

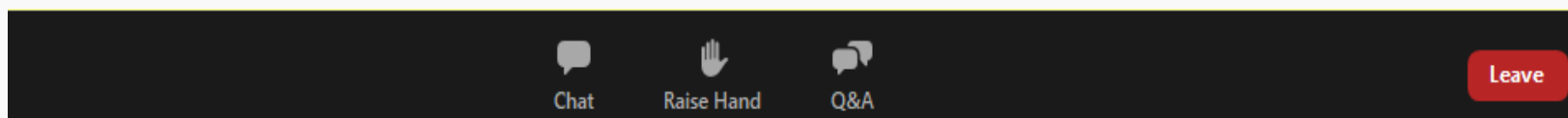
ECHO - Enforcement and Compliance History Online

<https://echo.epa.gov>

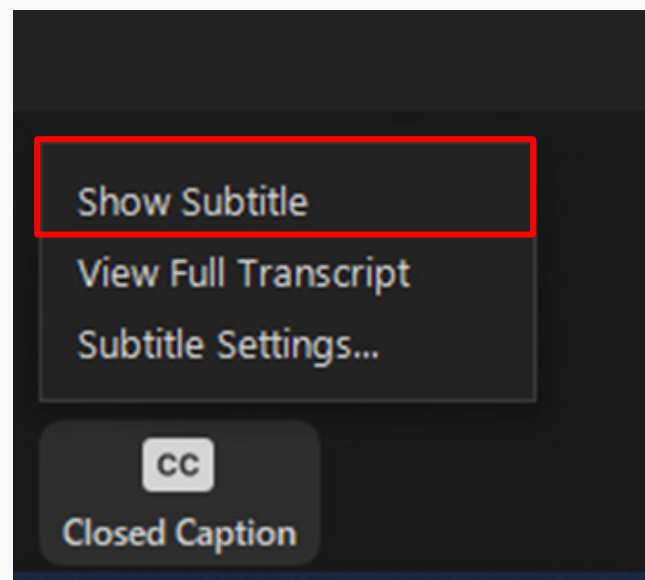


Audio Instructions

You are in listen-only mode (muted).



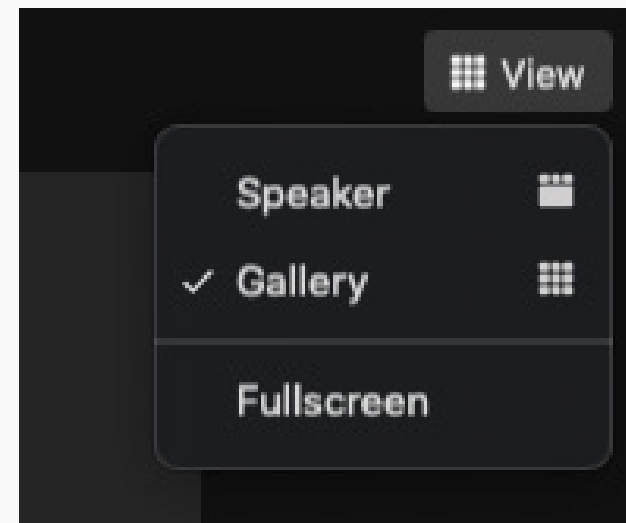
Closed Captioning for today's Webinar is available by clicking the "Captions" button on your toolbar.





Video Instructions

If you don't see a presentation on the screen, try switching the view layout using the options in the top right corner.





Questions During the Webinar

- Use the Questions box to type in your questions throughout the webinar.
- Please make the context of your question clear, as we will be answering questions covering a range of topics (feel free to reference live examples or slide numbers).
- In order to make this webinar useful for all attendees, we will not address site specific or individual problems during this session - please use ECHO's [Contact Us](#) page for help with those questions.



Webinar Materials

A recording of the webinar and transcript, as well as the presentation slides will be posted on the [ECHO Training Page](#).



Introduction

- The U.S. Environmental Protection Agency provides public access to its regulatory compliance and enforcement data via the internet.
- The Enforcement and Compliance History Online (ECHO) website at <https://echo.epa.gov> integrates data from major EPA information systems for public use.



What is ECHO?

