

# REGIONAL INFORMATION SYSTEM

Design and develop a Regional POPs  
Information System

Presentation by:  
The BCRC-Caribbean



# Overview

A database for **national and regional information** on the **uses and management of POPs** and related contaminated sites.

The system is:

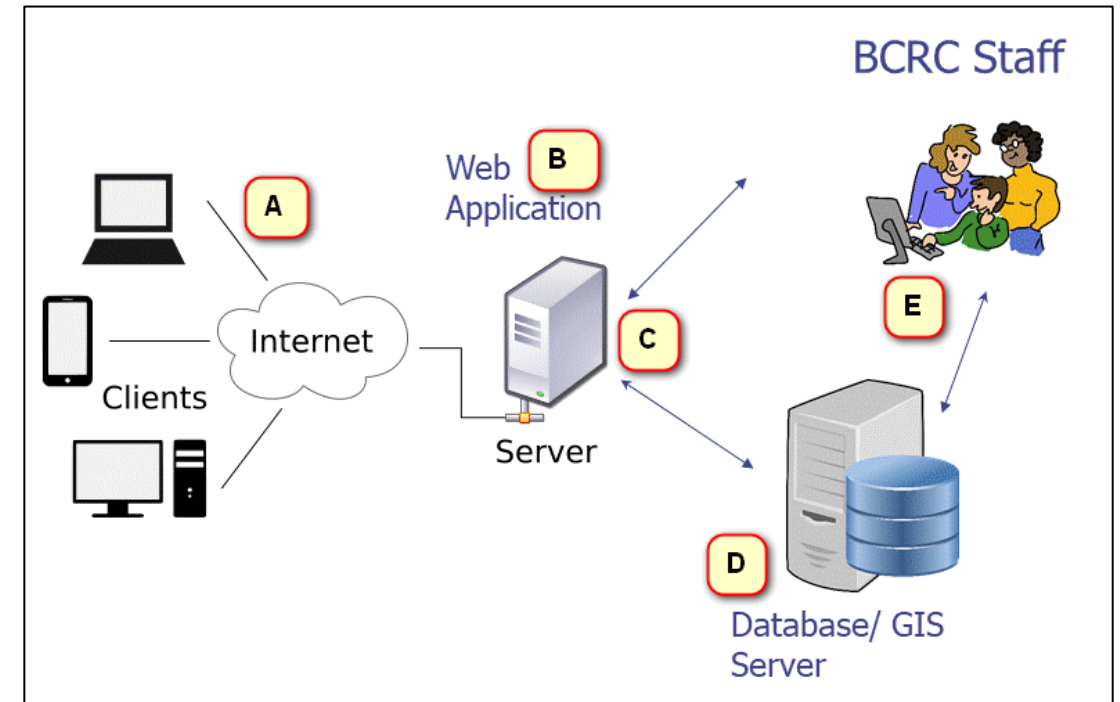
- used by various **national agencies** to **improve decision making**
- designed to provide for an integrated or parallel **geo-spatial representation of data**
- used as a **depository** for POPs related studies **reports and published studies**



# Architecture

- The platform is a web-based system for hosting, managing, and visualizing POPs data across Caribbean countries. Built on **ArcGIS Hub**, it features a GIS-enabled interface for mapping and analyzing contaminated sites, emissions, and chemical inventories.
- The platform securely manages both country-wide and site-specific data, with multi-level user permissions controlling access. This enables national stakeholders to view, upload, and edit data within the regional information system.

## Platform Requirements

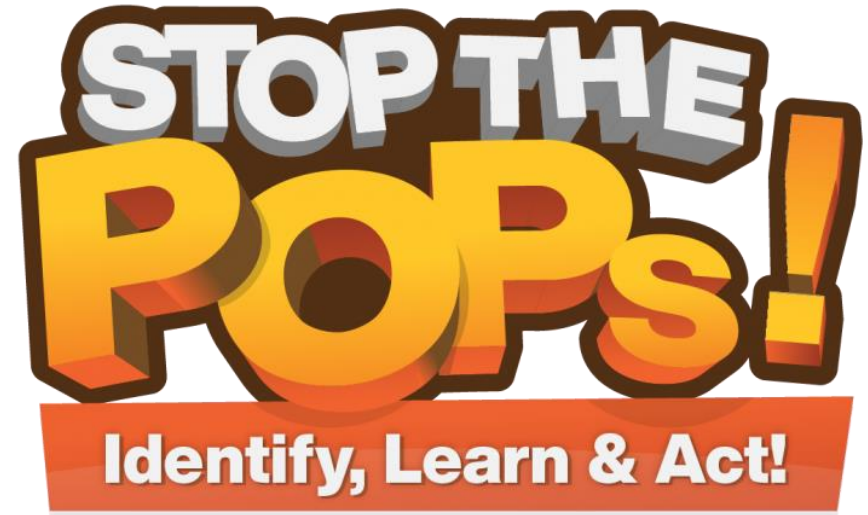


*Recommended platform requirements (BTRI, 2018)*

# Data on the Platform

**As a centralized online repository, the POPs RIS supports the collaborative management of POPs data within the Caribbean Region**

- The data included on the platform includes:
- POPs Pesticides
- PFOS
- PCBs
- UPOPs
- PBDEs (Brominated Flame Retardants)



