Joint use of TRI and CDR

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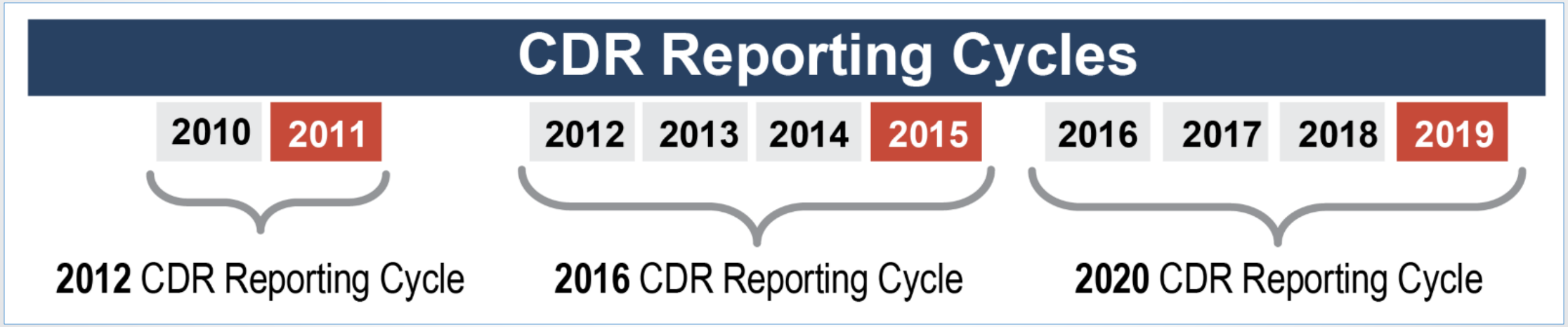
Presentation Overview

- Introduction to CDR
- TRI and CDR overview and comparison
- Mapping TRI-CDR
- Tools Demonstration: 2020 CDR National Review

What is Chemical Data Reporting (CDR)?

- Most comprehensive exposure-related source on chemicals in U.S. commerce
- Provides basic screening-level, exposure-related information supporting Toxic Substances Control Act (TSCA) risk evaluation efforts
- The CDR reporting cycle occurs on a **four-year** frequency, specifically, sites that domestically manufacture and/or import certain chemicals on the TSCA Inventory submit CDR reports to the EPA if the reporting threshold during any of the four years in the reporting cycle is triggered.



