

Welcome to the
UnDistinguished Lecture Series

What are we doing here?

- Grad students know about all sorts of cool stuff
- Grad students could use the extra push it takes to spend 30 minutes - an hour learning about something new and sharing it
- Sharing is caring
- Computer Scientists can't get enough practice doing public speaking

Who's next?

- Email me benjones@cs.utah.edu (or gradsac@cs) to sign up for a future week
- Hopefully we'll do this every Friday (except next week, which is our TGIF BBQ)
- Please don't make me pull teeth

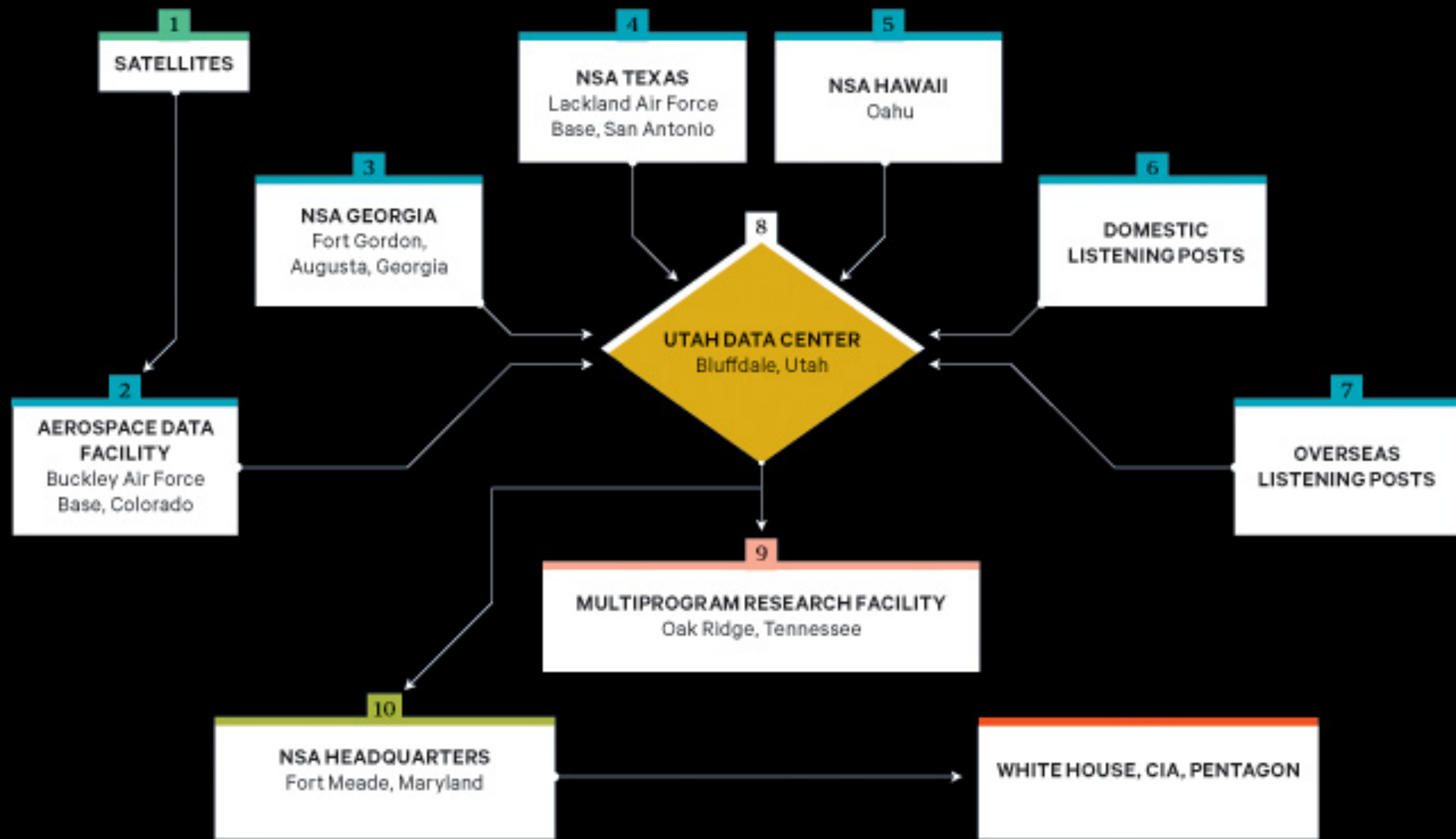
Without Further Ado



The Intelligence Community Comprehensive National Cybersecurity Initiative Data Center

