’s work life?
- Is it a value/practice they'd like to pass on to children?

DIY

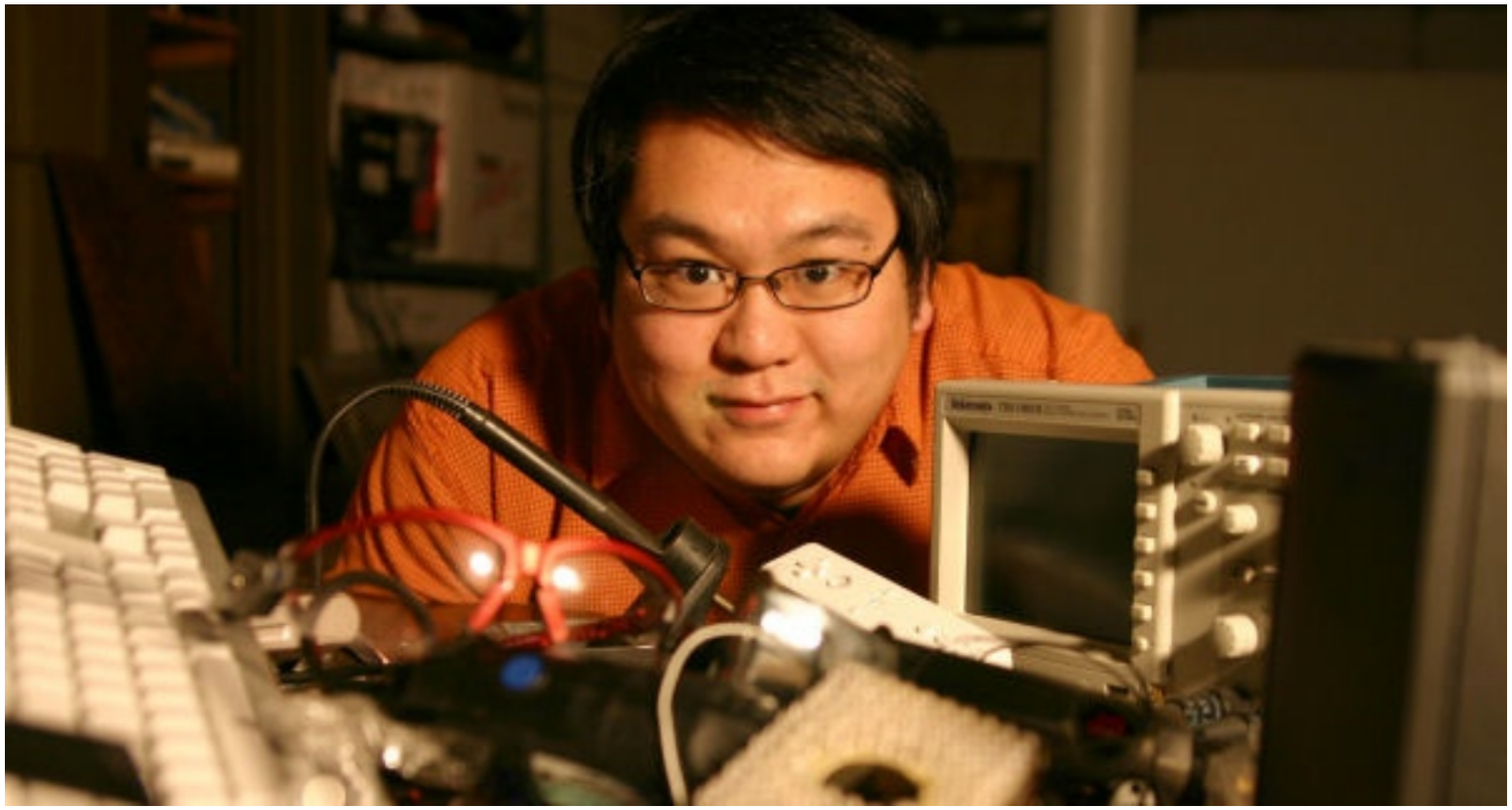
Chronicle / Penni Gladstone

- Build rather than design
- Materials must come pre-broken
- Rubbish is the root of virtuosity
- Celebrate incomplete designs
- Allow for non-rivalrious use

- Embrace new materials - organic, decomposable, Hertzian, biological, molecular, food, soil ...

Every profession is a conspiracy against the laity

- George Bernard Shaw



UIST

+

DIY

our role is changing from “professional idealizer” and “problem solver” to ...

non-professional facilitator of new artifacts

we are not the sole gatekeepers but rather equal practitioners in a loose process where we encourage the flow of possibilities and modalities and are open to learning and surprise by others - especially from those outside of our community

Living Environments Lab

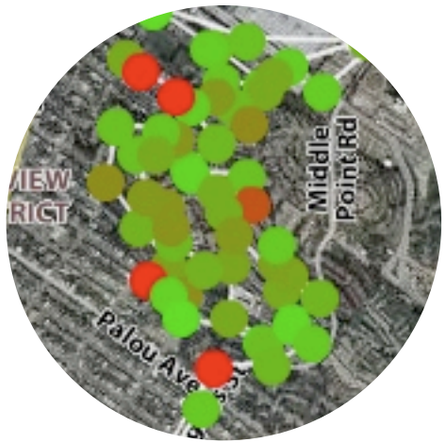
a collaborative research laboratory
focusing on the critical intersection of
human life, out living planet, and technology

human life

HCI
interface design
usability
experience
empowerment
emotion
persuasion
...

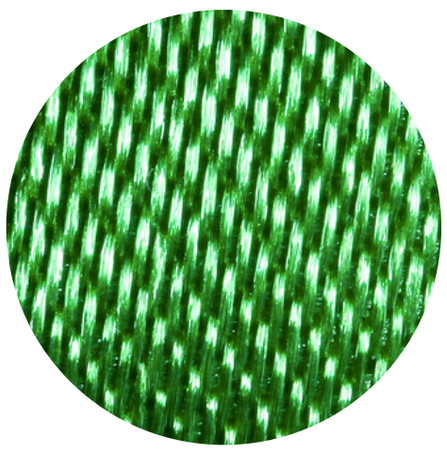
environmental life

sustainability
environmental awareness
human health and well being
alternative energies
peer-to-peer power
new materials
methods for making & re-making
...



Health and Well Being

citizen science
education and awareness
debate and policy change
collective action



DIY Green

materials and methods
material revolution
methods of making and re-making
citizen as maker

Energy Ethics

new energy education
micro-power
peer-to-peer power
micro-payments
alternate economies

Living Environments Lab

a collaborative research laboratory
focusing on the critical intersection of
human life, out living planet, and technology

If you cannot measure it

you cannot improve it

- Lord Kelvin

EPA = 2 ppb

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PSYCHIC ADVISOR
309
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Rug, Wedding Gown
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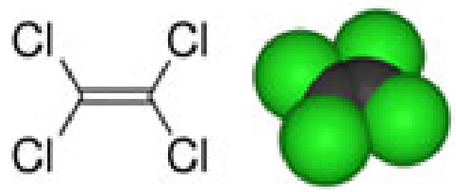

Cl
Cl
Cl
Cl

39 of 40 apartments

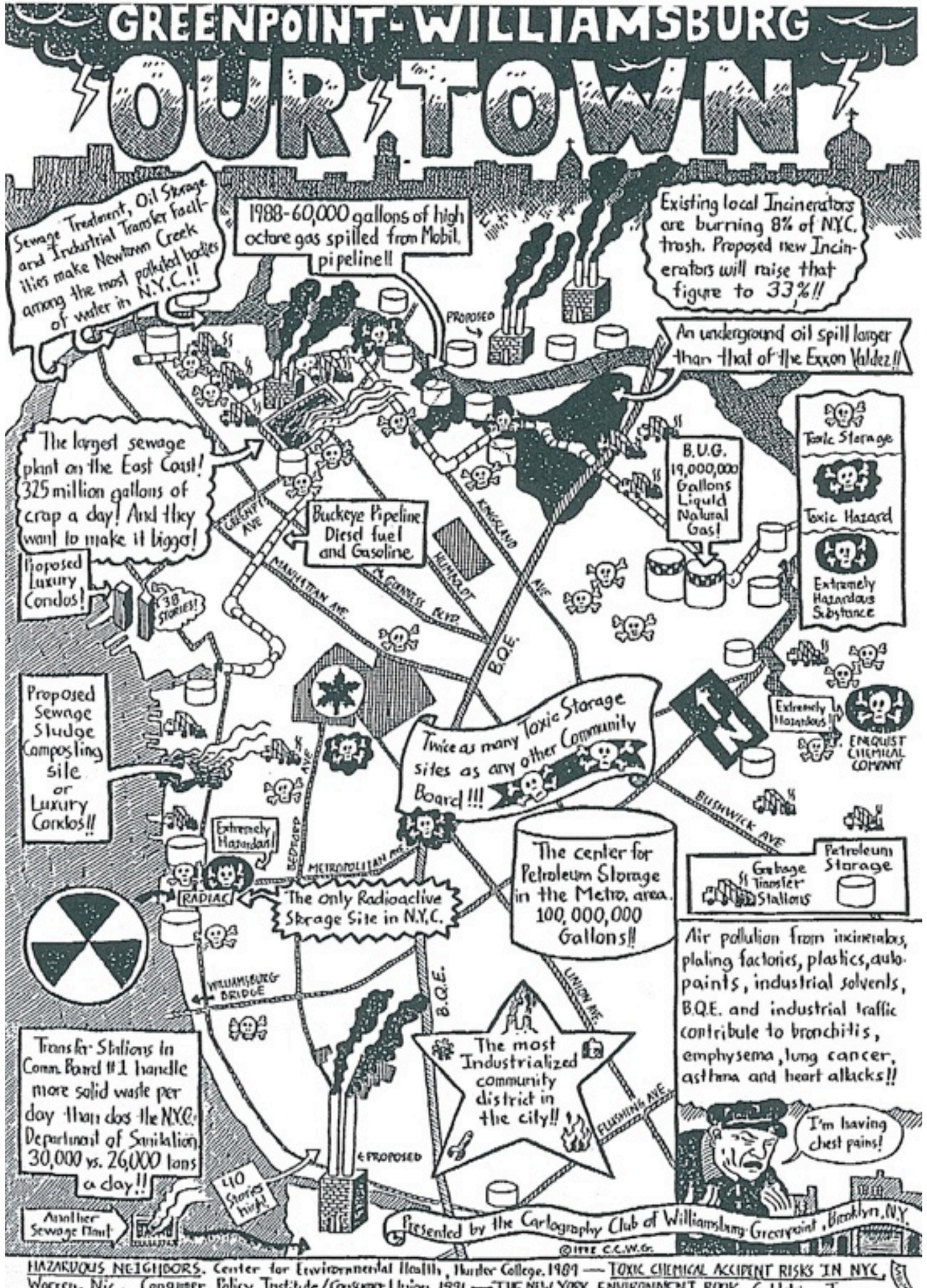
> 100 ppm

24 of 29 apartments above dry cleaners eight day concentration

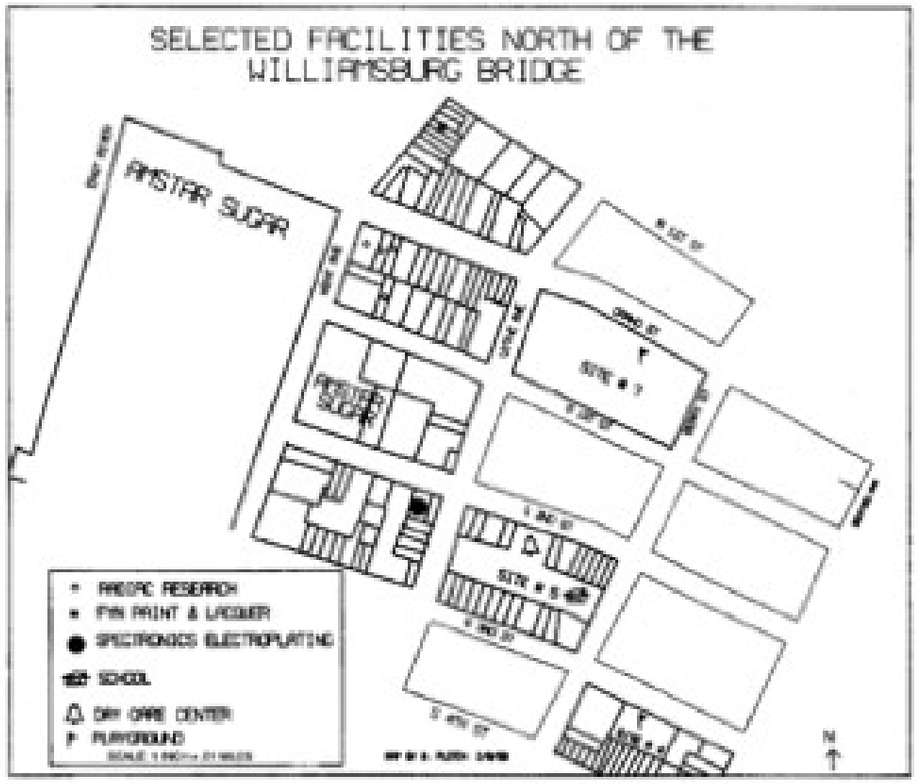
> 1,000 ppm

39 of 40 apartments
> 100 ppm

24 of 29 apartments above dry cleaners eight day concentration
> 1,000 ppm



HAZARDOUS NEIGHBORS. Center for Environmental Health, Hunter College. 1989 — TOXIC CHEMICAL ACCIDENT RISKS IN NYC, Warren, Nic. Consumer Policy Institute/Consumer Union. 1991 — THE NEW YORK ENVIRONMENT BOOK, Goldstein, Izeman.


