National Sunshine Week – *Strengthening Transparency through Open Data and Access to Information*

March 15, 2017

We ingest and disseminate data

- Customers use our data to make business decisions. It reveals a landscape.
- We currently provide data in bulk, forcing inventors to sift or even abandon the pursuit.
- Leads to more informed applicants to the USPTO - more time being inventive less time searching for our data.

We want to do more…

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USPTO Open Data U.S Patent data is the leading indicator of R & D and Innovation

- From “Shoes” (paper files), we have come a long way.
- Our initiative has several aspects, all designed to make our data on the innovations of the U.S. accessible and understandable.
- Demand for information is not going away.
- Opportunity to encourage innovation and grow the economy with what we do.
- So that our data can inspire, be useful, spur innovation and create conversations.

https://www.uspto.gov/learning-and-resources/open-data-and-mobility

How we are opening data?

- Releasing new data search & download interfaces, instead of bulk, will lesson the drain on our systems.
- Releasing in more accessible ways to the public - Application Program Interface or *API's* to improve access to our data.
- Breaking down silos by combining USPTO data and economic data creates new insights and basis for public policy efforts.

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INNOVATE

PROMOTE DATA USE

Not just opening data…

USPTO Home Page > PTMT Home

Calendar Year Patent Statistics (January 1 to December 31)
General Patent Statistics Reports Available For Viewing

The Patent Technology Monitoring Team (PTMT) periodically issues general statistics and miscellaneous reports that profile patenting activity at U.S. Patent and Trademark Office (USPTO). Several PTMT reports are free while some other products and services are available at reasonable co Specialized services and custom reports also may be available subject to the availability of resources. For a detailed description of available PTMT products and services, please consult the PTMT Products and Services Brochure.

Notes for Users

- PTMT reports display patent statistics and data by calendar year (1 January to 31 December).
- For most users, reports displaying utility patent statistics will be the ones of interest - utility patents are also known as "patents for invention
- Reports that have a PDF file extension (e.g., "topo_15.pdf") may be viewed using free Adobe ® Acrobat ® Reader software.
- Listed drill-down reports are indicated with an asterisk (*).
- **The most recently updated PTMT reports include data for patents granted through 2015.**

Table of Contents

- General Patent Statistics Reports Available for Viewing, By Report Category
  - General Overview Reports - By Type of Patent Document
    - Patenting of Ornamental Designs (Design Patents)
  - By Geographic Origin
    - By U.S. Metropolitan Area, Micropolitan Area,
  - By Patenting Organization
  - By Patented Technology
  - By Ownership Location and Domestic Inventor Share
  - By Industry-Based Category or Product Field (NAICS
  - By Inventor
  - Historical and Extended-Year Statistics
  - Miscellaneous Tables, Reports, and Other Materials

Home > Listing of Viewable PTMT Reports > Table of Contents for This Set of Reports

U.S. PATENT AND TRADEMARK OFFICE
Patent Technology Monitoring Team (PTMT)

U.S. Resident Inventors and Their Utility Patents Breakout by State Regional Component

Count of 2000 - 2015 Inventors and Their Patents
As Distributed By Calendar Year of Patent Grant

- Explanation of Data -

Inventors Residing In

MASSACHUSETTS

And a Rank Ordered Listing of the Inventor Residence
Locations by Regional Component (e.g., County)

(inventor residence corresponds to residence at the time of grant)
(an inventor having multiple patents is counted multiple times, once for each patent)
(A single patent with multiple inventors is counted multiple times, once for each inventor)
(counts may not sum exactly due to rounding - see Explanation of Data)

This table displays regional components (e.g., counties) of the profiled area and counts of resident inventors and their utility patents; coun

