disclaimer

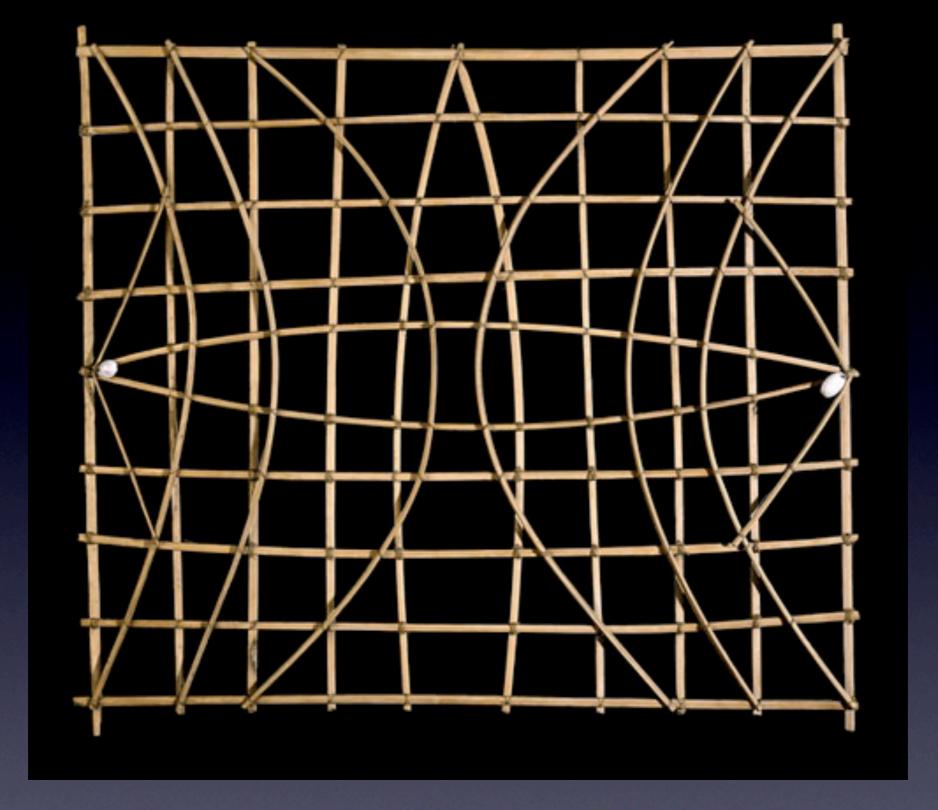ENTRANCE
· TO ·
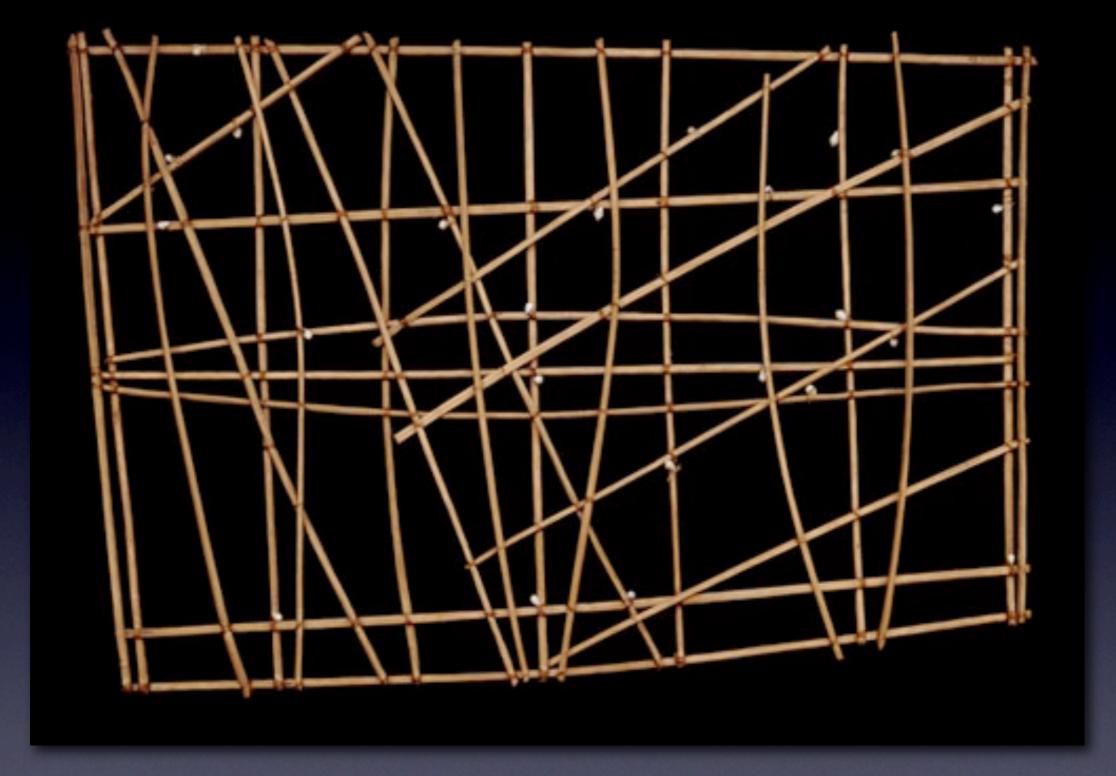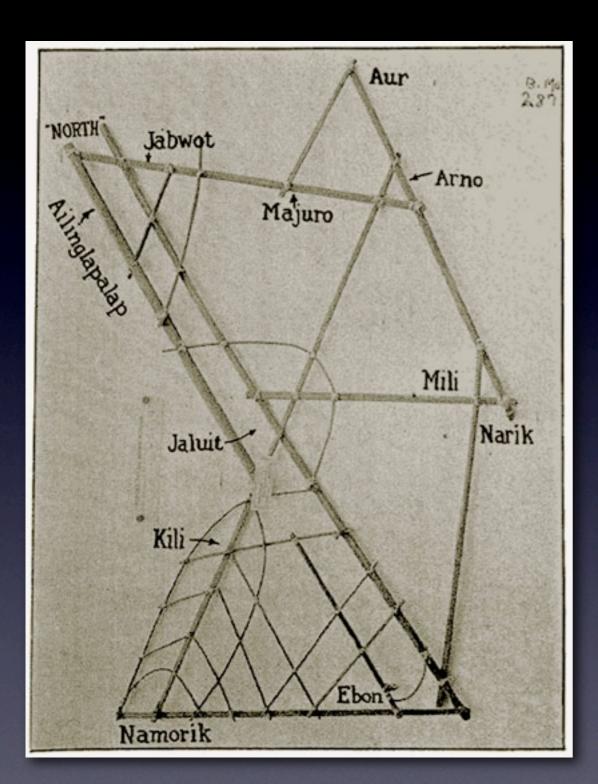PEABODY MUSEUM
· OF ·
ARCHAEOLOGY AND ETHNOLOGY

"rebbelib", "stick chart" or "shell chart"
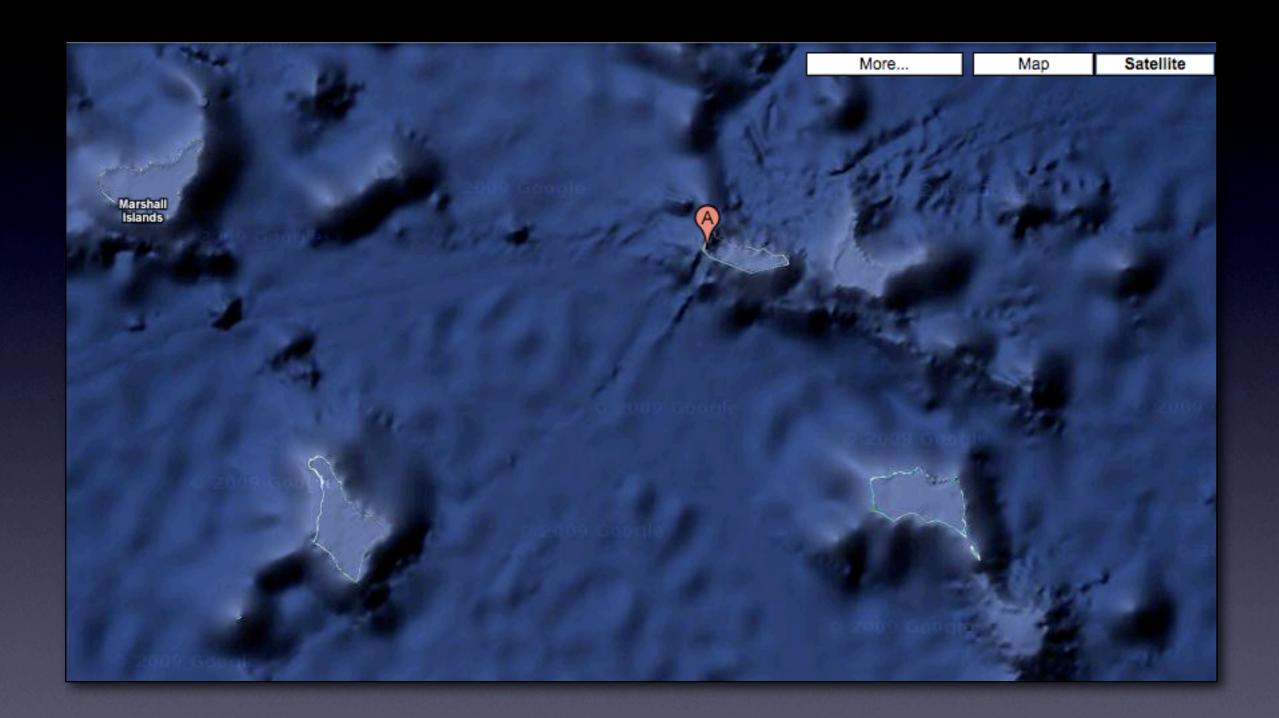Marshall Islands, circa 1900

"mattang" - smaller, square charts
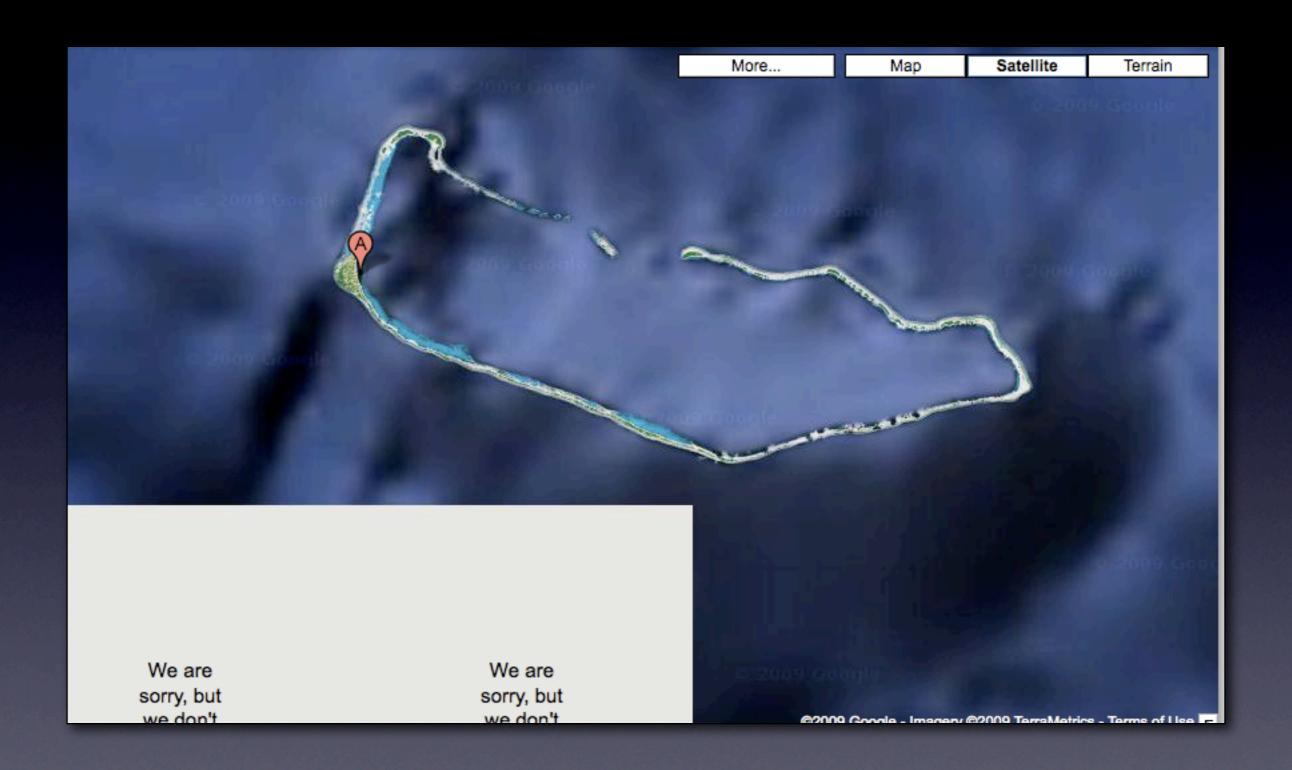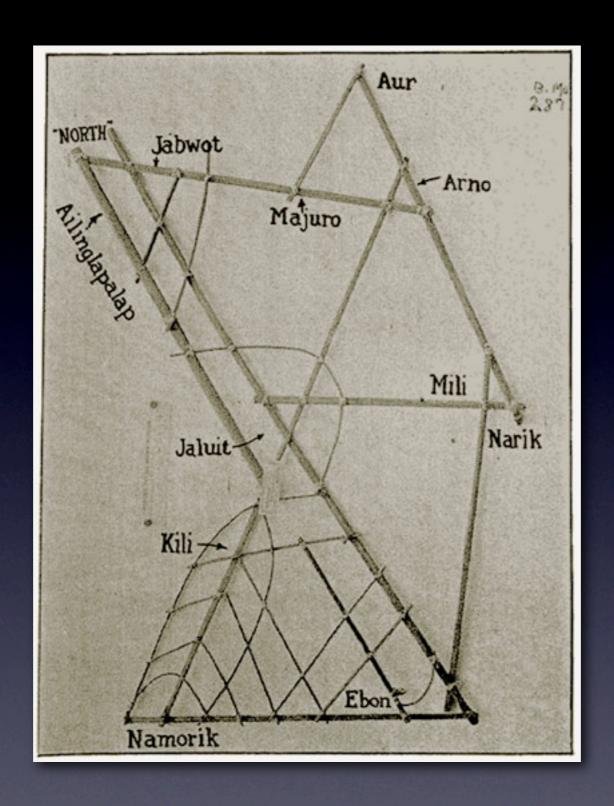used to teach the principles of navigating by ocean swells

shells represent islands
curved and diagonal lines represent ocean swells
Captain Winkler, 1901

