



2016-11-09 JICA NSDI Seminar
/ 2016-11-14 SSGCC

Presentation

on “coordination committee for NSDI in Japan”

Geospatial Infrastructure and Open Innovation

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Hello



Hidenori
FUJIMURA

hfu

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Geospatial Information Authority of Japan (GSI)

3

We're Japan's National Geospatial Information Authority



coordination

ownership

involvement

coordination

History of Japan's coordination for NSDI

1	1995-01	Great Kobe earthquake
2	1995-09	Inter-ministerial committee on GIS
3	1996-	National Programs for GIS and NSDI
4	2002	Revision of Survey Act, to adopt ITRF94 (≒WGS84)
5	2003	GSI Maps (web maps by GSI) started
6	2007	NSDI Act enacted
7	2008/2012	NSDI Basic Plan 2008-2012
8	2011-03	Great east Japan earthquake
9	2012/2016	NSDI Basic Plan 2012-2016
10	2016/	NSDI Basic Plan 2016- (in development)

2 pillars of NSDI Act

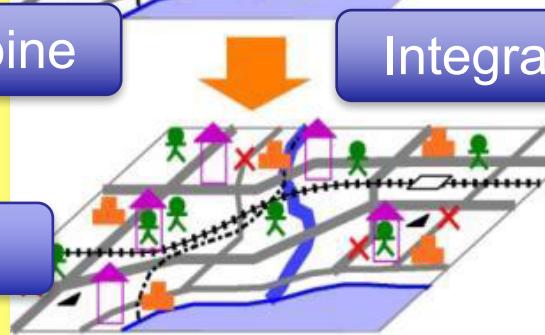
Geospatial Information

Fundamental Geospatial Data

Disaster prevention facilities



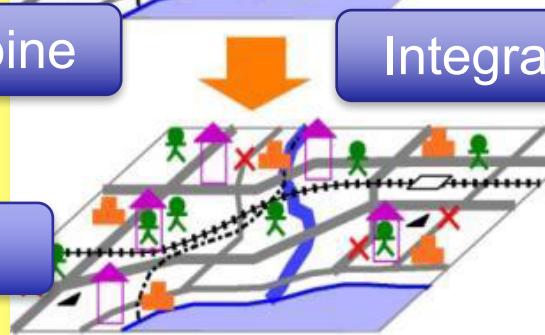
Brittle houses



Residents who need supports



Blocked roads



Combine

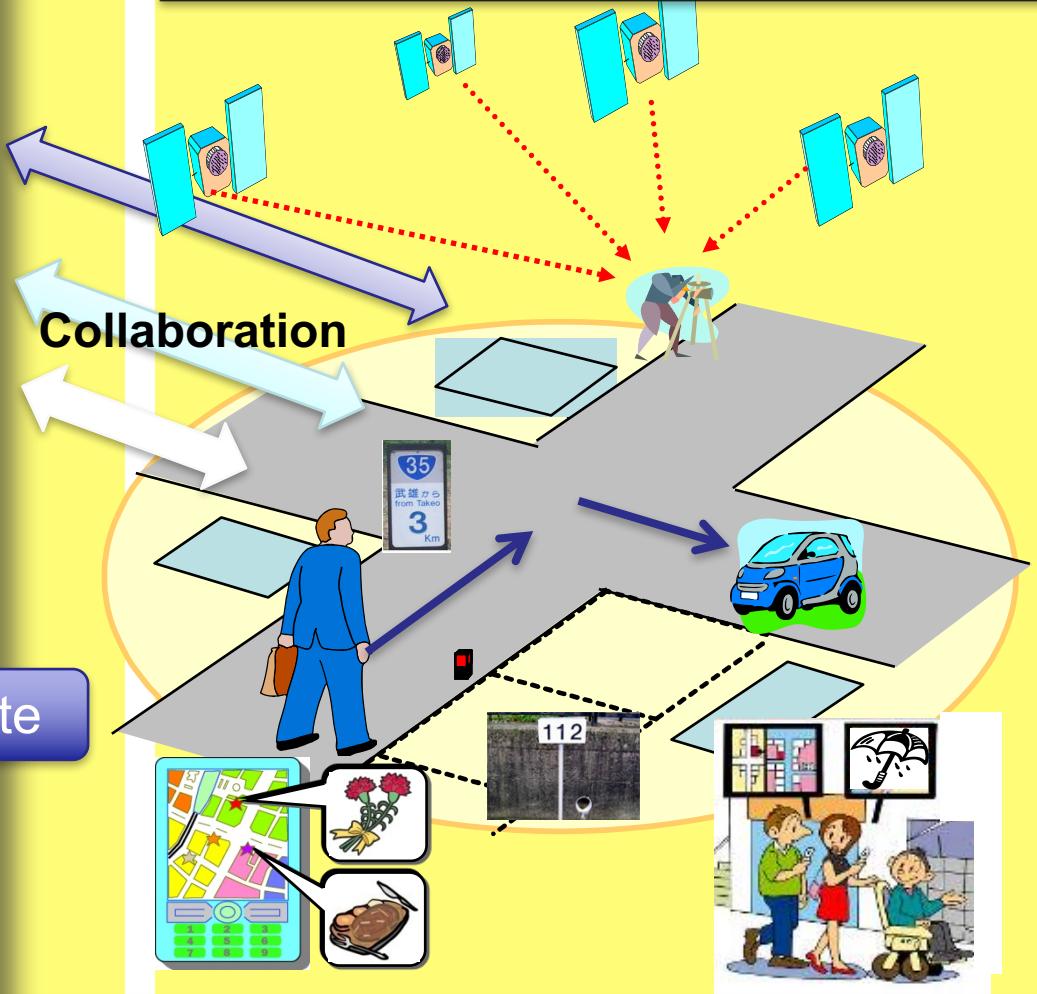
Integrate

Analyze

Promote comprehensive application measures

Satellite Positioning

Multi-GNSS Satellite Positioning



Coordination among different sectors

National Government

◆ Responsibility

Developing and carrying out comprehensive policies

◆ Legal and other Measures