SELECTED FACILITIES NORTH OF THE WILLIAMSBURG BRIDGE
AMSTAR SUGAR
PHENOL STORAGE
SITE # 7
SITE # 6
PHENOL STORAGE
PHENOL STORAGE
PHENOL STORAGE

ПРИПЯТЬ
0819
РЕЖИМ
ВРЕМЯ
ПРЕДЕЛ
100 мин 10
200 с 20
20.00
200.0
2.000
20.00
2000

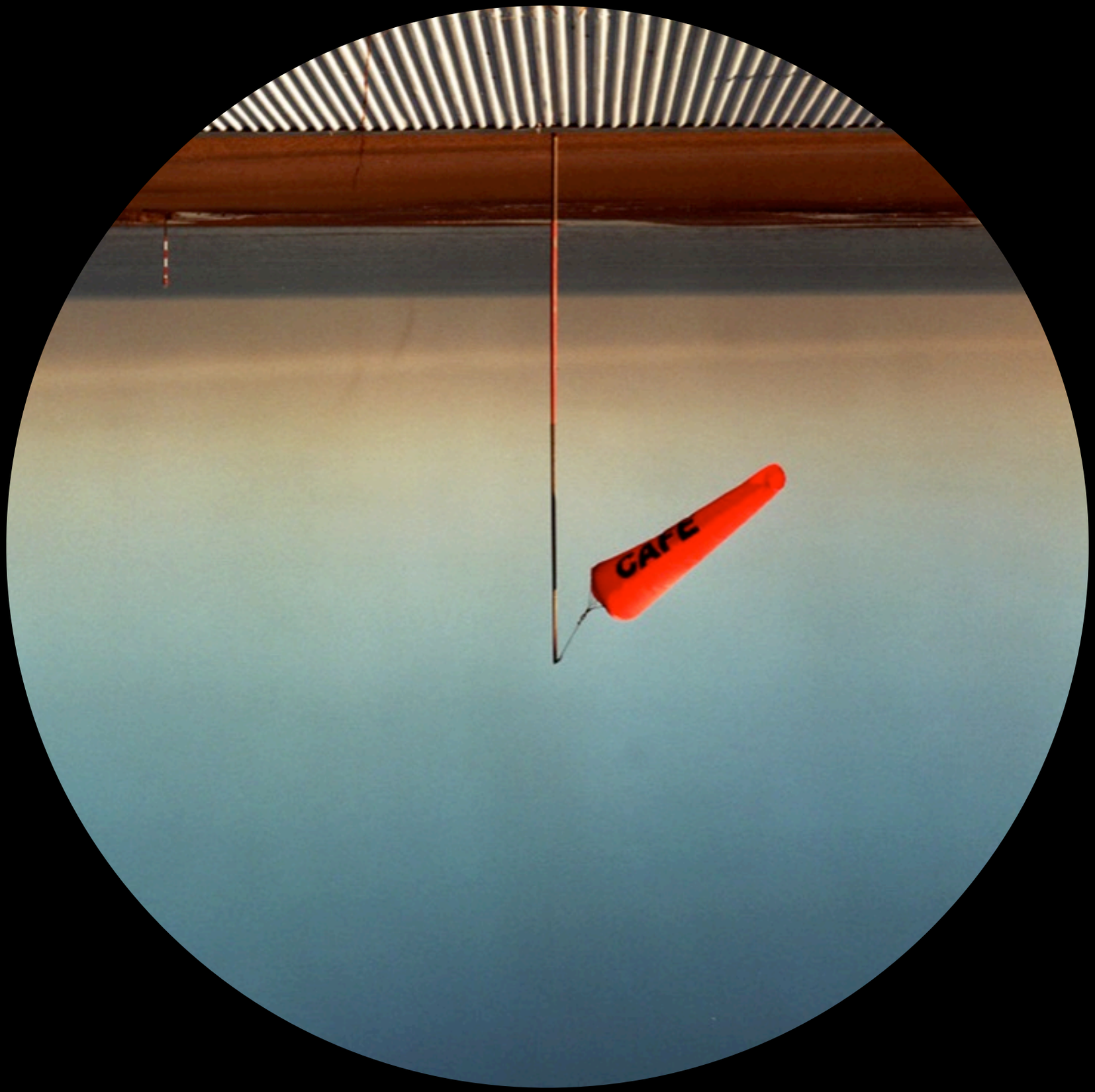
Tell me, I forget.

Show me, I remember.

Involve me, I understand.

- Chinese proverb

SOUTHPOLE KM 15130
KM 1734
BANGKOK
KM 9230
KAPSTAD
PEKING
KM 2049
REYKJAVIK
KM 2671
KÄSTLE
LONDON
KM 471
WIEN
BLIZZARD
GALLNEUKIRCHEN
424 Km
6
5


CAFE

TOMATE
2,95
FINA
8,90
PERCHA
6,90
PRESSEC
4,95
CEPS
34,90
ROSSIMPI
18,95
LLANEGA
34,90
CAMAGROC
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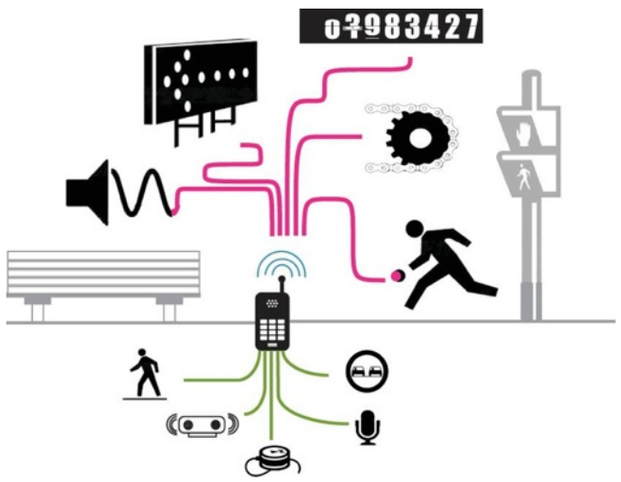
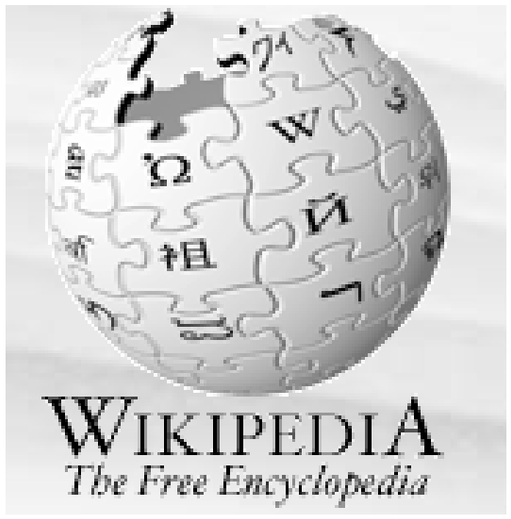
CHUMBOS
6,95

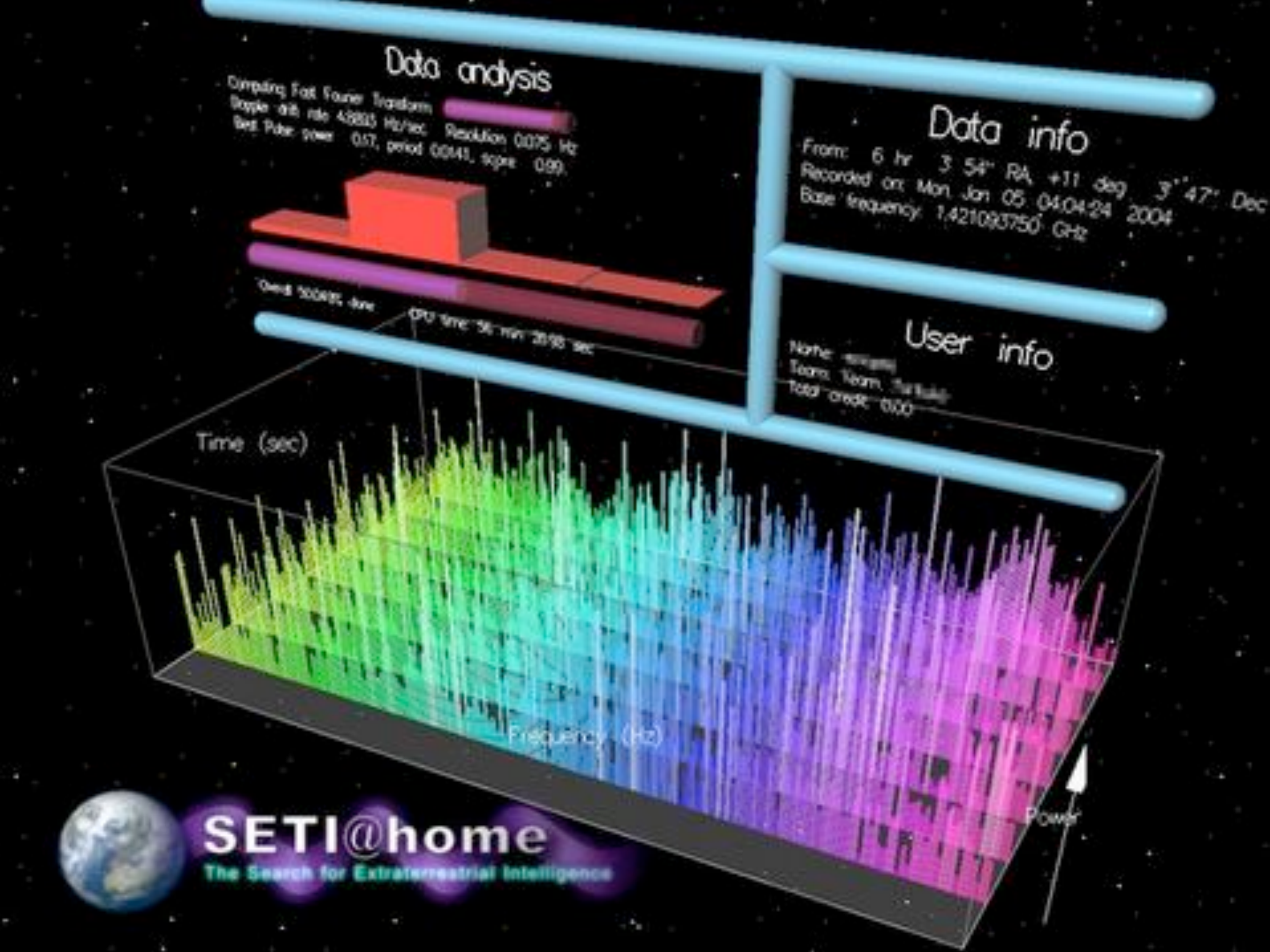
AT&T
3G
SMS

Sensor Rich Mobile Devices



Citizen Driven Content Creation

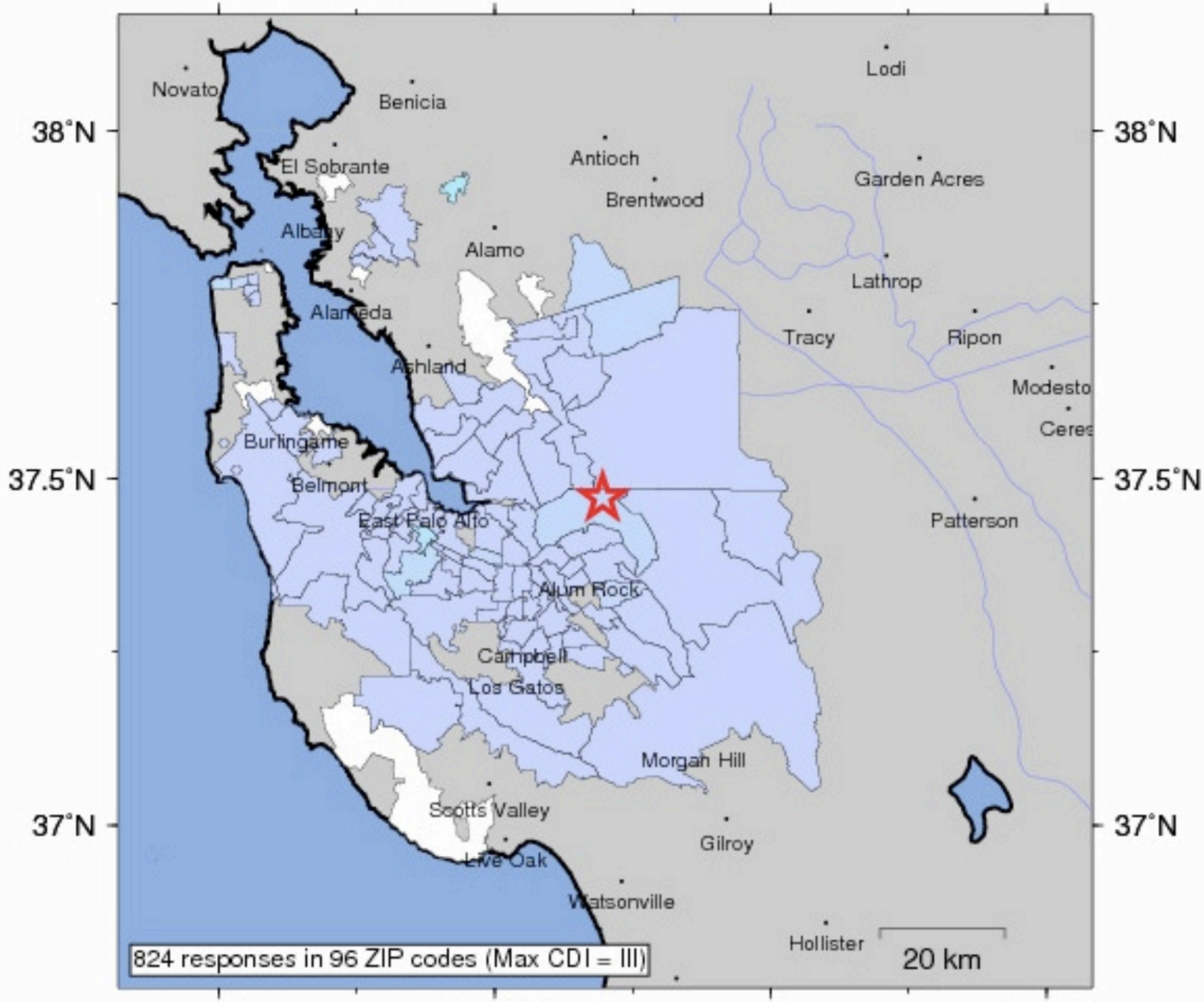



Data analysis
Computing Fast Fourier Transform
Data info
From: 6 hr 3 54" RA, +11 deg 3' 47" Dec
Recorded on: Mon Jan 05 04:04:24 2004
Base frequency: 1.421093750 GHz
User info
Time (sec)
Frequency (Hz)
Power
SETI@home
The Search for Extraterrestrial Intelligence

USGS Community Internet Intensity Map

SAN FRANCISCO BAY AREA, CALIFORNIA

Mar 8 2009 06:47:19 UTC-8 37.471N 121.8047W M3.5 Depth: 8 km ID:nc40232887



INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
DAMAGE	none	none	none	Very light	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy

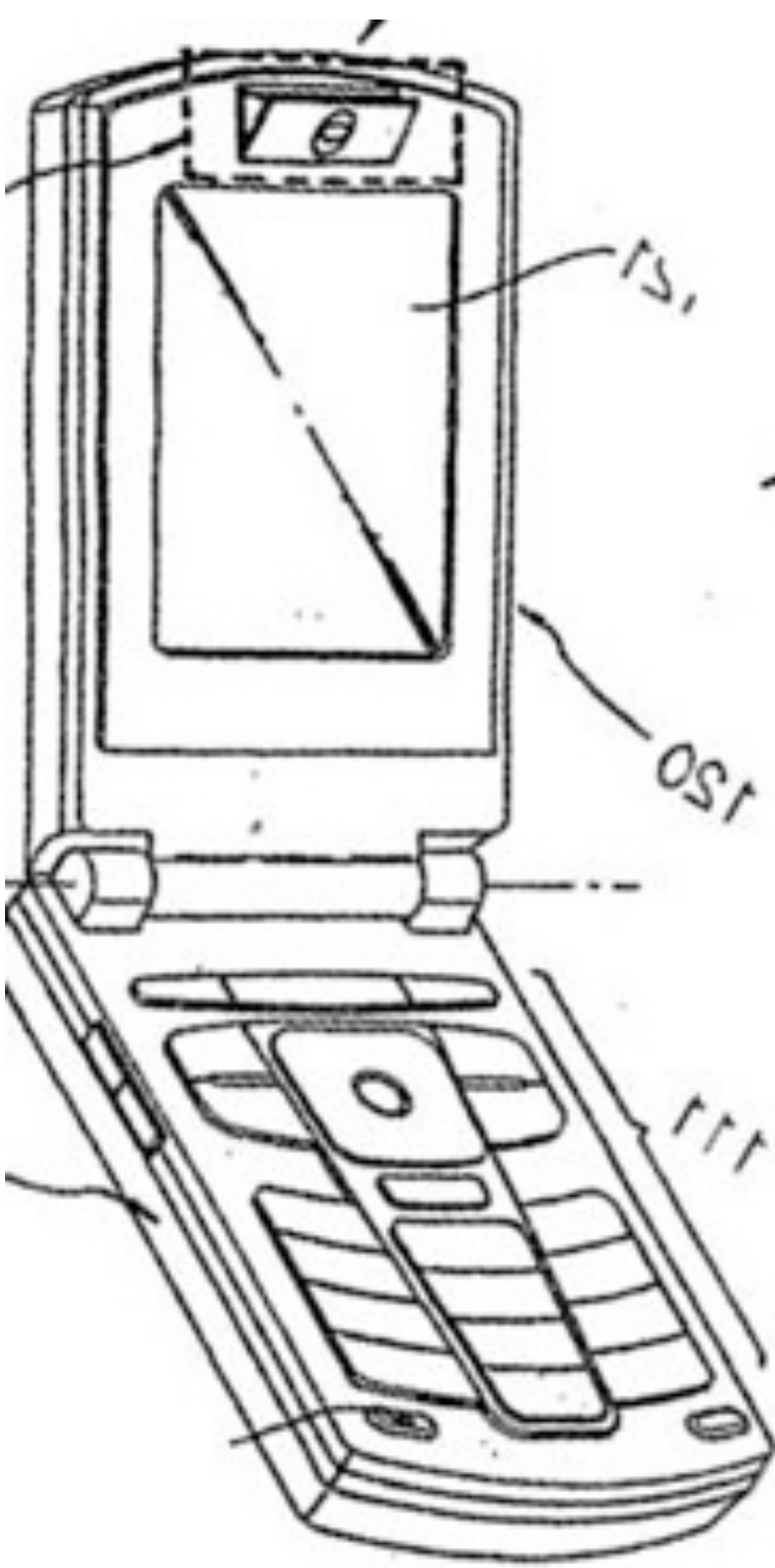
1
58
Walnut
Alamo
Danville
San Ramon
Dublin
Daly City
San
Lorenzo
Pleasa
Livermo
South Sa
Francisco
92
680
Moss Beach
84
Half
Moon Bay
Palo Alto
Milpitas
Portola
Valley
85
01

