

# How Can Analytics Play a Bigger Role in EHS?



March 2022 | Webinar

# Speakers



**Ryan Janoch**  
Co-Founder of Mapistry



**Courtney Wilson**  
Senior Sales Engineer

# Today's Topics

- ✓ **Foundation:** Getting the data into one place
- ✓ **Basic Compliance:** Inspection Completion Rates & Gap Analysis
- ✓ **Accountability & Training:** Corrective Action & Task Intelligence
- ✓ **Compliance Assurance:** Operator Level Logging
- ✓ **Trends & Outliers:** Water Sampling Data Sets

# The problem



## Non-Compliance is Costly

- Lawsuits cost millions
- Shareholders care about ESG
- Customers abandon unsustainable companies



## Data is Siloed

- Leadership & EHS are in the dark
- EHS is forced to be reactive rather than proactive
- Time is wasted on manual data collection processes



## Resources are Limited

- Minimal EHS staff
- Operations & production take priority over EHS
- Regulatory changes are outpacing EHS staff bandwidth



# Compliance failures are costly

THE ECONOMY > ENVIRONMENT

## Wal-Mart Fined \$110 Million Over Hazardous Waste

The world's largest retailer pleads guilty to dumping hazardous chemicals in city trash bins and sewer systems.

Agence France-Presse  
MAY 28, 2013

MICHIGAN

## State, townships near \$69.5M settlement with Wolverine shoe maker over PFAS contamination



Keith Matheny  
Detroit Free Press

Published 6:38 p.m. ET Dec. 10, 2019



XAVIER BECERRA  
Attorney General

## Attorney General Becerra Announces \$11 Million Settlement against AutoZone for Illegal Disposal of Hazardous Waste Statewide

## Formosa Plastics set to pay \$50 million in pellet pollution lawsuit

It's the largest settlement for a Clean Water Act lawsuit filed by private citizens in the history of the United States.

Claire Goldsberry | Nov 26, 2019

## \$1.9B charged in Environmental Violations

in 2021 (US EPA & local enforcement only, doesn't include legal fees or private litigation, which likely dwarfs this number.)

LOCAL > ENVIRONMENT

## LyondellBasell companies agree to pay \$3.4M fine after feds allege illegal air pollution



Emily Foshall, Staff writer  
Oct. 16, 2021 | Updated Oct. 16, 2021 7:42 p.m.