FIPS Code	Mail Code	State or Territory	Regional Area Component	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
25017	MA	MASSACHUSETTS	Middlesex County	3978	4368	4313	4808	4750	4113	5314	4590	5023	5296	7156
25021	MA	MASSACHUSETTS	Norfolk County	1031	1162	1049	1204	1061	939	1160	1096	1090	1099	1498
25025	MA	MASSACHUSETTS	Suffolk County	759	808	835	927	925	797	1023	931	1040	1045	1432
25027	MA	MASSACHUSETTS	Worcester County	888	866	874	950	968	823	1111	1028	1049	1193	1511
25009	MA	MASSACHUSETTS	Essex County	706	839	850	957	938	816	976	830	866	958	1315
25005	MA	MASSACHUSETTS	Bristol County	313	305	348	321	419	278	434	350	311	286	424
25023	MA	MASSACHUSETTS	Plymouth County	190	214	206	217	177	169	193	211	166	227	316

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Bulk Data Storage System (BDSS) Version 1.1.0

Patents | Patent Applications | Additional Patent Information | Trademarks | Research Datasets

2017 Terms and Conditions
2017 Bulk Data Product Chart
2017 Bulk Data Product Descriptions

ISSUED PATENTS (PATENT GRANTS)

[Top]
Patent Official Gazettes (JUL 2, 2002 - PRESENT)
Contains bibliographic (front page) information, a representative claim, and a drawing (if applicable) of each patent grant issued that week. Includes U.S. Patent and Trademark Office Notices which provide important information and changes in rules concerning both patents and trademarks.
Patent Official Gazettes (JAN 2017 - DEC 2017)
Patent Official Gazettes (JAN 2016 - DEC 2016)
Patent Official Gazettes (JAN 2015 - DEC 2015)
Patent Official Gazettes (JAN 2014 - DEC 2014)
Patent Official Gazettes (JAN 2013 - DEC 2013)
Patent Official Gazettes (JAN 2012 - DEC 2012)
Patent Official Gazettes (JAN 2011 - DEC 2011)
Patent Official Gazettes (JAN 2010 - DEC 2010)

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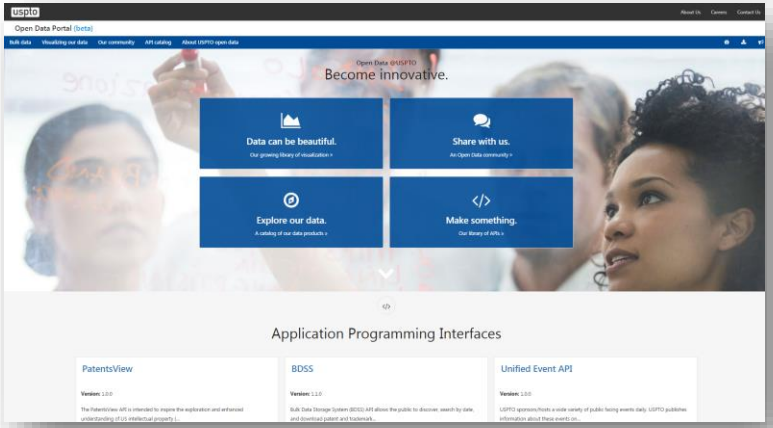
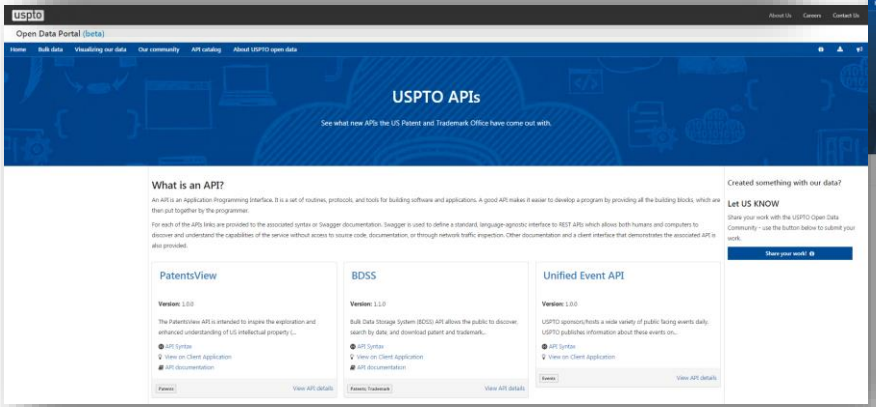
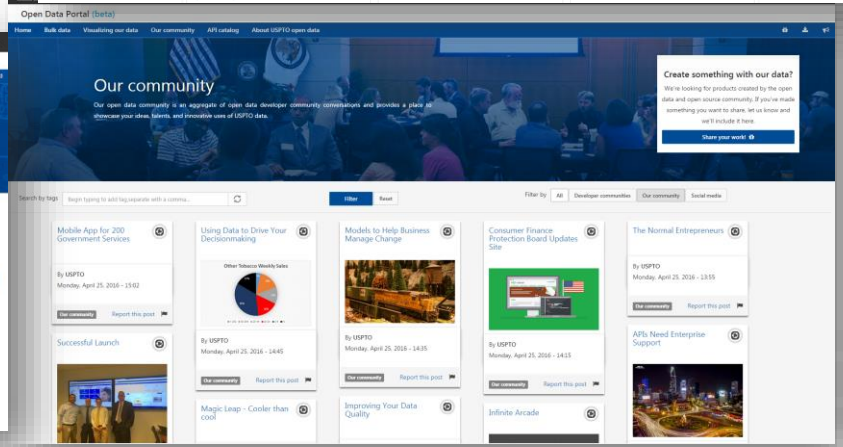
But creating a “platform strategy”

