DATA.GOV

Open Government Data
One Year Later

"Build to Share"

15 July 2010

U.S. Federal Data Architecture Subcommittee (DAS)

Agenda

◈ Origins

◈ Features of Data.gov

◈ Applications, Community, Semantic Web Highlights

◈ What's Next

◈ Summary

the BRIEFING ROOM   the AGENDA   the ADMINISTRATION

MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES

SUBJECT: Transparency and Open Government

Government should be transparent. Transparency promotes accountability and provides information for citizens about what their Government is doing. Information maintained by the Federal Government is a national asset. My Administration will take appropriate action, consistent with law and policy, to disclose information rapidly in forms that the public can readily find and use. Executive departments and agencies should harness new technologies to put information about their operations and decisions online and readily available to the public. Executive departments and agencies should also solicit public feedback to identify information of greatest use to the public.

"Information maintained by the Federal Government is a national asset."

President Obama
January 21, 2009

Unlocking the Wealth of Information

Set the information FREE!

The Issues

There are over 24,000 **.**gov web sites – difficult to navigate

Web sites organized under the federal structure
– difficult to find datasets

Data exists in portals – are not "raw" machine downloadable
or data locked in legacy systems

Web sites not designed for new generation
of web technologies

When the Department of Defense released its satellite data…

the market <u>created</u> affordable GPS devices!

◆ The Federal Government does not have a monopoly on information

- Democracy unleashes creativity

- Innovation drives sustainability

◆ **Datasets that:**

- **Are already in or ready for public domain**
- **Are high value**
- **Are hosted by the Executive Branch of the Federal Government**
  - **No Legislative or Judicial Branch datasets**
  - **No direct links to State, Local, or Tribal datasets**
  - **No non-governmental datasets**
- **Do not have copyright limitations**
- **Do not impose charges for access**
- **Do not require registration to access**

What is meant by 'raw' data

- **Machine readable**
- **Preference for structured datasets**
- **Preference for platform independent formats**
- **Data that can be used for secondary purposes**
- **Datasets that can be mashed-up with others (brought into context using lightweight web programming techniques and technologies)**
- **As 'raw' as possible (lowest level of aggregation, before analysis)**

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- **Preferred formats for 'raw' data:**
  - **XML**
  - **CSV/TXT**
  - **XLS**
  - **Keyhole Markup Language (KML/KMZ)**
  - **ESRI Shapefile**
- **Avoiding datasets in the following formats:**
  - **PDF**
  - **HTML (e.g., HTML tables containing data)**

- **Dataset continues to reside on agency's website**
- **Agency retains responsibility for authoritative source of data, including corrections and updates**
- **Agency retains responsibility for protecting personally identifiable information, information quality, and records retention**
- **Agency retains responsibility for impacts of Data.gov access on their site**

The First Year

- **Data.gov is a Federal Inter-Agency open government initiative that was chartered by the Federal CIO and is operated by GSA.**
- **Launched May 21, 2009: 47 Datasets**

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In just a <u>few hours</u> the public created an FBI most wanted app

In just a few weeks the public created several more


Public innovation translates to development $'s saved

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What Agencies Contribute

Datasets that can be used to:

- increase agency accountability and responsiveness;
- improve public knowledge of the agency and its operations;
- further the core mission of the agency;
- create economic opportunity; or
- respond to need and demand as identified through public consultation
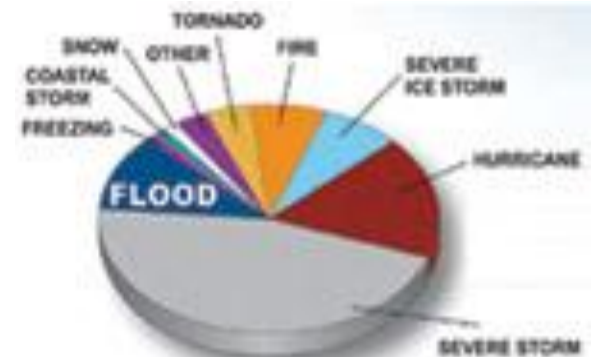
Veterans Affairs
Hospital Report Card

MyPyramid Food Data

FEMA Disaster and
Emergency Declarations

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Data.gov Features

Over Year Later

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See latest statistics on agency contributions, dataset suggestions and site visitors

Search Raw Datasets, Tools, Geodata Catalog

See datasets most popular to date

HOME   DATA ▾   TOOLS   COMMUNITY   METRICS   DIALOGUE

Most Popular Datasets

1. U.S. Overseas Loans and Grants (Greenbook)
2. Worldwide M1+ Earthquakes, Past 7 Days

HAPPY
1ST ANNIVERSARY
DATA.GOV

See state countries forming

Join the national dialogue and contribute ideas

See the latest in Data.gov semantic technology activity

See a list of apps developed using government datasets.