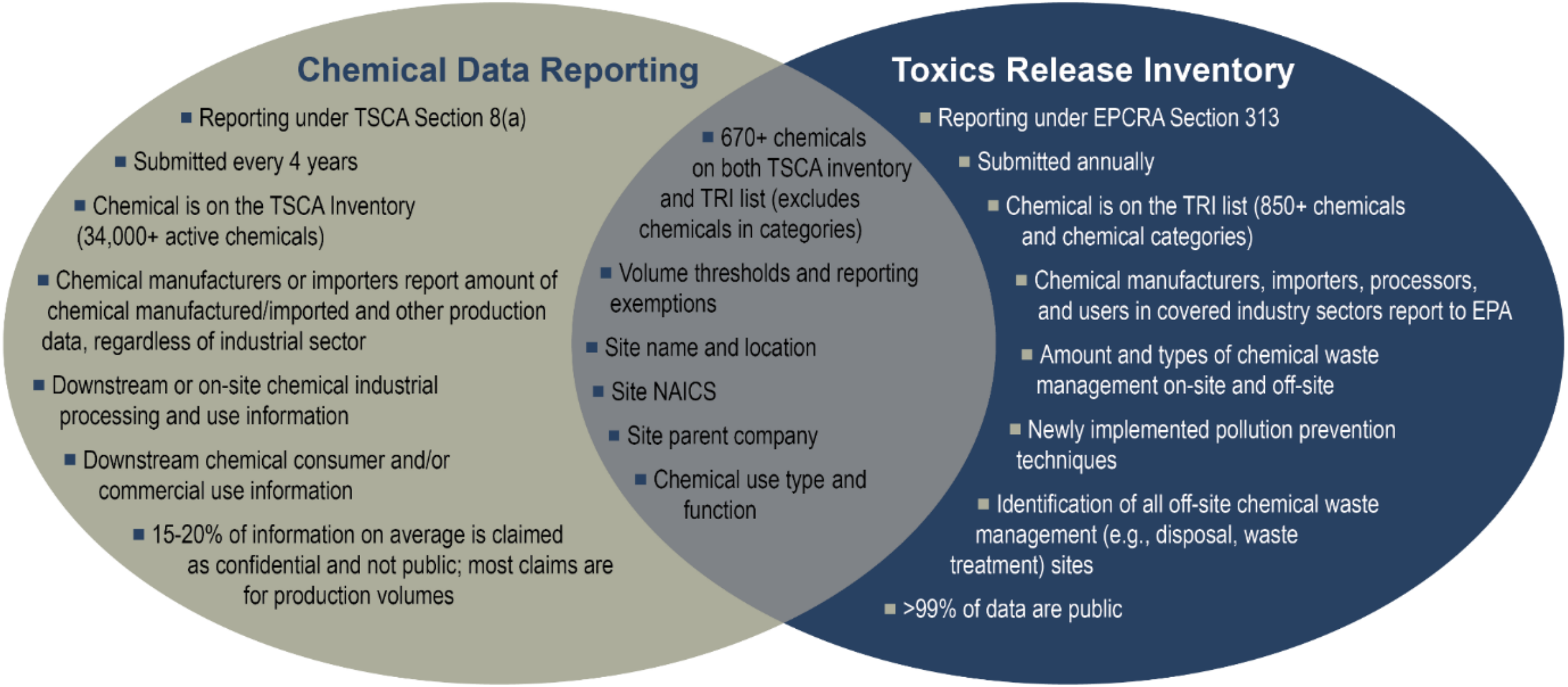
Releases to the Environment

- Releases of chemicals to the environment from **conditions of use** are a component of potential exposure
- EPA's **CDR** database tracks production quantities and uses of chemicals
- EPA's **TRI** database tracks quantities of toxic chemicals released from facilities into the environment (i.e., to air, water, and disposed of to land), treated, burned for energy, recycled, or transferred off-site to other facilities for these purposes.

