



Ricardo Saavedra
Lead Principal
Vizonomy Inc

May 26, 2026

Kurt Woolford
Executive Director, Stormwater Management Commission
kwoolford@lakecounttyil.gov

RE: Request for Proposals - INFLOW FY2026

Dear Kurt,

Vizonomy enthusiastically submits the following response as original creators and supporters of the INFLOW Platform. We are excited to continue building on the system and use our specific knowledge designing similar platforms for the benefit of the Stormwater Management Commission.

After three years of collaboration, the INFLOW platform has catalyzed a need to further these digital efforts through a more expansive data architecture; a more capable project management workflow; new views and mapping updates; and new communication channels and digital forms. Vizonomy has the experience and both the technical and contextual knowledge to help facilitate these initiatives cost-effectively and reliably. The following response offers our approach, budget, and schedule for achieving all such objectives.

Since 2014, Vizonomy Inc. (based in Arlington, VA) has helped organizations and government agencies manage large geospatial datasets and custom web experiences. From creating ArcGIS and CARTO architectures that feed project and environmental data into the Mile High Flood District's (in Denver, CO) project management solution to other systems that monitor tree reforestation efforts through satellite imagery or visualize flood risk across urban communities (in Washington DC), we offer elegant and purposeful solutions.

In summary, Vizonomy is enthusiastic to once-again engage with Lake County's Stormwater Management Commission. We will work diligently to continue enhancing the team's product offering and provide thoughtful insight. Our team is at your disposal.

Ricardo Saavedra

Thank you,
Ricardo Saavedra

INFLOW FY26

CAPITAL MANAGEMENT & PLANNING SOFTWARE

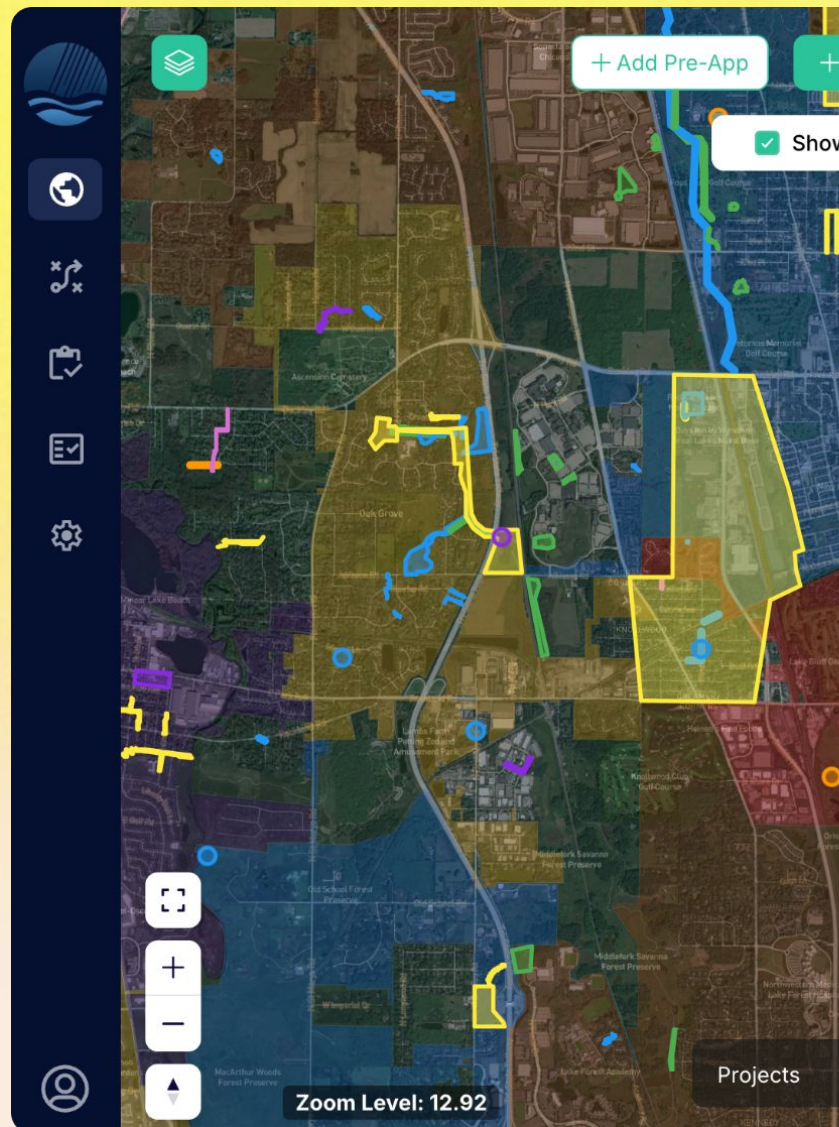
Prepared for:

Kurt Woolford
Executive Director
Stormwater Management
Commission in Lake County, IL

May 26, 2026

Created by

Ricardo Saavedra
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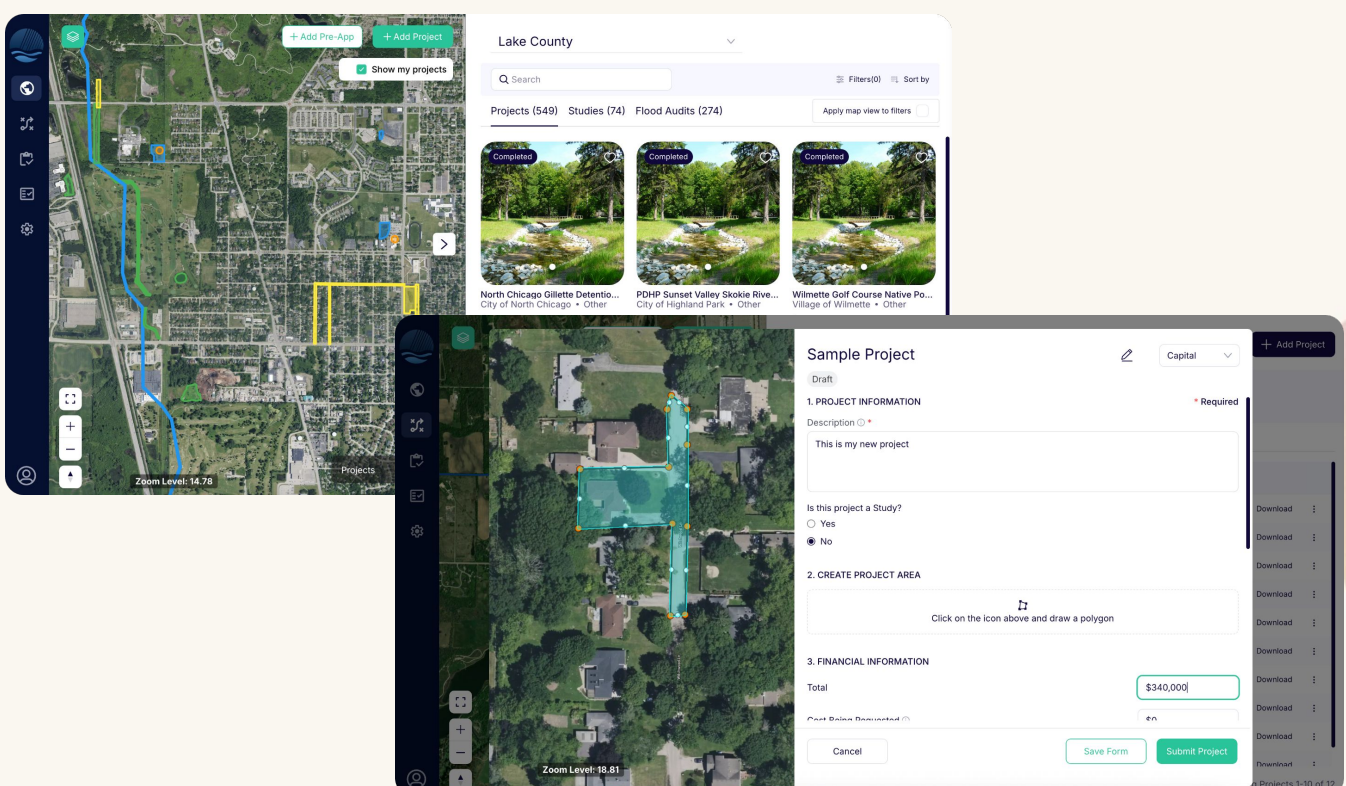


Project Objectives

The **Stormwater Management Commission in Lake County** continues to envision a future where project management and public communication can coexist within a centralized digital framework. Following-up on its initial investment in 2022, the team plans to accelerate adoption of the new INFLOW platform by further streamlining multiple datasets and creating new workflows that will allow internal staff to better monitor and evaluate projects, track changes, and receive feedback. The redesigned Watershed Management Assistance Grant and Watershed Development Permit workflows are intended to enhance public accessibility and streamline staff retrieval and analysis of results, ultimately supporting more effective disbursement. Additional datasets, aerial imagery, and multi-polygon support will be added. And feedback collected from the public and staff will be included in this year's release.