Mapping infrastructure

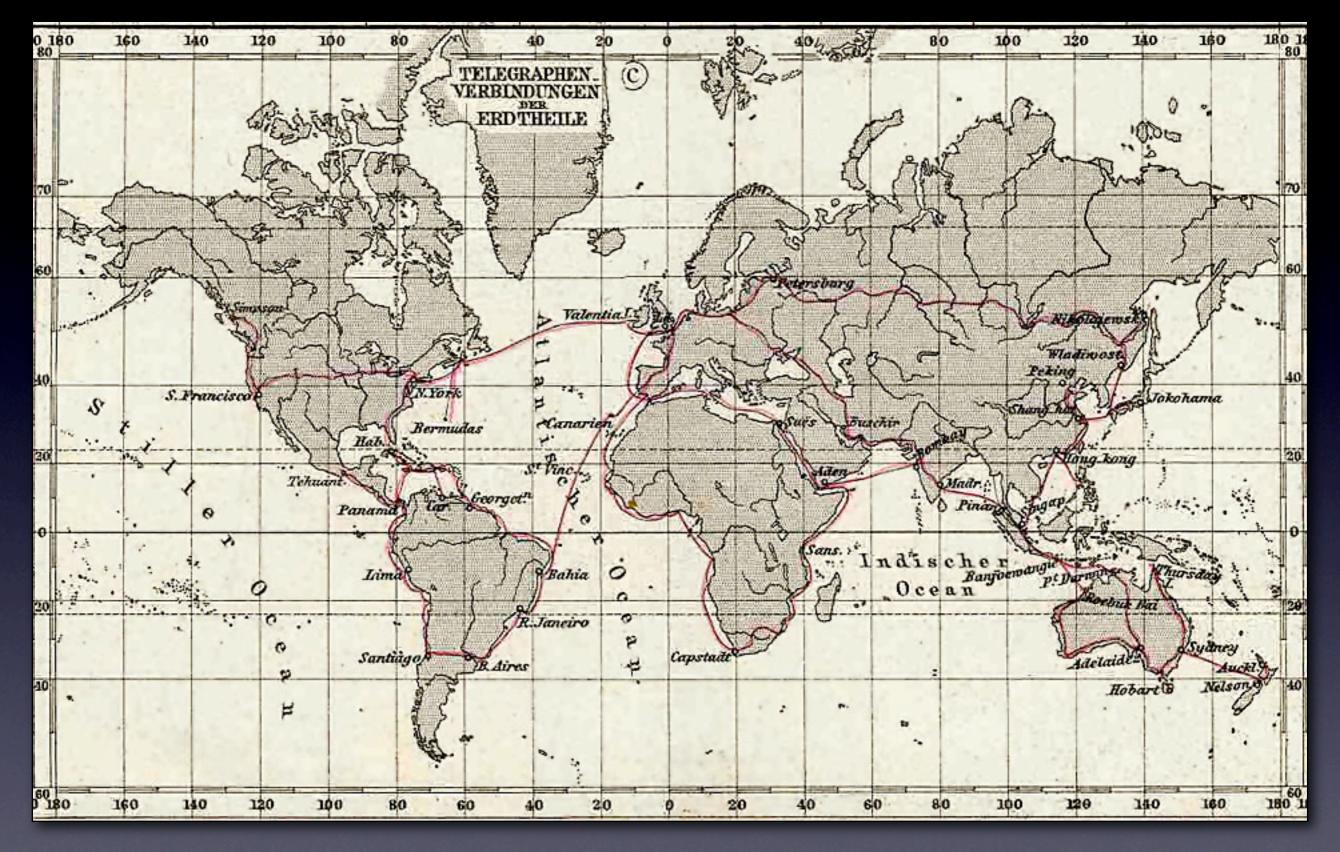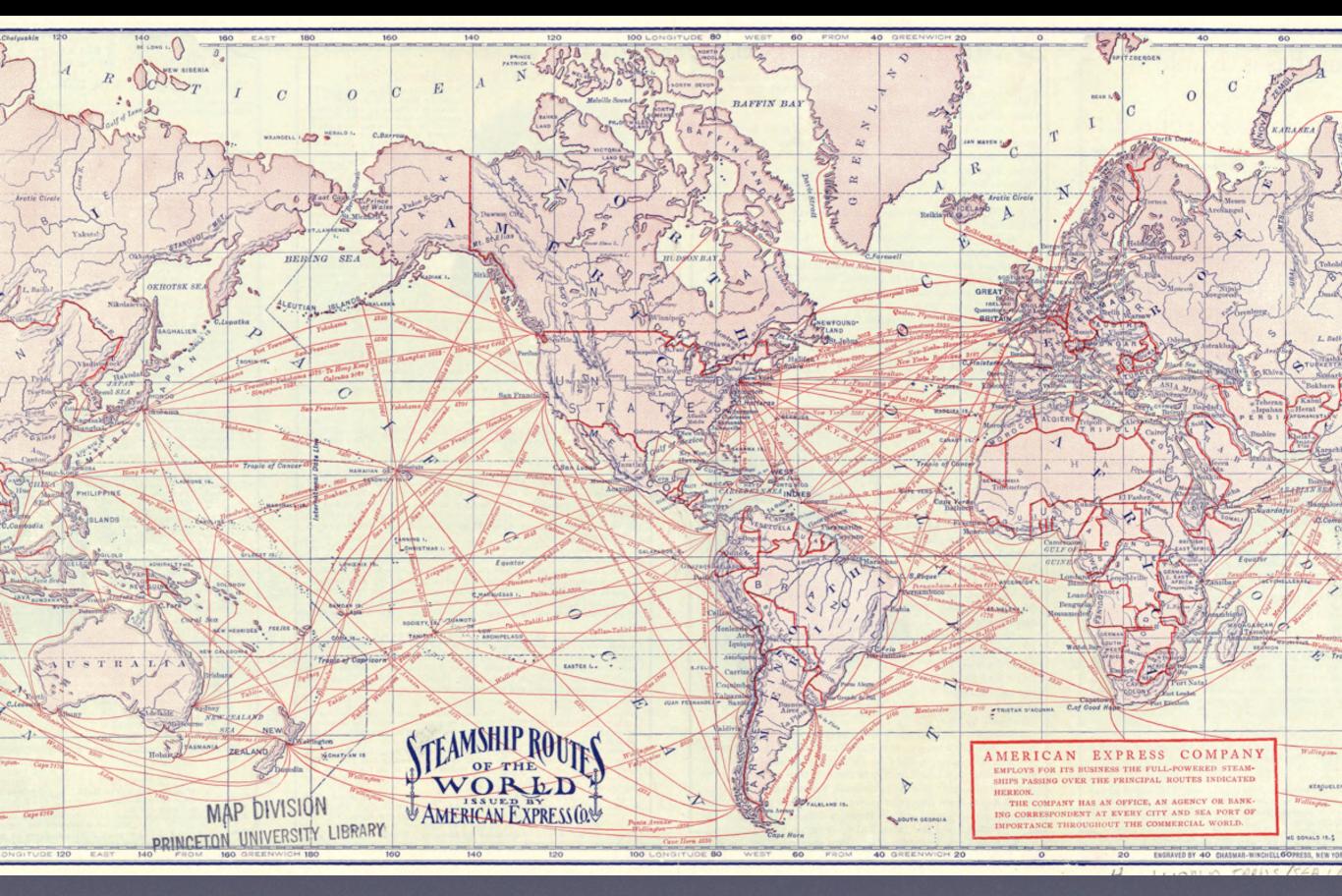Rand McNally Area and population of the world 1890.
(mapping political geography, statistics)

Map of telegraph connections
1891 Stielers Hand-Atlas, Plate No. 5
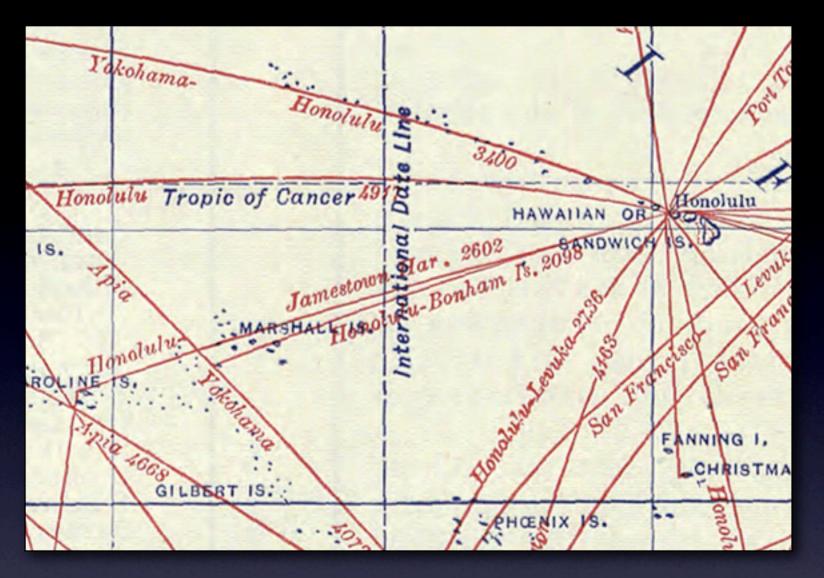
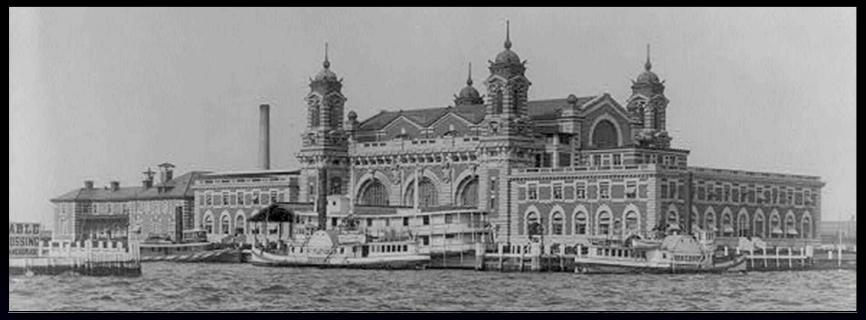Steamship routes, *American Express Company, circa 1900*

detail from Rand, Mc.Nally & Co's official railroad map of the United States with portions of the Dominion of Canada, the Republic of Mexico, and the West Indies, circa 1893

NEBRASKA (large letters: R A S K)

Norway · Thedford · Purdum · Butka · Francis · Oakdale · Hadar · NORFOLK
Middle · Hawley · Cumminsville · Elgin · Tilden · Meadow Grove · Newmans Grove · Warnerville · Madison
Dismal · Brewster · Moulton · Almeria · Buffalo · Bartlett · Petersburg · Battle Creek · Creston
Halsey · Editho · Willow Springs · Harrington · Loretto · Bradish · Humphrey · Lindsay · Cordia
Dunning · Taylor · Ericson · Albion · Boone · Burrows
Linscott · Burwell · Sargent · Elyria · Sumter · Horace · Belfast · Cedar Rapids · St. Edward · Woodville · Platte Center · Monroe · Columbus
Omega · McPherson · Dorp · Argille · Anselmo · Ora · Burris · Scotia · Greeley Center · Brayton · Belgrade · Merchiston · Genoa · Duncan · Benton
Gandy · Logan · Cliff · Merna · Arcadia · North Loup · Scotia Jc · Loup City · Elba · Wolbach · Fullerton · Gardiner · Silver Cr · Bellwood
Arnold · Broken Bow · McAlpine · Ashton · Farrell · Cushing · Palmer · Clarks · Osceola · Shelby · David
Garfield · Triumph · Berwyn · Ansley · Mason · Dannebrog · Boelus · St. Paul · Archer · Thumme · Stromsburg · Rising · Surprise · Millerton
Myrtle · Kilmer · Callaway · Lodi · Olax Tufford · Litchfield · Rockville · Cairo · Dublin · Paddock · Capman · Central City · Marquette · Benedict
Gannett · Stopo · Hazard · Ravenna · Lockwood · Abbott · Grand Island · Hampton · York · Thayer
Nichols · North Platte · Maxwell · Brady · Island · Over · Lomax · Congdon · Pleasanton · St. Michael · Alda · Bradshaw · Houston
Willow Island · Gothenburg · Conad · Cayote · Miller · Wood River · Phillips · Aurora · Charleston · Waco · Utica
River · Hindrey · Lexington · Joselyn · Stanley · Watabket · Shelton · Gibbon · Rivers · Doniphan · Bromfield · Henderson · McCool Jc
Somerset · Elizabeth · Peckham · Buchanan · Overton · Simonds · Elm Creek · Kearney · Buda · Prosser · Hansen · Trumbull · Stockham · Eldorado · Lushton · Fairmont
Wellfleet · Maywood · Moorefield · Ingham · Farnam · Eustis · Bertrand · Odessa · Brewster · Menaw · Grand · Hastings · Harvard · Saron · Exeter · Cordo
PLATTE · Arbuta · Newark · Lowell · Hartwell · Inland · Glenville · Verona · Geneva · Sutton · Grafton · Sawyer · Burres
Carrico · Curtis · Russell · Elwood · RIVER · Funk · Artell · Minden · Norman · Holstein · Campbell · Roseland · Ayr · Clay Center · Shickley · Ong · Fairfield · Strang · Tobia
Stockville · Earl · Milton · Holdrege · Sacramento · Keene · Hildreth · Upland · Bladen · Brickton · Deweese · Edgar · Walters · Ohiowa · Bruning
Quick · Fandon · Afton · Cambridge · Holbrook · Arapahoe · Edison · Atlanta · Wilcox · Ragan · Huntley · Eversons · Bloomington · Riverton · Blue Hill · Lawrence · Oak · Carleton · Belvidere · Alexander
McCook · Bartley · Tyrone · Wilsonville · Oxford Jc · Carter · Mascot · Orleans · Franklin · Inavale · Red Cloud · Cowles · Mt. Clare · Nelson · Nora · Deshler · Hebron · Gilead
Highland · Perry · Lebanon · Hendley · Oxford · Stanford · Alma · Naponee · Riverton · Amboy · Smyrna · Nelson · Ruskin · Chester · Gladstone
Vallton · Danbury · Beaver City · Woodruff · Republican · Hardy · Byron · Superior