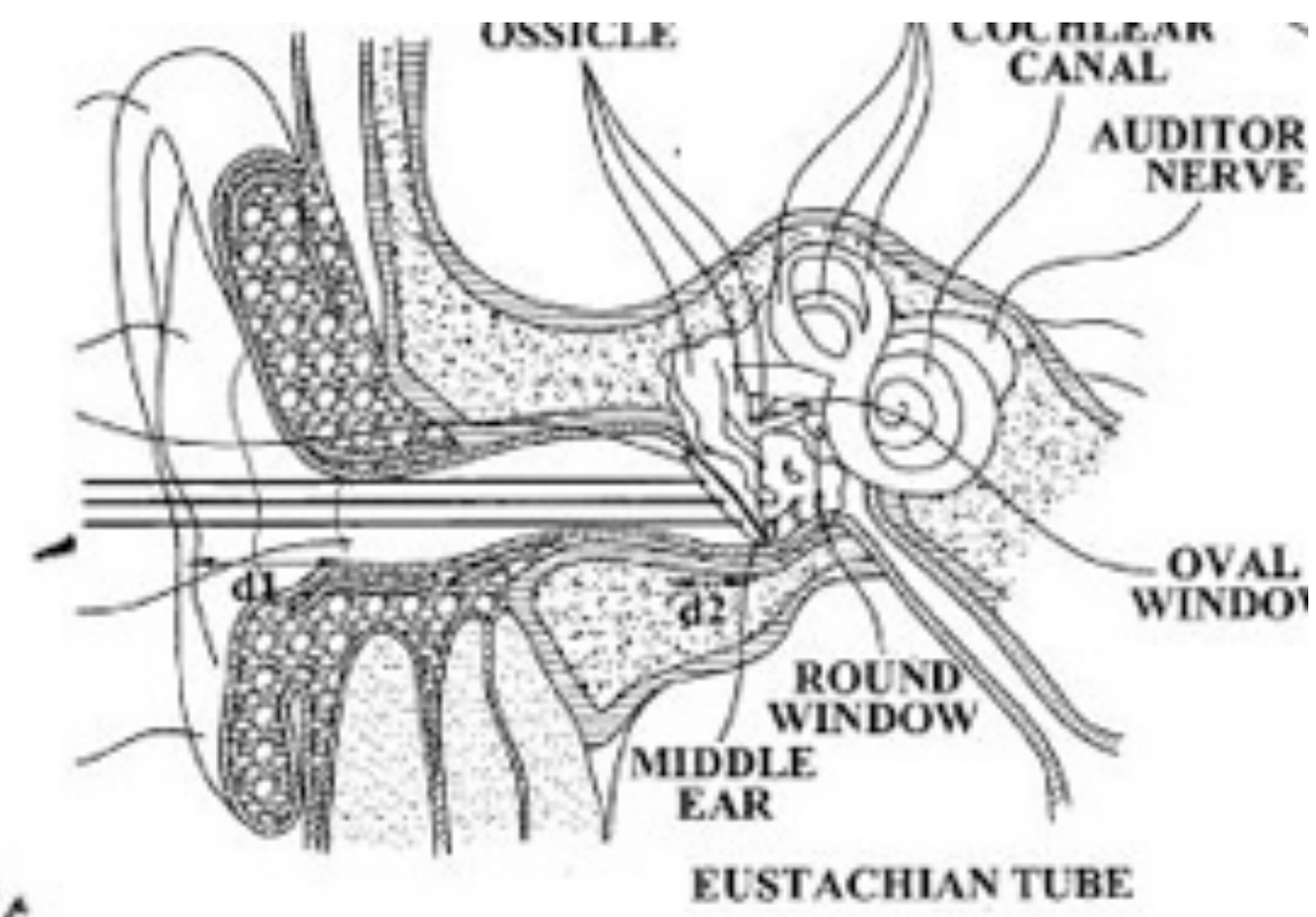
egion
ntinent
Cowichan Valley C
Cowichan Valley A
Union Bay 4
Cole Bay 3
North Saanich
Cliffside
East Saanich 2
Central Saanich
Cordova Bay
Highlands
Saanich
View Royal
Langford
New Songh
Colwood
Oak Bay
Metchosin
Becher Bay 1
N/A
Prevost
Waldron
Beach Haven
East Sound
Rosario
Moran State Park
Doebay
Orcas Island
Olga
Orcas
Yacht Haven
Thatcher
Friday
San Juan Island National Historical Park
Lopez
Lopez Island
Richardson
Indian Village
Anacortes
Dewey
Rosario Beach
Harbor