Taking legal, financial, and other measures

◆ Enhancement of Liaison

Taking necessary measures to enhance the liaison

Local Governments

◆ Responsibility

Developing and carrying out policies in harmony with the circumstances of their regions

Private Sector

◆ Efforts

- Providing high quality geospatial information
- Cooperate with the State and/or local governments in their policies

Cooperation

**Research Institutions
(Universities etc)**

NSDI Steering Committee

NSDI Steering Committee

(Committee for
the Advancement of Utilizing Geospatial
Information)

Chairperson: Deputy Chief Secretary
(parliamentary and administration)
Acting Chairperson: Assistant Deputy Chief Cabinet
Secretary
Members: Bureau directors in charge of each relevant
government agency
([Director-General of GSI](#), etc.)
Secretariat: Cabinet, Ministry of Land, Infrastructure,
Transport and Tourism (National and
Regional Policy Bureau), [GSI](#)

Geographic Information System Working Group

Satellite Positioning Working Group

Geospatial Project Promotion Working Group

Review Team

- on Protecting Personal information
and intellectual Property
- National Security
- on Development and Update of
Fundamental Geospatial Data

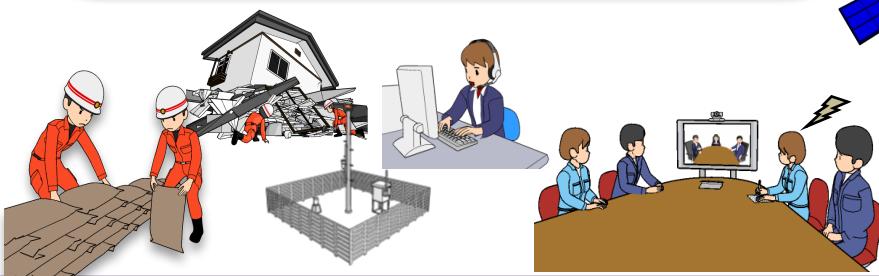
Promotion Team

- for Utilization of G-spatial Information Center
- for Advancement of Disaster Prevention System
- for IT-based Agriculture, Forestry and Fisheries
- for Vitalization of Communities and Small and Mid-size
Enterprises
- for Overseas Development