NEWS

## DuPont, Chemours, Corteva to pay Delaware millions over damage from PFAS or 'forever chemicals'



Jeff Neiburg  
Delaware News Journal

Published 4:32 p.m. ET July 13, 2021 | Updated 7:02 p.m. ET July 13, 2021

## Indiana cement plant to pay millions in fines, upgrades over alleged Clean Air Act violations



Sarah Bowman  
Indianapolis Star

Published 1:51 p.m. ET June 4, 2021 | Updated 4:13 p.m. ET June 4, 2021

Government Business Safety

Eric Miller | Senior Reporter

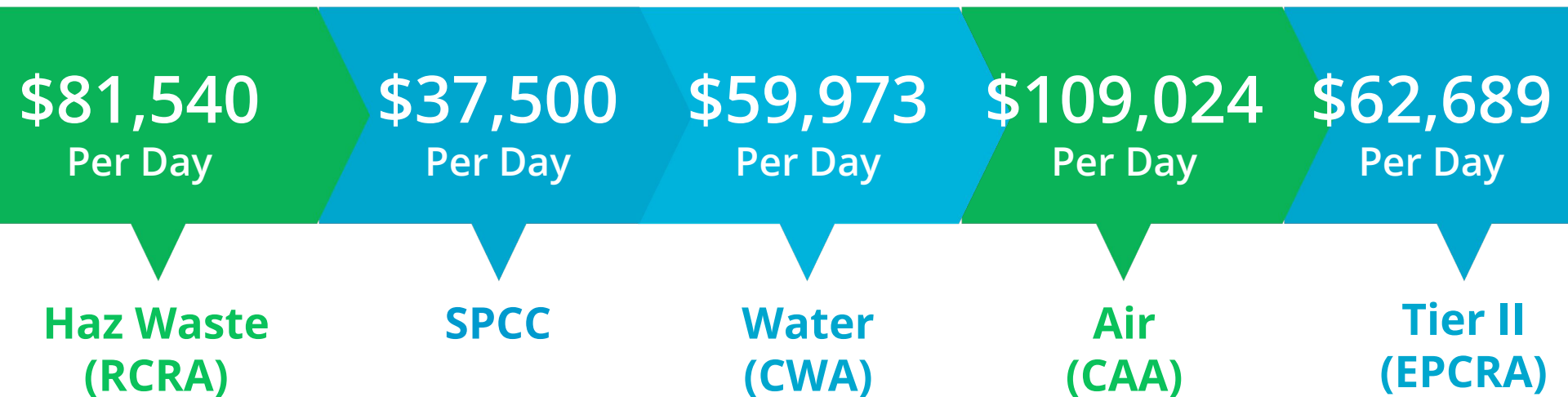
March 9, 2020 10:45 AM, EDT

## EPA Proposes Tougher Rules to Monitor Runoff at Transportation Facilities

News Releases from Region 09  
U.S. EPA fines three Southern California-based companies \$170,000 for hazardous waste violations