Lastly, this year's investment includes new AI functionality that will allow users to query the map using natural language, with graphs, tables, and results also generated on-demand. Such capabilities will adhere to our philosophy that Inflow's results should drive action. Through custom reporting and analysis, the system will be perfectly positioned to enhance future decision making.

The INFLOW codebase builds on the investments made by other municipalities. Today's solution builds on that legacy and on the custom features and workflows to achieve all objectives outlined in these pages at a fraction of their original cost. **The successful completion of this phase represents a long-term investment in INFLOW's digital infrastructure** – one that will yield ongoing dividends, while improving data accessibility, and enhancing service delivery for both the agency and the communities it serves.



Project Scope

The following provides a description of all activities outlined in the scope of work and budget.

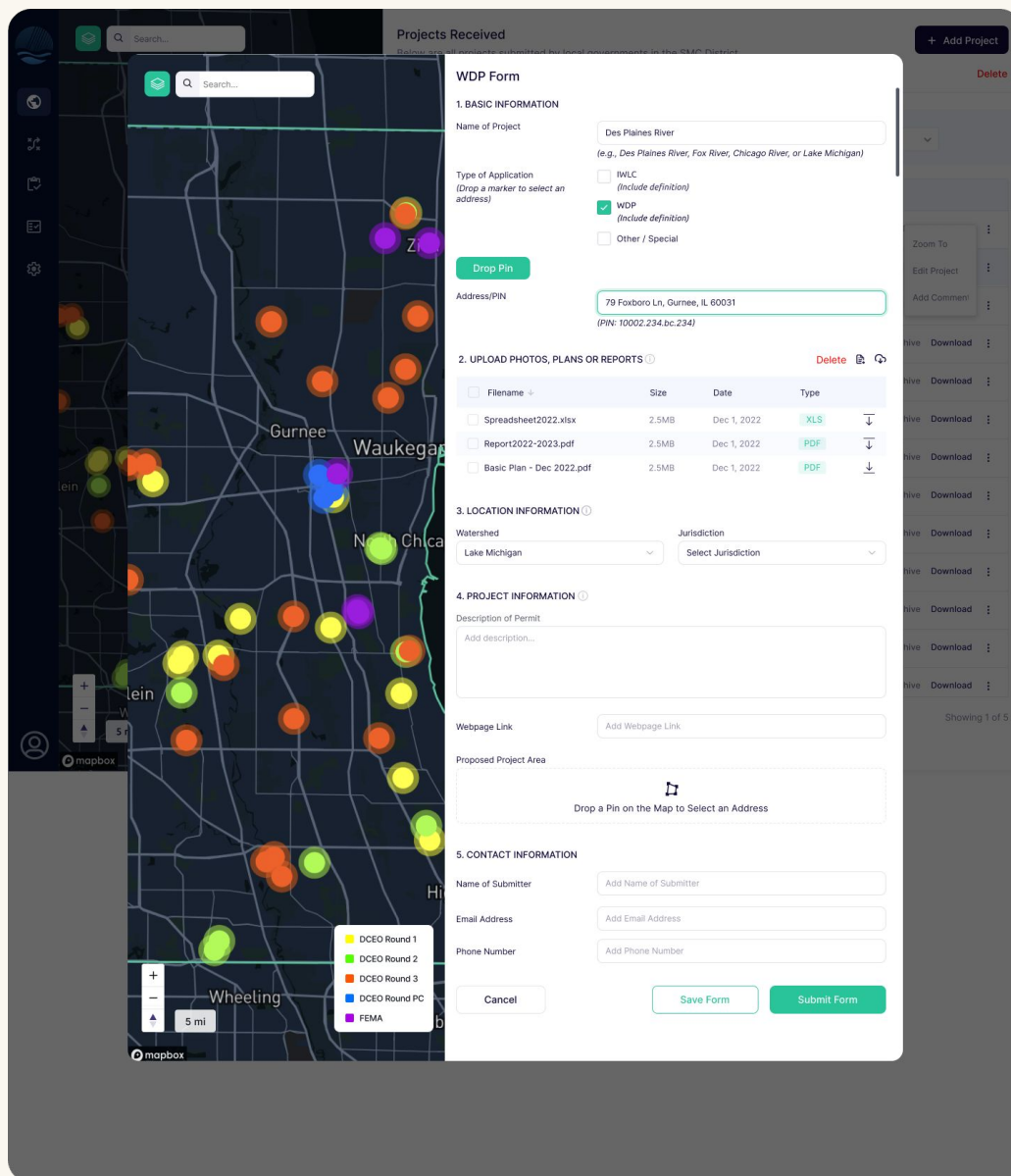
1. New WMB/WMAG Workflow Similar to the existing CIRS Intake Form, the WMB Application will become digitized within INFLOW's architecture. Converting this form to a digital format with integrated mapping would significantly streamline the application process. Applicants could drop a pin or draw a boundary to define the project location rather than typing an address, instantly auto-populating watershed name, jurisdiction, and even relevant SMC-adopted Watershed Management Plan references. A digital form could also enforce required fields, calculate cost-share figures automatically, and flag missing attachments before submission – reducing back-and-forth with SMC staff. Embedded maps would further allow reviewers to visually assess inter-jurisdictional reach, proximity to critical facilities, and drainage acreage at a glance, making benefit scoring faster and more consistent across applications.