- ECHO is EPA's public website that provides compliance information about regulated facilities.
 - How they are regulated
 - When they were inspected
 - Whether violations of environmental regulations were found
 - Whether an enforcement action was taken
- The website also provides dashboards with views of overall enforcement and compliance status trends and some bulk datasets for download.



ECHO Content

Compliance history for more than 1,000,000 EPA-regulated facilities

- Three-year compliance status and five-year inspection and enforcement history
- EPA and state, local, and tribal environmental agency data for:
 - Clean Air Act stationary sources
 - Clean Water Act permitted dischargers
 - Safe Drinking Water Act public water systems
 - Resource Conservation and Recovery Act hazardous waste handlers



ECHO Content (continued)

- EPA data for other statutes like Emergency Planning and Community Right-to-Know Act (EPCRA), Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), and Toxic Substances Control Act (TSCA):
 - Inspections
 - Enforcement Action Details



ECHO Features

- Facility Searches → *under home page “Search Options”*
 - All Media (cross-program)
 - Air (stationary source)
 - Wastewater/Stormwater/Biosolids (NPDES program)
 - Hazardous Waste (RCRA Subtitle C)
 - Drinking Water (public water systems)
- Water Pollutant Loading Tool → *under home page “Search Options”*
- EPA Enforcement Case Search → *under home page “Find EPA Cases”*
- EPA/State Dashboards → *under home page “Analyze Trends”*



Today's Topics

- From which EPA program systems does ECHO retrieve data?
- How frequently are the data updated, and how do I make corrections?
- How can I download ECHO data?
- What are ECHO web services?



Please enter questions you have during the presentation, and we will answer them soon.



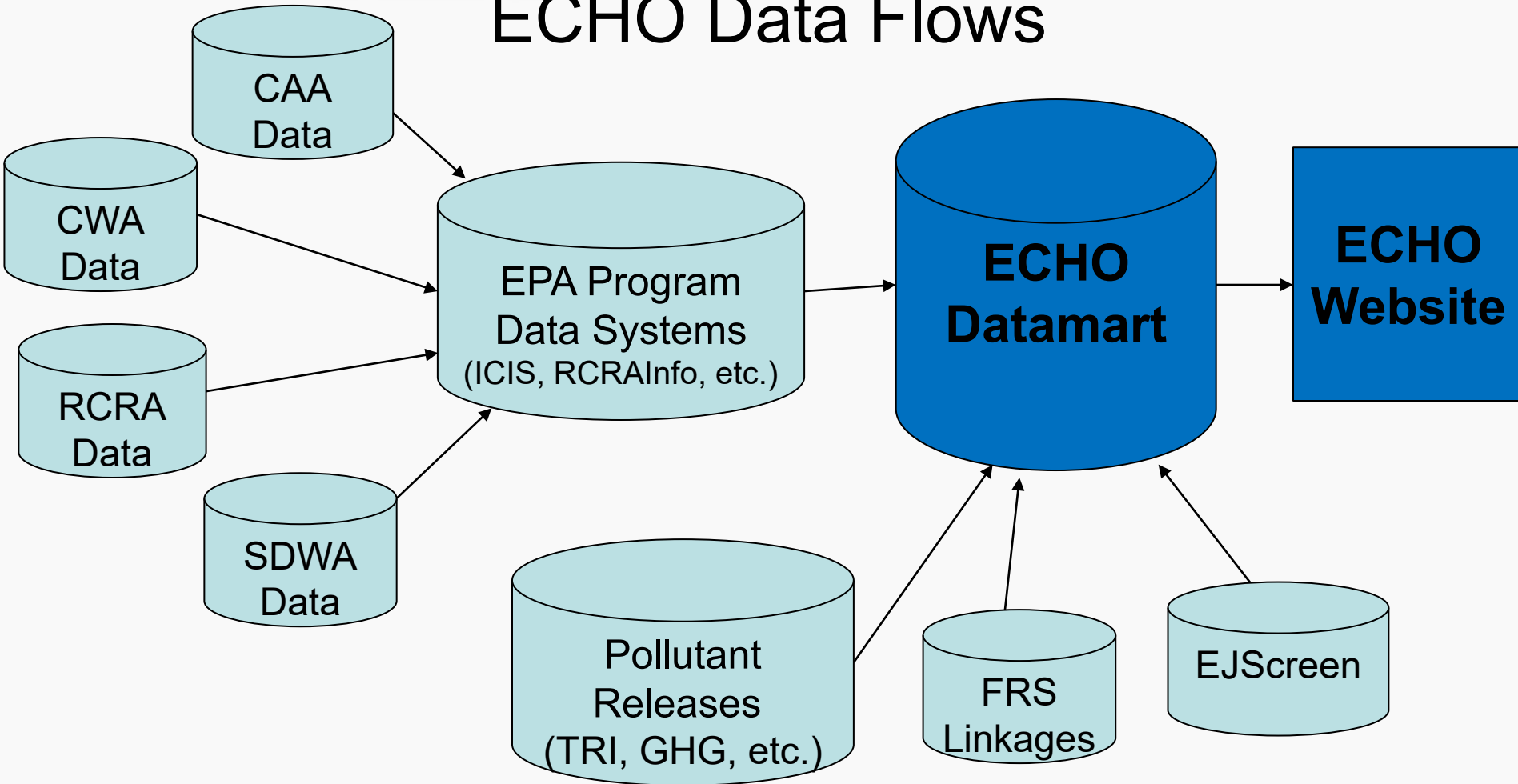
From which EPA program systems does
ECHO retrieve data?