Developer Hub USPTO



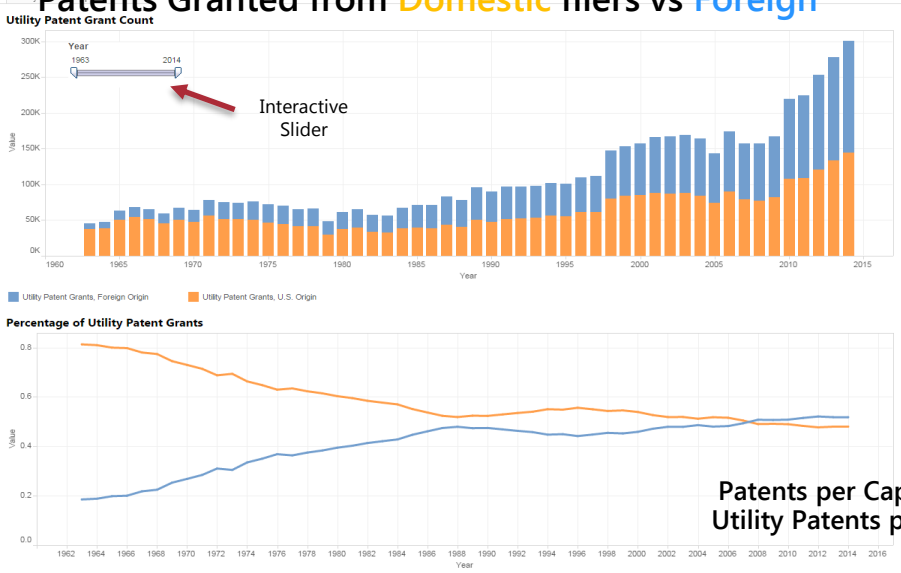




https://developer.uspto.gov/

Examples of the Power of Story Telling with USPTO Data and Economic Data

Patents Granted from Domestic filers vs Foreign

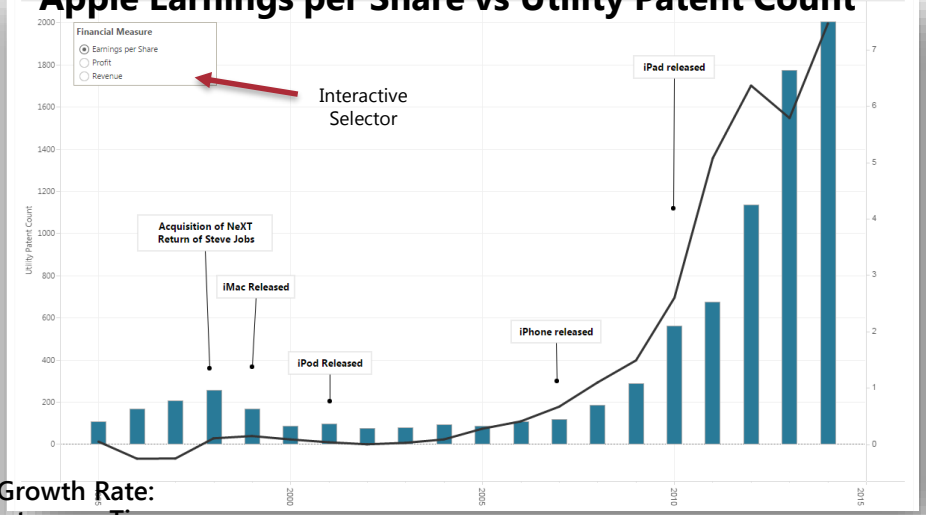


Utility Patent Grant Count of Foriegn Origin vs U.S. Origin:
This visual shows the yearly number of grants for utility granted since 1963. Utility patent counts are divided into U.S. and foreign origin (updated annually).

Data sources for counts of patent grants:
1963 - present, utility patents : TAF database

Percentage of Utility Patent Grants:
This visual displays the percent variation between Utility Patent Grants of Foreign Origin and U.S. Origin since 1963 to Present. This visual is dynmaic as data in the Utility Patent Grant Count are highlighted.

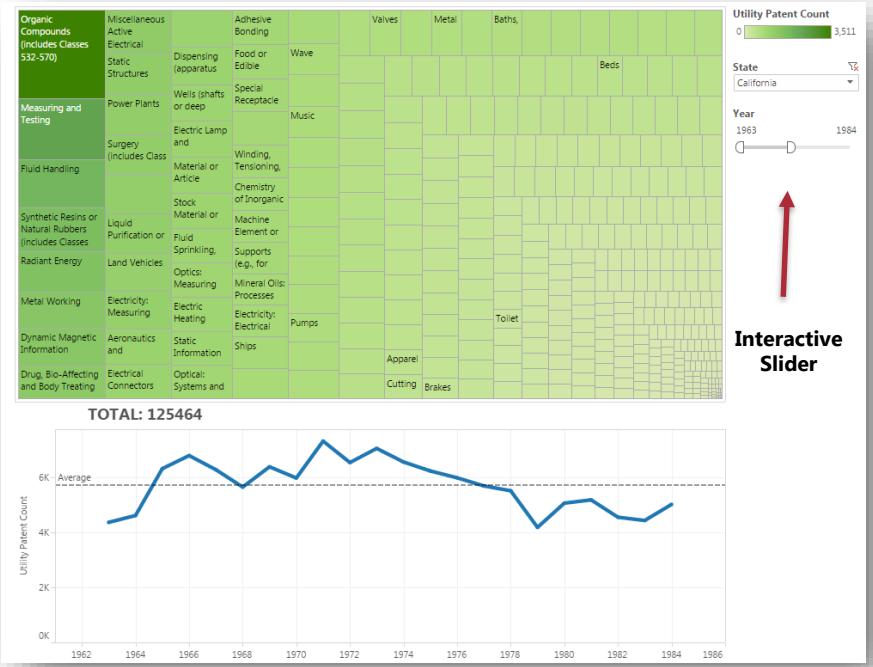
Apple Earnings per Share vs Utility Patent Count