The screenshot shows the 'Applicant & Consultant Contact' section of the application. The progress bar indicates 20% completion. The left sidebar shows the following steps: 1. Proposal Request (Not started), 2. Applicant Contact (In progress), 3. Project Type & WMAG (Not started), 4. Financial Information (Not started), 5. Summary of Benefits (Complete), and 6. Review & Submit (Not started). A 'Need help?' link is also present. The main content area is titled 'SECTION 2 OF 6 Applicant & Consultant Contact' and includes the following fields: 'Legal Organization Name' (Village of Libertyville), 'Organization Contact Name' (Jane Doe), 'Title' (Public Works Director), 'Street Address' (200 N Milwaukee Ave), 'City, State, Zip Code' (Libertyville, IL, 60048), 'Phone Number' ((847) 555-0100), and 'Email Address' (jdoe@libertyville.gov). There is also a section for 'Project / Consultant Contact' with a checkbox for 'Using a consultant' and a note: 'No consultant — skipping this section. Toggle above if one is involved.' At the bottom, there are 'Back' and 'Continue' buttons.

The screenshot shows the 'Financial Information' section of the application. The progress bar indicates 20% completion. The left sidebar shows the following steps: 1. Proposal Request (Not started), 2. Applicant Contact (Not started), 3. Project Type & WMAG (Not started), 4. Financial Information (In progress), 5. Summary of Benefits (Complete), and 6. Review & Submit (Not started). A 'Need help?' link is also present. The main content area is titled 'SECTION 4 OF 6 Financial Information' and includes the following fields: 'Total Project Cost Estimate' (\$ 0.00), 'Requested WMB Share' (\$ 0.00), and 'Applicant Share' (\$ 0.00). There is also a section for 'OPTIONAL — SMC STAFF ASSISTANCE' with fields for 'Requested Hours from SMC Staff' (0 hrs) and 'In-Kind Applicant Hours' (0 hrs). A text area for 'In-Kind Services Description' is also present. At the bottom, there is an 'Important' note: 'Include a Preliminary Budget and Project Schedule of Work with this application.' and a 'Budget & Schedule Attachments' section with a 'Drop files or click to upload' button.

Project Scope

2. New WDP Module As an extension to the Pre-Application workflow, the WDP module will include prototyping, web design, and development of its various sections: Proposal Request, Contact, Project Information, Financial, Description, WMB Benefits, WMAG Benefits, Statement of Local Commitment, Upload Documents. All information will be received in a new view, similar to how Projects and Pre-Apps are received today.