North Platte River · Loup River · Burlington River · South Loup River · Missouri River

19th Century Infrastructure

1838 - Regular transatlantic shipping

1865 - London and Bombay connected by telegraph

1869 - Suez Canal opens

1869 - Connection of US transcontinental railway

1871 - Advent of refrigerated shipping
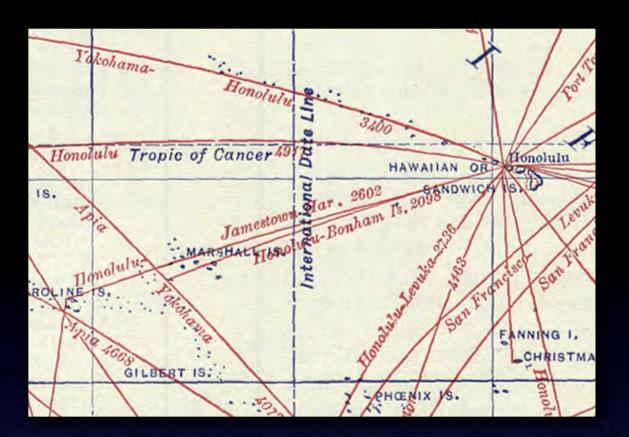
1898 - Chicago Mercantile Exchange founded

Foreign born population
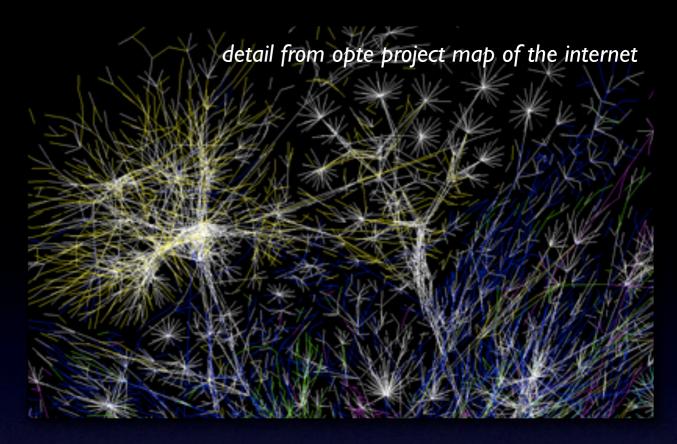in US in 1890 - 14.8%
in 2006 - 12.5%

Global migration
in 1913 - 10%
in 2005 - 2%

mobile versus
immobile migration

steamship routes
canals
railroads
telegraph cables

integrated financial markets
multinational corporations
migration

container ship routes
airplane routes
oil and gas pipelines
telecommunication cables
electrical grid

ITSECURITY

Stay Current

Features

Blurred Out: 51 Things You Aren't Allowed to See on Google Maps

(144 Comments)

Find out which sensitive locations are off-limits online.

IT Security Editors

Depending on which feature you use, Google Maps offers a satellite view or a street-level view of tons of locations around the world. You can look up landmarks like the Pyramids of Egypt or the Great Wall of China, as well as more personal places, like your ex's house. But for all of the places that Google Maps allows you to see, there are plenty of places that are off-limits. Whether it's due to government restrictions, personal-privacy lawsuits or mistakes, Google Maps has slapped a "Prohibited" sign on the following 51 places.

2206
diggs

digg it

RELATED ARTICLES:

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Monday, January 26, 2009

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IT Security Ask the Experts: Top Queries, November 2008
IT Security Ask the Experts: Top

Why is Google Earth Hiding Dick Cheney's House? (Updated)

By Sharon Weinberger ✉   July 23, 2008 | 2:01:00 PM   Categories: Shhh!!!

What the heck is so special about Dick Cheney's official residence that Google feels the need to obscure it? Oh, must the be that secret bunker allegedly built underneath it. But if that's indeed the case, why then is the vice president's home at the Naval Observatory crystal clear on Yahoo Maps?

In an article this month for *Discover*, I looked at how widely available commercial imagery has affected national security. While governments typically can't force companies to restrict imagery, it's certainly possible for them to coerce or persuade services like Google Earth from posting sensitive images. There have been a number of articles, for example, hinting that Google is trying to avoid stepping on the toes of China's government, which is concerned about sensitive images of its military installations available on
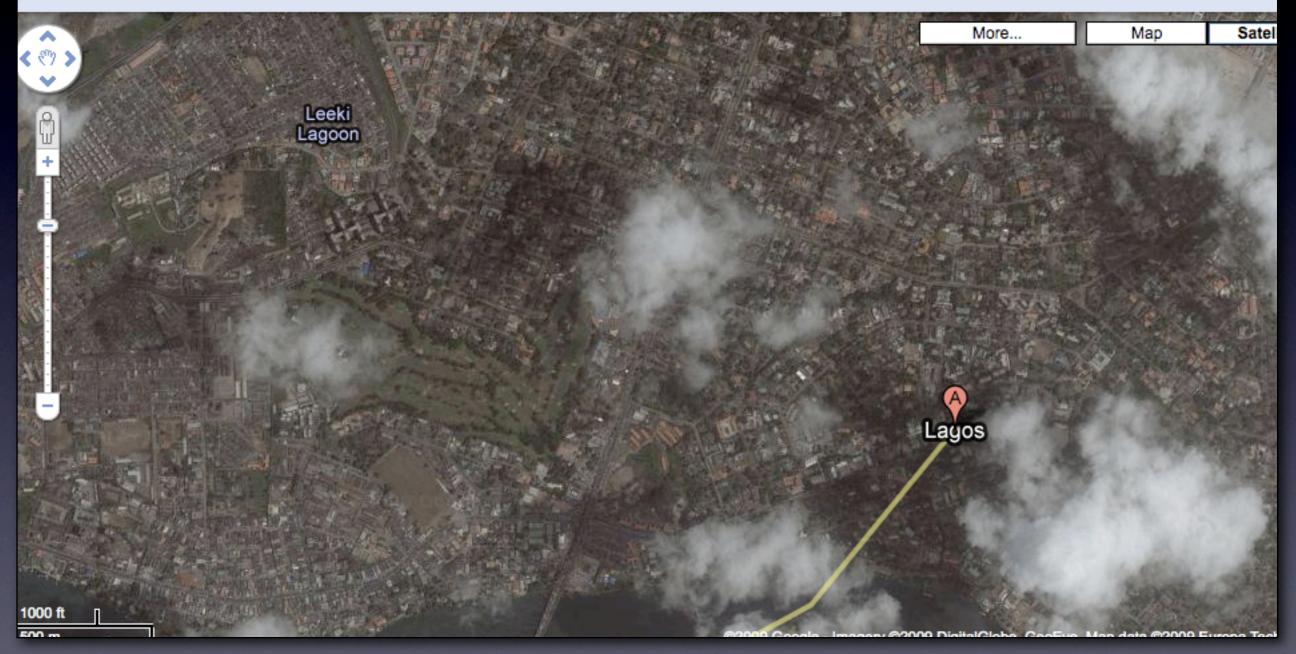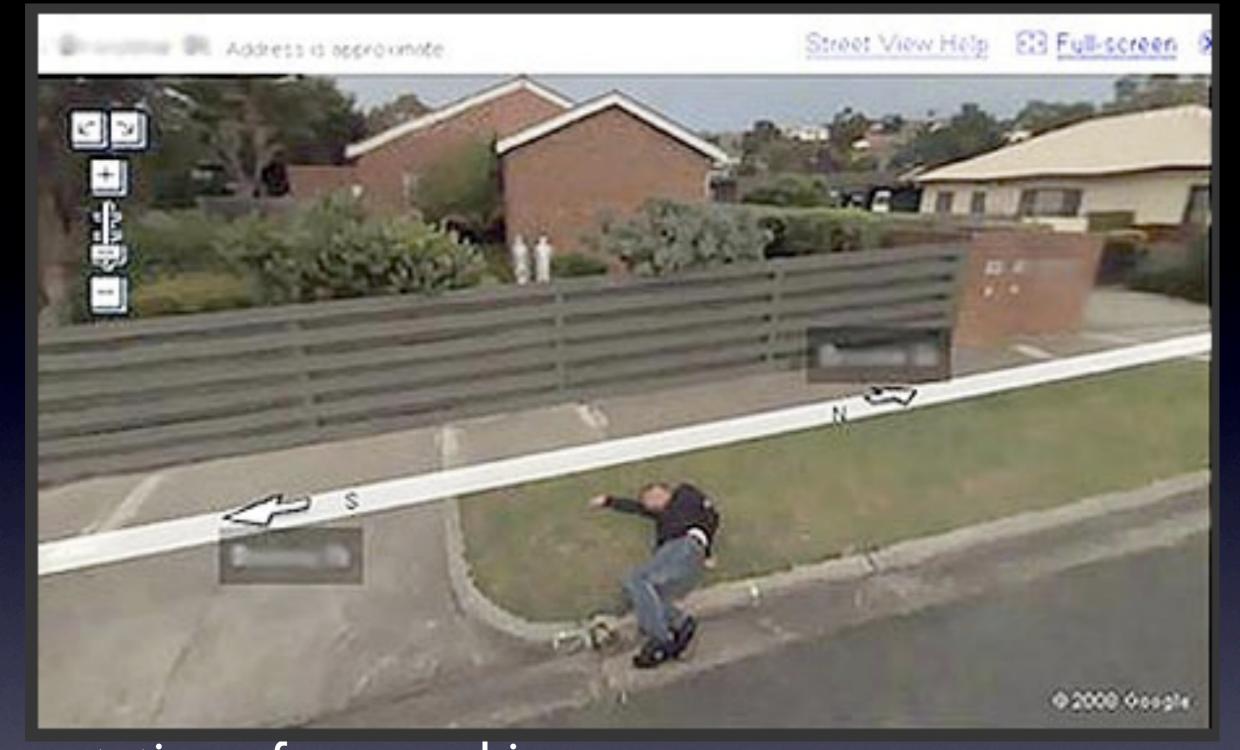
Lagos, Nigeria - estimated population of 8,100,000