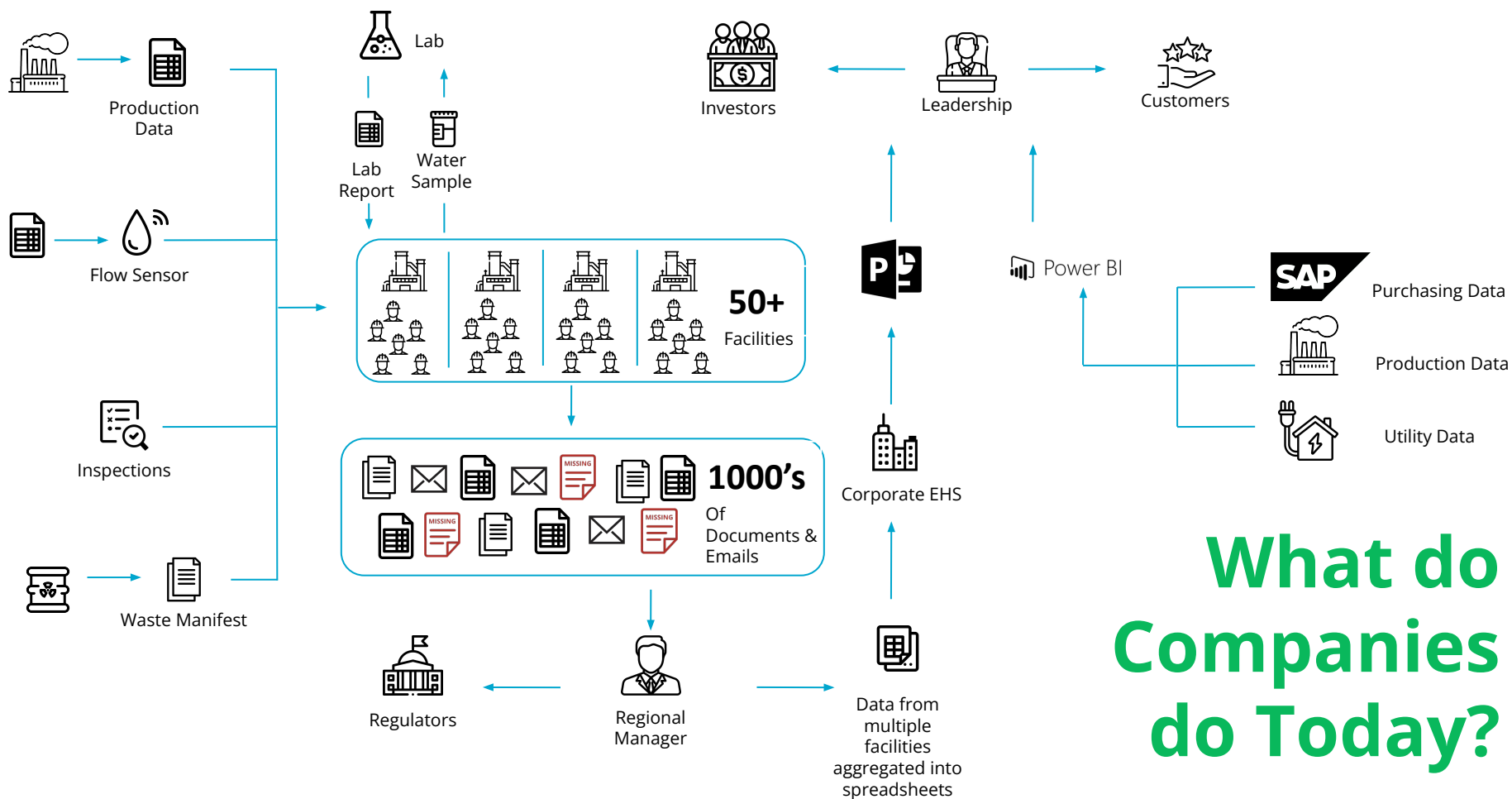
12/16/2018

# Potential Penalty Costs...



*Internal costs on consultants & attorneys are typically 2X the external cost*

Source: <https://www.govinfo.gov/content/pkg/FR-2022-01-12/pdf/2022-00349.pdf>

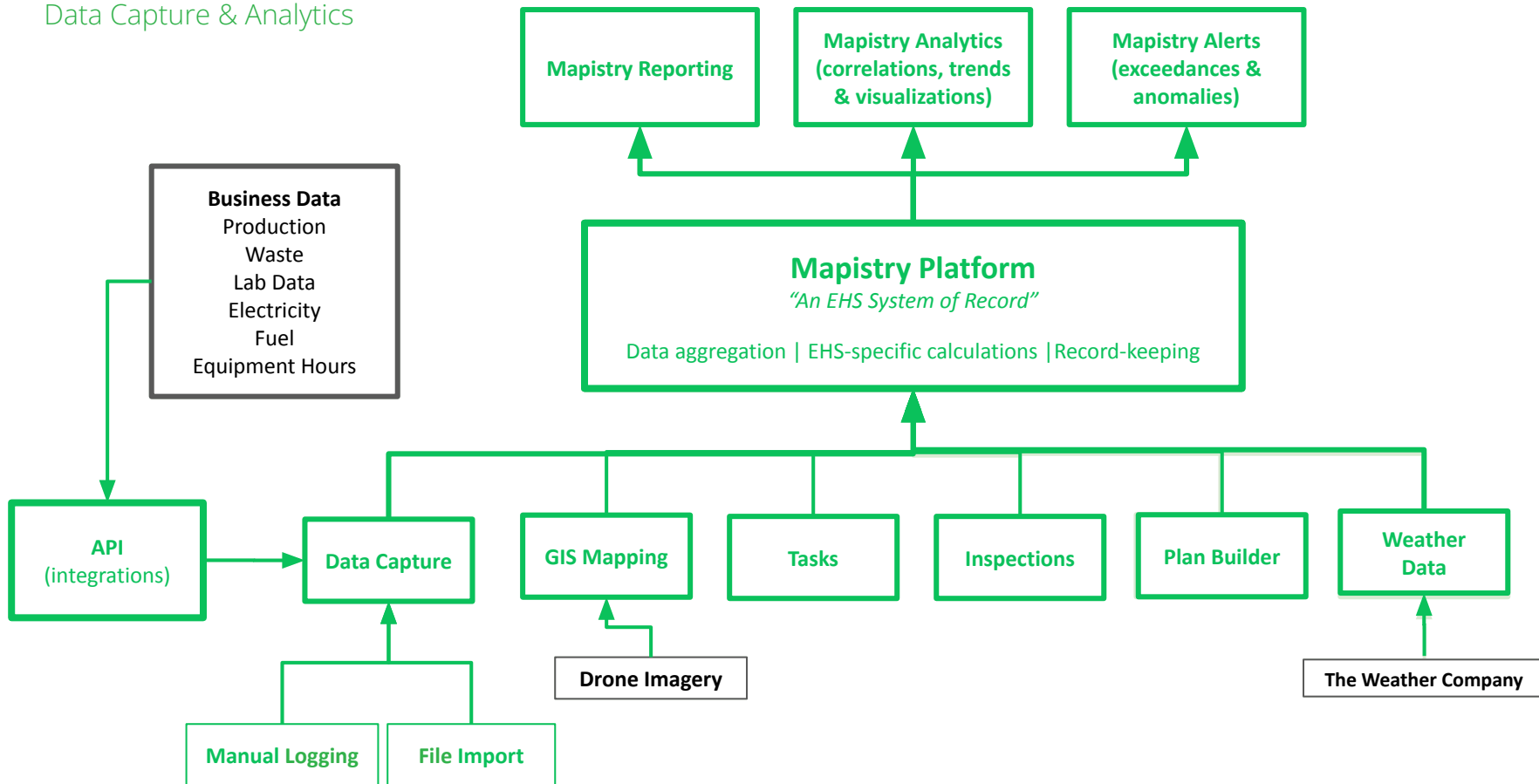


# What do Companies do Today?



A Business Intelligence Platform  
for Industrial EHS Teams 🧐



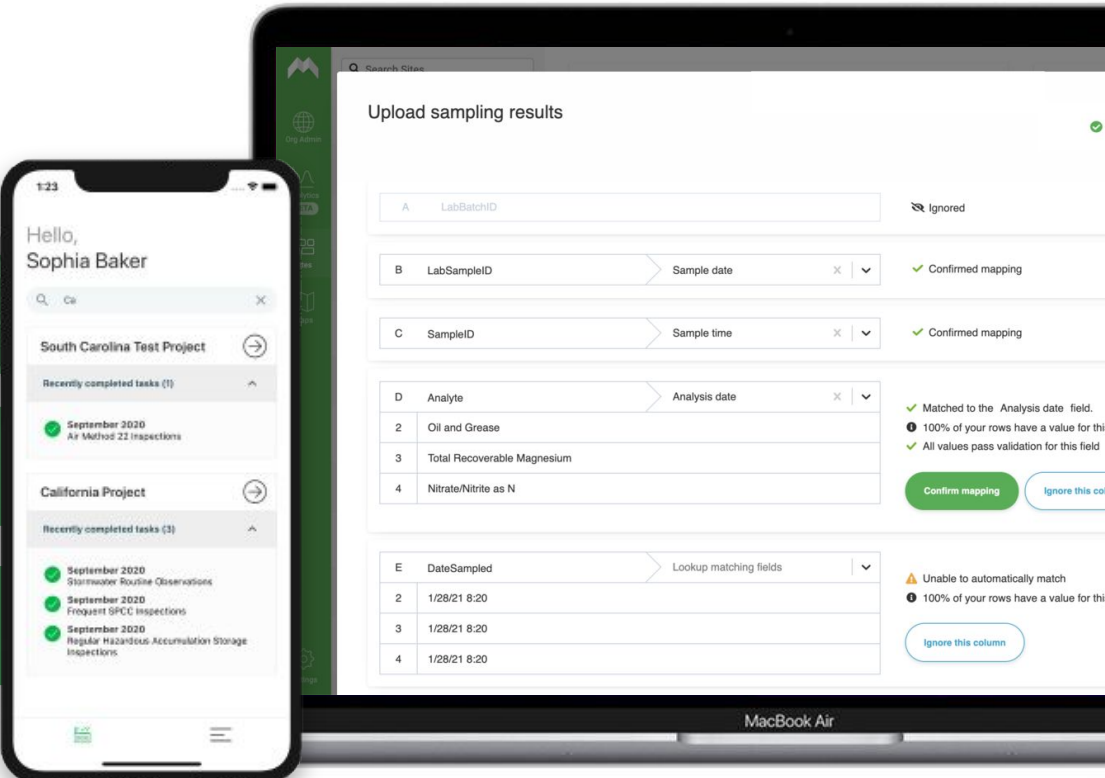


# Data Capture

Mobile App

Easy File Import

API

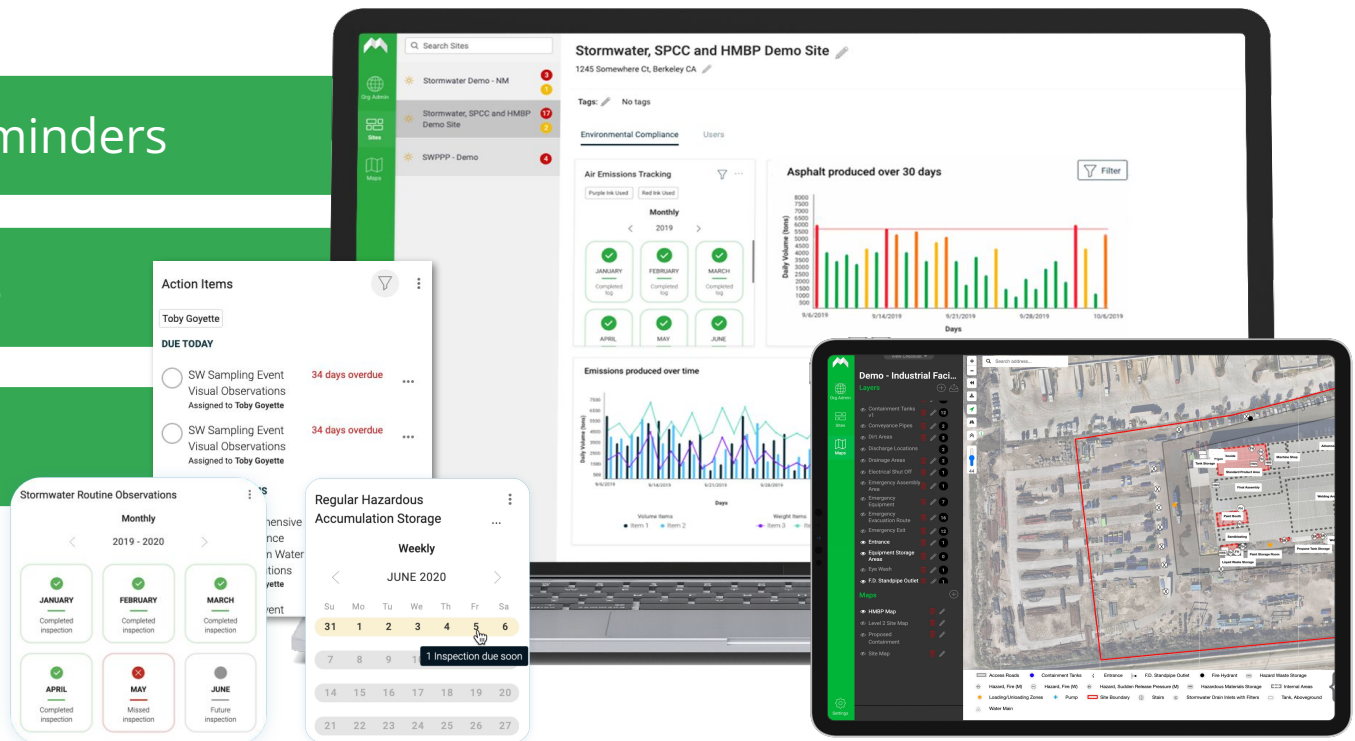