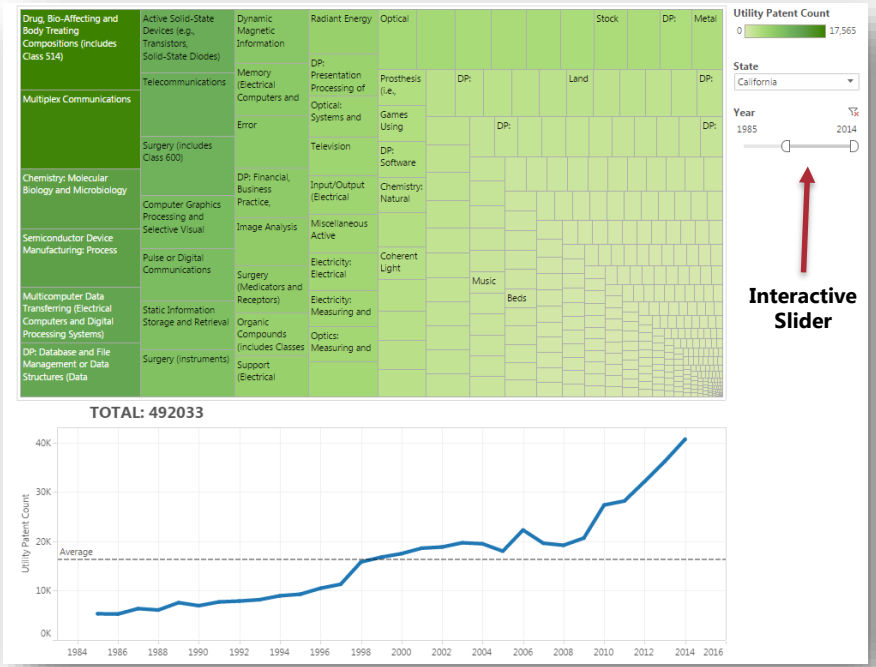
Patents per Capita, Growth Rate:
Utility Patents per State over Time