expectation of geographic maps:
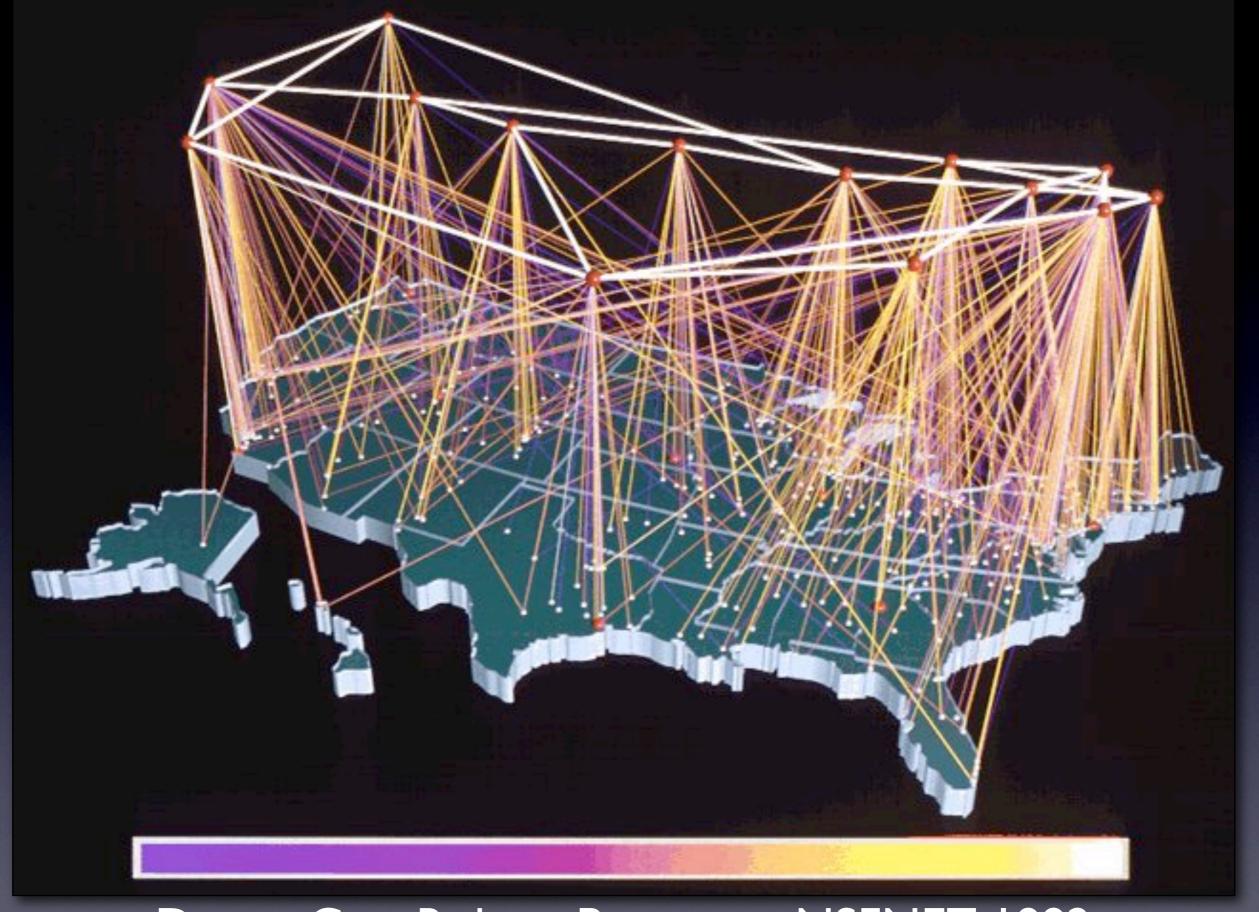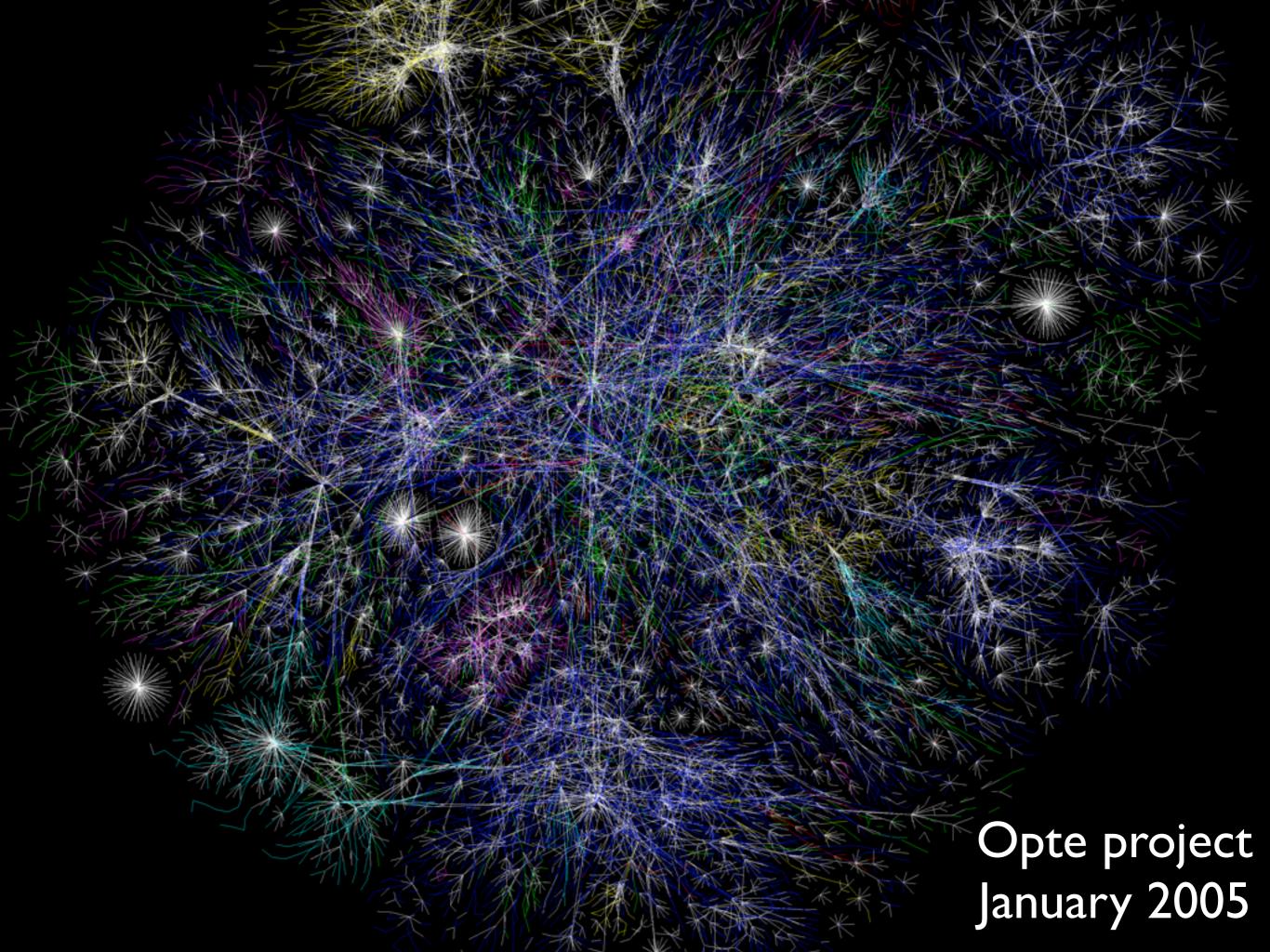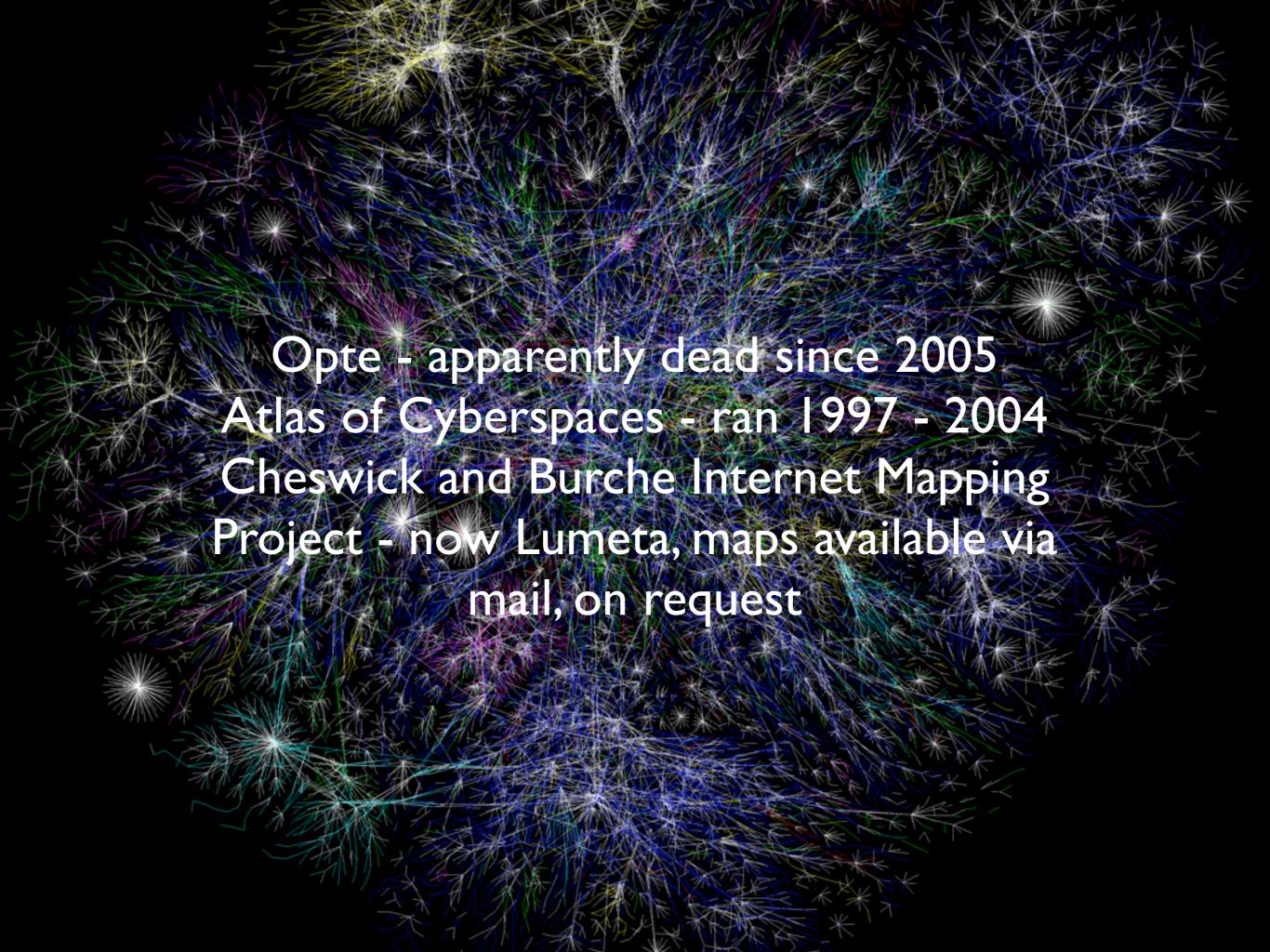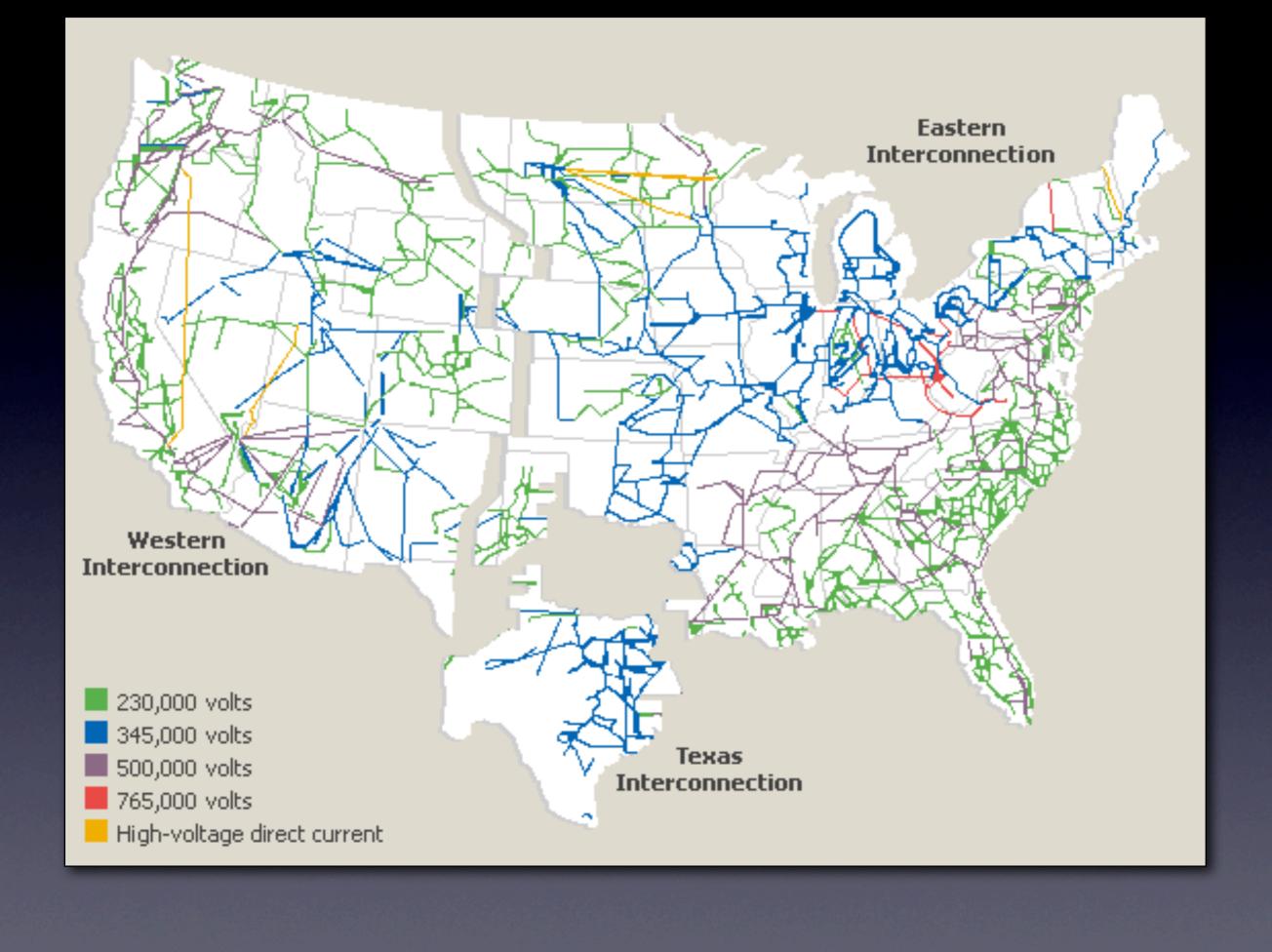a level of detail that may brush up against privacy concerns
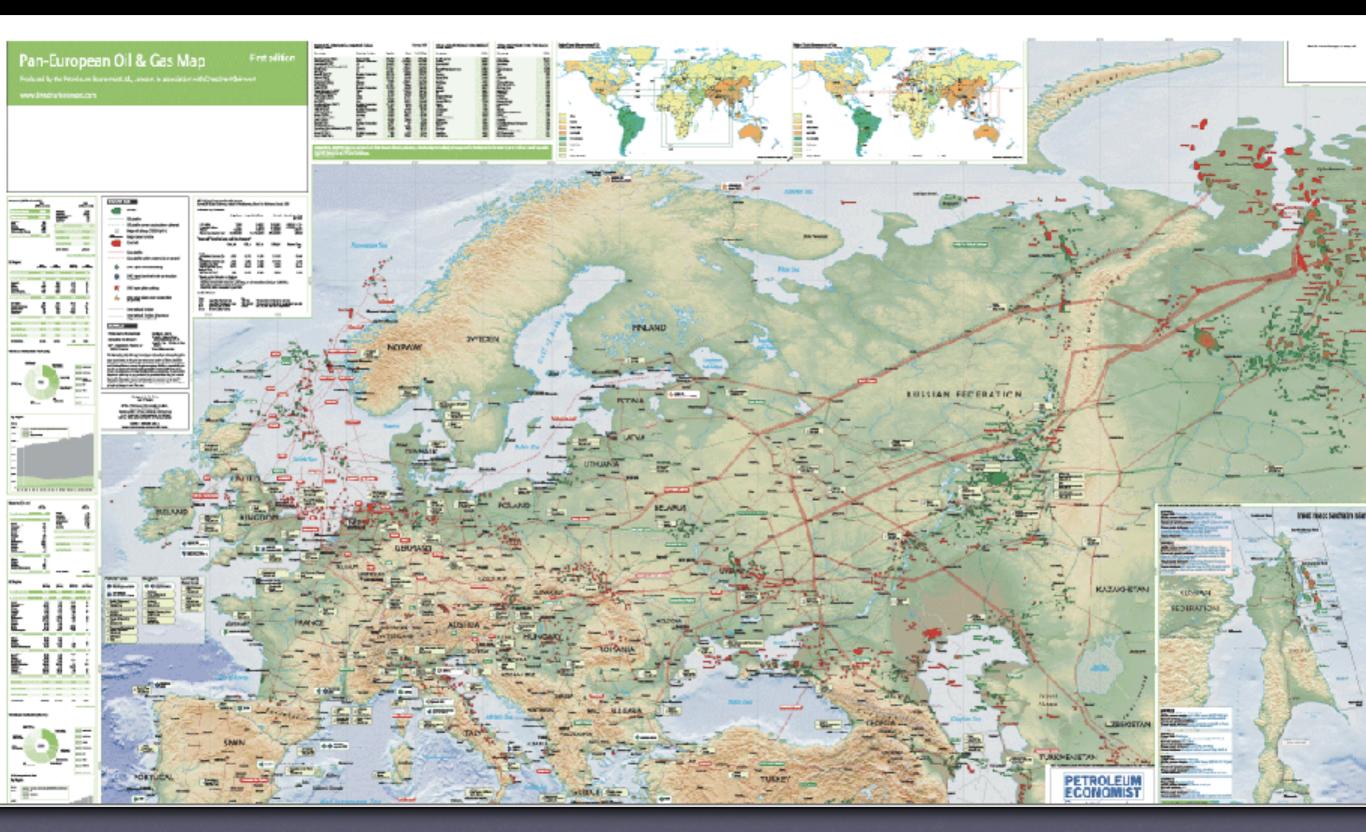
what do we expect from maps of infrastructure?