Project Scope

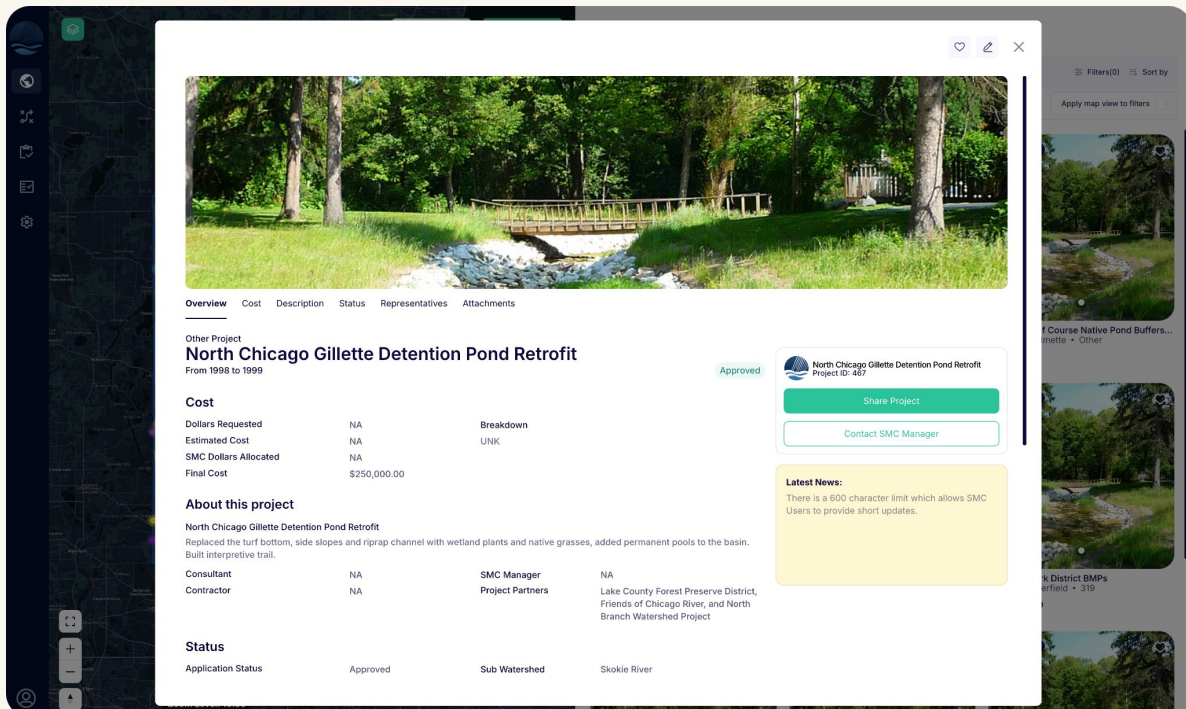
3. General Updates The upcoming changes to the Inflow application fall into a few broad themes: new functionality, quality-of-life fixes, and a more polished user experience.

On the new functionality front, the biggest additions are a fully functional RFP WMB/WMAG module that brings the grant application process into the platform, and an AI chatbot that lets users query project data and generate PDF reports on demand. These two features represent a significant expansion of what the application can do.

The CIRS module is getting the most attention in terms of fixes and refinements. It's being renamed "Report a Concern Form" throughout, and a number of longstanding issues are being addressed – routing logic, contact visibility, character limits, and error display among them. The module is also gaining save-draft functionality, PDF export, and automated email notifications when SMC staff take action, making it considerably more useful for both submitters and reviewers.

More broadly, several improvements cut across all modules: save-draft and submit options everywhere, a required timestamp on all form submissions, and digital signature support for WMB members. On the user management side, small but meaningful tweaks include better role visibility, a password toggle, and additional fields for certain user types.

The UI is also getting a general tidy-up – layout inconsistencies are being resolved, the map is being enlarged, and the photo carousel is being refreshed – bringing the overall look and feel of the application more in line with a polished, professional tool.



Project Scope

4. Mapping Updates The mapping updates center around making the map a more powerful and flexible tool for both general users and SMC staff.

The most impactful change is support for multi-part polygons when adding or editing projects, allowing users to define more complex, real-world project boundaries rather than being constrained to a single shape. Alongside this, the introduction of ESRI topographic basemaps and a time slider for historical aerials will give users meaningful spatial and temporal context – particularly useful when assessing how a site or watershed has changed over time.

On the data intelligence side, the map will begin leveraging parcel intersections to automatically determine whether a project falls within floodplains, floodways, or wetlands, reducing the need for manual lookup and making the application process more accurate and efficient.

SMC staff will also get a set of exclusive layer toggles for address and PIN numbers as well as road labels – small additions that make a real difference for internal review and site verification workflows.