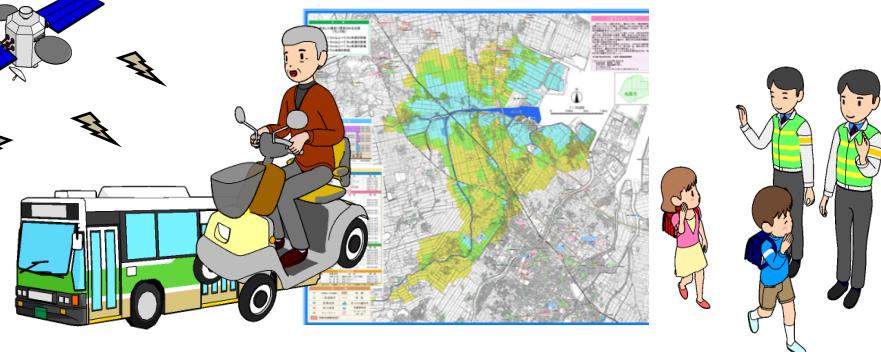
Approaches that should be taken to materialize the Geospatial Society

“Anyone, anywhere, at any time” to use geospatial information and obtain accurate information based on high-level analyses for their daily activities.

Promoting the utilization, development, and preservation of land, and sustainable land-use that is highly resistant to disasters



Achieving high-quality, safe, and secure living



Creation of new services and industries



Promoting greater efficiency and quality of administrative services, and new public benefits



NSDI Basic Plan 2012-2016 - goals

The present plan contains project goals for 2012-2016, especially the following 4 foundations of work that should be undertaken to achieve a Geospatial Society

Goal #1

Geographic Information System

Developing seamless geospatial information to meet society's needs and applications to new uses

Goal #2

Satellite Positioning, Navigation and Timing

Domestic and overseas development and utilization of practical quasi-zenith satellite systems

Goal #4

Recovery from the Great East Japan Earthquake and contribution to sustainable land-use that is highly resistant to disaster

Goal #3

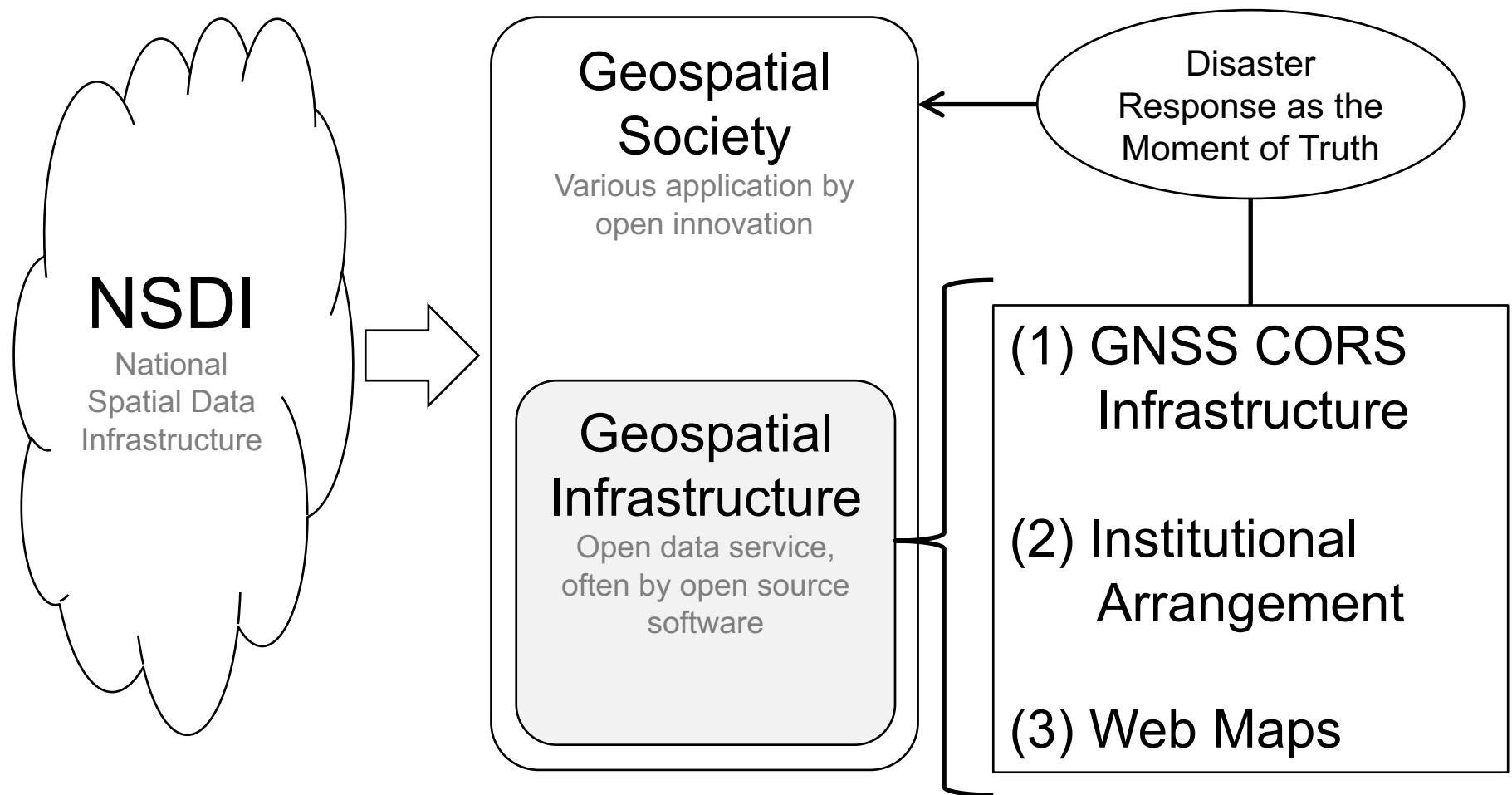
Further permeation and establishment of the geospatial information in society