Highest number of Granted Patents by Technology in California

1963-1984

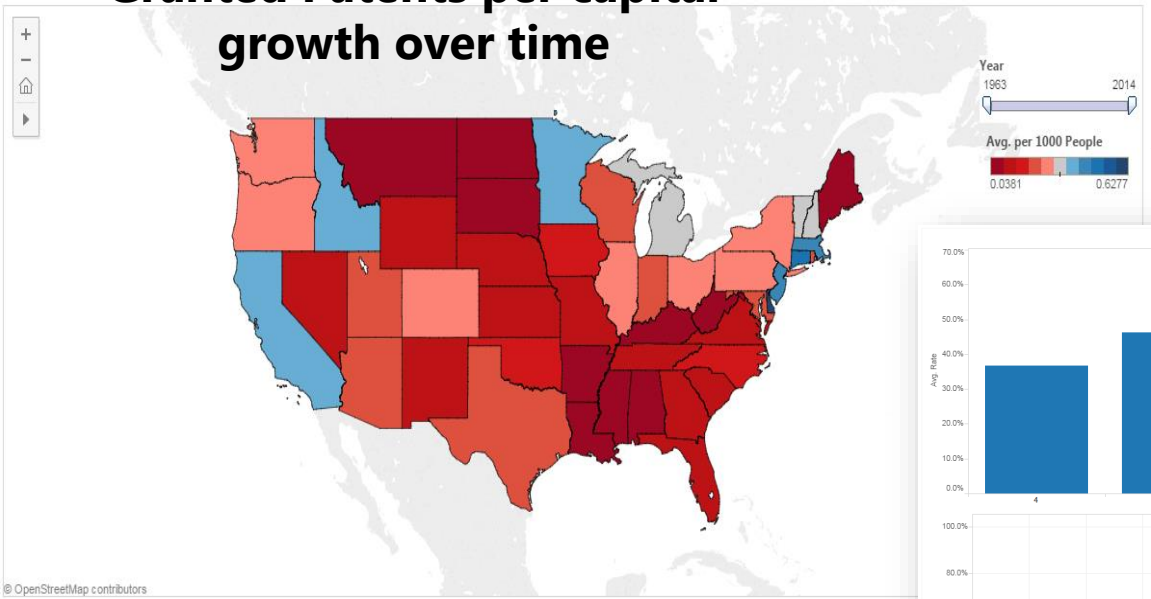


1985-2014



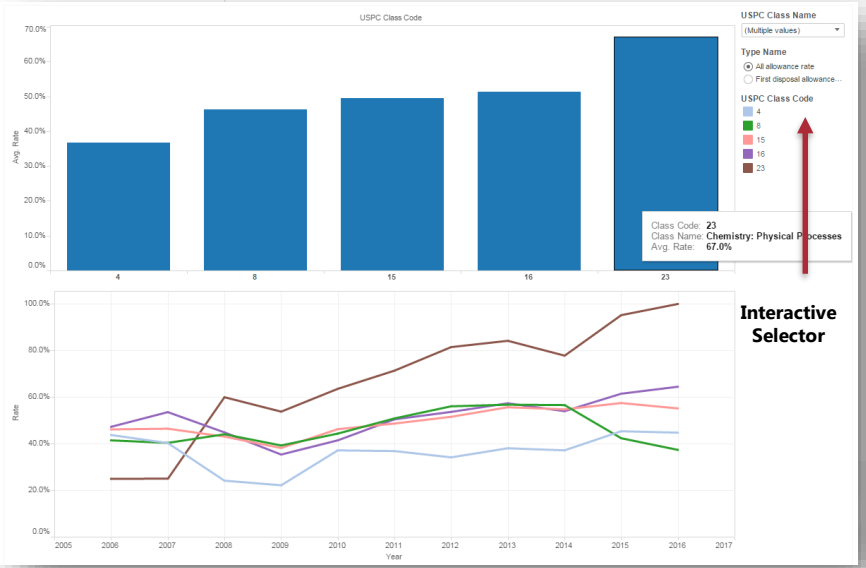
Open Data Insights

Most Innovative States: Granted Patents per capital growth over time



Patents per Capita, Growth Rate: 1963 - 2014