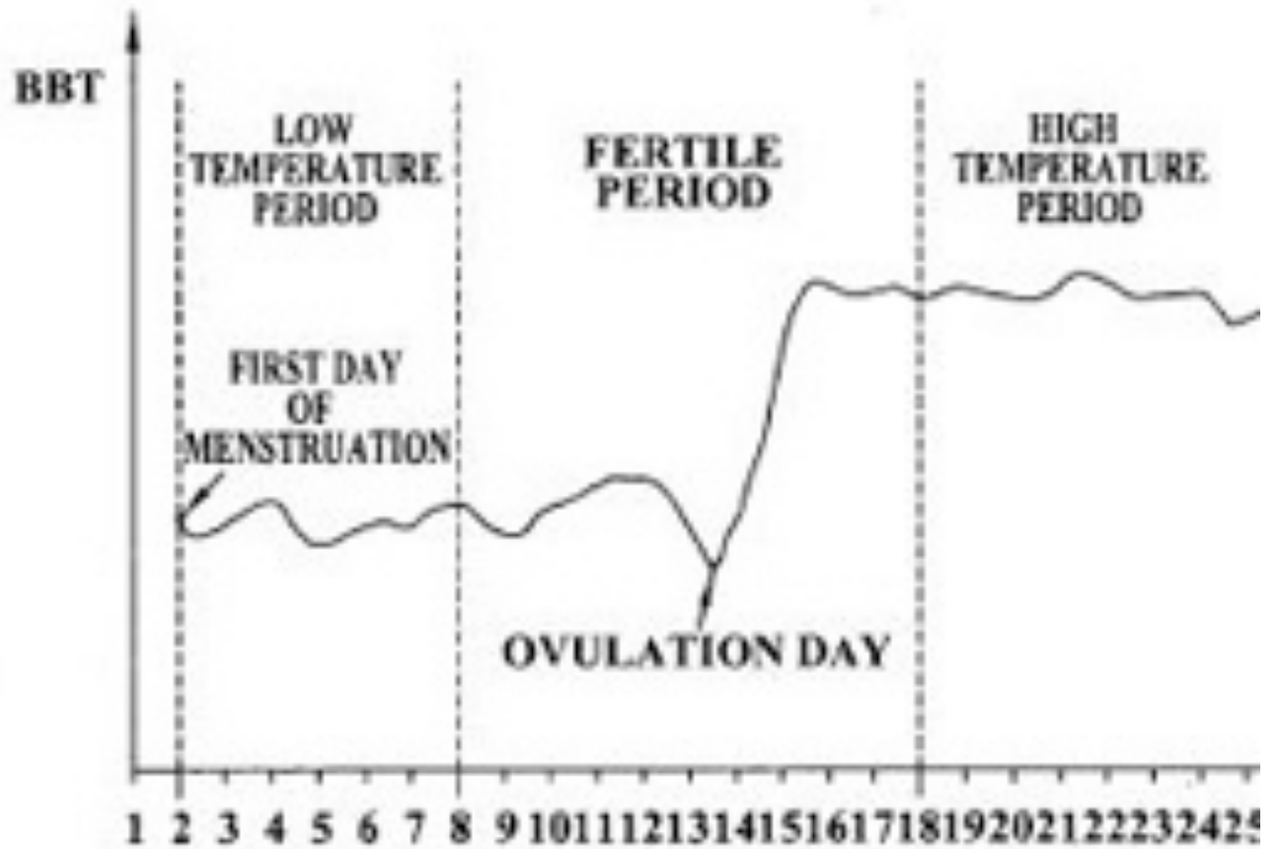
citizen science for citizen services

phenology

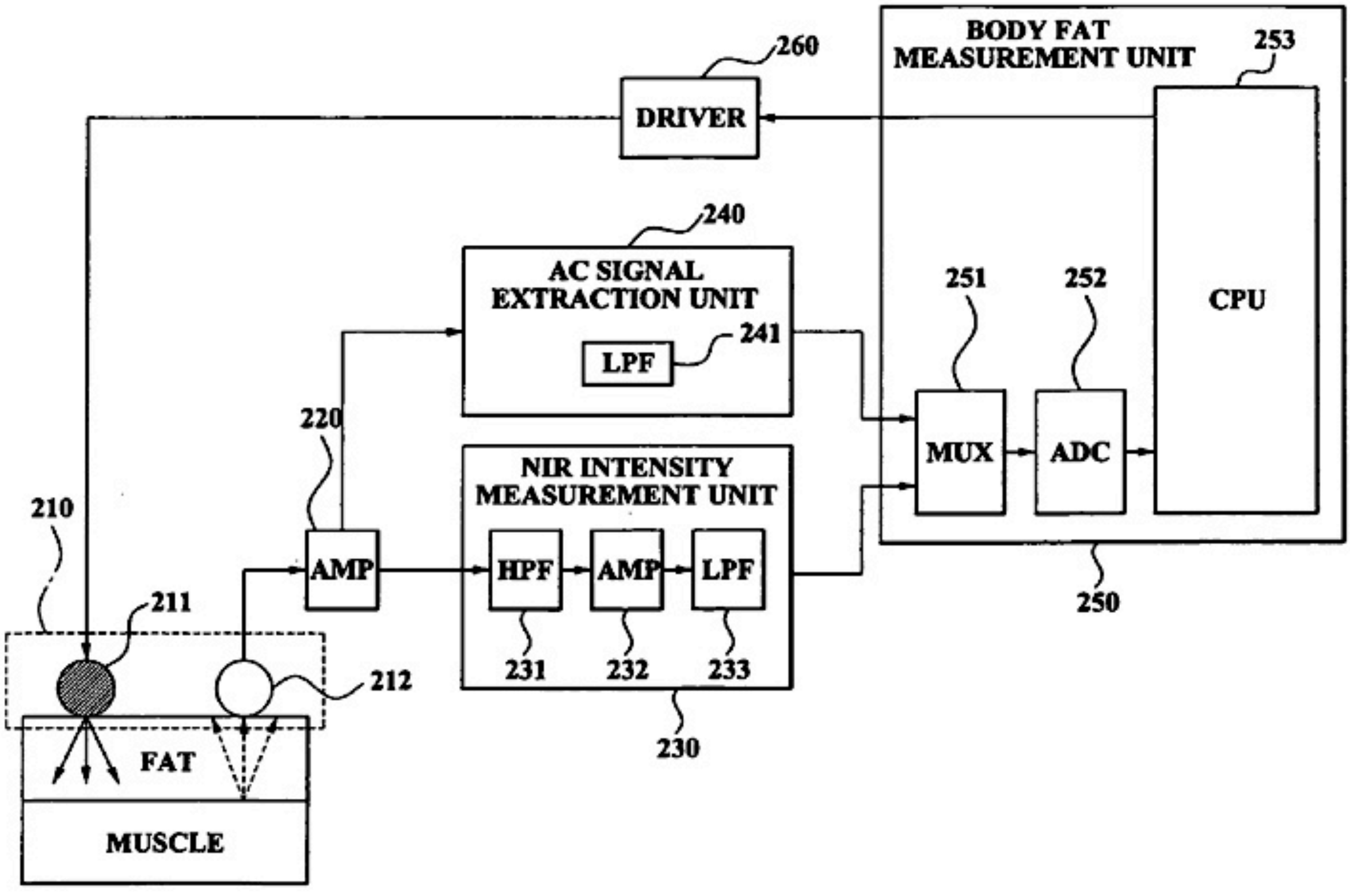
Project Budburst


151
150
111

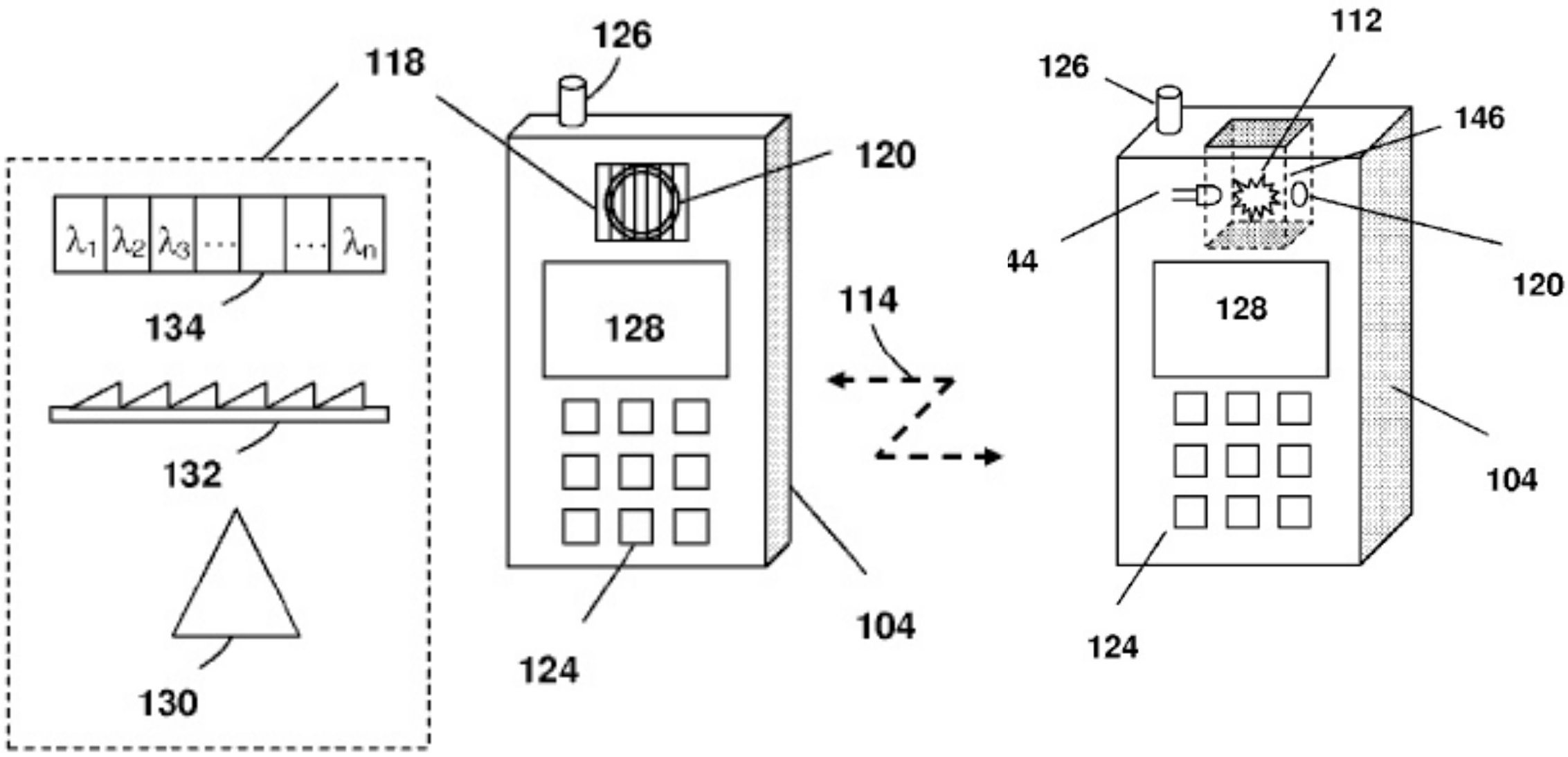

OSSICLE
COCHLEAR CANAL
AUDITOR NERVE
OVAL WINDOW
d1
d2
ROUND WINDOW
MIDDLE EAR
EUSTACHIAN TUBE


BBT
LOW TEMPERATURE PERIOD
FERTILE PERIOD
HIGH TEMPERATURE PERIOD
FIRST DAY OF MENSTRUATION
OVULATION DAY
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

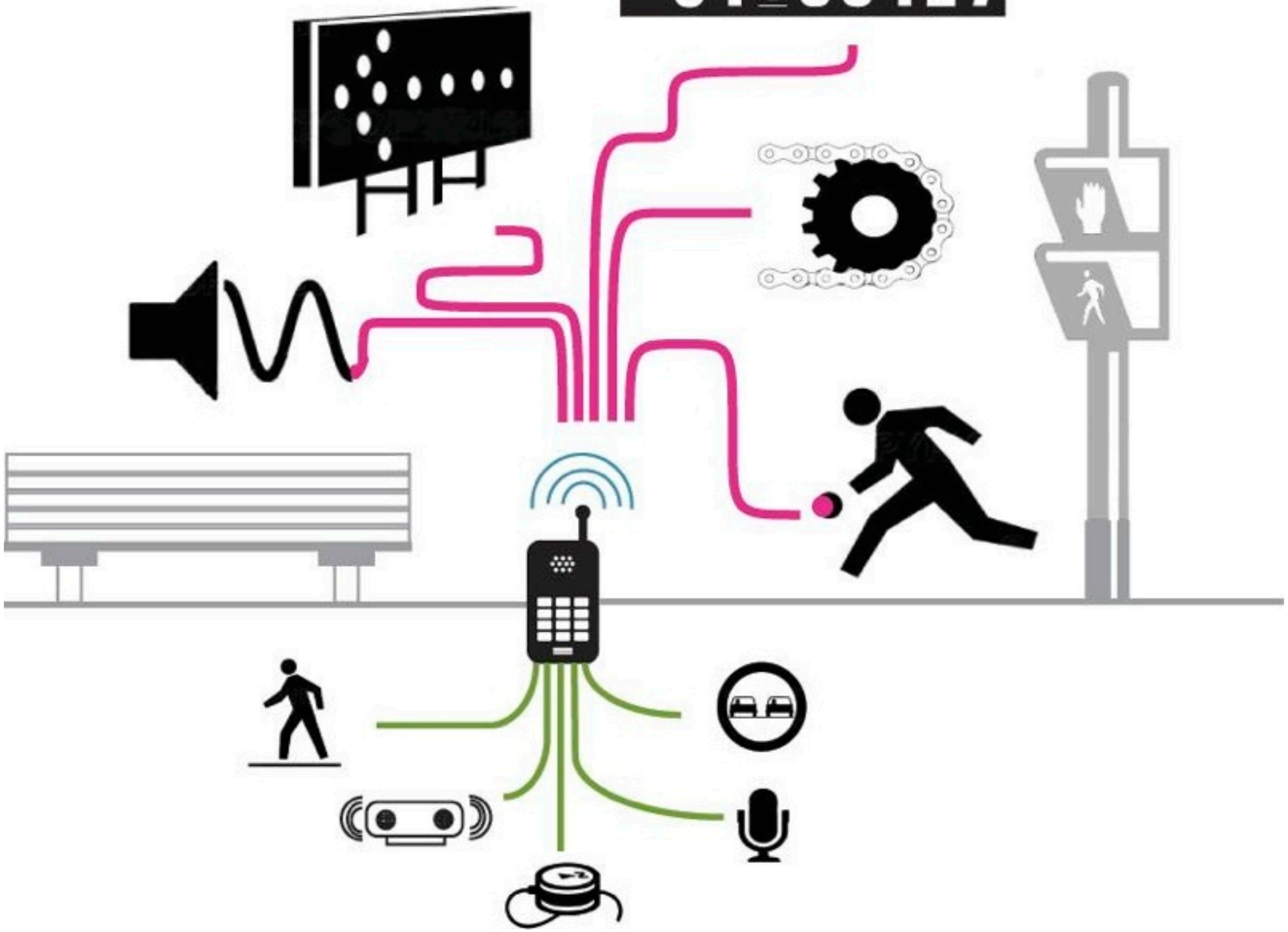
Apparatus, method, and medium for measuring body fat using a near infrared signal



Spectroscopic Sensor on Mobile Phone



03983427



SensorPlanet
Nokia

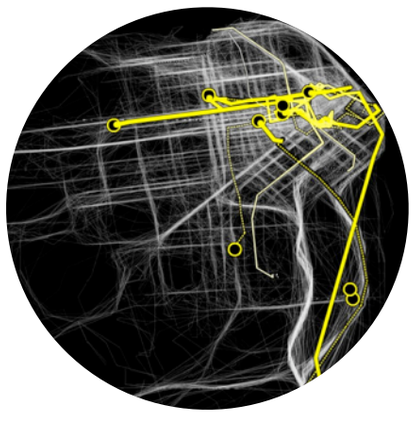
CitySense
MIT

CENS
UCLA

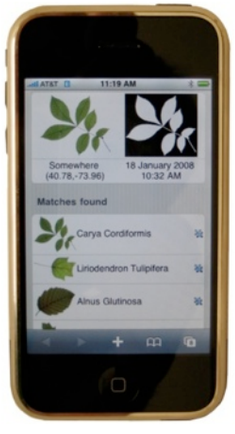
Pachube
Usman Haque

SenseWeb
MSR

Feral Robots
Natalie Jeremijenko



Cabspotting
Stamen Design



LeafView
Sean White

The best way to make art is to intrigue and to be a bit seductive. You just say, here's this and this...you figure it out

- John Baldessari

Citizen Science

1. Engage people in doing Street Science that results in practical action

2. Motivate people to gather, analyze, share, and act upon information

3. Develop a device that is usable by lay people and produces **credible** information that can be understood by non-experts

4. Develop community software infrastructure to support communication and action

Citizen Science

Improve the science literacy of everyday citizens through active participation in basic scientific data collection and use of scientific principles

Citizen Science

Provide professional scientists and stakeholders with access to richer, finer grain data sets for modeling, analyzing, and advancing both fundamental and applied knowledge regarding people and the ecosystem

Citizen Science

Develop new usage models and user experiences for the mobile phone as a tool for promoting transparency and enabling grassroots participation in local community and civic government policy making

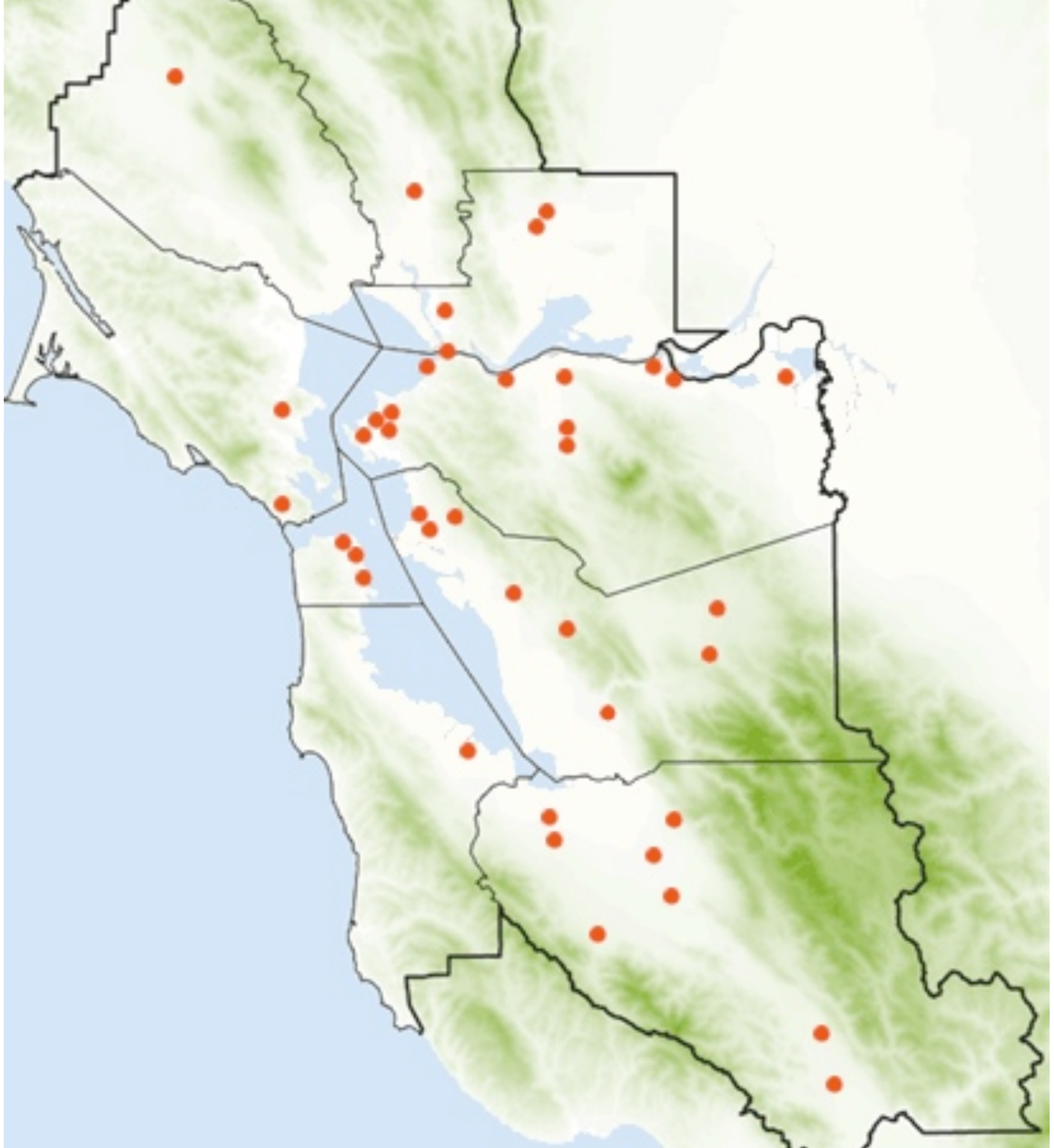
Citizen Science

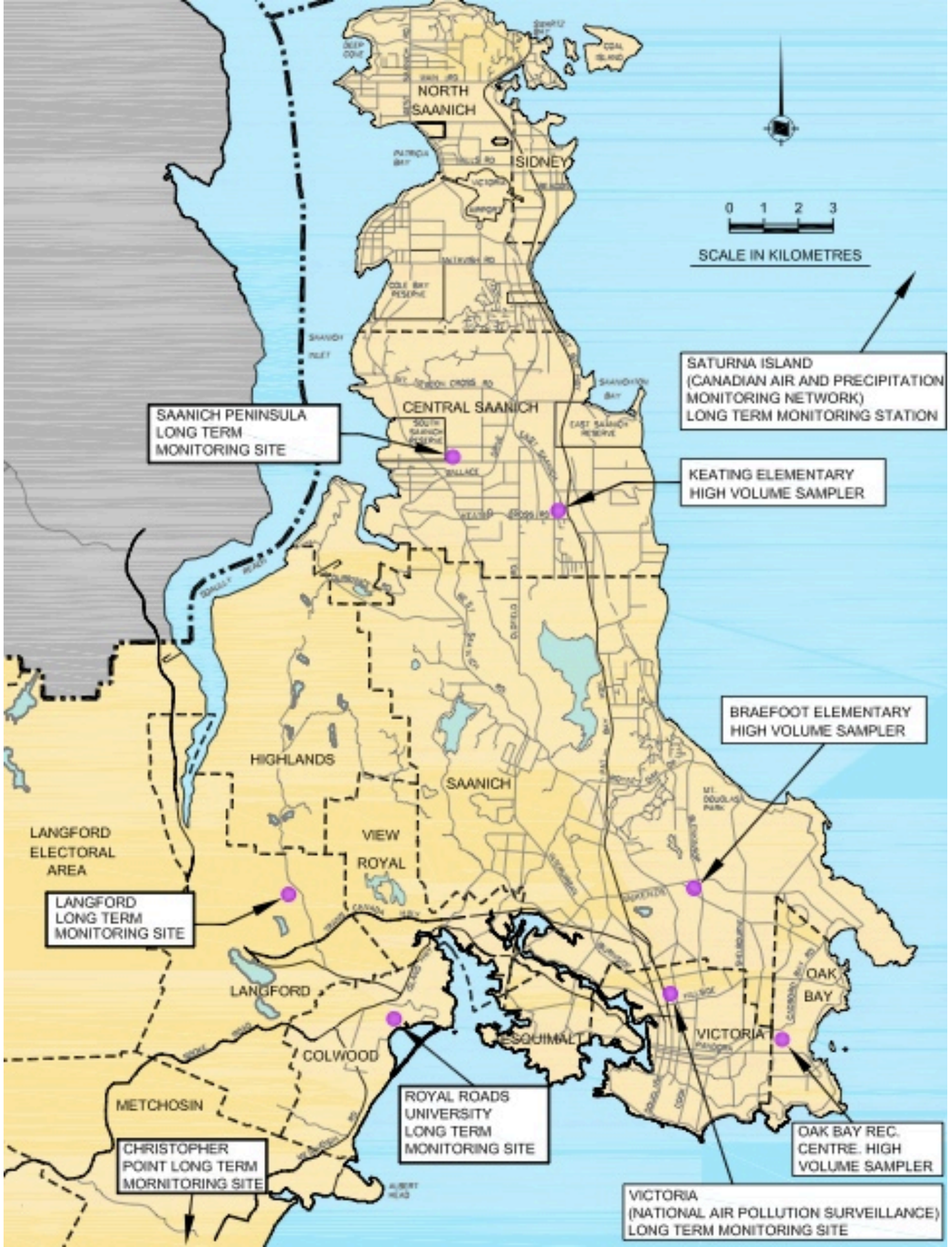
Create greater public awareness and understanding of the relationships between humans and the natural environment particularly with regard to sustainability and environmental issues

