

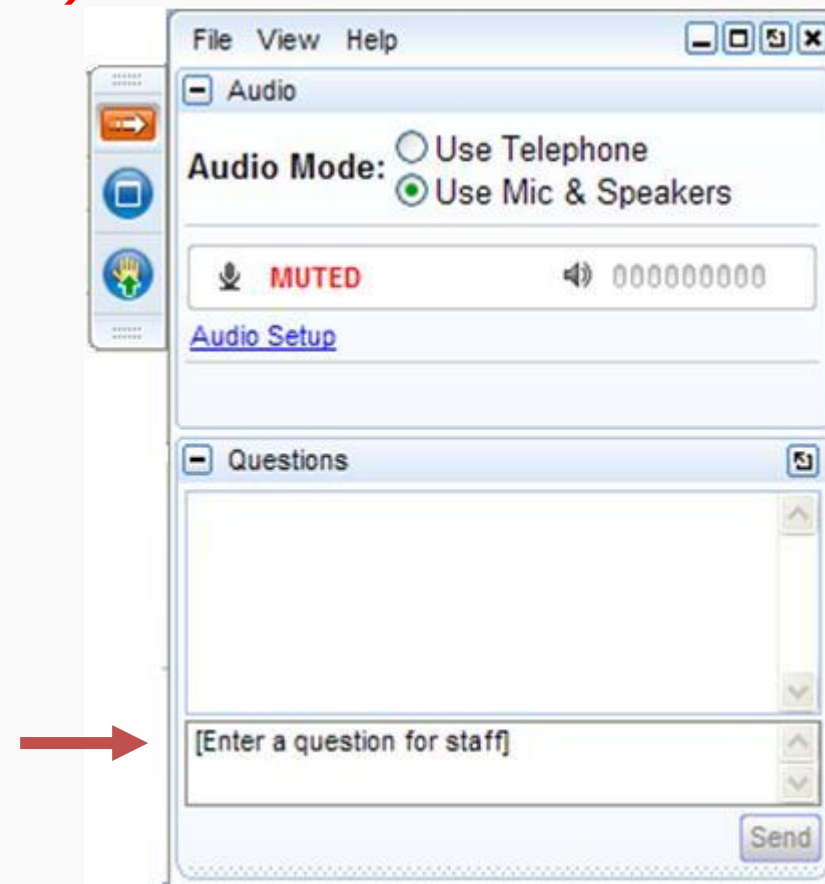
ECHO - Enforcement and Compliance History Online

<https://echo.epa.gov>

AUDIO INSTRUCTIONS

You are in listen-only mode (muted).

You may submit a question by typing into the *Enter a question for staff box* and clicking the *Send button*.





Questions During the Webinar

- Please 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.
- The webinar will be recorded and all materials will be posted on the ECHO Training Page (<https://echo.epa.gov/help/training>)



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?



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 enforcement action was taken
- Also provides dashboards with views of overall enforcement and compliance status trends and 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
 - Resource Conservation and Recovery Act hazardous waste handlers
 - Safe Drinking Water Act public water systems



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)
 - Toxic Substances Control Act (TSCA)
- Inspections
- Enforcement Action Details



Sources of ECHO Data

ECHO extracts data from other EPA data systems, typically on a weekly basis:

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



ECHO Features

- Facility searches → *under home page “Search Options”*
 - All Data (cross-program)
 - Air (stationary sources)
 - Water (dischargers)
 - Hazardous Waste (RCRA Subtitle C)
 - Drinking Water (public water systems)
 - Data downloads and web services → *also under “Data Services”*
- EPA Enforcement Case Search → *under home page “Find EPA Cases”*
- State Dashboards → *under home page “Analyze Trends”*
- Water Pollutant Loading Tool → *under home page “Search Options”*



Please enter questions you have as the presentation goes on and we will answer them soon.



From which EPA program systems does
ECHO retrieve data?