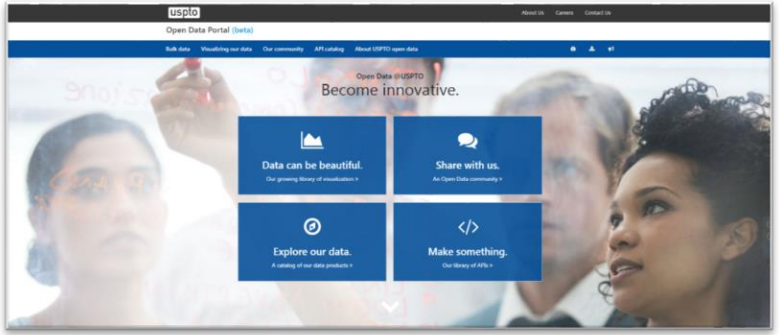
Allowance Rate for selected USPC classifications



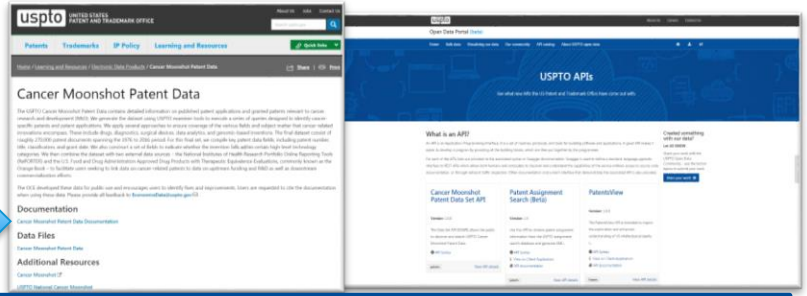
Interactive Selector

The team effort – Cancer Moonshot

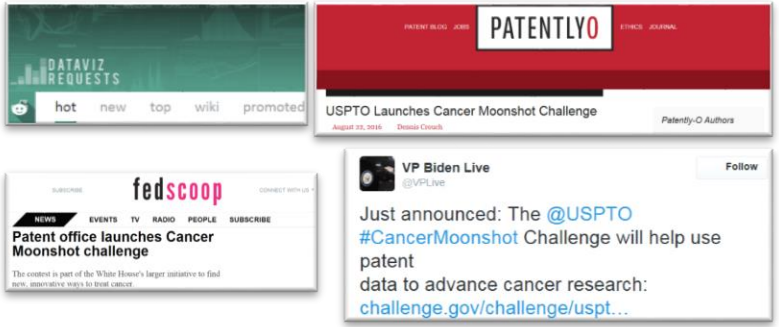
Highlight the importance of Patent Data to guide policy and research