Specific Measures to achieve the policies of the plan

Toward to the Geospatial Society

ownership

GSI broke down our contribution to NSDI into 3 components.
ownership and **involvement** matters, to implement NSDI.



involvement

We involve ourselves and our partners in:



➤ Open Data

- We follow the Open Data Policy of the Government of Japan (compatible with CC-BY)
- In addition, Survey Act applies to core data.

➤ Open Source

- We use Open Source for lowering running cost and for promoting development of domain-specific applications.
- We also develop open source software available at GitHub.

➤ Open Innovation

- We run a community of geospatial developers who use our data – GSI Maps Partner Network.
- We participate in existing community events such as FOSS4G Tokyo/Kansai, Code for Japan Summit, and GitHub Universe.

We import great open source software developed also in Ukraine

<http://maps.gsi.go.jp/>

Our geoportal “GSI Maps” provides approximately 1,600 layers as tiles or GeoJSON files.



<http://bit.ly/tokyo-vt>

Global Map data in binary vector tiles, to promote wider application (in development.)



Leaflet/Leaflet

 JavaScript library for mobile-friendly interactive maps

JavaScript ★ 16,466 ⚡ 2,822



Vladimir Agafonkin
mourner

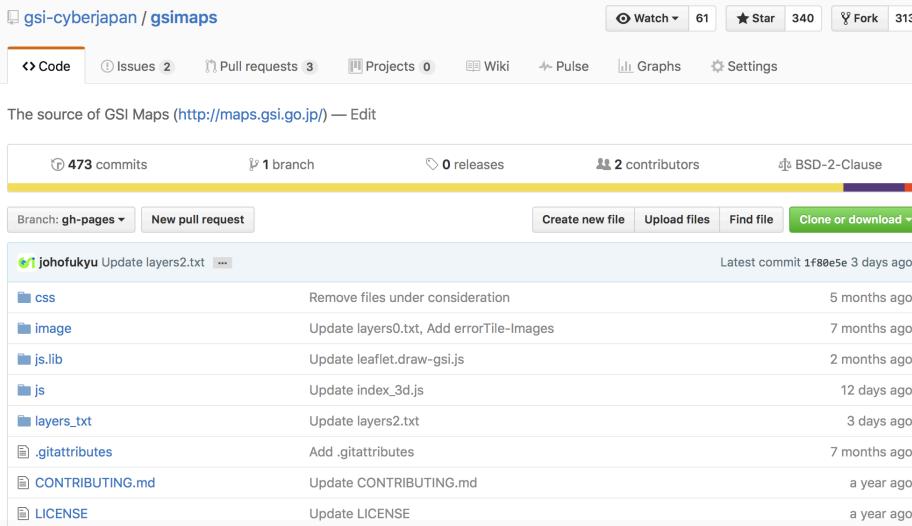
mapbox/mapbox-gl-js

Interactive vector maps in the browser, powered by WebGL

JavaScript ★ 1,314 ⚡ 279

"code sharing" to promote governments' work

<https://github.com/gsi-cyberjapan/gsimaps>



The source of GSI Maps (<http://maps.gsi.go.jp/>) — Edit

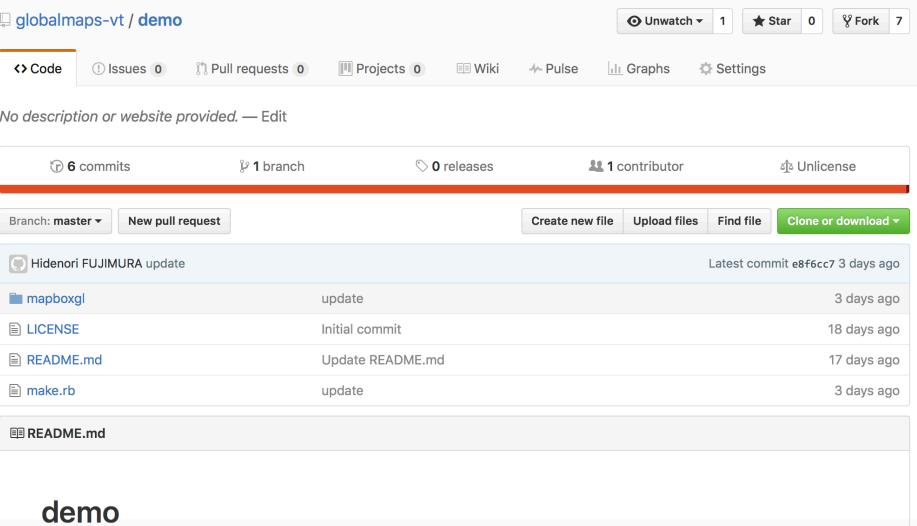
473 commits · 1 branch · 0 releases · 2 contributors · BSD-2-Clause

Branch: [gh-pages](#) · New pull request · Create new file · Upload files · Find file · Clone or download

johofukyu Update layers2.txt · Latest commit [1f80e5e](#) 3 days ago

- css Remove files under consideration 5 months ago
- image Update layers0.txt, Add errorTile-Images 7 months ago
- js.lib Update leaflet.draw-gsi.js 2 months ago
- js Update index_3d.js 12 days ago
- layers_txt Update layers2.txt 3 days ago
- .gitattributes Add .gitattributes 7 months ago
- CONTRIBUTING.md Update CONTRIBUTING.md a year ago
- LICENSE Update LICENSE a year ago

<https://github.com/globalmaps-vt/demo>



No description or website provided. — Edit

6 commits · 1 branch · 0 releases · 1 contributor · Unlicense

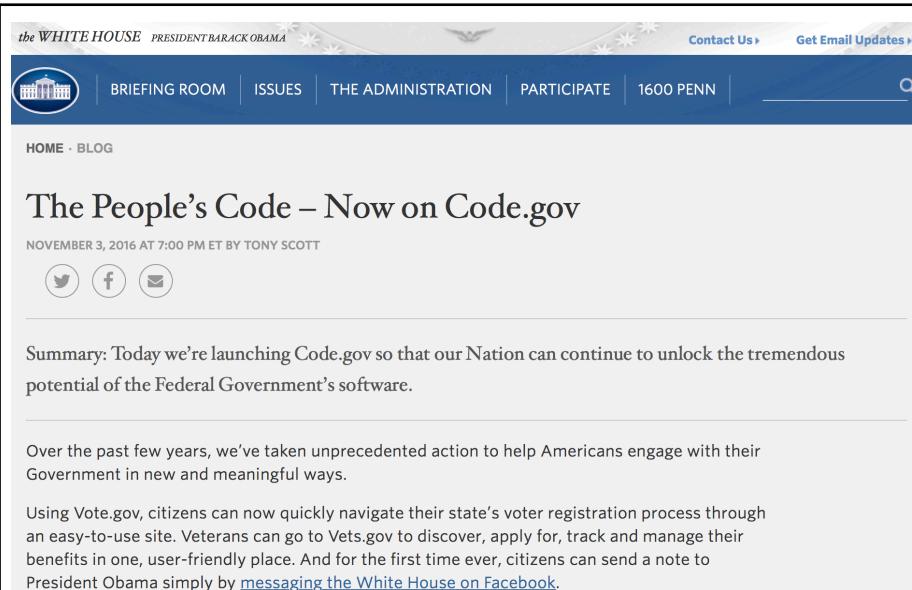
Branch: [master](#) · New pull request · Create new file · Upload files · Find file · Clone or download