Donna Cox, Robert Patterson, NSFNET, 1992
From Martin Dodge's "An Atlas of Cyberspaces"

Opte project
January 2005

Opte - apparently dead since 2005
Atlas of Cyberspaces - ran 1997 - 2004
Cheswick and Burche Internet Mapping
Project - now Lumeta, maps available via
mail, on request

Eastern Interconnection

Western Interconnection

Texas Interconnection

■ 230,000 volts
■ 345,000 volts
■ 500,000 volts
■ 765,000 volts
■ High-voltage direct current

Pan-European Oil & Gas Map, *Petroleum Economist*

Magazine

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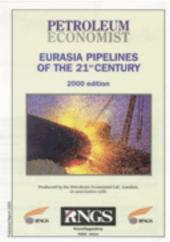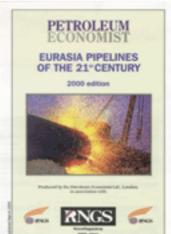
About Us
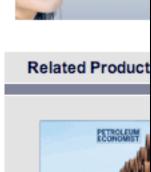
Jobs at PE

Help

Site Map

Petroleum Economist Maps

Eurasia Pipelines of the 21st Century, 2000

- Major pipelines of the countries of the Former Soviet Union, from the Atlantic Ocean in the west to Sakhalin in the east; and Thailand, India and the Middle East in the south
- Major hydrocarbon-producing areas, pipelines, refineries, terminals and railways
- Major projected projects for the twenty-first century
- Inset maps of Sakhalin Island, East Siberia, the Baltic states and the Caspian Sea and Black Sea area
- Oil and gas production data and major refineries

Size: 1440 mm x 891 mm
Scale: 1:10 million

This product is also available as a digital PDF, please contact us for more information.

HAVE A QU

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Major Pipelines of the World, 3rd Edition

Description	Price	Buy now
Eurasia Pipelines of the 21st Century, Rolled	£165.00	Buy now
Eurasia Pipelines of the 21st Century, Folded	£145.00	Buy now

Liquified Natural Gas Facilities

FERC

Existing and Proposed North American LNG Terminals

CONSTRUCTED
A. Everett, MA : 1.035 Bcfd (Tractebel - DOMAC)
B. Cove Point, MD : 1.0 Bcfd (Dominion - Cove Po
C. Elba Island, GA : 0.68 Bcfd (El Paso - Southern
D. Lake Charles, LA : 1.0 Bcfd (Southern Union -
E. Gulf of Mexico: 0.5 Bcfd, (Gulf Gateway Energy

APPROVED BY FERC
1. Lake Charles, LA: 1.1 Bcfd (Southern Union - T
2. Hackberry, LA : 1.5 Bcfd, (Sempra Energy)
3. Bahamas : 0.84 Bcfd, (AES Ocean Express)*
4. Bahamas : 0.83 Bcfd, (Calypso Tractebel)*
5. Freeport, TX : 1.5 Bcfd, (Cheniere/Freeport LN
6. Sabine, LA : 2.6 Bcfd (Cheniere LNG)
7. Elba Island, GA: 0.54 Bcfd (El Paso - Southern
8. Corpus Christi, TX: 2.6 Bcfd, (Cheniere LNG)
9. Corpus Christi, TX : 1.0 Bcfd (Vista Del Sol - Ex
10. Fall River, MA : 0.8 Bcfd, (Weaver's Cove Ene
11. Sabine, TX : 1.0 Bcfd (Golden Pass - ExxonMol
12. Corpus Christi, TX: 1.0 Bcfd (Ingleside Energy

APPROVED BY MARAD/COAST GUARD
13. Port Pelican: 1.6 Bcfd, (Chevron Texaco)
14. Louisiana Offshore : 1.0 Bcfd (Gulf Landing -

CANADIAN APPROVED TERMINALS
15. St. John, NB : 1.0 Bcfd, (Canaport - Irving Oil
16. Point Tupper, NS 1.0 Bcf/d (Bear Head LNG -

MEXICAN APPROVED TERMINALS
17. Altamira, Tamulipas : 0.7 Bcfd, (Shell/Total/
18. Baja California, MX : 1.0 Bcfd, (Sempra)
19. Baja California - Offshore : 1.4 Bcfd, (Chevr

PROPOSED TO FERC
20. Long Beach, CA : 0.7 Bcfd, (Mitsubishi/Conoco
21. Logan Township, NJ : 1.2 Bcfd (Crown Landir
22. Bahamas : 0.5 Bcfd, (Seafarer - El Paso/FPL)
23. Port Arthur, TX: 1.5 Bcfd (Sempra)
24. Cove Point, MD : 0.8 Bcfd (Dominion)
25. LI Sound, NY: 1.0 Bcfd (Broadwater Energy -
26. Pascagoula, MS: 1.0 Bcfd (Gulf LNG Energy Ll
27. Bradwood, OR: 1.0 Bcfd (Northern Star LNG -
28. Pascagoula, MS: 1.3 Bcfd (Casotte Landing -
29. Cameron, LA: 3.3 Bcfd (Creole Trail LNG - Che
30. Port Lavaca, TX: 1.0 Bcfd (Calhoun LNG - Gul
31. Freeport, TX: 2.5 Bcfd (Cheniere/Freeport LNG

Sean Gorman

Sean Gorman

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washingtonpost.com > Technology > Tech Policy > Security

Dissertation Could Be Security Threat
Student's Maps Illustrate Concerns About Public Information

By Laura Blumenfeld
Washington Post Staff Writer
Tuesday, July 8, 2003; Page A01

Sean Gorman's professor called his dissertation "tedious and unimportant." Gorman didn't talk about it when he went on dates because "it was so boring they'd start staring up at the ceiling." But since the Sept. 11, 2001, attacks, Gorman's work has become so compelling that companies want to seize it, government officials want to suppress it, and al Qaeda operatives -- if they could get their hands on it -- would find

Sean Gorman

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"He should turn it in to his professor, get his grade -- and then they both should burn it," said Richard Clarke, former White House cyberterrorism chief.

the security concern:
people want maps of infrastructure
so they can break it

my concern:
we only pay attention to
infrastructure when it breaks

NEWS

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Page last updated at 15:13 GMT, Wednesday, 7 January 2009

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Dispute hits Europe gas supplies

Exports of Russian gas to Europe via Ukraine appear to have completely stopped amid a dispute over gas supplies between the two countries.

Heating systems shut down in some parts of central Europe, as outdoor temperatures plunged to -10C or lower.

Russia and Ukraine have blamed each other, and the EU says it wants its own monitors to check the flow of gas.

The EU depends on Russia for about a quarter supplies, some 80% of which is pumped throug

The list of countries that have reported a total supplies via Ukraine includes Romania, the Cze Bosnia-Hercegovina, Bulgaria, Croatia, Greece, Serbia, and Austria.

Italy said it had received only 10% of its expec

▾ **See map of affected area**

Several count own limited r

COUNTRIES AFFECTED BY CRISIS

RUSSIA   Moscow

BELARUS

GERMANY   POLAND

CZECH REP.   SLOVAKIA   UKRAINE

FRANCE   AUSTRIA

HUNGARY

SLOVENIA

CROATIA   ROMANIA

BOSNIA

ITALY

SERBIA

BULGARIA

MACEDONIA

GREECE

TURKEY

■ **Severely affected countries**
□ **Partially affected countries**
— **Gas pipelines**
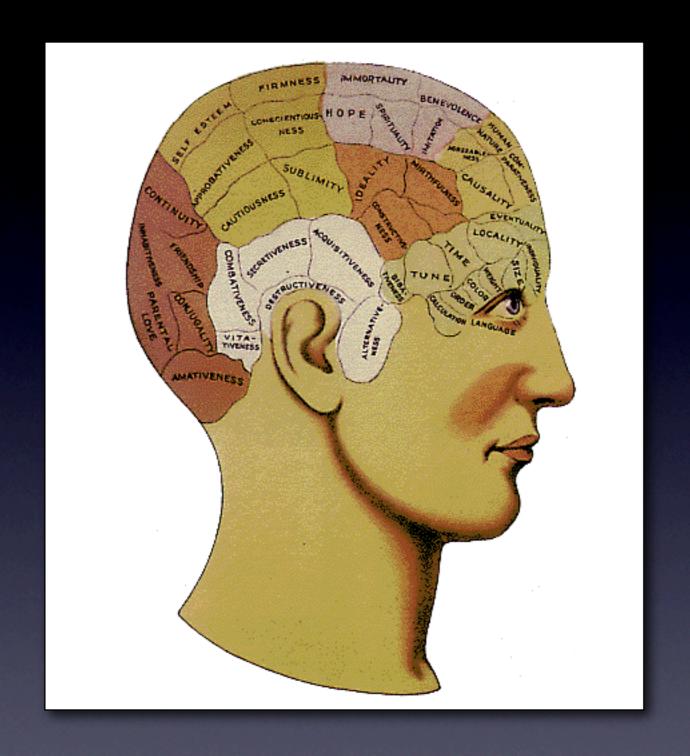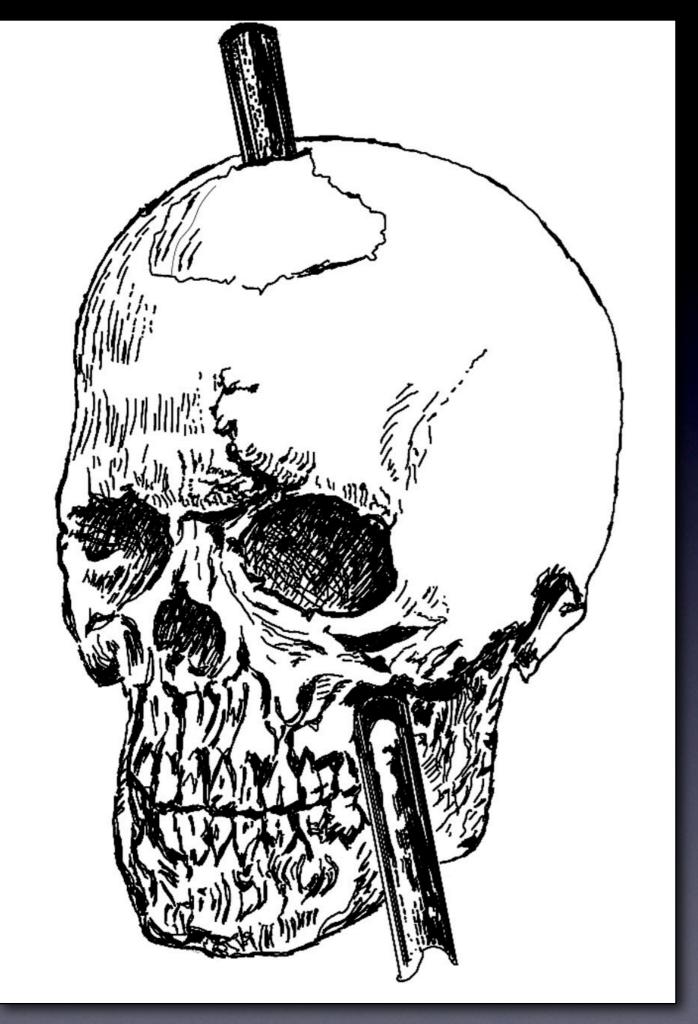
infrastructure is invisible until it breaks
how does this color our
understanding of infrastructure?

A Gall/Spurzheim phrenelogical chart
from Brain & Mind, 1997
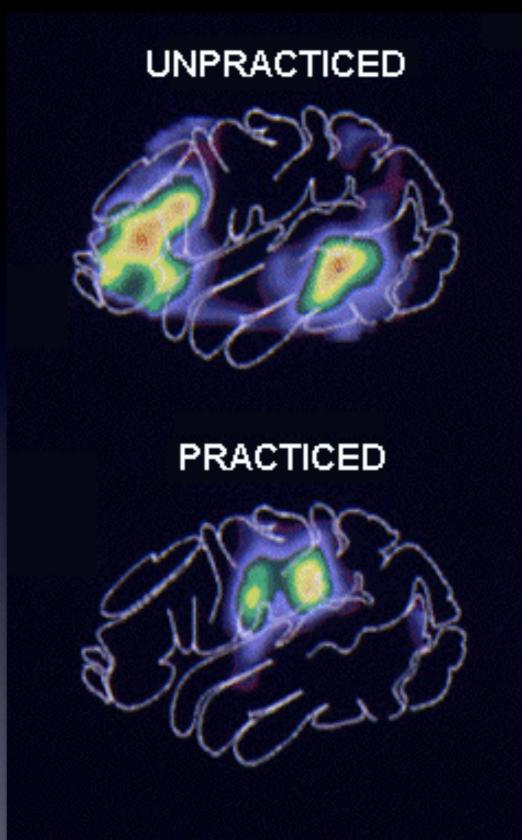
Phineas Gage
1823 - 1860

Cavendish, Vermont
September 13, 1848
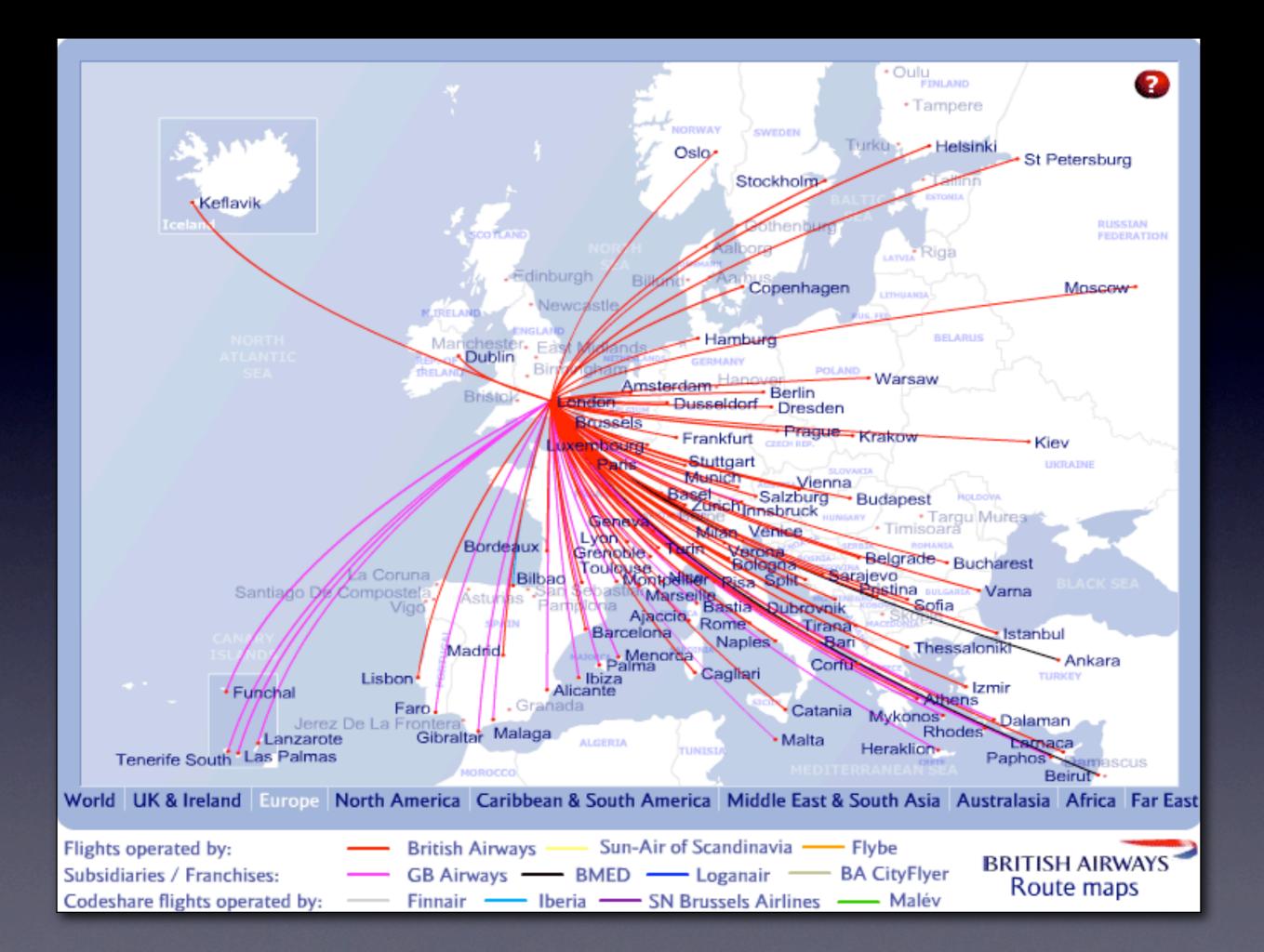
PET scans