CIO updated developer Hub to support effort



OCE & Open Data team curated dataset and CIO developed API

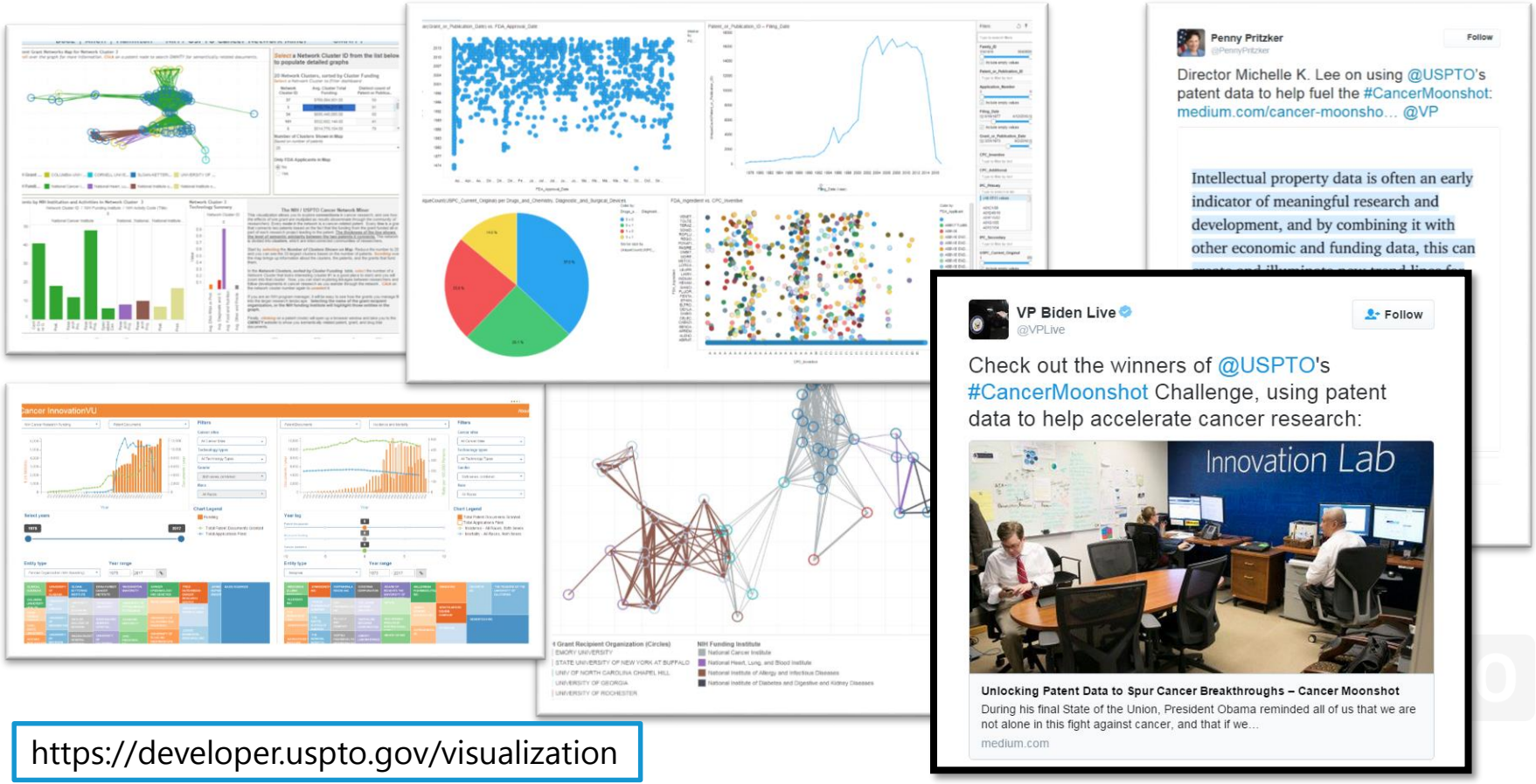


Office Chief Economist (OCE) sponsored workshop & Chief Communication Office promoted event

Office of General Council assisted in 1st USPTO use of Competes Act

The results

Received 19 interactive submissions publically shared via Developer Hub



https://developer.uspto.gov/visualization

Next Steps

*"Continue to evangelize the importance of **patent data** to the public and to our employees"*

Support Demand Driven Data

- Develop new curated data sets & engage with the public/private sector

Develop new ways to access that data

- Innovate new capabilities, i.e. API "factory" - USPTO is a leader in data innovation