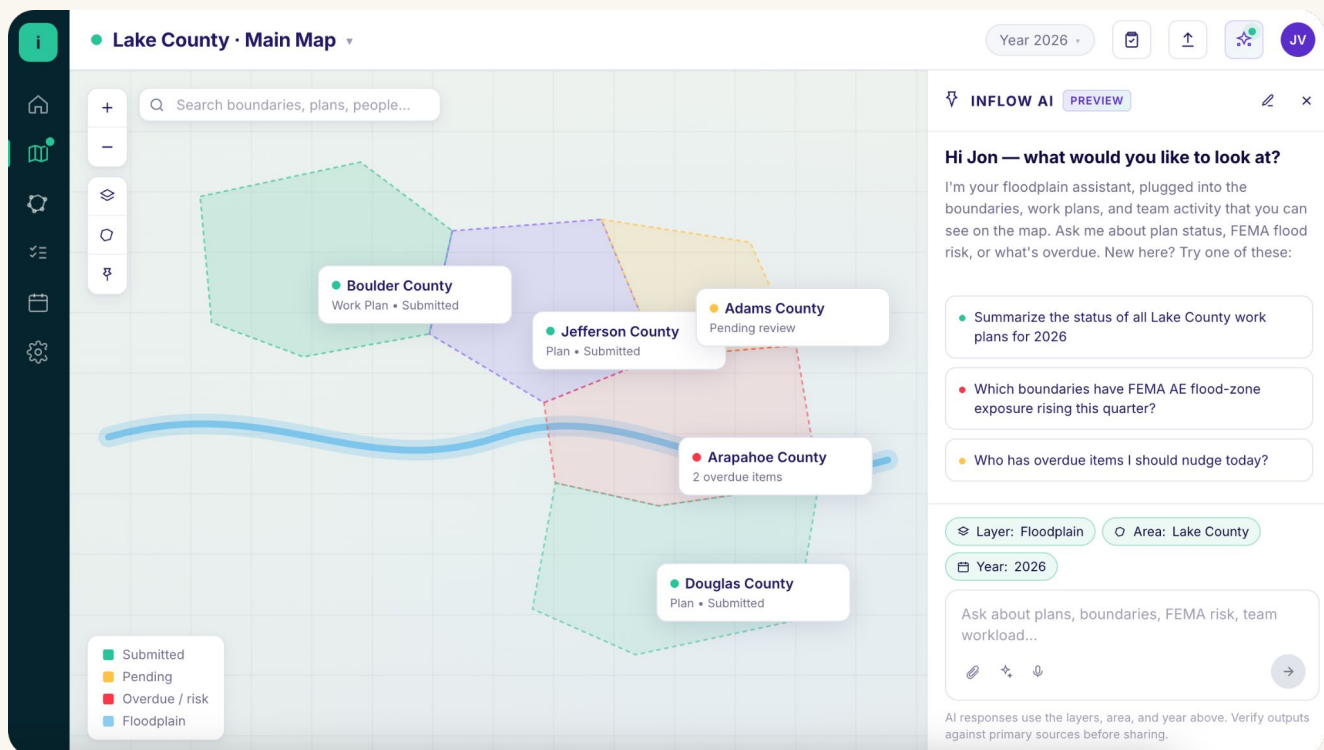
Project Scope

5. AI Integration Integrating AI into a mapping and project management platform like Inflow opens up a fundamentally different way of interacting with data — shifting users from manually digging through records to simply asking questions and receiving meaningful, contextual answers.

Rather than navigating menus and filters to find what they need, users could ask things like *"Which projects in the Des Plaines watershed have unresolved drainage concerns?"* or *"Show me all capital improvement projects submitted in the last two years that received full WMB funding."* The AI would synthesize across modules, map layers, and historical records to surface insights that would otherwise require significant manual effort.

For example, a query like **"Summarize flood hazard reduction project activity by watershed over the past five years"** might return something like:

A short narrative noting that the Des Plaines and Fox River watersheds have seen the highest concentration of flood mitigation activity, followed by a table breaking down project counts, average costs, and funding approval rates by watershed — and a bar chart visualizing total WMB dollars awarded per watershed per year.



Project Approach

Or a query like *"Are there any patterns in CIRS concern reports near wetland areas?"* might produce:

A map overlay highlighting report clusters near wetland boundaries, accompanied by a pie chart showing concern type distribution in those areas, and a paragraph summarizing whether those reports correlate with specific seasonal periods or recurring jurisdictions.

Beyond discovery, AI can accelerate reporting. A reviewer preparing for a board meeting could prompt *"Generate a project status summary for all active WMB grants"* and receive a formatted PDF with a narrative overview, a project-by-project status table, and flagged items needing attention — in seconds rather than hours. This kind of on-demand reporting transforms how staff communicate progress internally and with stakeholders.