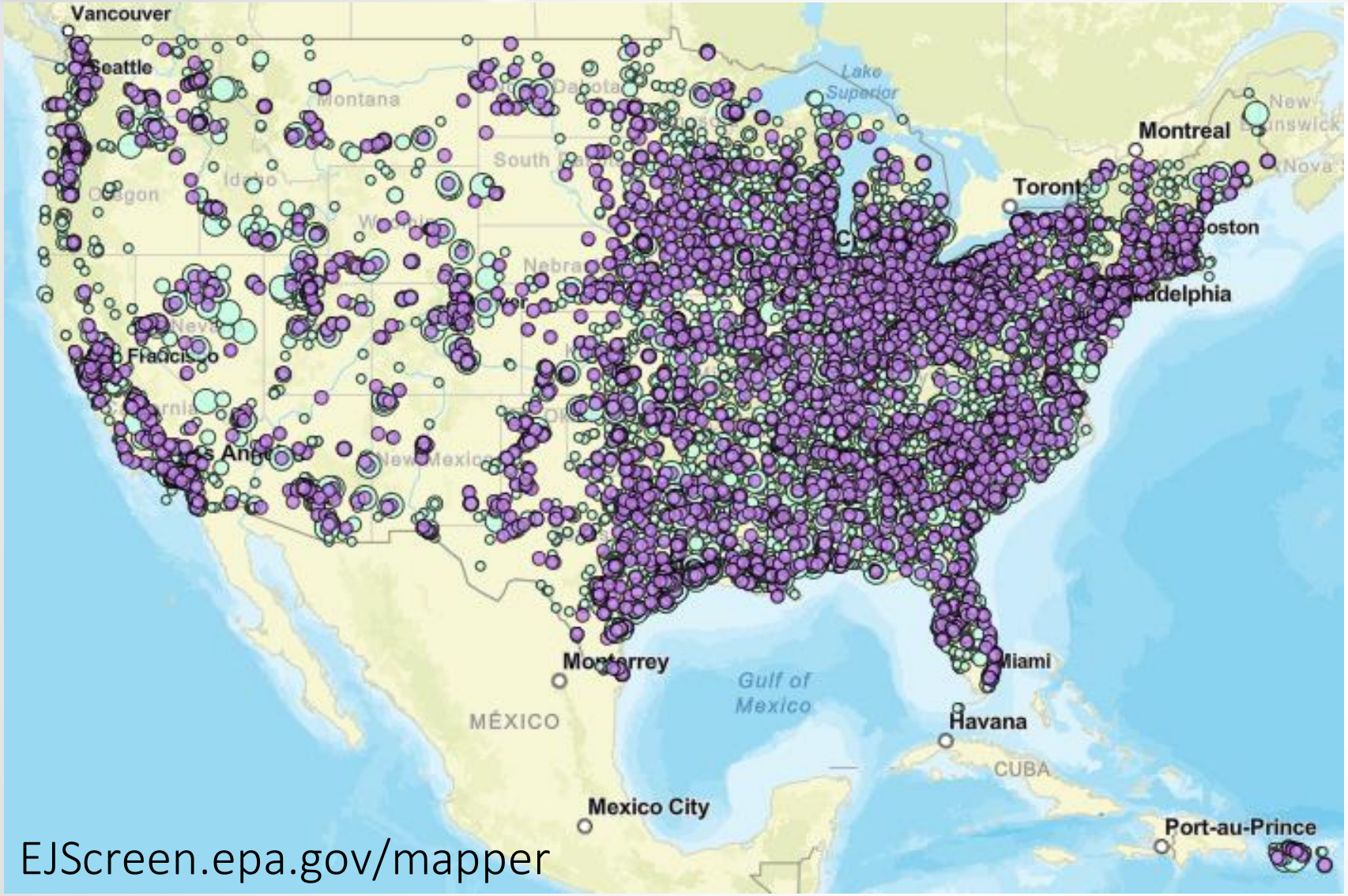
How does CDR differ from the TRI?

- The **TRI** was established by the Emergency Planning and Community Right-to-Know Act of 1986. The goal of the TRI is to provide the public, EPA, researchers, and many other stakeholders, including industry and covered facilities, with information about toxic chemical waste management, including **releases**.
- The **CDR** was implemented under Section 8 of TSCA. The primary purpose of the CDR is to provide EPA with up-to-date information on the **production and use** of chemicals in commerce.