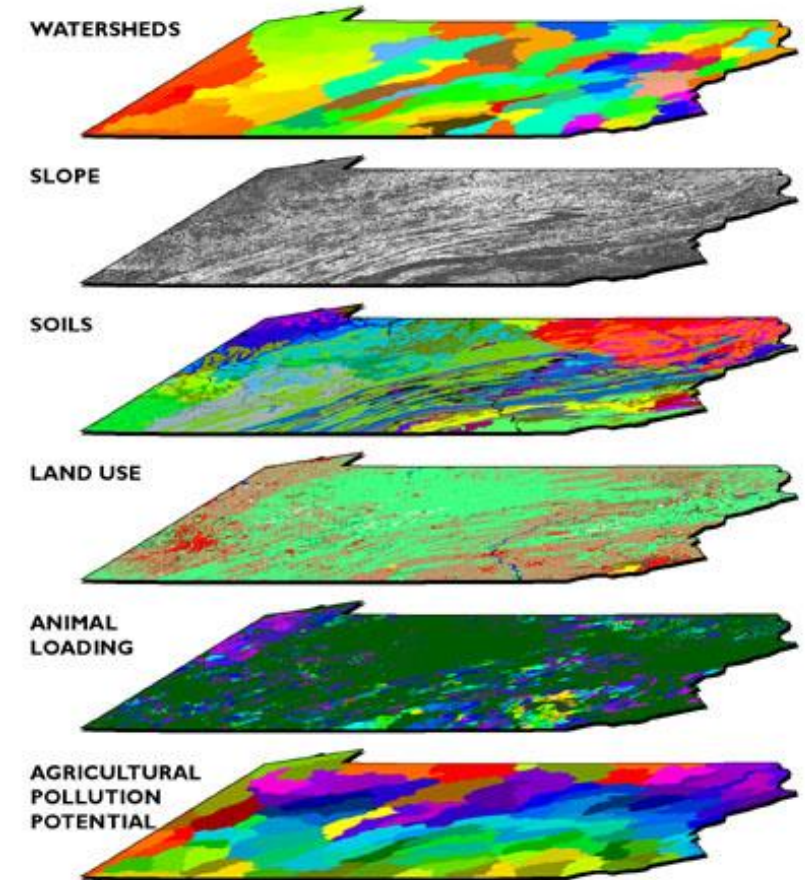
*GEF 5558: STOP THE POPs Campaign*





# Data Requirements

- The POPs – RIS was created to spatially represent the data that is provided and validated by each country, represented in the following data formats:
  - (i) **GPS Coordinates or Mapped boundaries** of where POPs chemicals are stores, used or disposed
  - (ii) **Name and Information on Facility** – e.g Landfill, Warehouse, Incinerator
  - (iii) **Nearby Sensitive Areas** – e.g Water bodies, Residential Areas, Protected Ecosystems or Agricultural Lands
- The data should be in a “**GIS-Ready**” format e.g Shapefiles, Attribute tables.
- **Key stakeholders** to support in this process would be Ministries of Planning (for geospatial data), Environment, Health, Agriculture etc. to provide data or information on the sites as well as technical personnel to be trained.



# Regional Information System for POPs

The screenshot displays the POPs-RIS Hub website. The header includes the BCRC logo, the title "POPs - Regional Information System (POPs-RIS)", and a navigation menu with links to Home, BCRC Caribbean, and various Caribbean countries. The main content area features a welcome message and a three-step process flow for using the system.

**Welcome to the POPs-RIS Hub**

This system enables you to locate and register all information regarding the Persistent Organic Pollutants (POPs) in your country. You can make use of different base maps to ensure that the location that you have entered is correct. All the important characteristics of the POPs can be entered and will be securely stored. Once validated, you can share the data with other people. You can also use the data on your mobile device, wherever you are.

The goal of the system is to collect all information concerning POPs in the region, so that it can be queried and analyzed.

From locating POPs to using your POPs data in three steps

- 1** Locate POPs
- 2** Register POPs
- 3** View Query Analyze Share

```
graph LR; A[Locate POPs] --> B{Choose Data Entry App}; B --> C[Register POPs]; C --> D{Validation}; D --> E[View Query Analyze Share];
```

The process flow is illustrated with a sequence of steps: 1. Locate POPs (green rounded rectangle), 2. Register POPs (green rectangle), and 3. View Query Analyze Share (green rectangle). The steps are connected by arrows, with decision points (yellow diamonds) for "Choose Data Entry App" and "Validation".

# Interlinkage with Stockholm NIPs

- NIPs serve as the primary national framework for identifying sources of Persistent Organic Pollutants (POPs), outlining strategies for their reduction or elimination, and reporting on progress.
- By linking POPs-RIS with the NIP process, countries can:
  - Centralize and standardize POPs-related data
  - Manage inventories, stockpiles, contaminated sites, and emissions
  - Streamline milestone tracking and reporting to the Convention Secretariat



2025 BRS COPs: Kiara Worth (2025)



# Interlinkage with Stockholm NIPs

Furthermore, POPs-RIS can support the periodic updating of NIPs by:

- Providing a current, accessible evidence base for policy and technical decision-making
- Facilitating periodic updates to National Implementation Plans (NIPs)
- Strengthening national reporting capacity
- Additionally, the platform supports regional collaboration through the promotion of harmonization across Caribbean countries, thereby enhancing the regional capacity of countries to meet Stockholm convention obligations.
- Beyond Storage, the systems functions as a dynamic tool for monitoring and sustainable chemical management



*2025 BRS COPs: Kiara Worth (2025)*





# Feedback and discussion



# THANK YOU!



#8 Alexandra Street,  
St. Clair, Port of Spain,  
Trinidad and Tobago



Tel: 1 868 628-8369



[info@bcrc-caribbean.org](mailto:info@bcrc-caribbean.org)



[www.bcrc-caribbean.org](http://www.bcrc-caribbean.org)



@ Basel Convention Regional Centre - Caribbean



@bcrc.caribbean



@bcrccaribbean