20 June 2007

17 Sept 2007

image credit: Alex Hoffard




NORTH SAANICH
SIDNEY
CENTRAL SAANICH
HIGHLANDS
SAANICH
VIEW ROYAL
LANGFORD ELECTORAL AREA
LANGFORD
COLWOOD
METCHOSIN
ESQUIMALT
VICTORIA
OAK BAY
0 1 2 3
SCALE IN KILOMETRES
SATURNA ISLAND (CANADIAN AIR AND PRECIPITATION MONITORING NETWORK) LONG TERM MONITORING STATION
SAANICH PENINSULA LONG TERM MONITORING SITE
KEATING ELEMENTARY HIGH VOLUME SAMPLER
BRAEFOOT ELEMENTARY HIGH VOLUME SAMPLER
LANGFORD LONG TERM MONITORING SITE
ROYAL ROADS UNIVERSITY LONG TERM MONITORING SITE
OAK BAY REC. CENTRE. HIGH VOLUME SAMPLER
CHRISTOPHER POINT LONG TERM MORNITORING SITE
VICTORIA (NATIONAL AIR POLLUTION SURVEILLANCE) LONG TERM MONITORING SITE

TO LET
ROYAL
SUPERIOR
OFFICES
PRIMARK
DEBENHAMS
BARCLAYS
SAXTON

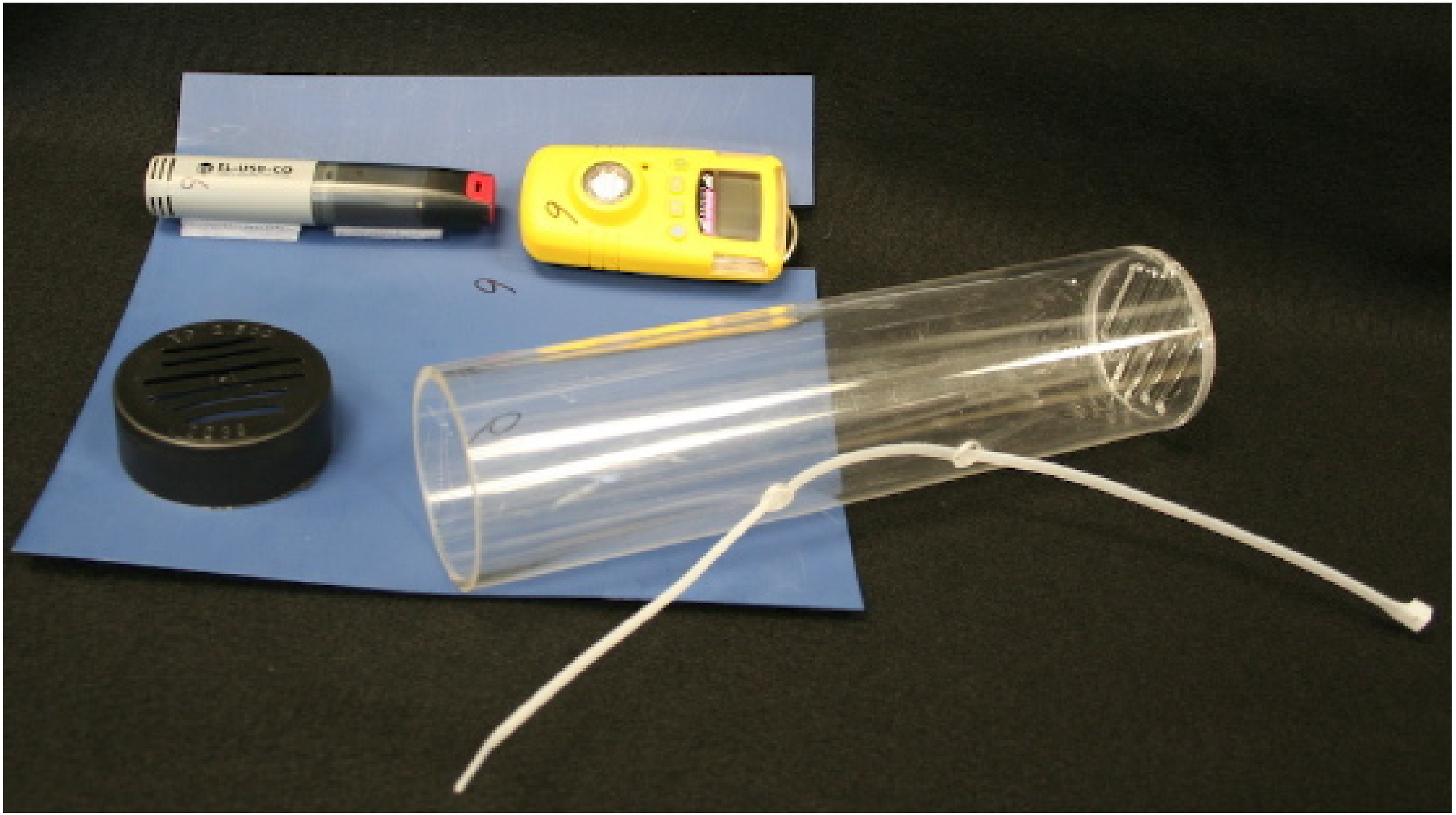
13030 Murphy Ave, San Martin CA 95046

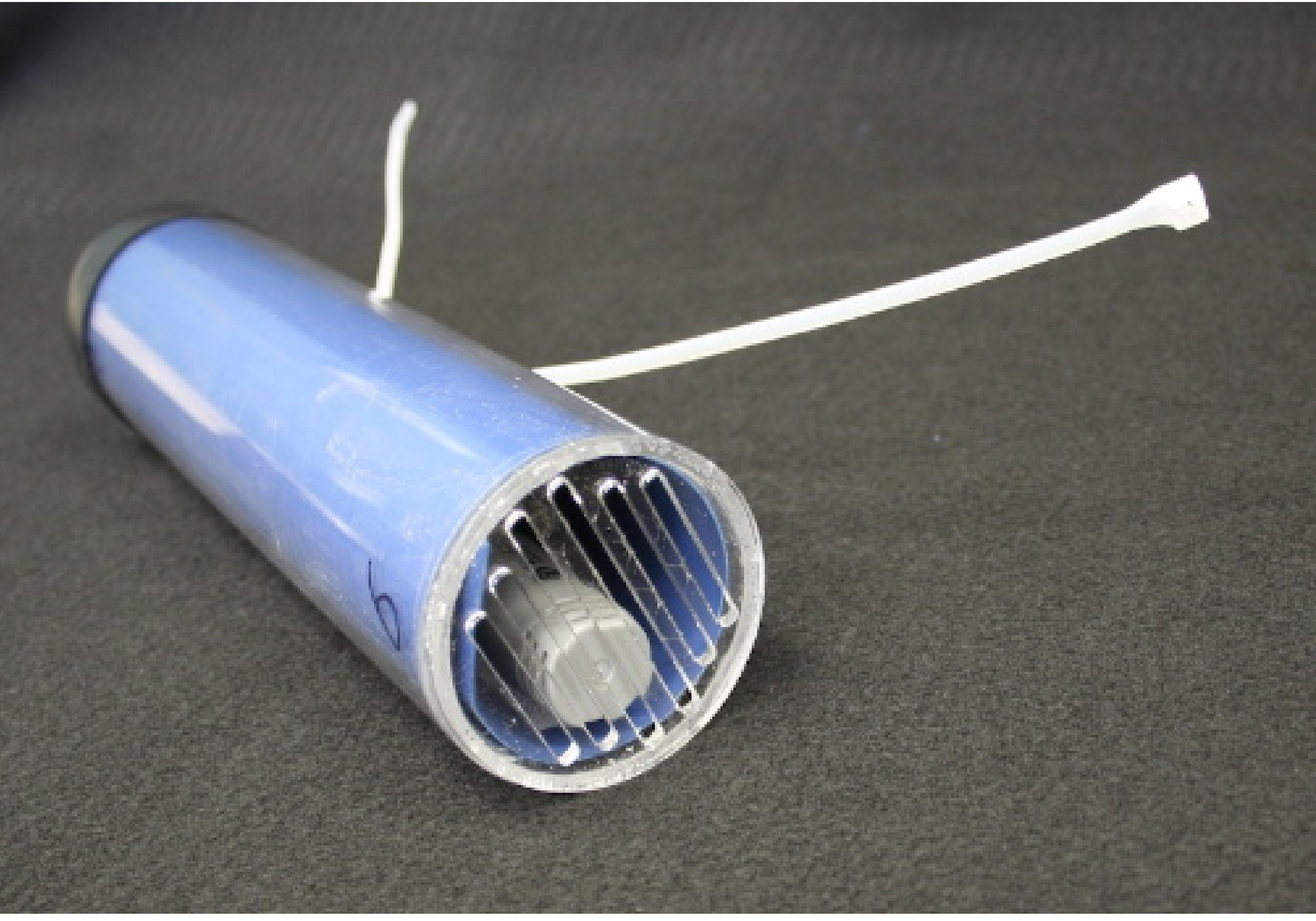