Seek out additional outreach opportunities

- Open Data leads to better informed applicants which leads to better quality applications
- Support constructive and useful data sets – know your data "identity"

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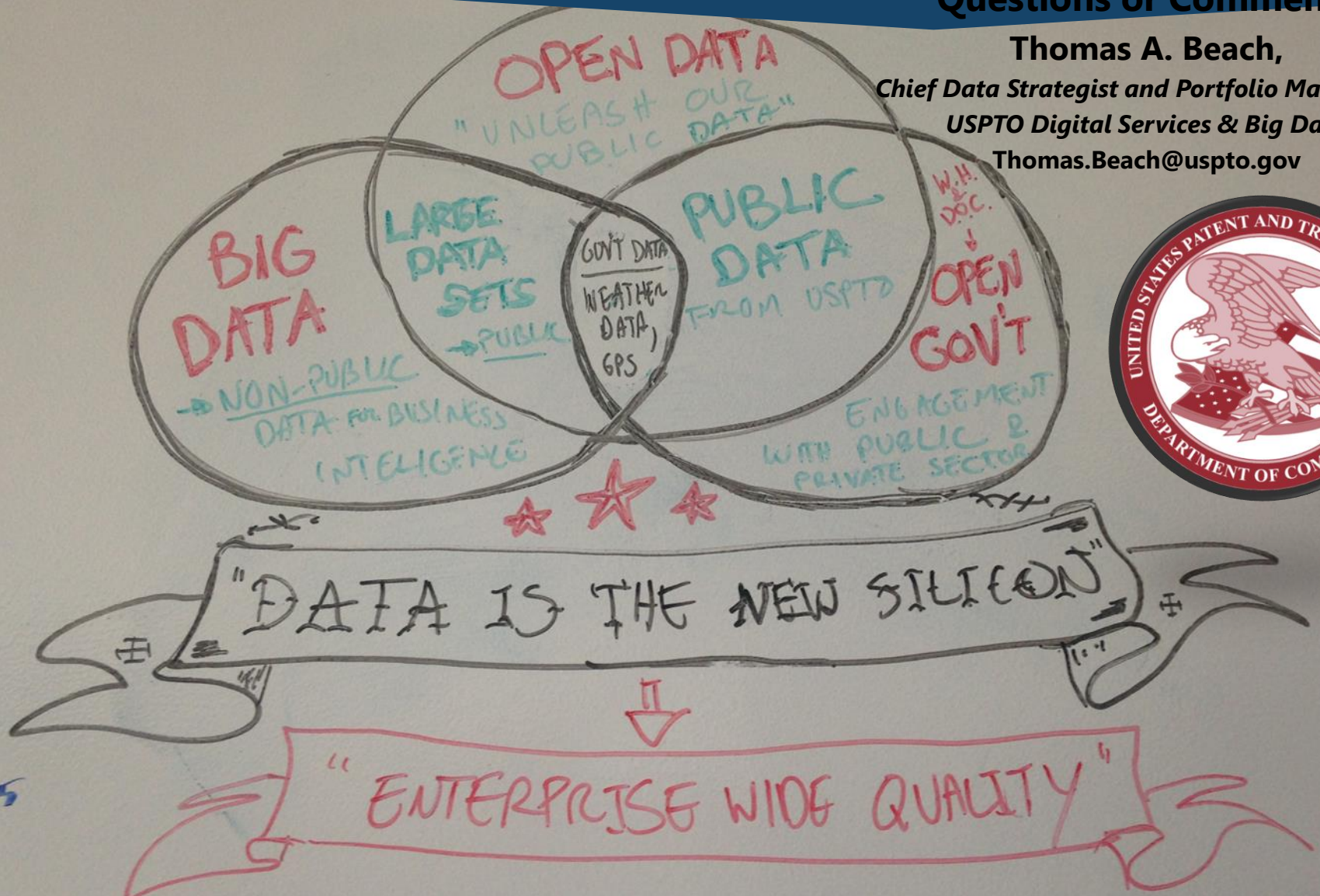
Questions or Comments

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