CATALOG

🔍 Search our catalogs..

‹ ❚❚ ›

APPS

National obesity comparison tool

COMMUNITY

Data.gov is leading the way in democratizing public sector data and driving innovation. ... data is being surfaced from many locations... making the Gov... researchers to... Developers are... datasets, provi... applications tha...

As the Web of linked documents evolves to ...clude the Web of ...ta, we're ...o maximize the ...of Semantic ...nologies to ...e promise of

SEMANTIC WEB

Search Raw Datasets, Tools, or Geodata Catalogs

Data.gov Features
Apps

◆ People from across the country and around the world are using government datasets to create applications and mashups: 237 and counting!

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◈ Using DOT data, FlyOnTime.us lets people find the most on time flights and shortest security line wait times

◈ Integrated to Twitter

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◈ Uses HHS community health data and shows obesity rates by county

◈ Supports the First Lady's fights against childhood obesity

http://public.tableausoftware.com/views/contributorsto obesity/Eatyourvegtables?:embed=yes&:toolbar=yes

• Data.gov is leading the way in democratizing public sector data and driving innovation.

• 6 Other nations establishing open data

• 10 States now offering Open data sites

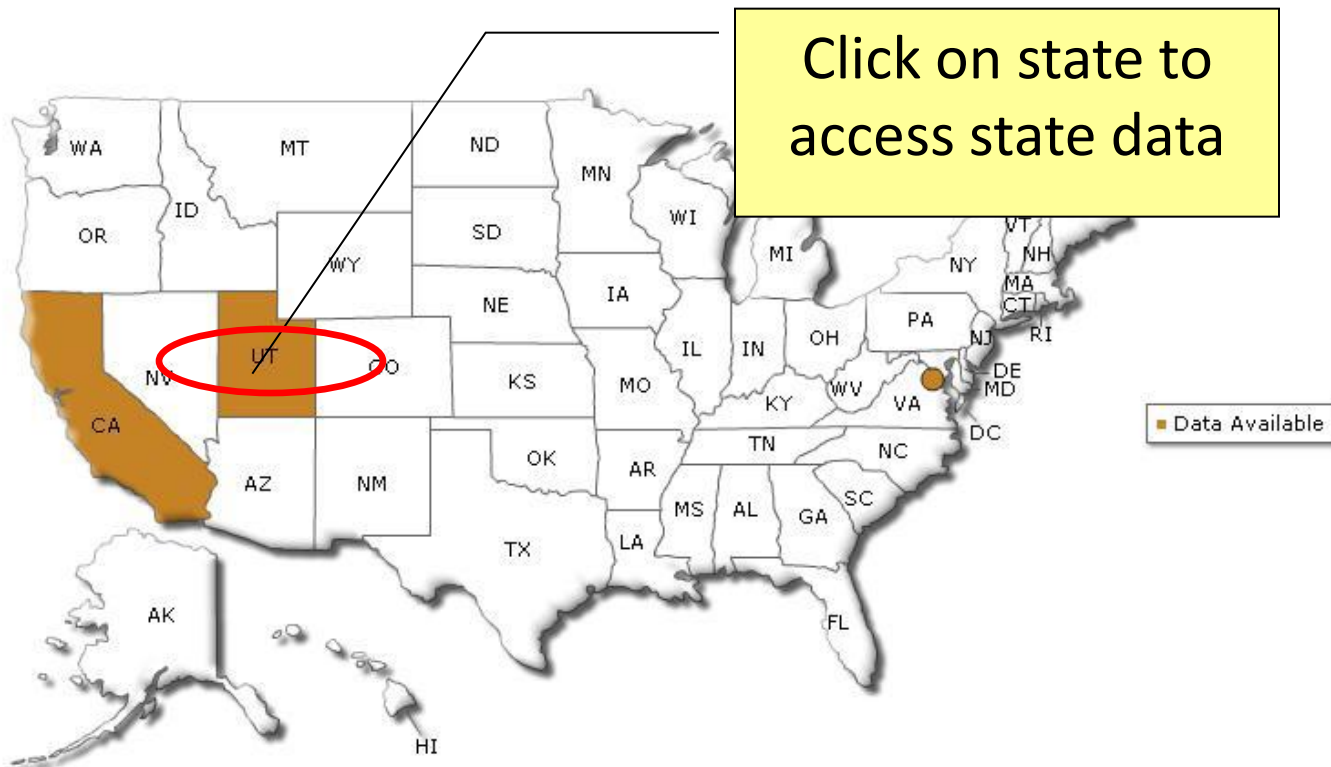• 10 Cities in America with open data sites