Track marked oxygen or glucose to determine structures used during certain activities

Mapping infrastructure by mapping the flow of oxygen or blood
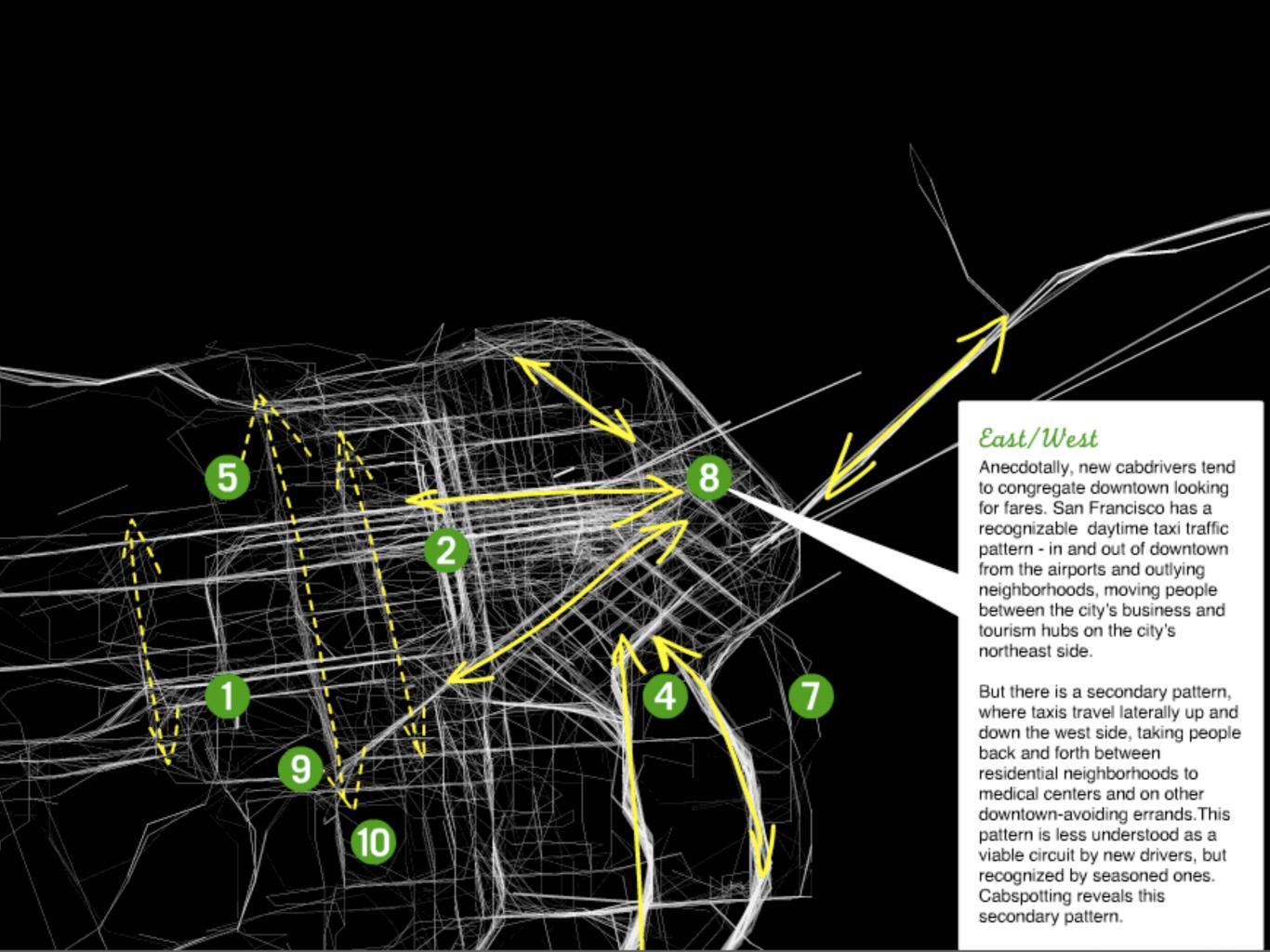
understanding globalization
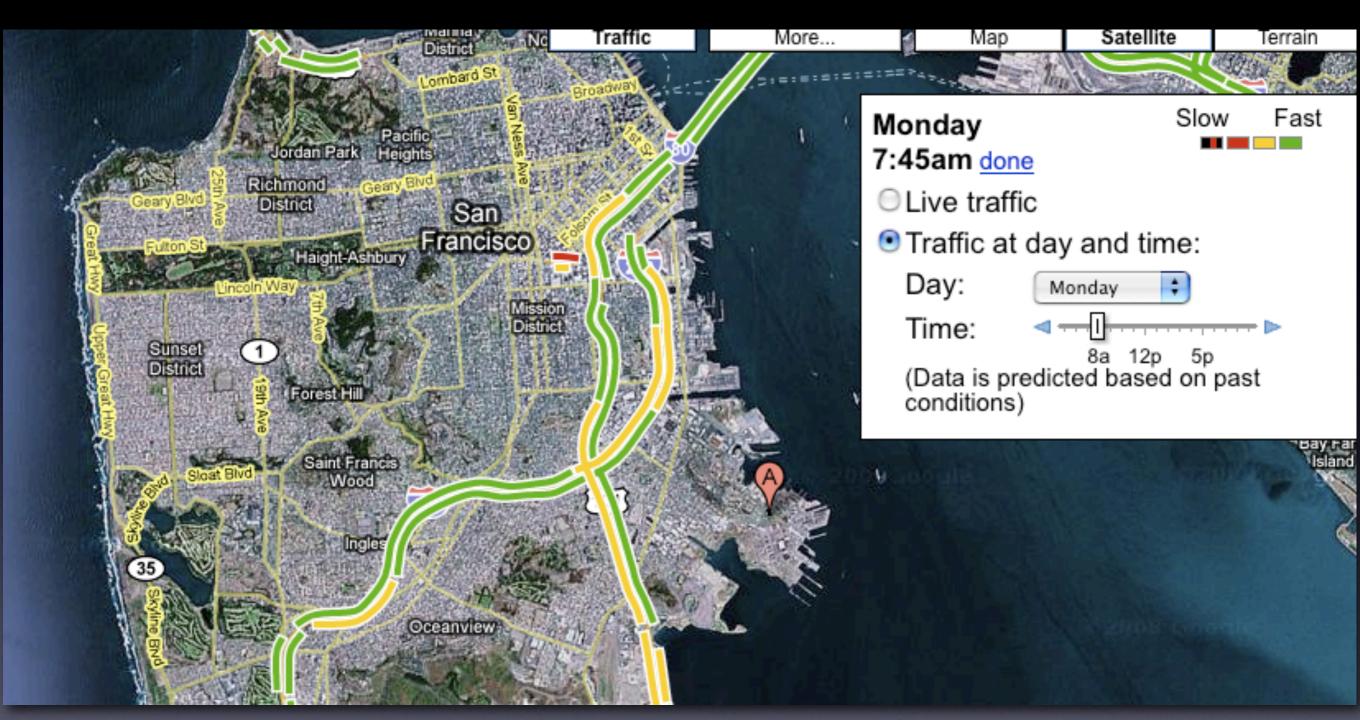requires us to map flow
as well as infrastructure
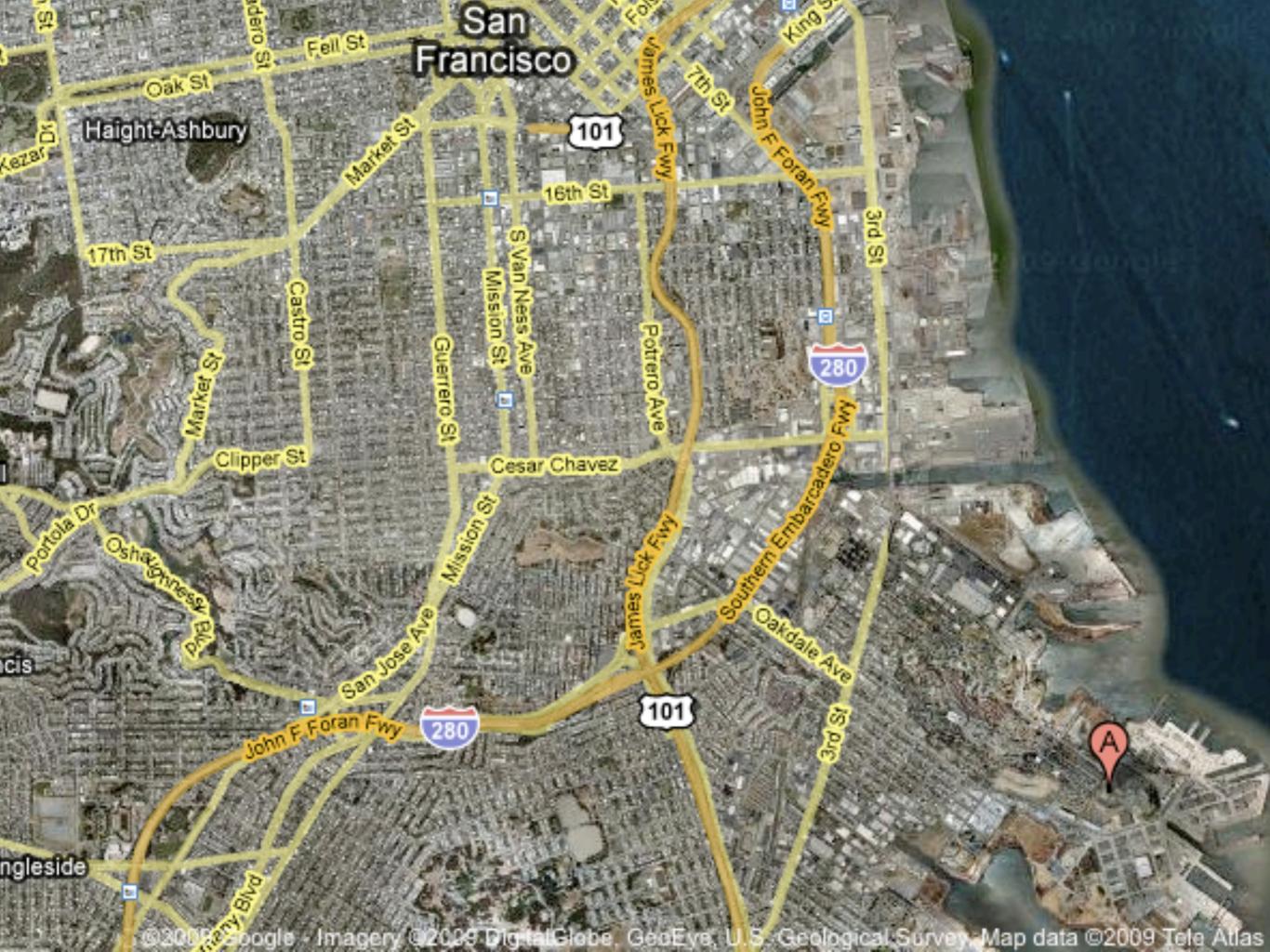
by Zurich University of Applied Sciences
using data from Flightstats.com

"In Transit" from Cabspotting
Stamen Design, using data from Yellow Cab

East/West

Anecdotally, new cabdrivers tend to congregate downtown looking for fares. San Francisco has a recognizable daytime taxi traffic pattern - in and out of downtown from the airports and outlying neighborhoods, moving people between the city's business and tourism hubs on the city's northeast side.

But there is a secondary pattern, where taxis travel laterally up and down the west side, taking people back and forth between residential neighborhoods to medical centers and on other downtown-avoiding errands. This pattern is less understood as a viable circuit by new drivers, but recognized by seasoned ones. Cabspotting reveals this secondary pattern.

When does mapping flow become surveillance?
(When you can use Google to put a pinpoint on my truck?)

The Box: Latest location

BBC News is following a shipping container for a year to tell the story of globalisation. Map information is below.