13030 Murphy Ave, San Martin CA 95046

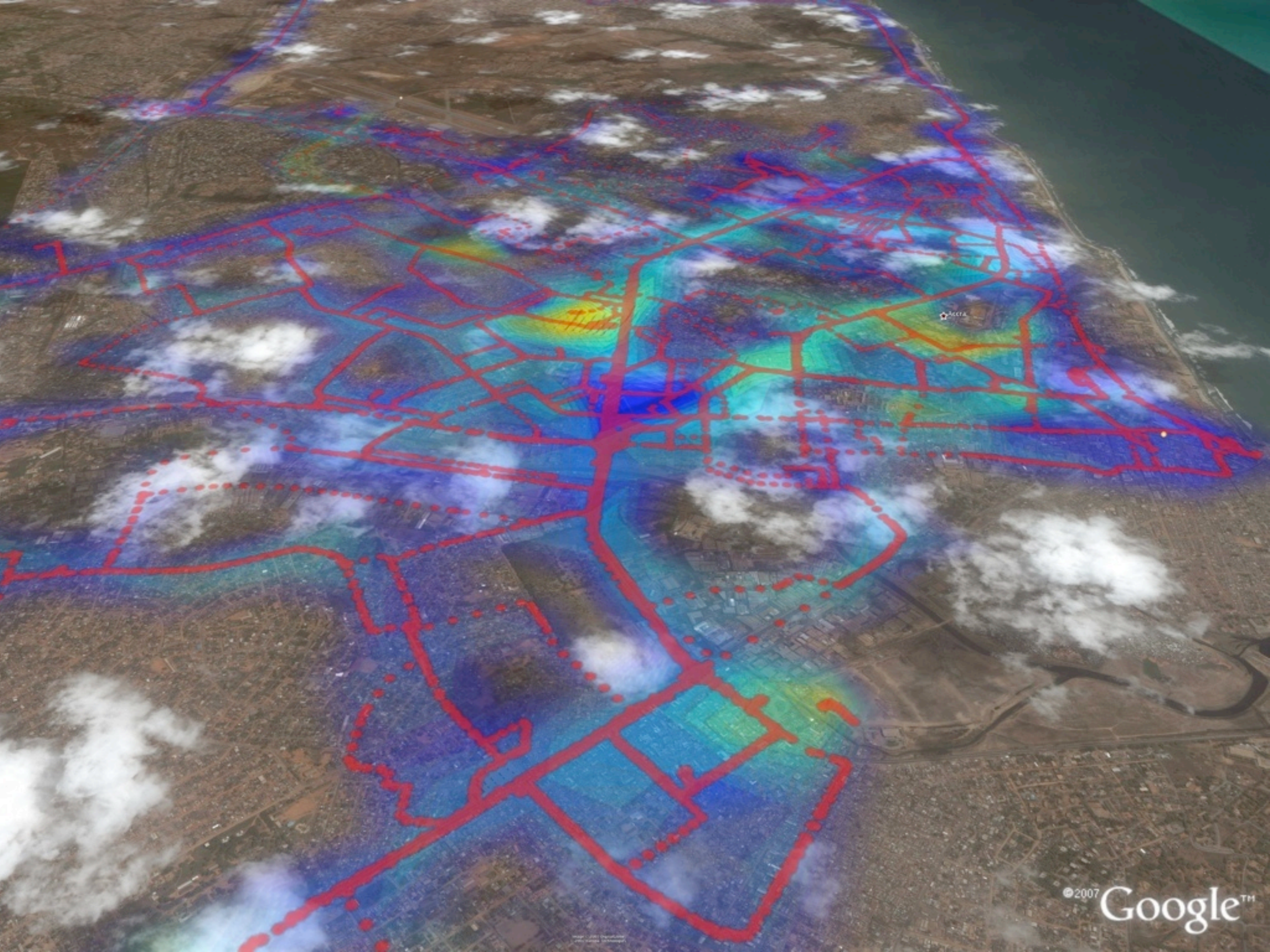
NOKIA

EL-USB-CO

GARMIN Quest
FIND
QUIT
ZOOM
MENU
OK


EL-USB-CO

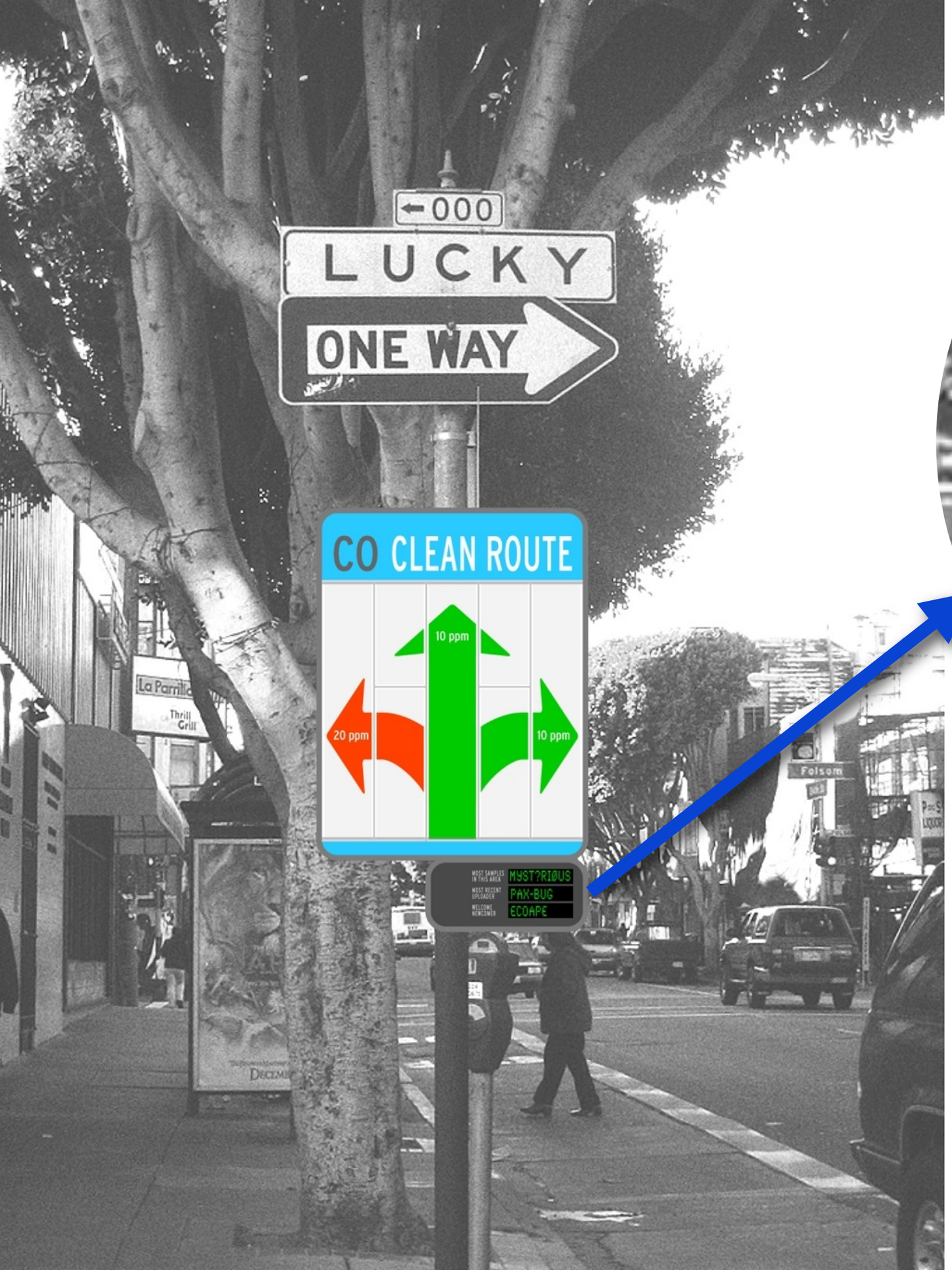



Accra
©2007 Google™

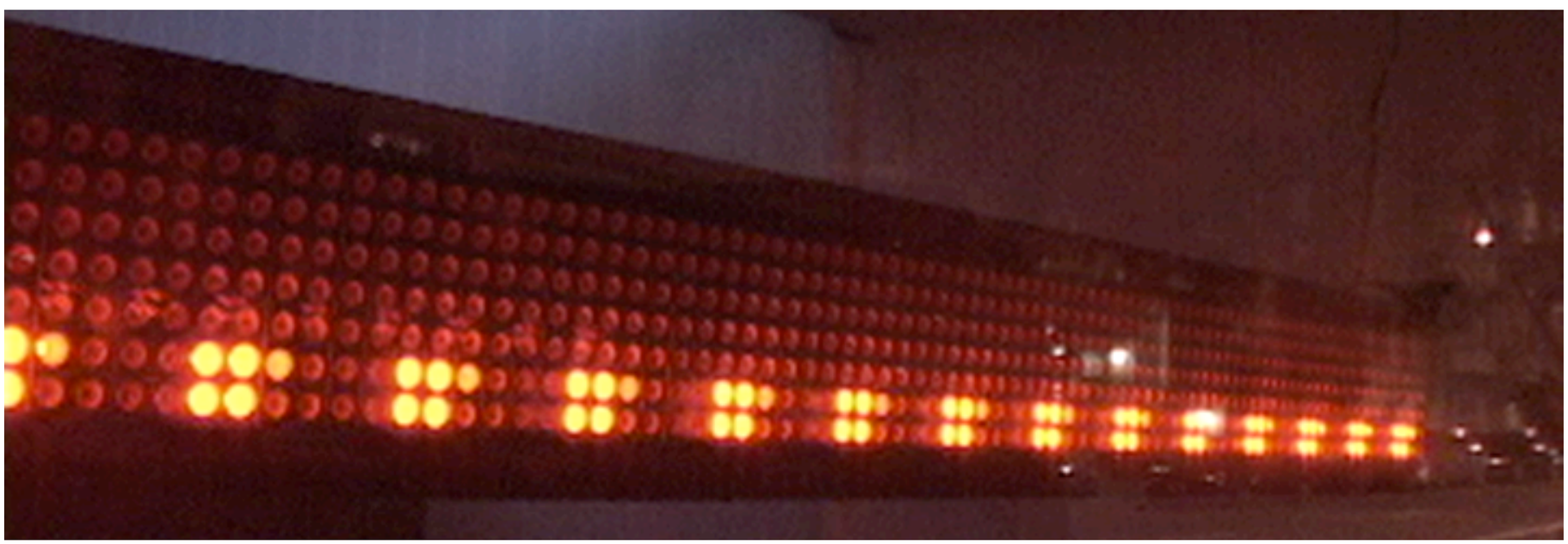
Prius Effect

Eric Paulos
Allison Woodruff
Paul Aoki
Alan Mainwaring
RJ Honicky

38.4
PPM


←000
LUCKY
ONE WAY
CO CLEAN ROUTE
10 ppm
20 ppm
10 ppm
MOST SAMPLES IN THIS AREA
MYST?RIØUS
MOST RECENT UPLOADER
PAX-BUG
WELCOME NEWCOMER
ECOAPE
La Parrilla
Thrill Grill
Folsom

BREATHE



Eric Paulos
Allison Woodruff
Paul Aoki
Alan Mainwaring
RJ Honicky

CO

NOx

Ozone

Temperature

Humidity

Accelerometer

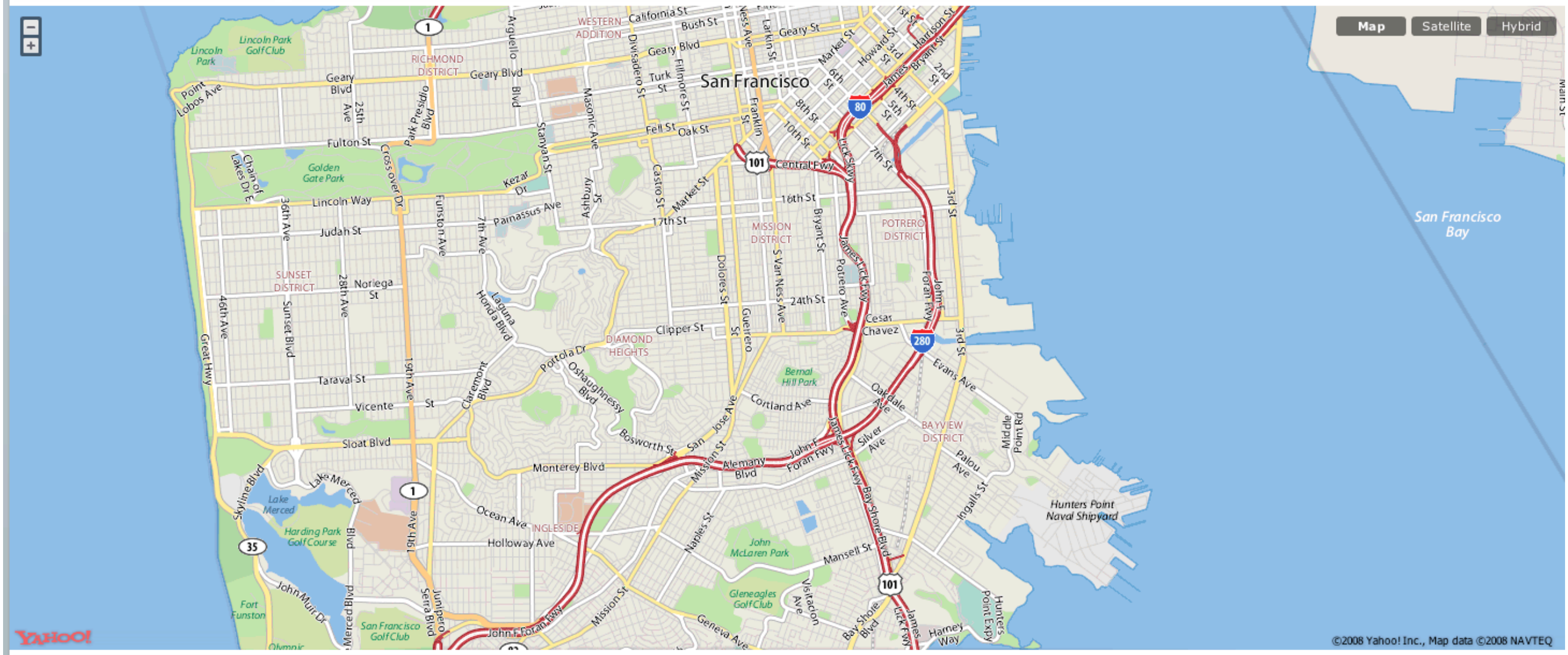
SAN FRANCISCO AIR QUALITY

SELECT MODE DAY

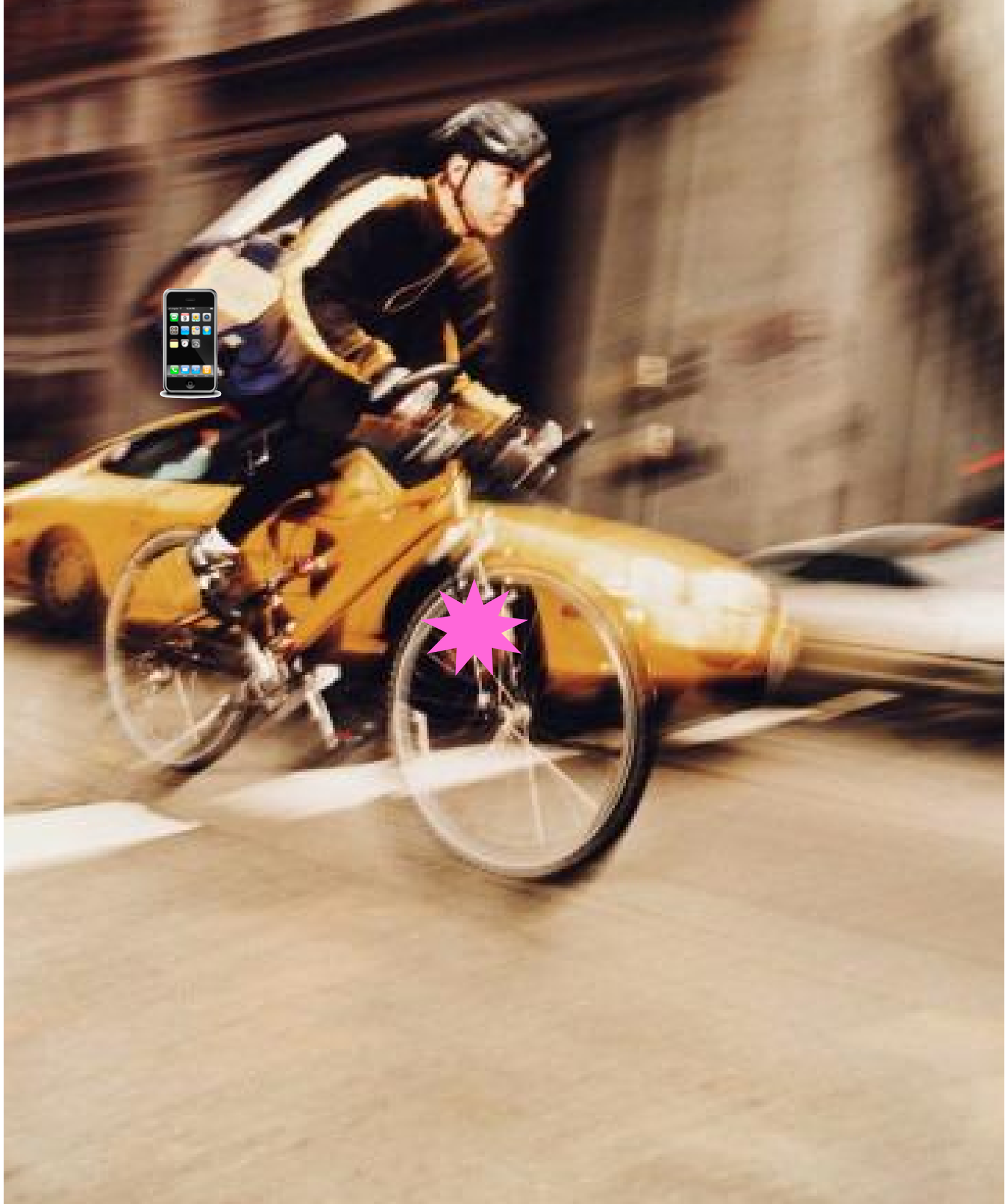
CHOOSE DATE Thr 24 July

CHOOSE SPEED FAST

CHOOSE SENSOR Carbon Monoxide (CO)