Access State and Local Specific Data

Access State and Local Specific Data

	A	B	C	D	E	F	G
		Utah - Statewide					
1							
2		**Occupational Wages**					
3							
4		**Hourly Wage Information by Occupational Title**					
5		**Published May, 2008**					
6							
7		Below is a summary of the wage estimates for the state of Utah, which are based on data gathered in May of 2007. Occupations are listed alphabetically along with the occupation code, which is a unique number assigned to each occupation. Wages for occupations in education are at the end of the wage table.					
8							
9		Wages are presented as: the Inexperienced Wage (the average of the bottom-third of all wages collected), Average Wage, Median Wage (which is the wage of the middle worker in the survey where half of the workers earned wages below the median and half above the median), and the Middle Range (which represents the wages of the middle fifty percent of workers in each occupation).					
10							
11		Questions may be addressed to Mark Knold (801) 526-9458, Chief Economist for the Utah Department of Workforce Services.					
12							
13			**Inexperi-**			**Middl**	**Range**
14	**Code**	**Title**	**enced**	**Average**	**Media**	**From**	**To**
16	13-2011	Accountants and Auditors	$18.13	$29.26	$26.03	$19.98	$34.95
17	27-2011	Actors	7.94	13.77	13.59	9.00	15.74
18	15-2011	Actuaries	25.53	42.11	34.66	27.69	49.66
19	23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	19.48	33.08	29.45	23.03	41.18
20	11-3011	Administrative Services Managers	21.68	32.65	30.49	24.12	38.94
21	25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	11.28	19.02	18.29	13.10	23.65
22	11-2011	Advertising and Promotions Managers	21.30	39.58	35.08	23.98	54.04
23	41-3011	Advertising Sales Agents	12.53	24.26	19.26	14.54	33.84
24	17-3021	Aerospace Engineering and Operations Technicians	17.25	23.89	23.82	20.03	28.06
25	17-2011	Aerospace Engineers	30.32	38.64	38.65	32.64	45.08
26	19-4011	Agricultural and Food Science Technicians	12.33	16.65	16.69	13.71	18.83
27	45-2091	Agricultural Equipment Operators	10.22	12.37	11.32	10.22	14.36
28	45-2011	Agricultural Inspectors	13.18	17.68	17.10	14.14	20.81
29	53-1011	Aircraft Cargo Handling Supervisors	10.66	14.73	13.14	11.30	16.80
30	49-3011	Aircraft Mechanics and Service Technicians	19.08	23.85	23.30	20.36	27.71
31	51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	12.64	17.98	18.61	14.32	21.41
32	53-2022	Airfield Operations Specialists	12.36	17.40	16.96	13.76	19.61
33	39-3091	Amusement and Recreation Attendants	6.42	7.97	7.47	6.43	9.06

THE OFFICIAL WEBSITE FOR THE STATE OF UTAH

Subscribers | 24/7 Help | Font Size: A A A

GOVERNMENT   RESIDENTS   VISITORS   BUSINESS   EMPLOYMENT   EDUCATION   ABOUT   ONLINE SERVICES

State Data Sources

Larger sources of state data which allow you to access, query and download in dozens of categories.

View State Data Sources

Local Data Sources

Data.Utah.gov will help you find and access data from local government sources in Utah.

View Local Data Sources

Geographic Data Sources

KML files can be used to create maps with popular mapping tools. See some examples.

View Geographic Data Sources

External Data Sources

Utah data is also available from external sources like the Federal government.

View External Data Sources

RELATED LINKS & RESOURCES

Utah Data
State Data Files
State Data Sources
Local Data Sources
Data Visualizations
Geographic Data Sources
External Data Sources
Swivel Utah Data Group

Follow Data.Utah.gov
For immediate notification when new data becomes available,follow UtahData on Twitter.

