

Field data collection and analysis

Automates field data collection from environmental monitoring devices and sensors, validates data quality, and generates compliance reports for regulatory submission.

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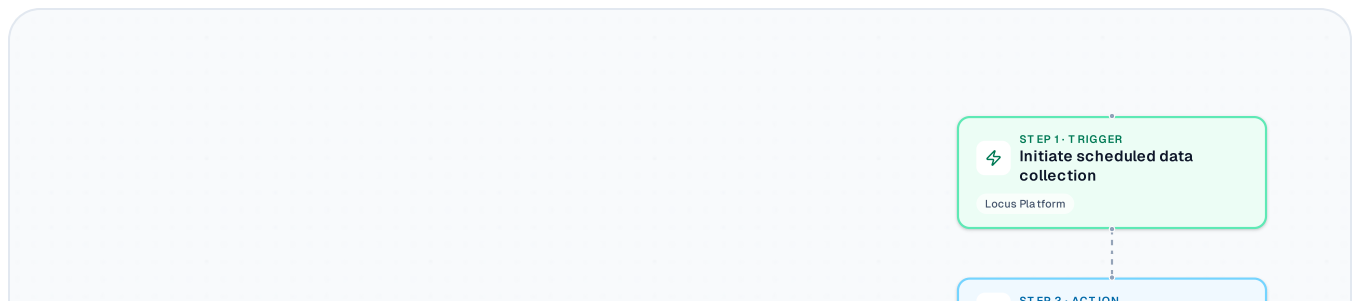
WORKFLOW TRIGGER

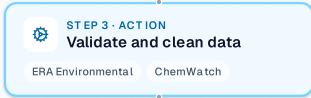
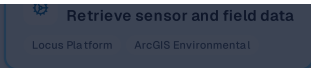


Scheduled environmental monitoring data collection interval reaches due time (daily/weekly/monthly)

Visual Flow

Each node represents an automated step. Connections show how data and decisions move through the workflow.





Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

Initiate scheduled data collection

Automated trigger activates based on predefined monitoring schedule for air quality, water samples, soil conditions, or waste tracking measurements.

Locus Platform

2

 ACTION

Retrieve sensor and field data

Connects to IoT sensors, field monitoring equipment, and manual data entry systems to collect environmental measurements and compliance data.

Locus Platform

ArcGIS Environmental

3

 ACTION

Validate and clean data

Performs automated quality checks on collected data, flags outliers, identifies missing values, and validates against regulatory thresholds.

ERA Environmental

ChemWatch

4

 DECISION

Check compliance threshold violations

Evaluates whether any environmental parameters exceed regulatory limits or permit conditions requiring immediate action.

Enviance

ERA Environmental

 ACTION

5 **Generate spatial analysis maps**

AI Business OS

Creates geographic visualizations and contamination plume maps showing environmental conditions and trends across monitored locations.

ArcGIS Environmental

ENVI

6

 ACTION

Compile regulatory compliance report

Automatically formats collected data into standardized environmental reports required for EPA, state agencies, and permit submissions.

Enviance

Locus Platform

7

 OUTPUT

Distribute reports and alerts

Sends compliance reports to regulatory agencies and delivers emergency alerts to field teams if threshold violations were detected.

Enviance



Outputs

- Regulatory compliance reports
- Environmental condition maps

- Threshold violation alerts

AI Business OS



Key Metrics

- Data collection completion rate
- Compliance threshold violations
- Report submission timeliness



Tools & Integrations

- Locus Platform
- ArcGIS Environmental
- ERA Environmental
- ChemWatch
- Enviance
- ENVI

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