Fri Jul 25 09:03:19



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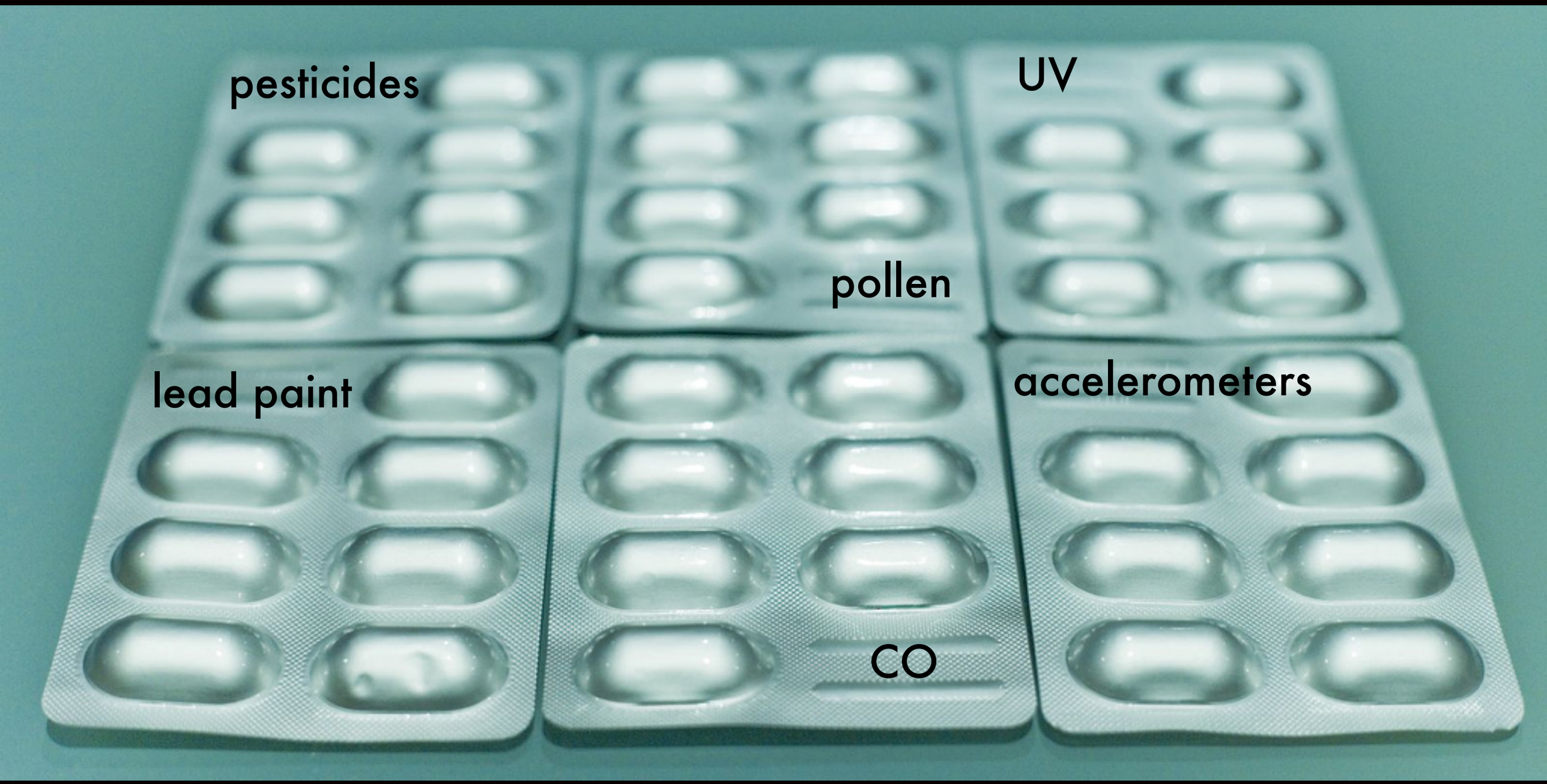
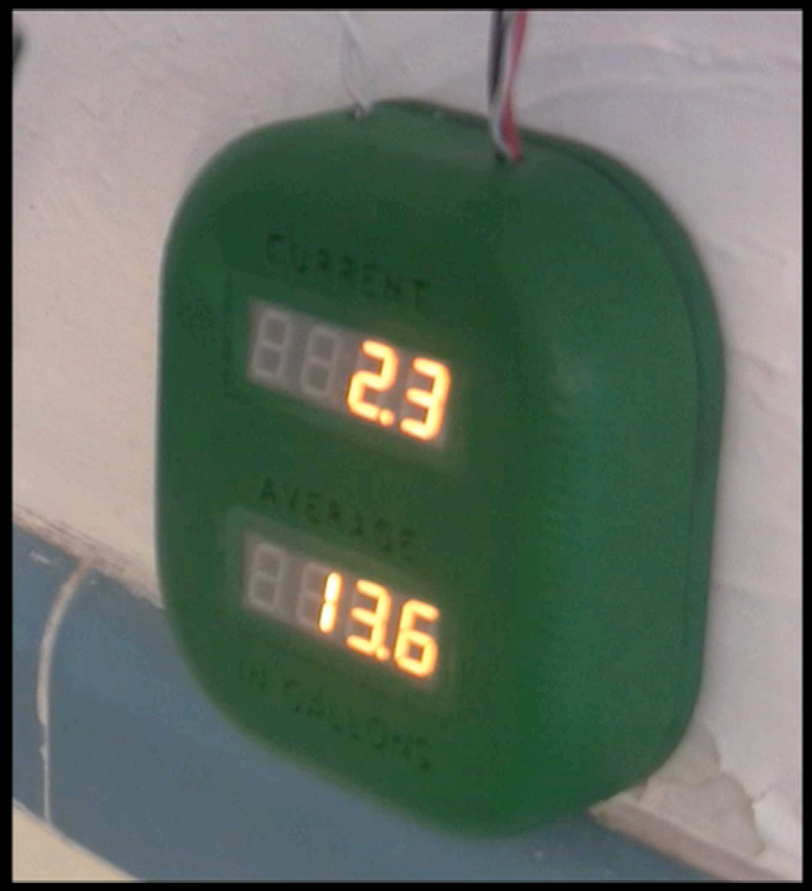
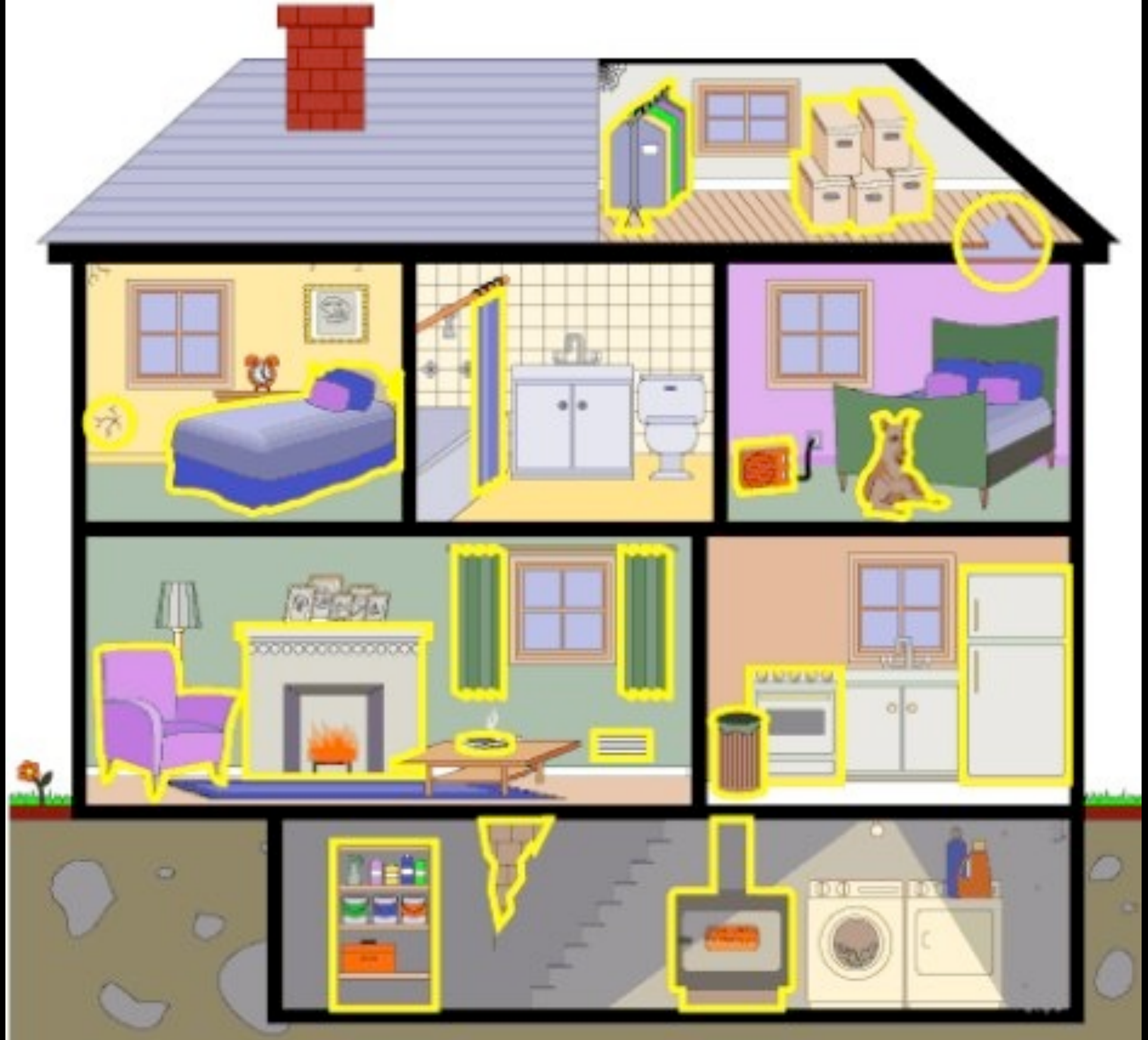

pesticides
UV
pollen
lead paint
accelerometers
CO

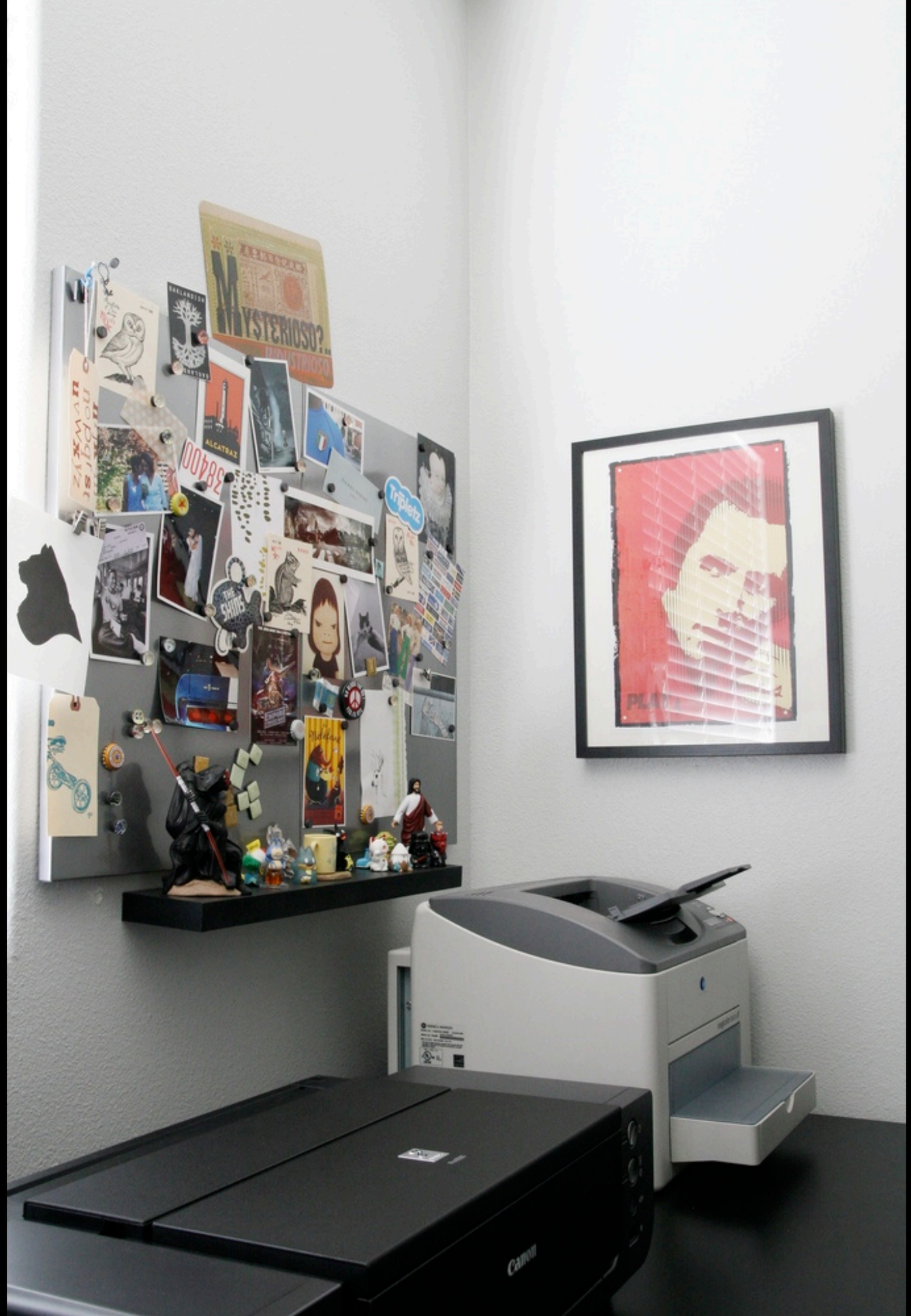
Water is the driving force of all nature

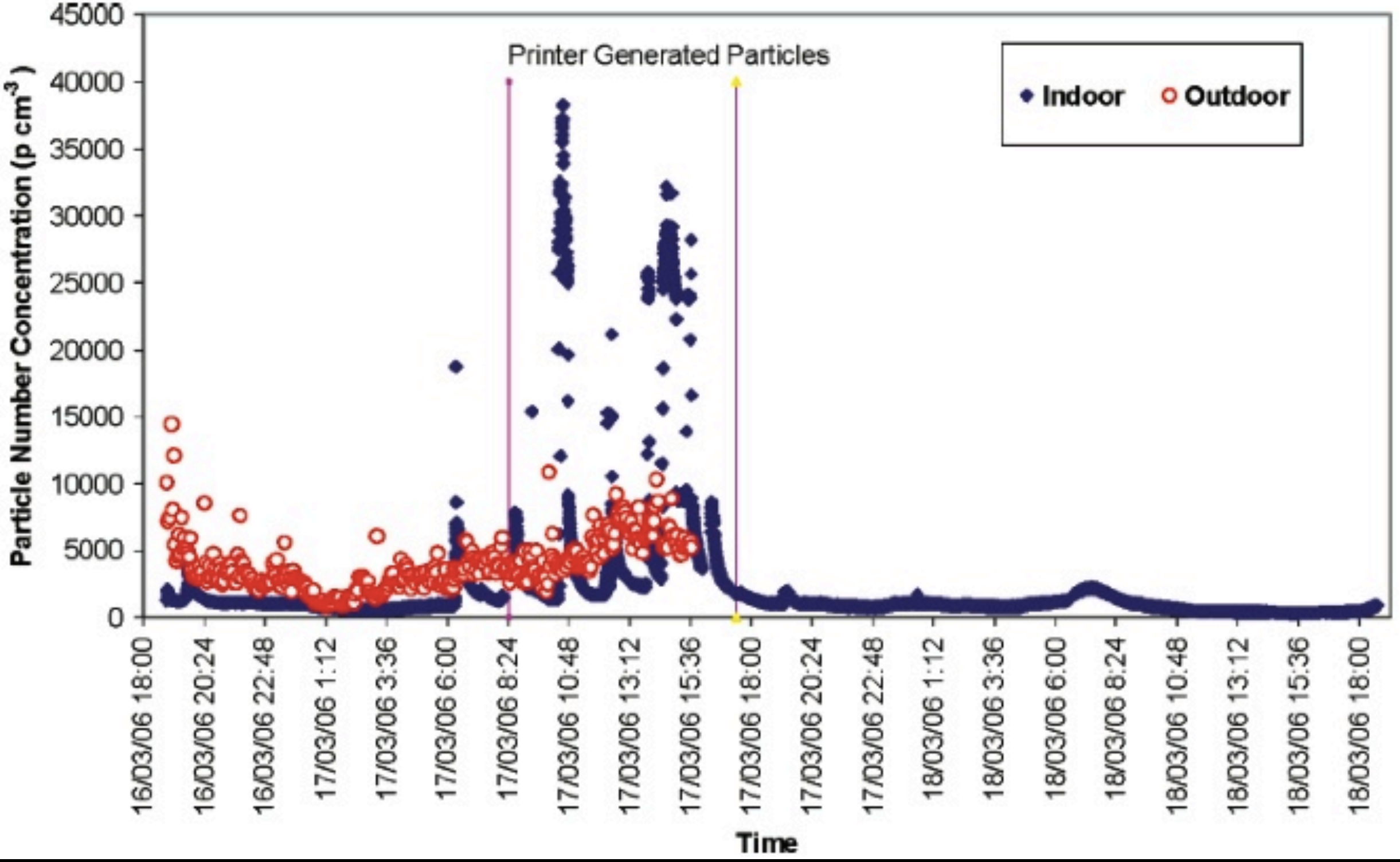
- Leonardo Da Vinci



Stacey Kuznetzov




MYSTERIOSO?...
ALCATRAZ
Canon


Printer Generated Particles
Indoor
Outdoor
Particle Number Concentration (p cm-3)
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
16/03/06 18:00
16/03/06 20:24
16/03/06 22:48
17/03/06 1:12
17/03/06 3:36
17/03/06 6:00
17/03/06 8:24
17/03/06 10:48
17/03/06 13:12
17/03/06 15:36
17/03/06 18:00
17/03/06 20:24
17/03/06 22:48
18/03/06 1:12
18/03/06 3:36
18/03/06 6:00
18/03/06 8:24
18/03/06 10:48
18/03/06 13:12
18/03/06 15:36
18/03/06 18:00
Time