BBC ■ Reports | ◉ Key locations | ⚓ Departure / destination ports | — Approximate route | ● Previous Box position | — Previous route

mapping one box...
versus mapping all of them
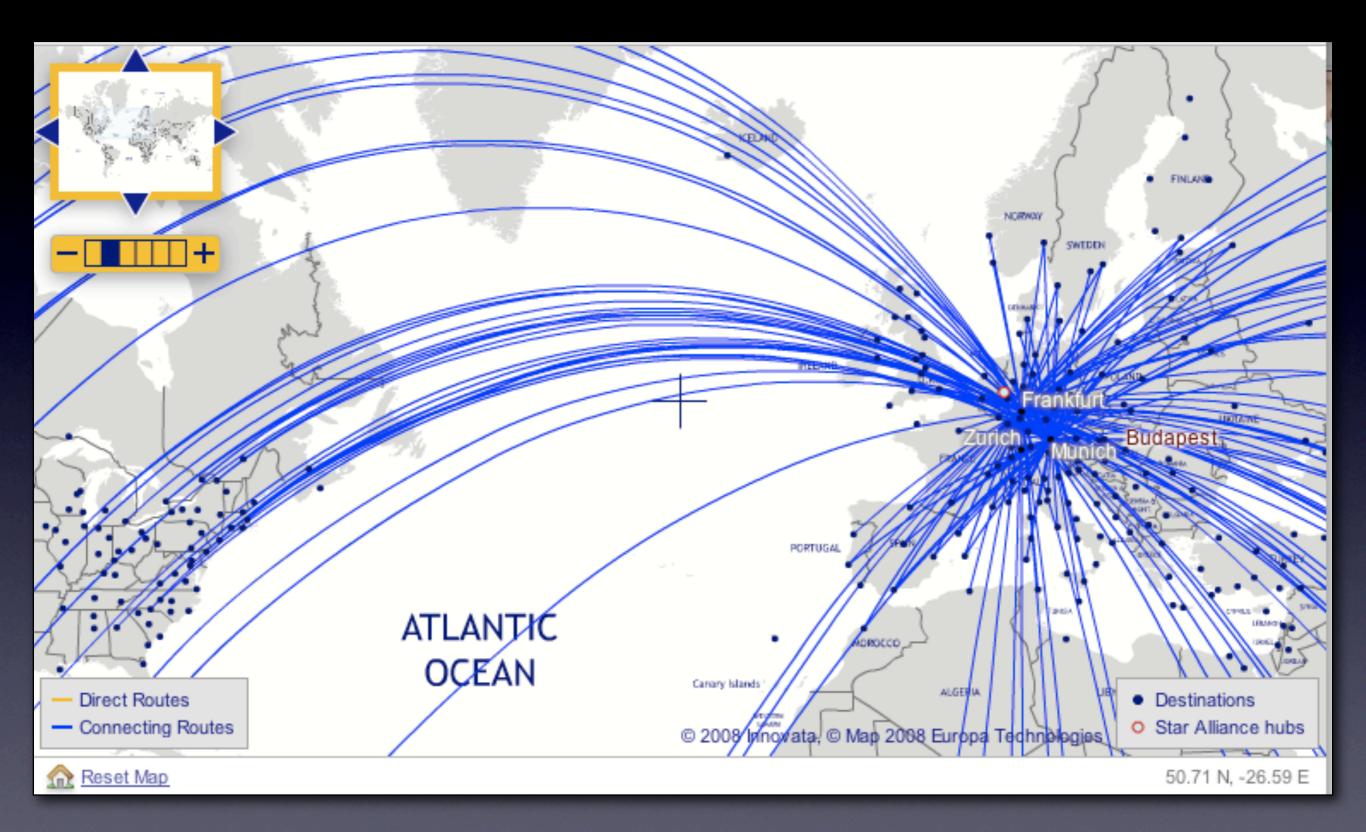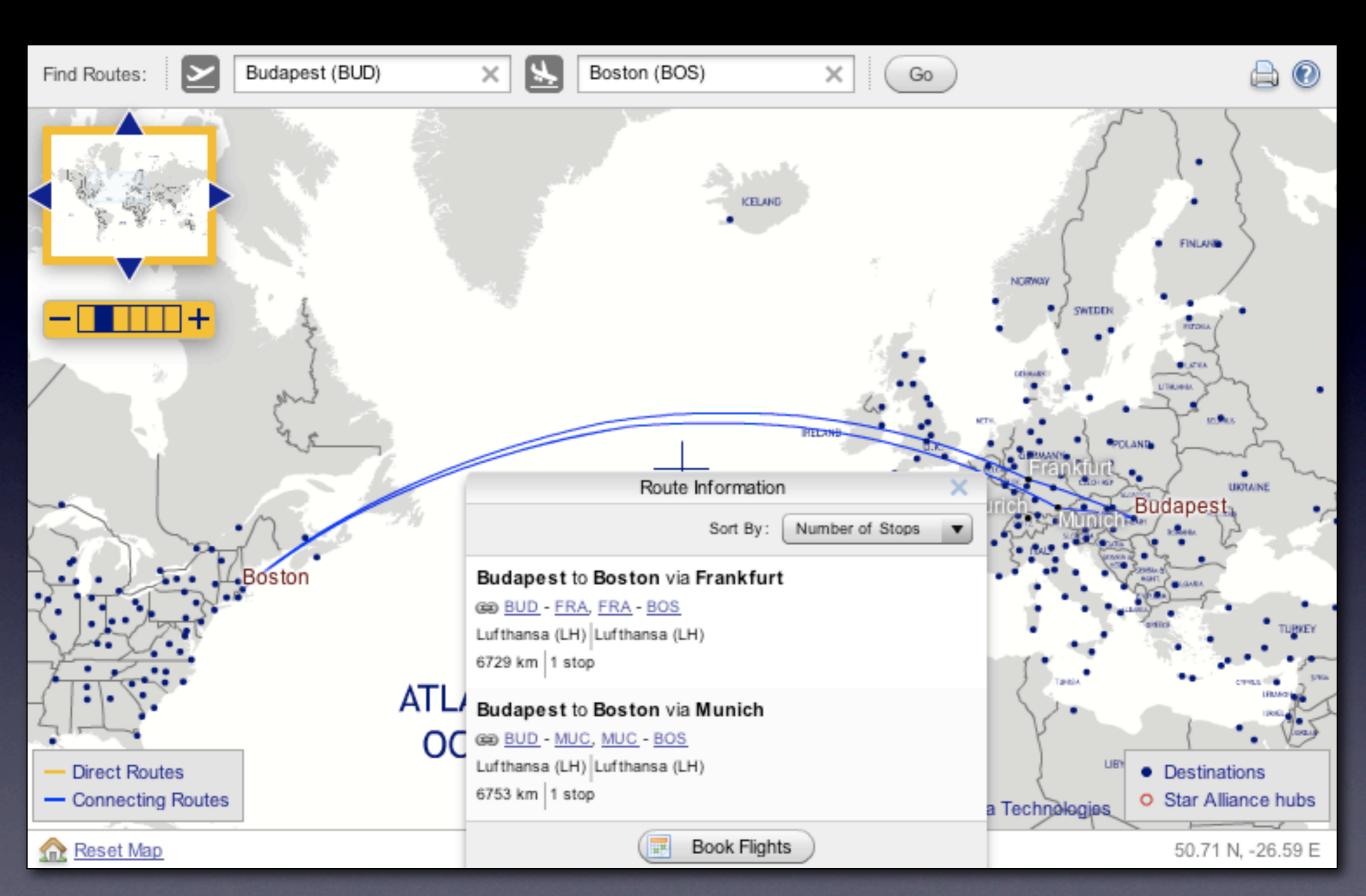
Can we intuit shipping routes from pirate attacks?
Live Pirate Map, *ICC/IMB 2008*

infrastructure maps: what could happen

flow maps: what does happen
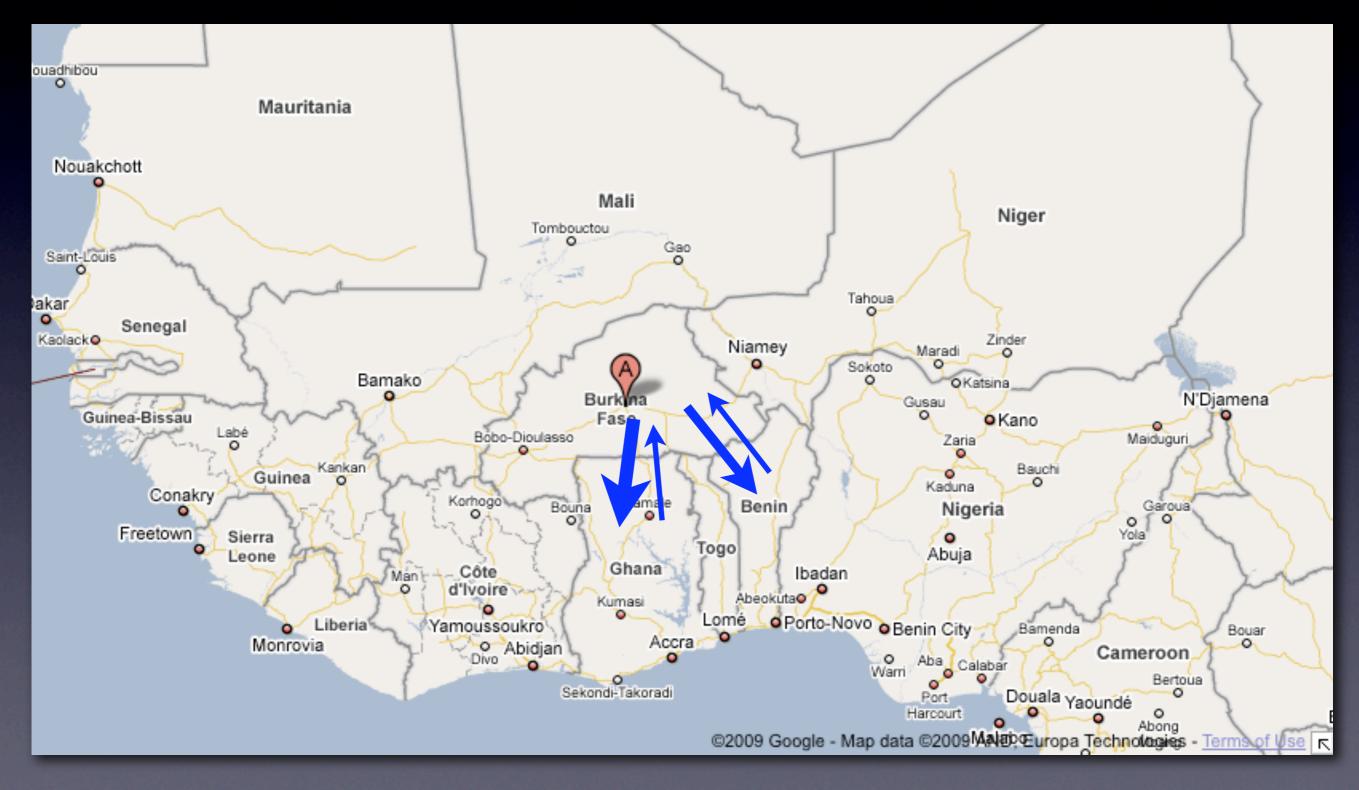
intent maps: what people actually want
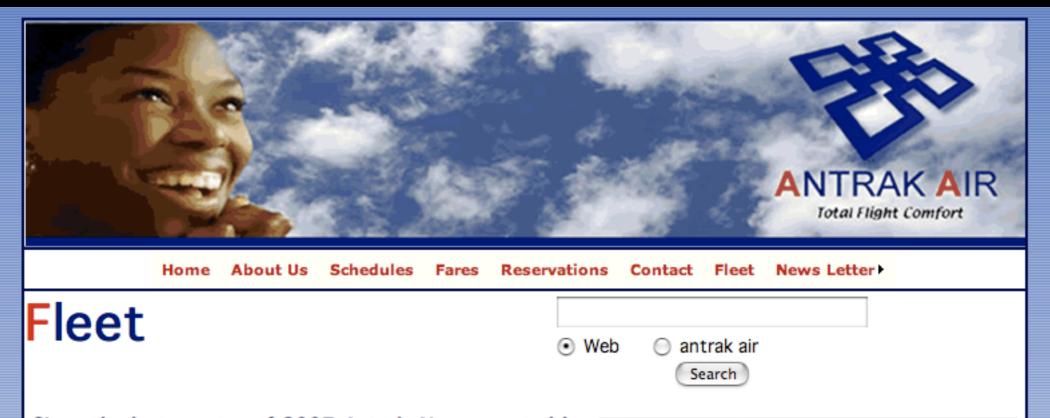
infrastructure means flow <> intent

infrastructure doesn't always match flow

understanding global flow is an opportunity
to build infrastructure, and to make money

Daniel Cohen
"Imaginary Globalization"

Cohen: global stuff blinds us to how local our economies actually are.

"The Friedman fallacy"

What else do we overestimate?

what would we learn from an atlas of connection?

made with the GeoCommons maker (geocommons.com)