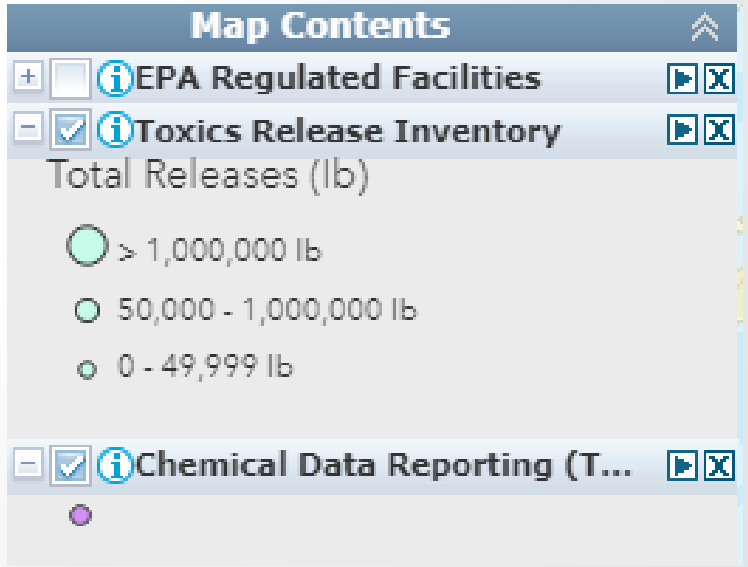
CDR & TRI Comparison



Mapping CDR & TRI Facilities/Sites



- EPA's Facility Registry Service Identification (FRS ID) can be used to identify sites that report to CDR & TRI
- 2021 TRI: 21,000+ Facilities
- 2020 CDR: 5,500+ Sites



CDR & TRI Chemical Use Data

- Chemical use data reported under CDR is classified using Industrial Function Category (IFC) codes and/or commercial/consumer use product categories (PCs)
- TRI reporters indicate whether the chemical is manufactured (including imported), processed, or otherwise used at the facility and the general nature of such activities and uses

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY

(Important: Check all that apply.)

3.1 Manufacture the toxic chemical:	3.2 Process the toxic chemical:	3.3 Otherwise use the toxic chemical:
a. ☐ Produce b. ☐ Import		
If Produce or Import c. ☐ For on-site use/processing d. ☐ For sale/distribution e. ☐ As a byproduct f. ☐ As an impurity	a. ☐ As a reactant b. ☐ As a formulation component c. ☐ As an article component d. ☐ Repackaging e. ☐ As an impurity f. ☐ Recycling ☐ ☐ ☐ ☐ ☐ Enter 4-digit code from instruction package	a. ☐ As a chemical processing aid b. ☐ As a manufacturing aid c. ☐ Ancillary or other use ☐ ☐ ☐ ☐ ☐ Enter 4-digit code from instruction package

CDR & TRI Crosswalk of Chemical Use Data

- TRI Processing – **P codes** (17) and Otherwise Use – **Z codes** (22)
  - Available since 2018
- Mapped to 2020 CDR Industrial Function Category – **IFC codes** (117)
  - Applies to the upcoming 2024 CDR Cycle

2021 TRI				2020 CDR *20 High Priority Chemicals	
TRI Section	Description	Sub-Use Code	Sub-Use Code Name	IFC Code	Category
3.2b	Processing: As a formulation component	P205	Solvent	F075	Solvent
3.2b	Processing: As a formulation component	P207	Emulsifiers	F077	Emulsifier
3.2b	Processing: As a formulation component	P208	Surfactants	F076	Surfactant (surface active agent)
3.2b	Processing: As a formulation component	P210	Flame Retardants	F029	Flame Retardant
3.3b	Otherwise Use: As a manufacturing aid	Z203	Coolants	F032	Heat transferring agent
3.3b	Otherwise Use: As a manufacturing aid	Z205	Hydraulic Fluids	F033	Hydraulic fluids
3.3c	Otherwise Use: Ancillary or other use	Z305	Flame Retardant	F029	Flame retardant

Example 1:1 relationships across 2021 TRI use information and 2020 CDR

Summary – Using CDR & TRI Data

- Obtain annual TRI release data to complement CDR information collected every 4 years
- Quality assure manufacturing information reported by common facilities in both CDR/TRI
- Gather additional use information from TRI for facilities that process or otherwise use chemicals
- Limited to higher volume facilities
- Chemical overlap for most workplan chemicals (70%)

2020 CDR National Review

- The **first-ever web-based, interactive CDR National Review** and will serve as the foundation for future web-based reports
- EPA is advancing ***chemical right-to-know*** with the publication of the 2020 CDR Review and will continue to make chemical information more accessible and relevant to users in future years.
- CDR National Review demonstration:
  epa.gov/chemical-data-reporting/2020-cdr-national-review

Thank you!

- Questions?
- Email: roach.amanda@epa.gov