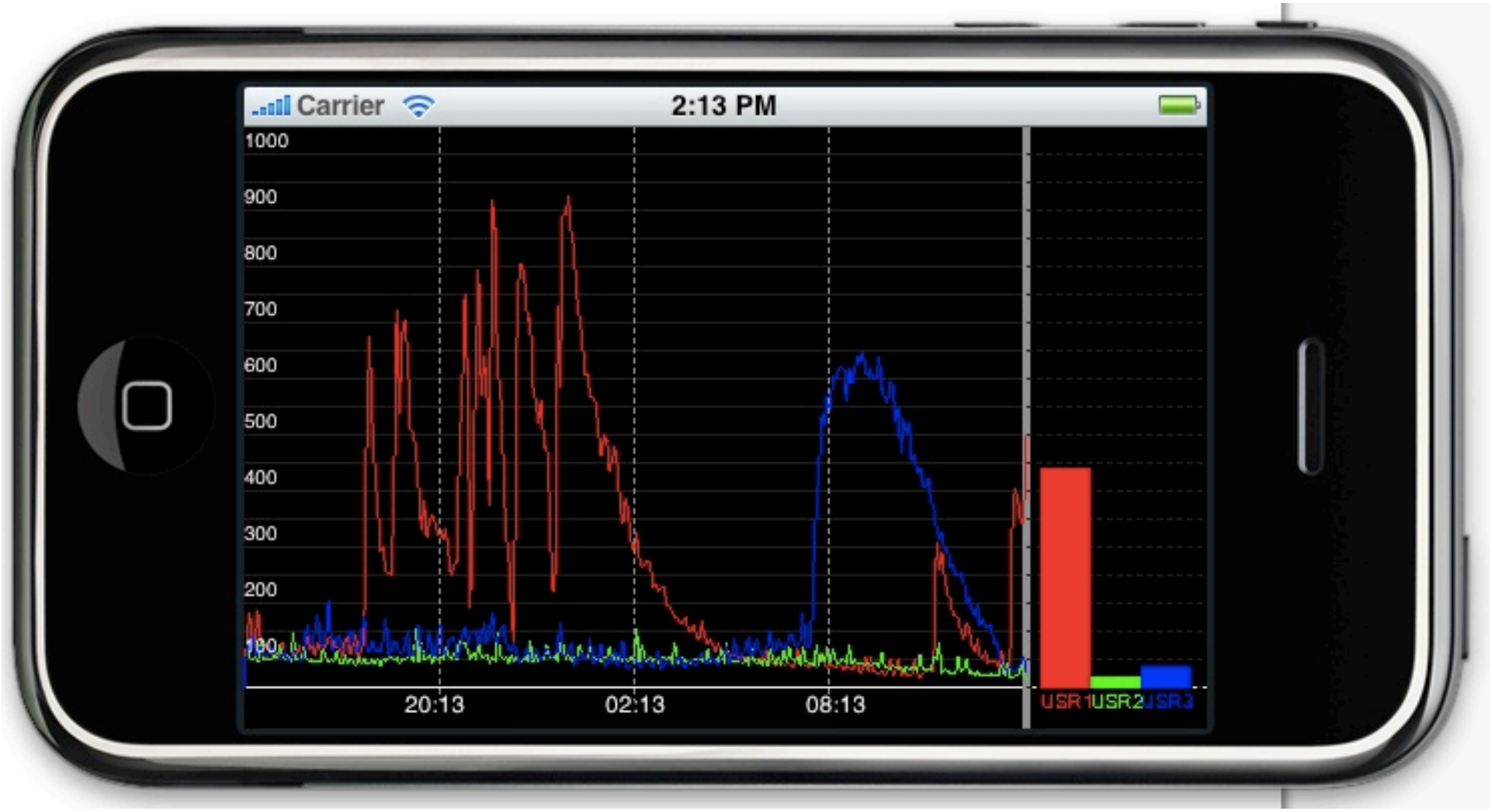
InAir

Sunyoung Kim

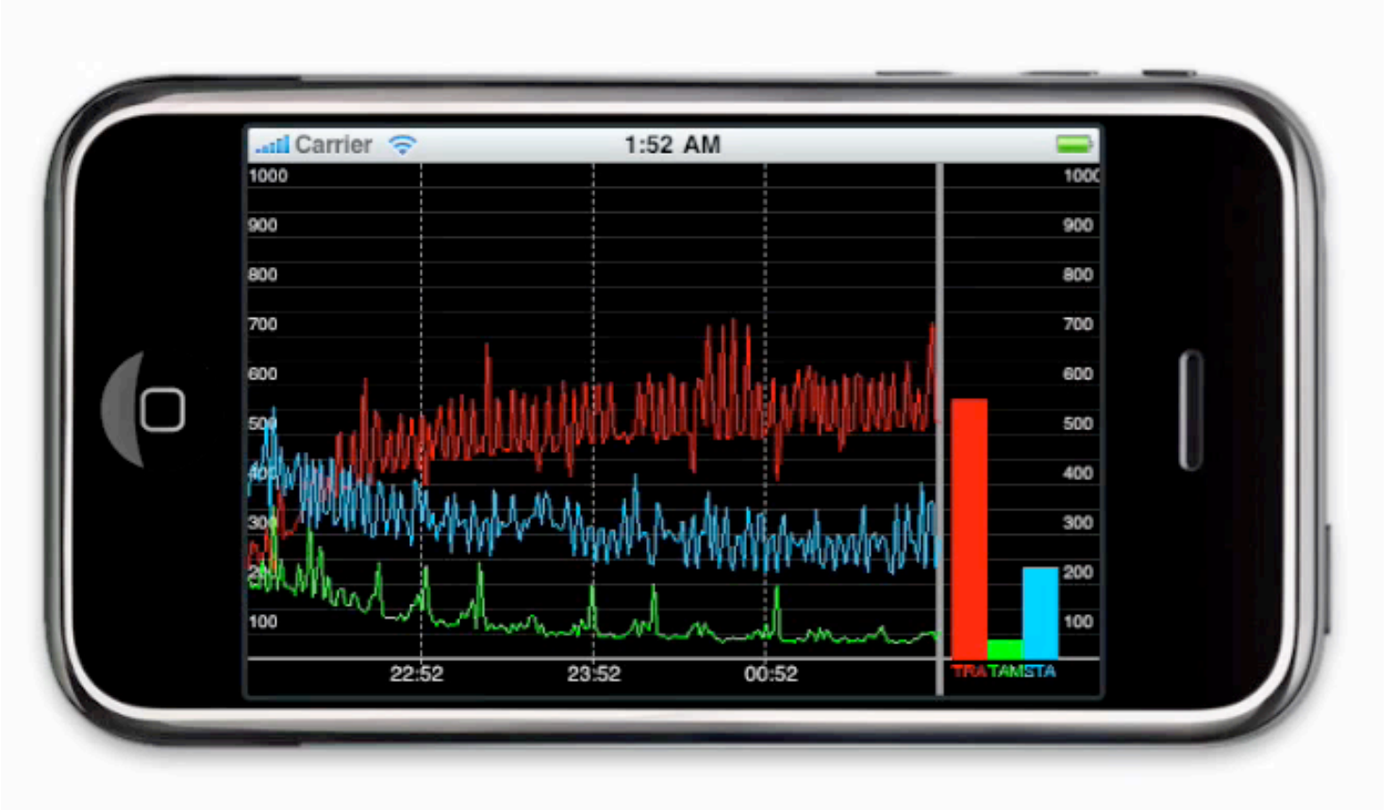
CO

VOCs

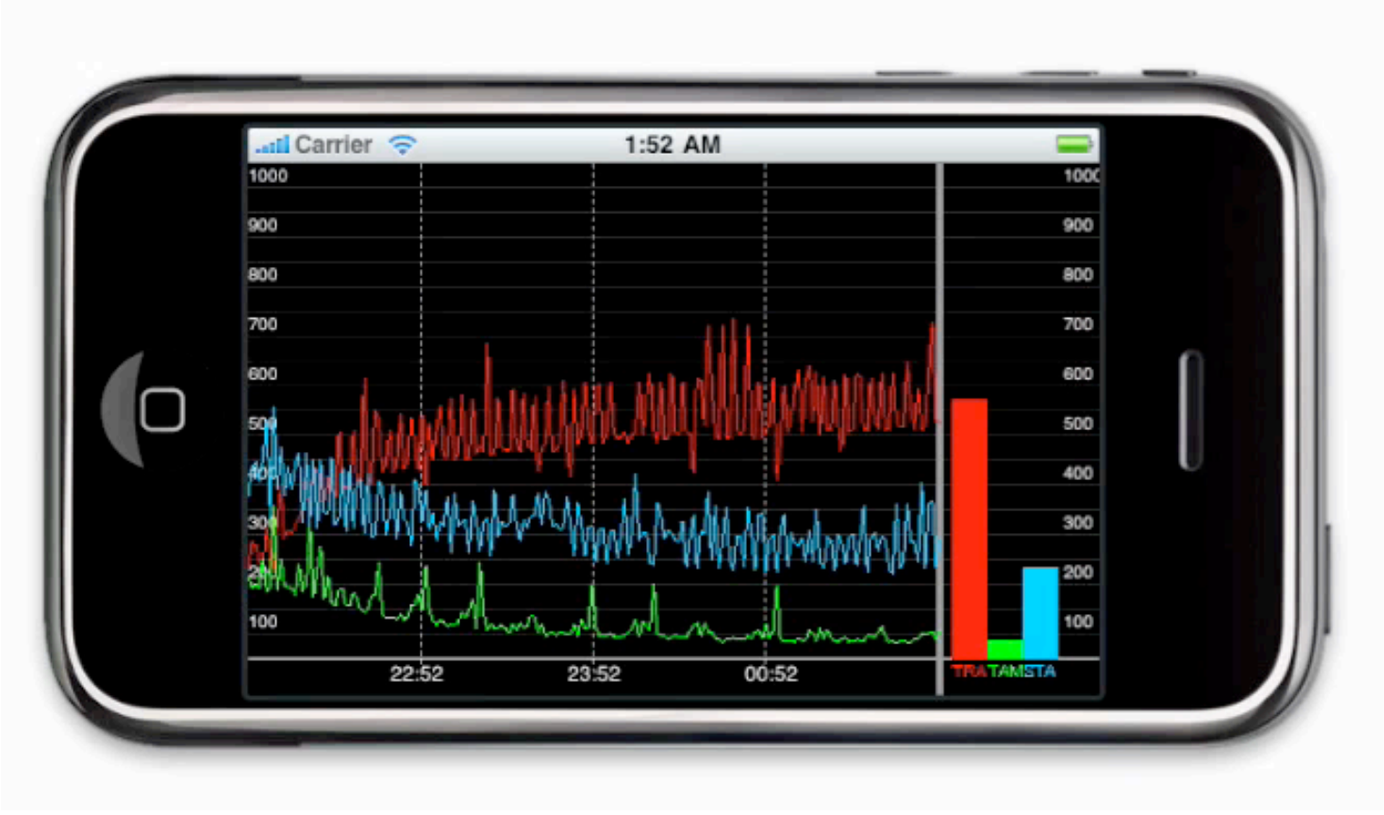
Particles



Carrier
1:52 AM
1000
900
800
700
600
500
400
300
200
100
22:52
23:52
00:52
TRATANISTA



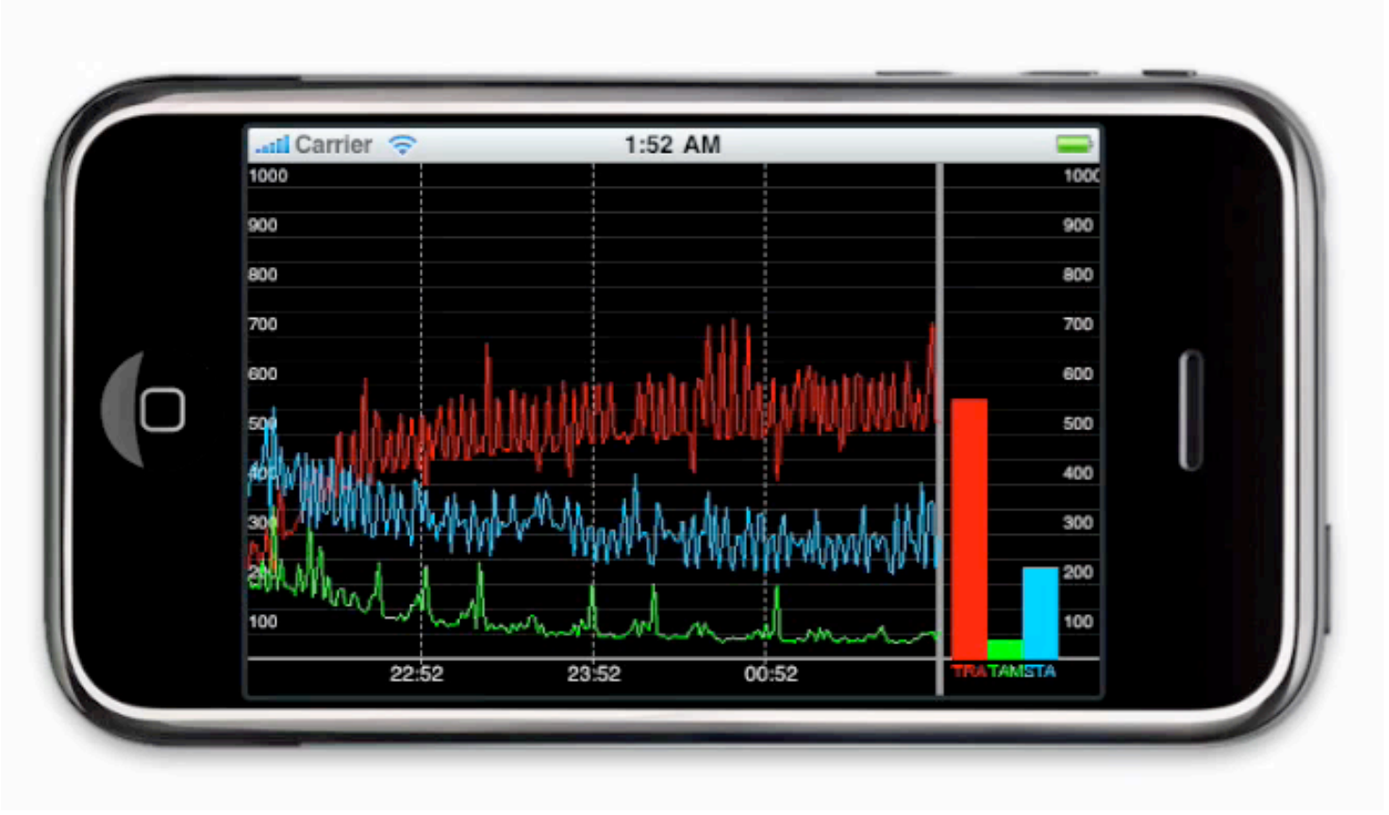
I have smoked more than 40 years. I have no reason to quit.



I have smoked more than 40 years. I have no reason to quit.

It was different from knowing how bad it is to seeing how bad it is.

Sometimes you need a smack in the face. It shoots up when I light a cigarette.



I have smoked more than 40 years. I have no reason to quit.

It was different from knowing how bad it is to seeing how bad it is. Sometimes you need a smack in the face. It shoots up when I light a cigarette.

It was affecting my denial over smoking. It is too predominant. Nothing else made air worse than smoking, Cooking, vacuuming, lighting a fireplace...Nothing! My air quality is like ten times worse than others. I am not feeling comfortable anymore with smoking.

Making Sense of Sensors

sensor legibility

design for disassembly

designing for doubt

designing for activism

representation: good or evil?

neutral sensors

avoid creating culture of fear

The time for games has passed.

Now is the season for action

- Barack Obama