healthmap.org - MIT/Harvard collaboration

photo by bass_nroll

photo by droïd

photo by metled_snowball
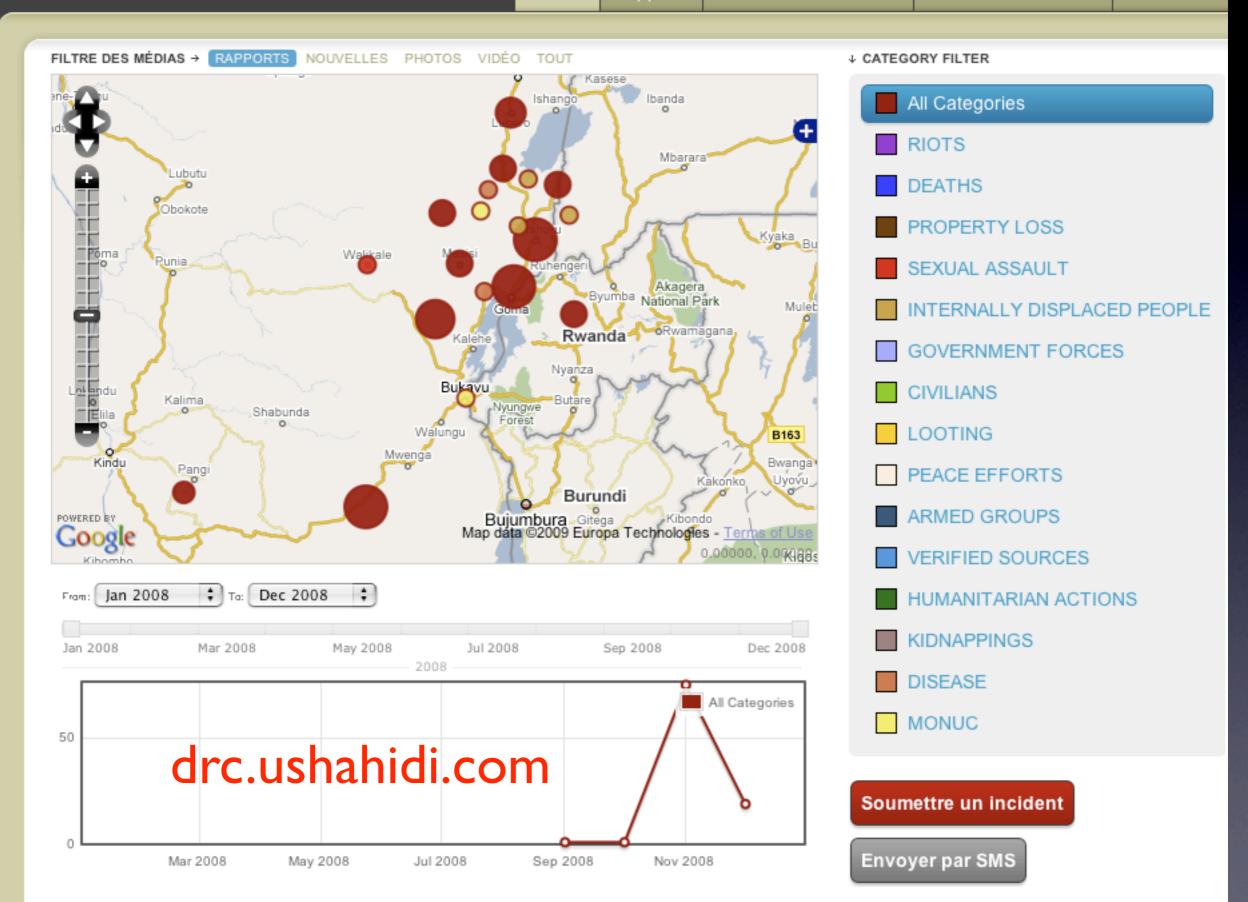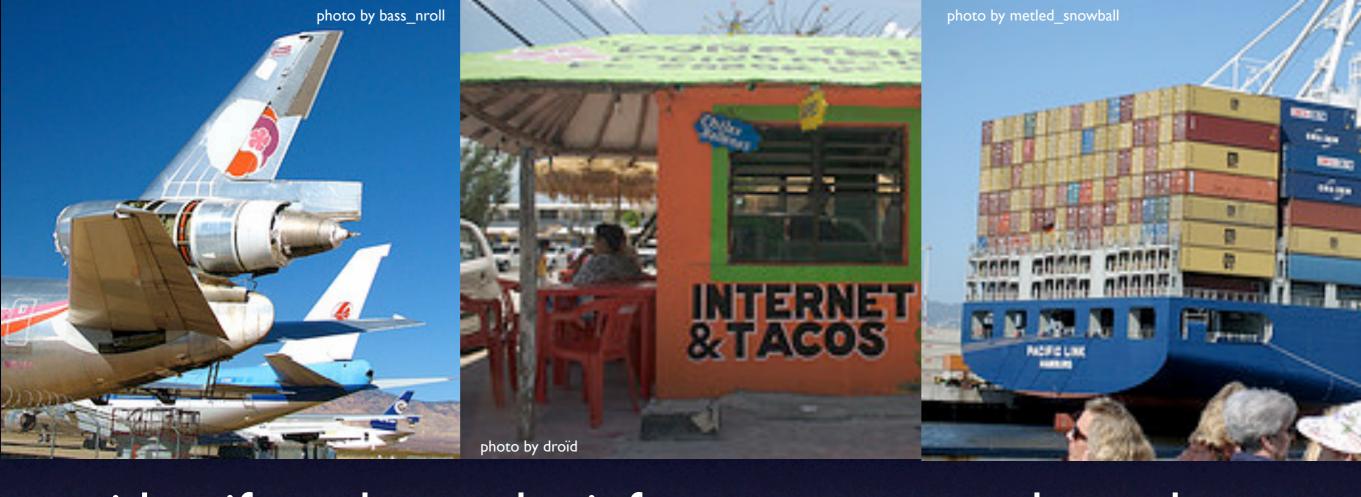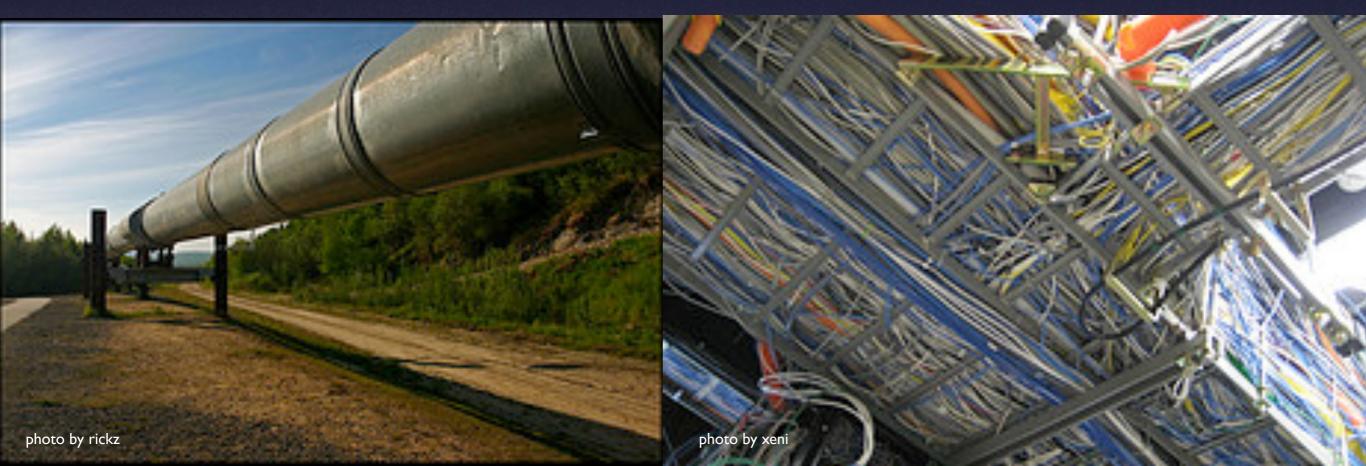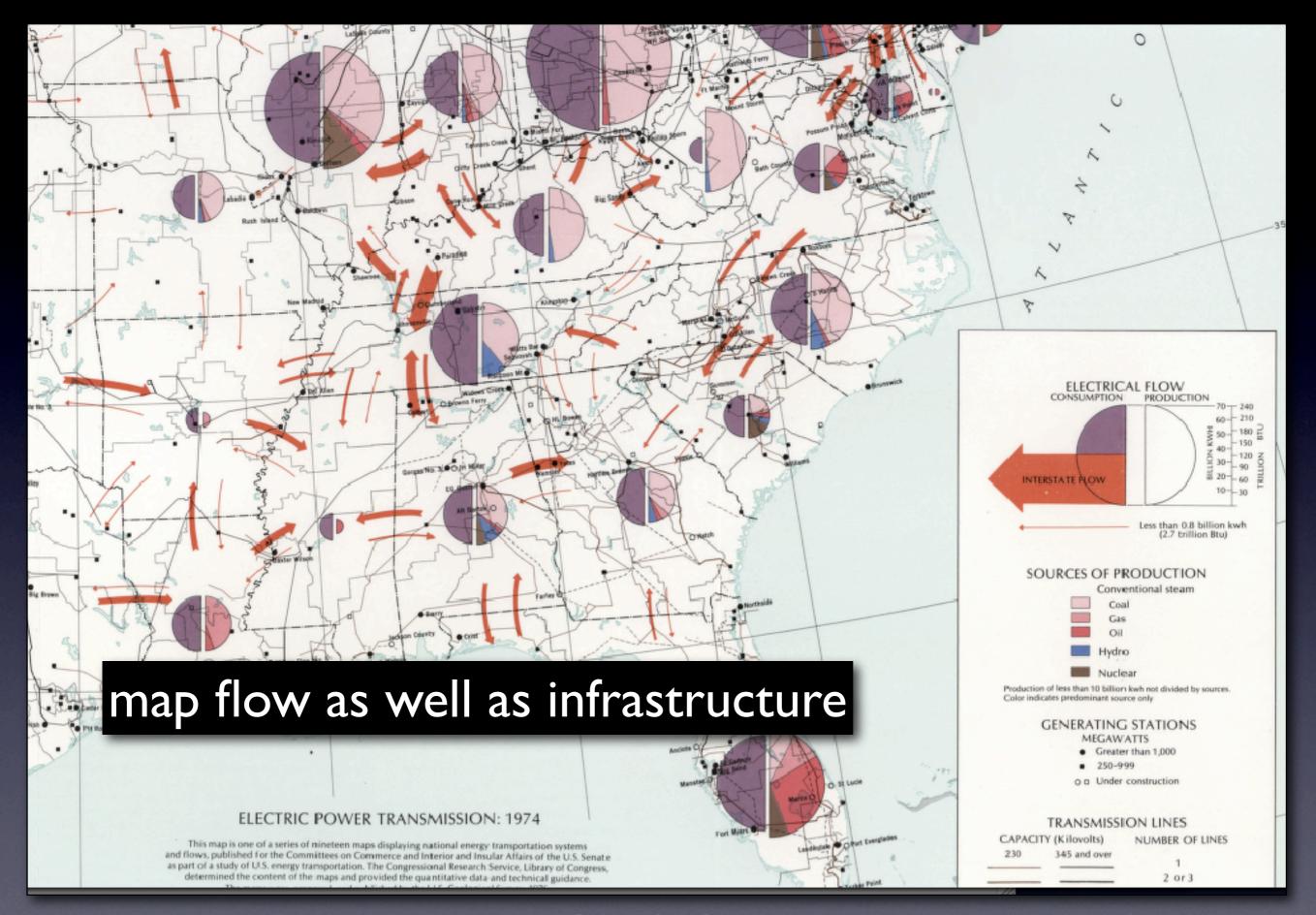
identify and map the infrastructures we depend on

photo by rickz

photo by xeni

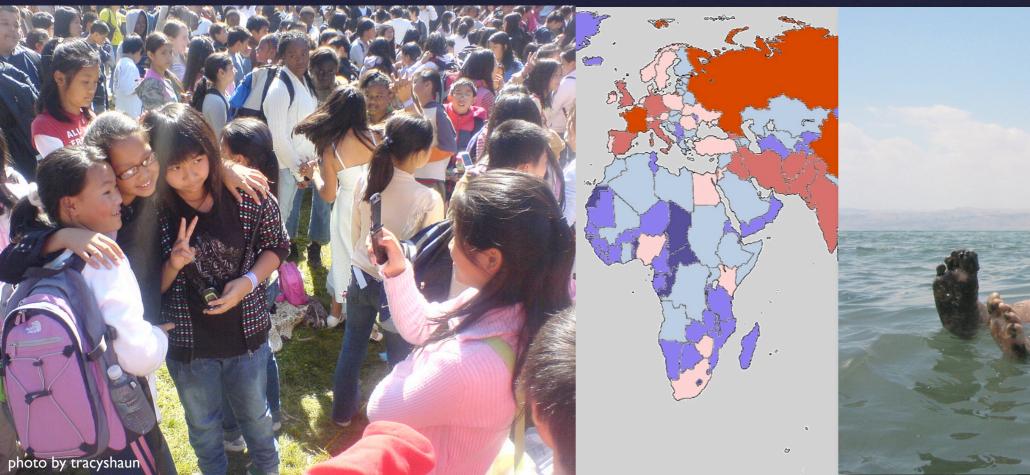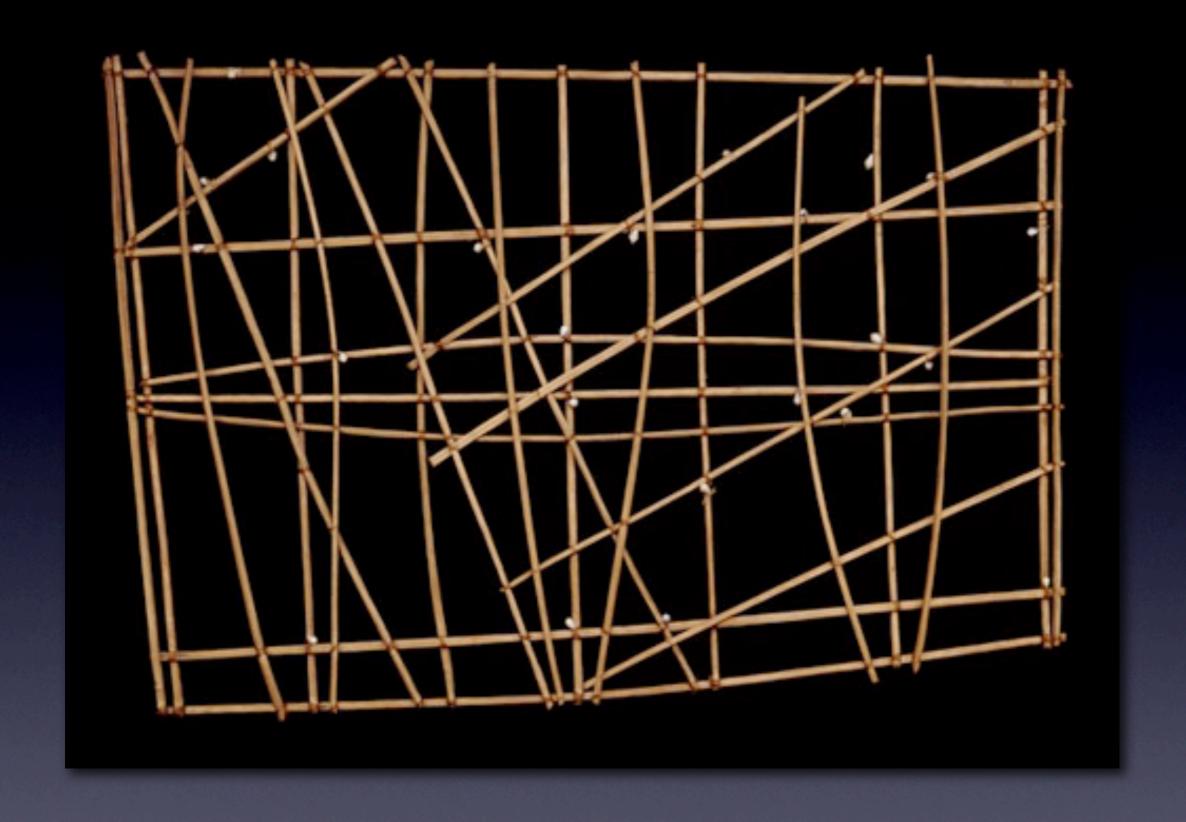map flow as well as infrastructure

Electric Power Transmission, 1974. Congressional Research Service.

map who and what we know, what we pay attention to

photo by tracyshaun

photo by inju

photo bysubpop77

what would an atlas of connection
tell us about ourselves?