More Data Sources
Federal Data Sources
Other State and Local Data Sources

Your Feedback
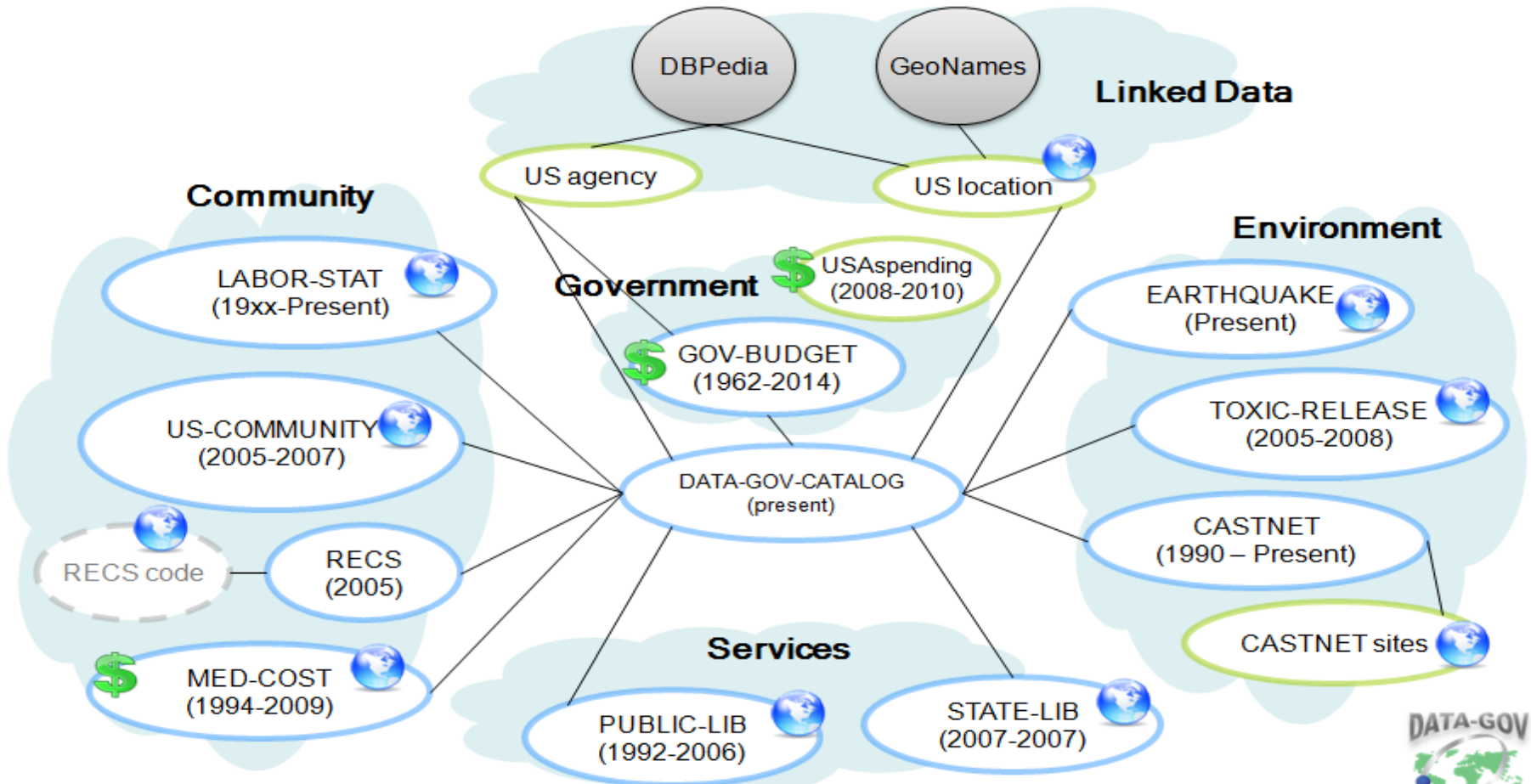Was the information on this page helpful?
○ Yes ○ No

If not, what were you looking for?

Submit

Please note, your feedback will be reviewed, but not responded to. If you would like

Li Ding and Jim Hendler · Tetherless World Constellation · Rensselaer Polytechnic Institute · Oct 2009 · http://data-gov.tw.rpi.edu/

Running on Data.gov are a set of government-related demonstrations at RPI showing how these RDF datasets can be used to build interactive visualizations using various popular visualization API's

Innovations at RPI

Running on Data.gov are a set of government-related demonstrations, originally created by a **team of developers** at the **Tetherless World Constellation** at **Rensselaer Polytechnic Institute (RPI)**, which show how these RDF datasets can be used to build interactive visualizations using various popular visualization API's. You can run the demonstrations here, served by our **SPARQL endpoint** that is powered by the **Virtuoso** linked data server. These demonstrations are also linked to pages at RPI that explain how they function and provide examples that you can cut and paste to build your own demos.

Clean Air Status and Trends Network (CASTNET)
TThis map shows the ozone levels across the U.S. Clicking on a dot brings up detailed information about the ozone measurements for that area over time. The ozone values shown are taken from **dataset 8**, "Clean Air Status and Trends Network (CASTNET); Ozone" released by the Environmental Protection Agency. The faceted browsing in this demo uses the **Exhibit framework** developed by the Simile Project at MIT.