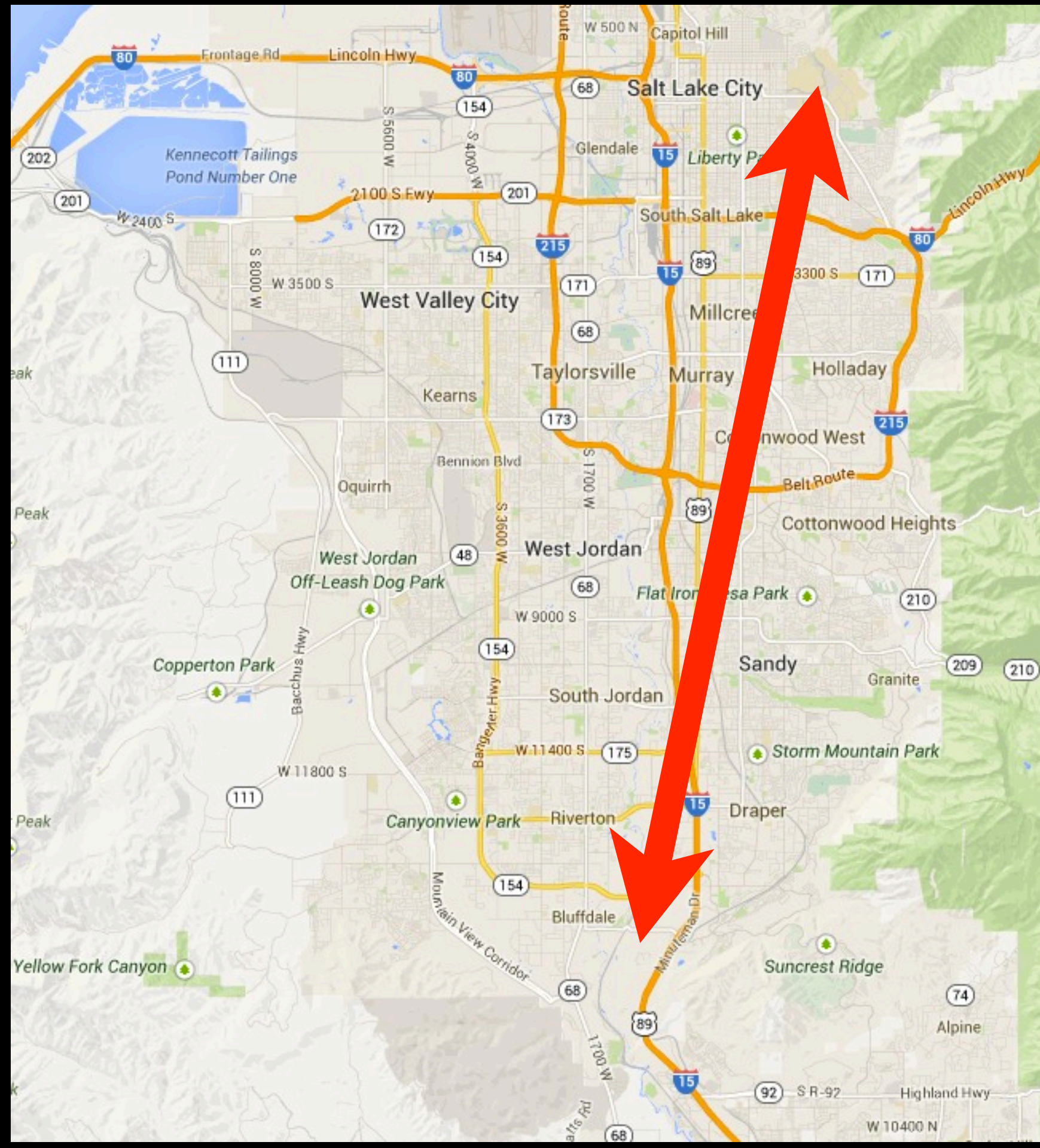
or

**What DropBox could be with
a huge budget and no morals**



Why should you care?

- If you use a phone or a network-connected computer, the NSA probably collects your data
- Gigantic datacenters aren't cheap to build or operate, and you probably pay US taxes
- Gigantic datacenters employ a lot of computer scientists



The lowdown



The unclassified/leaked lowdown

The data center is alleged to be able to process "all forms of communication, including the complete contents of private emails, cell phone calls, and Internet searches, as well as all types of personal data trails—parking receipts, travel itineraries, bookstore purchases, and other digital 'pocket litter'."

The deets

- 1 - 1.5 million sq. feet
- 10% of that datacenter, 90% administrative
- ~\$2B
- Scheduled to be completed in September
- Will require 65MW of power (~65000 homes worth of power)
- Will require 1.7M Gallons Water/day
- 3-12 exabytes of estimated storage

PRINCE



CONTROVERSY



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The NSA Routinely violates 4th Ammendment

- Read Glenn Greenwald's Guardian articles
- Read the recently (this week) declassified FISC opinion stating that the NSA acted unconstitutionally and lied to the courts about what it was doing
- Join/Support the Electronic Frontier Foundation (EFF) if this bothers you

Exclusive

The whistleblower



I can't allow the US
government to
destroy privacy
and basic liberties

the guardian

guardian.co.uk

Exclusive

The whistleblower



the US
t to
cy
ies

the Guardian

guardian.co.uk

I could talk all night about civil
liberties....

Let's move on



Cost Controversy

- Utah just passed a new tax on energy bills 6%
- This would cost the NSA an extra \$2.4M on their electricity bills
- The NSA bitched about it, Utah pols caved
- The datacenter will be exempt from the tax for at least 6 years
- The state misses out on \$2.4M in tax revenue/year

Some good could come from this

- They'll need a lot of CS type people
- The College of Engineering is starting a new degree in Data Center Management
- NSA helped develop the program/curriculum
- Given the huge number of datacenters around the world, having people who can help make the more efficient is probably a good thing
- Having good, government jobs in Utah is good for the economy
- Maybe it'll be weird when you have to read your neighbor's email though...

Conclusions

“I know the capacity that is there to make tyranny total in America, and we must see to it that this agency and all agencies that possess this technology operate within the law and under proper supervision, so that we never cross over that abyss. That is the abyss from which there is no return.” --
Frank Church, 1975