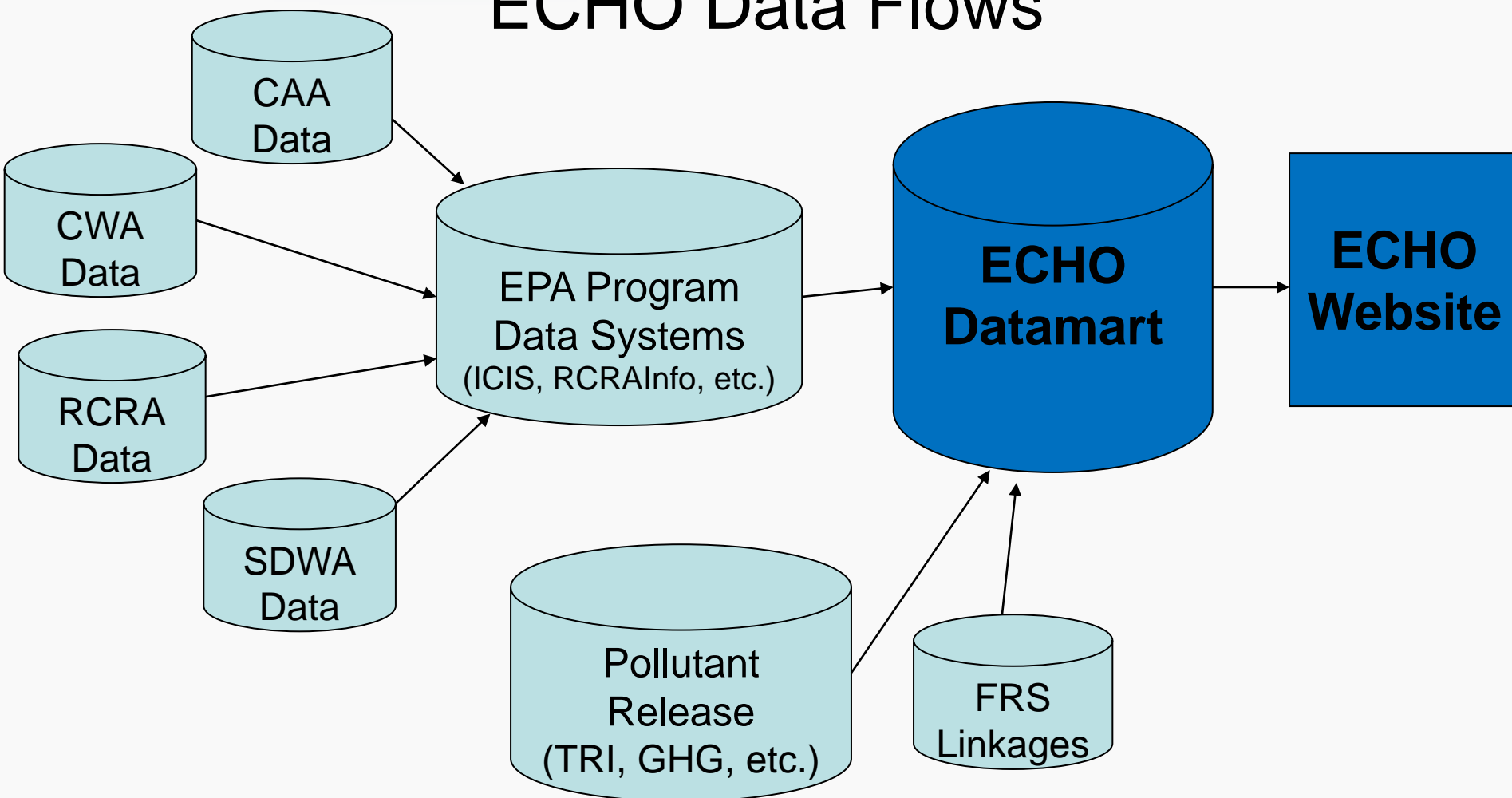
EPA Data Systems

- Program Systems
 - Integrated Compliance Information System (ICIS)
 - Resource Conservation and Recovery Act Information System (RCRAInfo)
 - Safe Drinking Water Information System (SDWIS)
- Warehouse and Linking Services
 - 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

About the Data: <https://echo.epa.gov/resources/echo-data/about-the-data>

Known Data Problems: <https://echo.epa.gov/resources/echo-data/known-data-problems>

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