Hidenori FUJIMURA update · Latest commit [e8f6cc7](#) 3 days ago

- mapboxgl update 3 days ago
- LICENSE Initial commit 18 days ago
- README.md Update README.md 17 days ago
- make.rb update 3 days ago

README.md

demo



the WHITE HOUSE PRESIDENT BARACK OBAMA

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The People's Code – Now on Code.gov

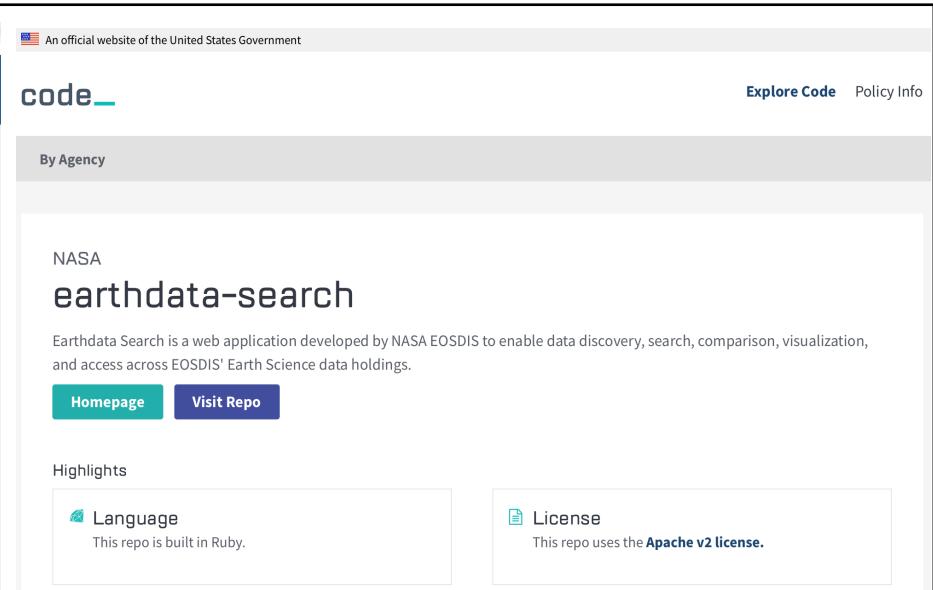
NOVEMBER 3, 2016 AT 7:00 PM ET BY TONY SCOTT

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Summary: Today we're launching Code.gov so that our Nation can continue to unlock the tremendous potential of the Federal Government's software.

Over the past few years, we've taken unprecedented action to help Americans engage with their Government in new and meaningful ways.

Using Vote.gov, citizens can now quickly navigate their state's voter registration process through an easy-to-use site. Veterans can go to Vets.gov to discover, apply for, track and manage their benefits in one, user-friendly place. And for the first time ever, citizens can send a note to President Obama simply by [messaging the White House on Facebook](#).



An official website of the United States Government

code_

Explore Code · Policy Info

By Agency

NASA

earthdata-search

Earthdata Search is a web application developed by NASA EOSDIS to enable data discovery, search, comparison, visualization, and access across EOSDIS' Earth Science data holdings.

[Homepage](#) · [Visit Repo](#)

Highlights

 **Language**
This repo is built in Ruby.

 **License**
This repo uses the [Apache v2 license](#).

- coordination
- ownership
- involvement

Let's involve everyone and each other in order to catch up with technology trend, for wider and better application of our geospatial information.