Citizen Science and Federal Agencies

Poster from a blog by the Wilson Center’s Common’s Lab about the Citizen Science Association
Citizen science: voluntary public participation in the scientific process, addressing real-world problems in ways that may include

- formulating research questions
- conducting scientific experiments
- collecting and analyzing data
- interpreting results
- making new discoveries
- developing technologies and applications
- solving complex problems

Crowdsourcing: organizations submit an open call for voluntary assistance from a large group of individuals for online, distributed problem solving

From: http://www.citizenscience.gov/about/
Tackling Societal and Scientific Problems with Crowdsourcing and Citizen Science

By enabling and scaling the use of open innovation methods such as citizen science and crowdsourcing, the Federal Government is increasingly harnessing the ingenuity of the public to accelerate science and technology innovation, and improve the efficiency and effectiveness of government. Crowdsourcing and citizen science are tools that educate, engage, and empower the public to apply their curiosity and contribute their talents to a wide range of real-world problems.

http://bit.ly/2q20GY4

Citizenscience.gov is an official government website designed to accelerate the use of crowdsourcing and citizen science across the U.S. government. The site provides a portal to three key assets for federal practitioners: a searchable catalog of federally supported citizen science projects, a toolkit to assist with designing and maintaining projects, and a gateway to a federal community of practice to share best practices.
Federal Crowdsourcing and Citizen Science Catalog

Projects: 354
Agencies: 26

Monitor environmental and social change using iPhones, photo-stitching, and time lapse

A simple, elegant concept developed by Sam Drooge, USGS Patuxent Wildlife Research Center.
NASA Solve is an invitation to members of the public to contribute their time and expertise to advancing research, solving problems, and potentially winning prizes as a result of their work. Specific projects listed on this site that engage people in problem solving include crowdsourced challenges and prize competitions, citizen science projects, and competitions aimed at advancing student education, and many more activities.

https://www.nasa.gov/solve
Georgia Island Confronts "Blue Sky" Floods. What are the Costs of Rising Seas?

https://www.iseechange.org/

¡SeeChange is mobile!

You can now use this site on your phone or your desktop.

We also made an app with NASA! Download it today from the iTunes app store to help investigate climate change on the ground level while satellites monitor from space!
National Parks BioBlitz

Follow along in real time as the National Parks BioBlitz continues across the country throughout 2016

See the biodiversity of national parks across the country as people observe species with iNaturalist.

Check out exciting social media feeds and make sure you share your stories of discovery and inspiration with #BioBlitz2016.

https://www.nps.gov/subjects/biodiversity/national-parks-bioblitz.htm
How It Works

1. Record your observations
2. Share with fellow naturalists
3. Discuss your findings

Nature At Your Fingertips

Keep Track
Record your encounters with other organisms and maintain life lists, all in the cloud.

Crowdsource Identifications
Connect with experts who can identify the organisms you observe.

Learn About Nature
Build your knowledge by talking with other naturalists and helping others.

Create Useful Data
Help scientists and resource managers understand when and where organisms occur.

Become a Citizen Scientist
Find a project with a mission that interests you, or start your own.

Run a BioBlitz
Hold an event where people try to find as many species as possible.

https://www.inaturalist.org/
The Marine Debris Tracker mobile application is a joint initiative between the NOAA Marine Debris Program and the Southeast Atlantic Marine Debris Initiative (SEA-MDI), run out of the University of Georgia College of Engineering. The tracker app allows you to help make a difference by checking in when you find trash on our coastlines and waterways.

This tool is a great way to get involved in local data collection—imagine being able to use your data to characterize the marine debris problem at your local beach. Anyone picking up marine litter can easily track and log items from a list of common debris items found on the shoreline or in the water. Litter tracking is not just for the coasts—you can track debris picked up anywhere in the country, even a stream in Nebraska.

The app records the debris location through GPS, and you can view the data on your phone. Submit the data to SEA-MDI’s Marine Debris Tracker website for viewing and download later (requires registration, which is available on the app). Download the app and start tracking today!

https://marinedebris.noaa.gov/partnerships/marine-debris-tracker

http://www.marinedebris.engr.uga.edu/
Globe at Night is a program of the National Optical Astronomy Observatory, the national center for ground-based nighttime astronomy in the United States, operated by the Association of Universities for Research in Astronomy (AURA), under cooperative agreement with the National Science Foundation.

https://www.globeatnight.org/