EPA Data Systems

- EPA Program Systems
 - Integrated Compliance Information System (ICIS)
 - Resource Conservation and Recovery Act Information System (RCRAInfo)
 - Safe Drinking Water Information System (SDWIS)
- Additional Data
 - Facility Registry Service (FRS) - links EPA-regulated facilities and permits under one ID number
 - Envirofacts: Toxics Release Inventory (TRI) and Greenhouse Gas (GHG) pollutant release data for context
 - EJScreen: environmental and demographic indicator data
- Full list with refresh dates on “About the Data” page (<https://echo.epa.gov/resources/echo-data/about-the-data>)

ECHO Data Flows





How frequently are the data updated,
and how do I make corrections?



Data Resources

- About the Data: <https://echo.epa.gov/resources/echo-data/about-the-data>
 - Links to data sources
 - Data refresh schedules
- How to Report an Error:
<https://echo.epa.gov/help/how-to-report-error>
- Known Data Problems:
<https://echo.epa.gov/resources/echo-data/known-data-problems>
- Detailed Facility Report (DFR) Data Dictionary:
<https://echo.epa.gov/help/reports/dfr-data-dictionary>



How can I download ECHO data?



Data Downloads

Large data sets may be of particular use to developers, programmers, academics, and analysts.

- ECHO Exporter: <https://echo.epa.gov/tools/data-downloads#exporter>
 - Mass download for over 1.5 million facilities
 - Over 130 data fields for each facility
 - Too large for Excel; recommend using a database software
- ECHO Data Downloads: <https://echo.epa.gov/tools/data-downloads#downloads>
 - Data sets for specific programs (ICIS-Air, ICIS-NPDES, etc.)



What are ECHO web services?



ECHO Web Services

- Web services are functions that provide business logic, data, and processes and can be accessed over the internet
- Web services support ECHO and are available to the public: <https://echo.epa.gov/tools/web-services>
- The services allow web developers to design custom applications utilizing a live feed of data from ECHO
- "GET" or query-only RESTlike (REpresentational State Transfer) services, available through a simple URL HTTP link
- Output in XML, JSON, or JSONP formats

Additional Resources



- Quick start guide: <https://echo.epa.gov/resources/general-info/learn-more-about-echo>
- Short video tutorials: <https://echo.epa.gov/help/tutorials>
- Webinars: <https://echo.epa.gov/help/training>
- FAQ: <https://echo.epa.gov/resources/general-info/echo-faq>
- Help: <https://echo.epa.gov/help>

- Contact Us: <https://echo.epa.gov/contact>
- ECHO Mailing list: <https://echo.epa.gov/resources/general-info/listserv>



Question and Answer Session



Thank you for attending today's training!

A short survey will appear on your screen momentarily,
we would really appreciate your feedback.

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