# Communicate

Alerts & Reminders

Tasks

Maps

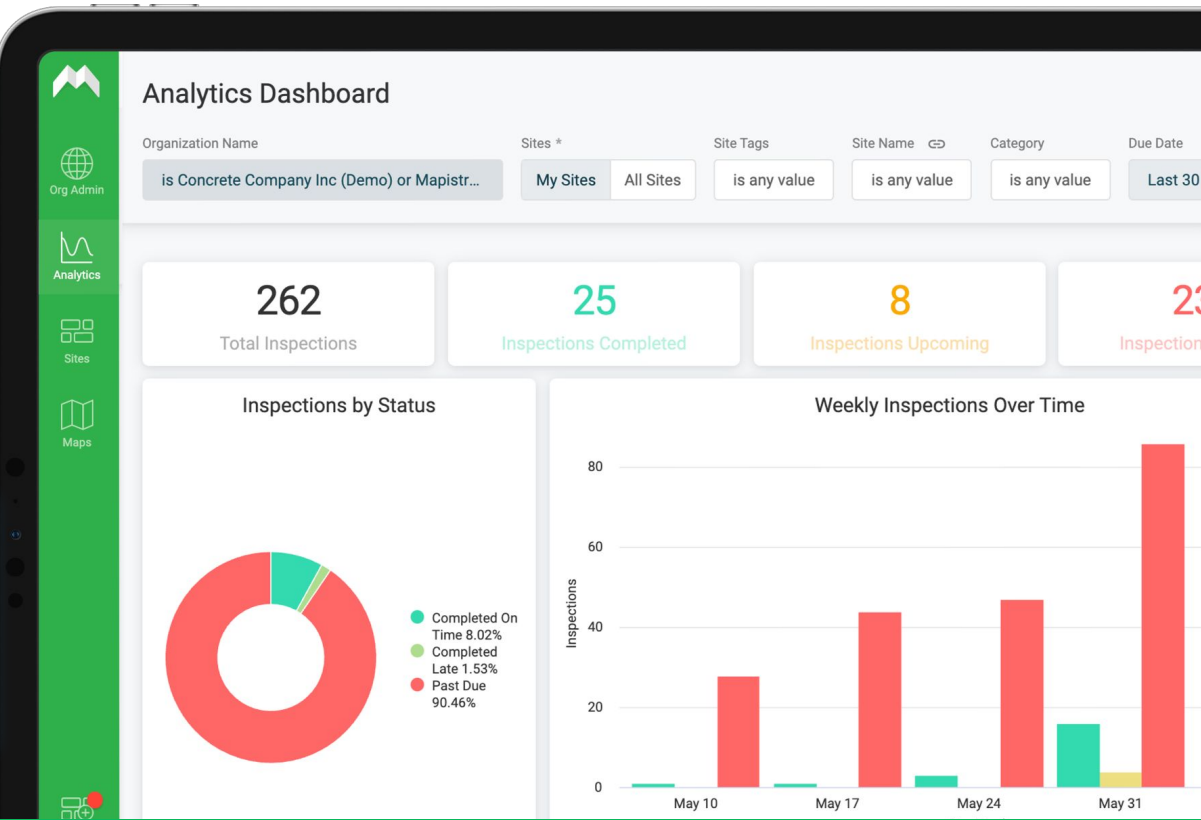
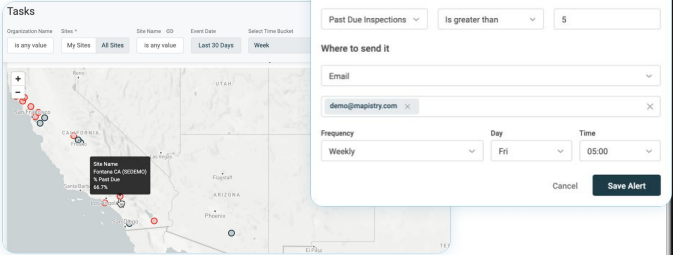


# Analyze

Detect exceedances

Hold staff accountable

Identify risks



# Scenarios & Solutions

How we solve the problems facing EHS teams

# Data Collection Problems

- ✓ **Too Much Work:** Manual data entry into spreadsheets
- ✓ **Missing Data:** Operators forget to log data
- ✓ **No Access:** Paper records are kept at a facility
- ✓ **Opportunity Cost:** EHS Managers don't have time for high value activities (training & problem solving)
- ✓ **Entry Errors:** Manual entry results in transcription errors



# Goal is Compliance with Inspection Requirement & On Time

**Regional EHS Manager:** How can I see how my region is performing?

**National Director:** How can which region is underperforming?

# Goal is Creating Tasks to Avoid Future Issues (Proactive Corrective Actions)

**Regional EHS Manager:** Can I see who is pencil whipping forms?

**National Director:** How can I reward high performing managers?

How can I identify opportunities for follow-up training on the inspection process?

# Goal is Daily Logging for Air Permit Compliance

**Site EHS Manager:** Can I find the gaps in my data?

**National Director:** What sites should I be worried about during an audit or regulatory inspection?

# Goal is Water Permit Compliance & Lawsuit Avoidance

**Site EHS Manager:** What treatment systems are underperforming?

**National Director:** What sites should I be worried about getting sued?

Where should I make capital improvements?