Public Company Bankruptcy Cases Opened and Monitored for Fiscal Year 2009
This demonstration shows public company bankruptcies for fiscal year 2009 based on **dataset 1580** released by the Securities and Exchange Commission . The map shows the ratio of total debt over assets from all bankrupt cases at each state level. Clicking on a state displays details of those public companies that filed bankruptcies within this state, e.g. the company name, assets, and liabilities.

Metrics

- Federal Agency Participation at Data.gov

- Suggested Dataset Stats

- Visitor Stats

DATA.GOV
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FEDERAL AGENCY   SUGGESTED DATASETS   VISITOR STATS

Federal Agency Participation at Data.gov

This report is also available for download in the following formats: CSV XLS

* These numbers represent the number of times a user has clicked on the "XML" or "CSV" (for example) links in the Raw Data Catalogs to download datasets and user downloads of tools in the Tool Catalog available in these categories.

Data last updated on 06/10/2010 12:02 AM EDT.

Departments/Agencies

Agency/Sub-Agency	Raw Datasets (high-value)	Tools (high-value)	Geodata	Total	Latest Entry	# of times downloaded within the last week*
Department of Agriculture (USDA)	6 (3)	12	1	19	05/19/2010	298
Department/Agency Level (USDA)	1	4	0	5	12/10/2009	107
Agricultural Research Service (ARS)	1 (1)	2	0	3	05/19/2010	68
Economic Research Service (ERS)	1 (1)	4	0	5	05/19/2010	48
Food and Nutrition Service (FNS)	2	0	0	2	05/19/2010	17

Visitors
(May 21, 2009 – January 31, 2010)

Top 10 State Visitors	Top 10 Nation Visitors	Top 5 Redirects
California	United Kingdom	DOD
District of Columbia	Canada	U.S. EPA
Texas	Russia	Interior
New York	Germany	HHS
Virginia	Spain	Labor
Illinois	France	
Georgia	Japan	
Florida	Australia	
Washington	Switzerland	
Pennsylvania	Netherlands	

Year to Date # of Visitors: 1,546,997

Visitors in January 2010: 305,913

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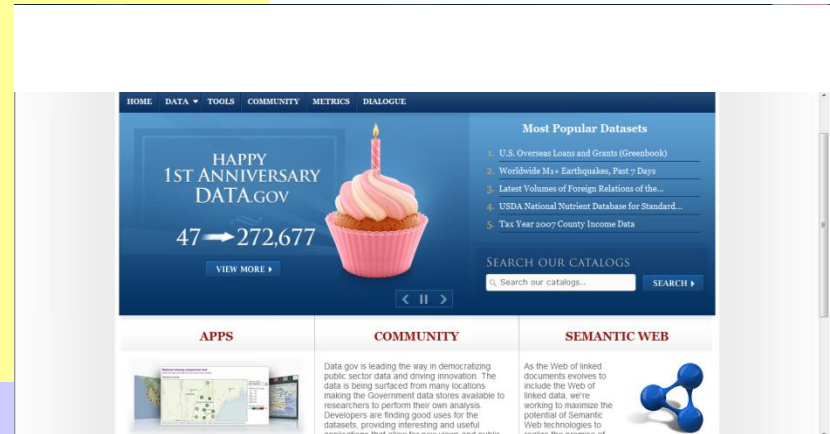
• Encouraging the community to share ideas for Data.gov

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DATA.GOV

- Vote on your favorite ideas
- Some of the higher rated ideas have been implemented

What's Next

- Year one focused on discovery of government datasets
- In addition to providing more datasets, year two will focus on:
  - Evolving the application of semantic technologies
  - Showcase more apps
  - Improving communication with suggested datasets
  - Geo visualizations
  - Building communities with:
    - Developers
    - Educators
    - Students (K-12 and universities)
    - Private industry
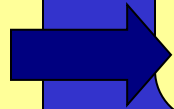   - International

Summary

Challenge :

Making Data Available

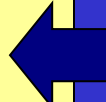**Solution:**

Democratize Data using DATA.gov

Tap the Ingenuity of the American People

Creating:

Transparent Open Government

Questions

U.S. Federal Data Architecture Subcommittee (DAS)

Contact info:
<u>Suzanne Acar</u>:
Co-Chair, Federal Data Architecture Subcommittee, and
FBI Senior Data Architect
E-mail: <u>suzanne.acar@ic.fbi.gov</u>