A Business Intelligence Platform  
for Industrial EHS Teams 🧐

# A Platform to Drive Decision Making

Complete, monitor and analyze all your environmental compliance requirements in one place. [Watch a 5 minute demo here.](#)



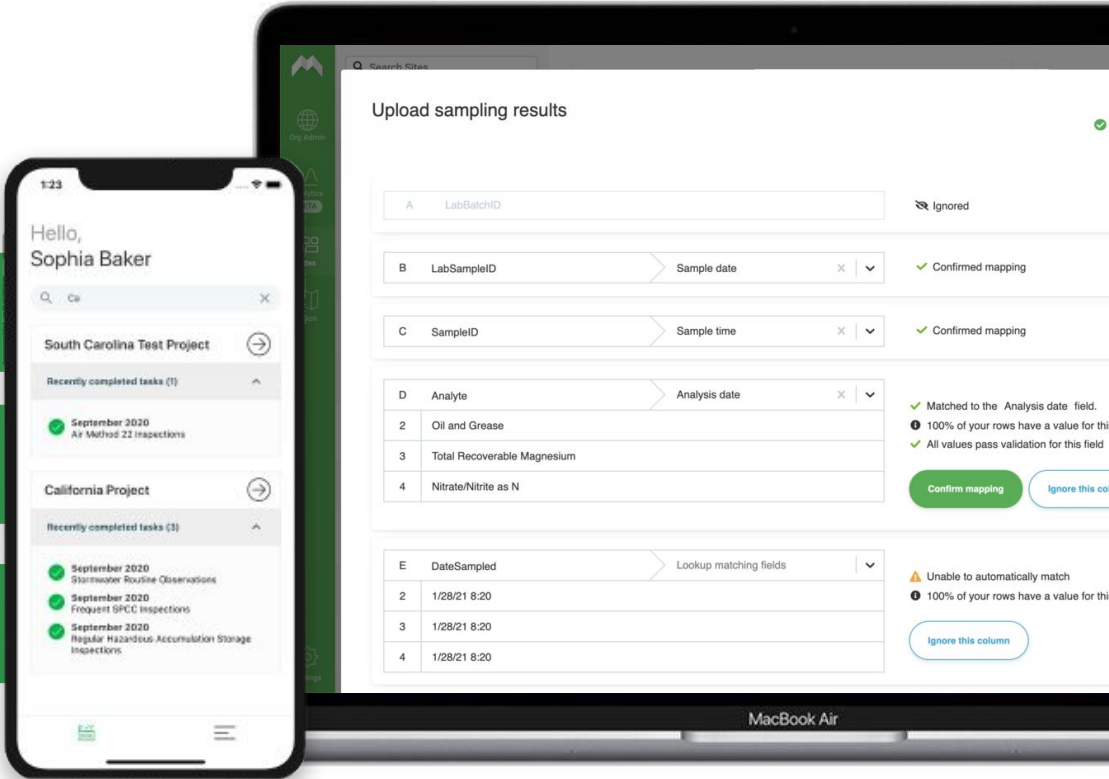


# Data Capture

Mobile App

Easy File Import

API

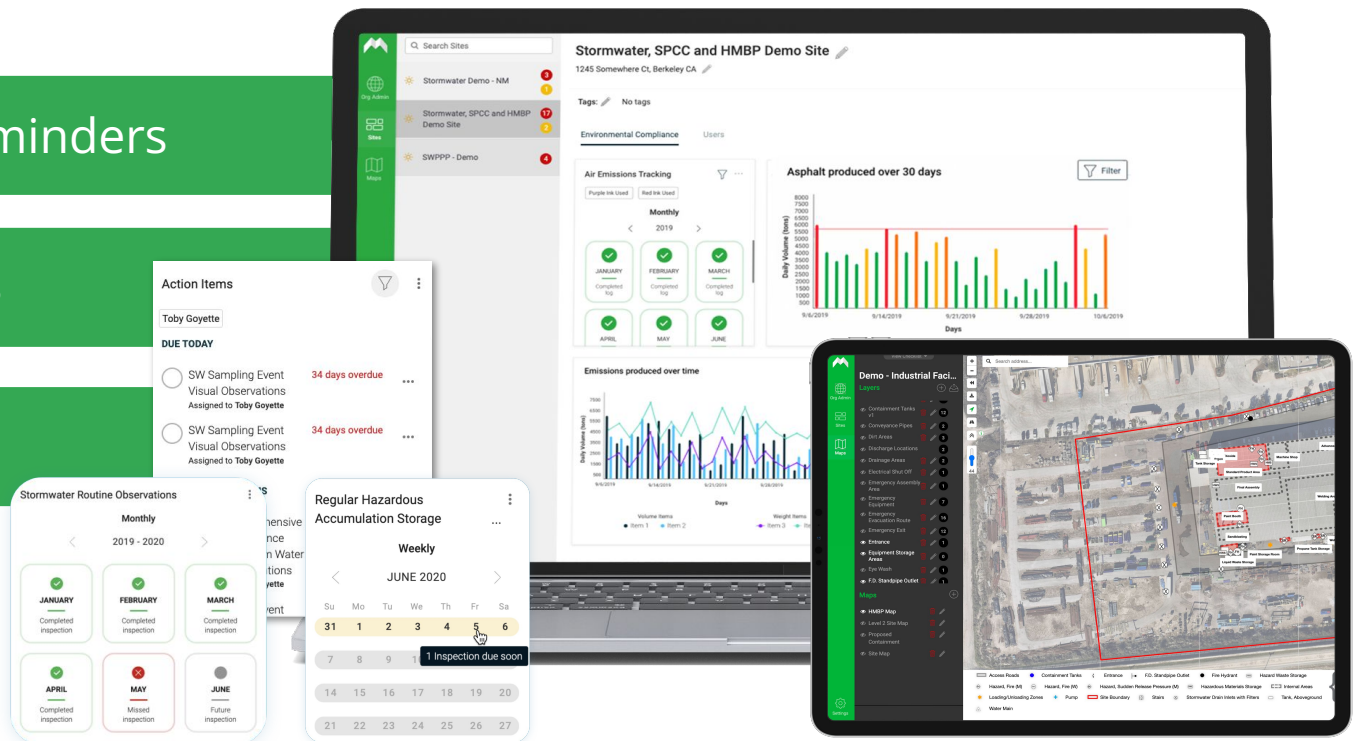


# Communicate

Alerts & Reminders

Tasks

Maps



## Identify risks



# Trusted by

The world's leading industrial and manufacturing companies



# Customer's Showing Their

"OMG Ryan, this is amazing!  
You really just made my day."  
- **Director of Environmental, Transportation Company**

"The Mapistry team is the best!  
Responsive, creative, open-minded, very forward-thinking, smart, professional and overall a pleasure to deal with."  
- **Director of EHS, Precast Company**

"Just awesome!"  
- **Maintenance Manager, Transit Company**

"Awesome company, excellent services to make my job so much easier ... the regulators are thrilled to know everything is located in one location that simply accessible at any time."  
- **Jerry Bailey, EHS Manager, Apex Logistics**

"Love the charts. Love the drilldowns. Really good job with this one guys!"  
- **Business Program Manager Digital Transformation, Paper & Forest Products**

"Our Mapistry team (because you're all OURS now! 😊) is the best in the business and we really do love to tell people that",  
- **Sonya Price, Area Safety Manager MMC Materials**

"You're digital heroes!"  
- **Business Group Manager in Wood & Fiber Products**

"A Very Helpful Program, Supported By A Very Helpful Group Of People. 10/10 I Would Recommend." - **Devin B.**

"Mapistry takes the guesswork out of things and allows us to focus on getting concrete to customers"  
- **Robert McGehee, Director of Environment & Land, Lafarge Holcim**

"Best of the best for 21st Century compliance!"  
- **Regional Environmental Engineer, Global Retail & Transportation Company**

"What Would We Do Without Mapistry?"  
- **Becky H.**

# Questions?

[ryan@mapistry.com](mailto:ryan@mapistry.com)

[courtney@mapistry.com](mailto:courtney@mapistry.com)