Ultimately, the value of AI in this context isn't just speed — it's the ability to connect dots across datasets that rarely get analyzed together, turning a project management platform into a genuine decision-support tool.

6. Maintenance Activities Once all features and updates have been approved and released, our team will provide necessary support to data, design, and development issues; library updates; and minor enhancements. The team will provide 12 hours of support per month for a total of 144 hours. All activities will be catalogued and submitted for review on a monthly basis.

Maintenance Measures

Vizonomy will continue to provide comprehensive maintenance and support services, ensuring optimal performance and reliability. Services will include regular system updates, patches, and upgrades to the underlying libraries - such as Mapbox, ArcGIS.js, and Node - to incorporate the latest features and security enhancements. Additionally, the team will offer technical support with defined response times for troubleshooting and resolving any issue related to the application's functionality. Proactive monitoring, periodic performance assessments, and user training will also be part of the maintenance plan to ensure seamless operation and user satisfaction. A summary of available activities is listed below:

Adaptive Maintenance:

- System Compatibility Updates: Adjustments to ensure the application remains compatible with new versions of operating systems and software platforms.
- Integration Adjustments: Modifications to maintain seamless integration with updated third-party tools or databases.

Corrective Maintenance:

- Bug Fixes: Identification and resolution of software defects or issues affecting functionality.
- Performance Troubleshooting: Investigation and correction of performance bottlenecks or errors impacting system efficiency.

Preventive Maintenance:

- Regular System Backups: Scheduled backups of application data and configurations to prevent data loss.
- Routine Health Checks: Periodic reviews of system performance and security settings to identify and address potential issues before they impact operations.

Perfective Maintenance:

- Feature Enhancements: Implementation of new features or improvements based on user feedback or evolving requirements.
- UI Updates: Refinements to the application's interface to improve usability and user experience.



Types of Software Maintenance

Proposed Team

The team we are fielding excels at product innovation and relies on modern web design principles and advanced geospatial technology to fulfill the agency's needs. **Our multidisciplinary team is able to advise SMC from a technical, operational and strategic perspective.** Most staff included have been involved in the products previously referenced, including the [Confluence Data Hub](#), and [INFLOW](#).

Throughout project's lifespan, we expect to have various team members collaborate: from our **design and graphics teams** who will lead prototyping in Figma; to our **mapping, visualization, and frontend and backend teams** who will implement the platform using React, MySQL, Mapbox, ArcGIS API, D3, Node and other tools. Our steady hand throughout the project will be our Product Specialist who will provide focus, transparency, and steady continuity from wireframe to final release.

Key Team Members

| | |
|-------------------|--------------------|
| Dotty Condori | UX/UI Designer |
| Addis Sempertegui | Mid-Level Engineer |
| Angel Cussi | Senior Engineer |
| Ricardo Saavedra | Product Specialist |

Vizonomy Team (for specialized or surge capacity as needed)

| UX/UI Design | Backend | Frontend | Geospatial | Data Analysis | Product |
|----------------|--------------------|----------------|------------------|---------------|------------------------|
| Rosalba Romero | Addis Sempertegui* | Melvin Cursi* | Jorge Monroy* | Angel Cursi* | Ricardo Saavedra* |
| Diego Condori | Danilson Burgoa* | Limber Vallejo | Cesar Gauchalla* | Eddy Mamani | Jóse Quintanilla |
| Dotty Condori* | Keffick Benavides | Pablo Vargas | Gabriel Safadi | Eyvind Emilio | Jóse de Lara (PowerBI) |
| | Jóse Ramirez* | Sergio Condori | | | Jairo Anaya* |
| | Rolando Troche | | | | |

*Senior

Project Management: Budget

Below is the proposed fixed-price estimate (\$209,024) for all proposed enhancements, modules, and AI integration. Invoices are submitted following the delivery and acceptance of all requested features. And as previously observed, Vizonomy strives to provide additional services at no cost to SMC.

Lake County Inflow - Feature Enhancements

2026 RFP Scope Planning

| Subtotal Hrs | Contingency | Total hours | Rate | Budget | AI Budget |
|--------------|-------------|-------------|-------|-----------|-----------|
| 922 | 20% | 1106.4 | \$160 | \$177,024 | \$32,000 |

Last Updated Tuesday, May 26, 2026

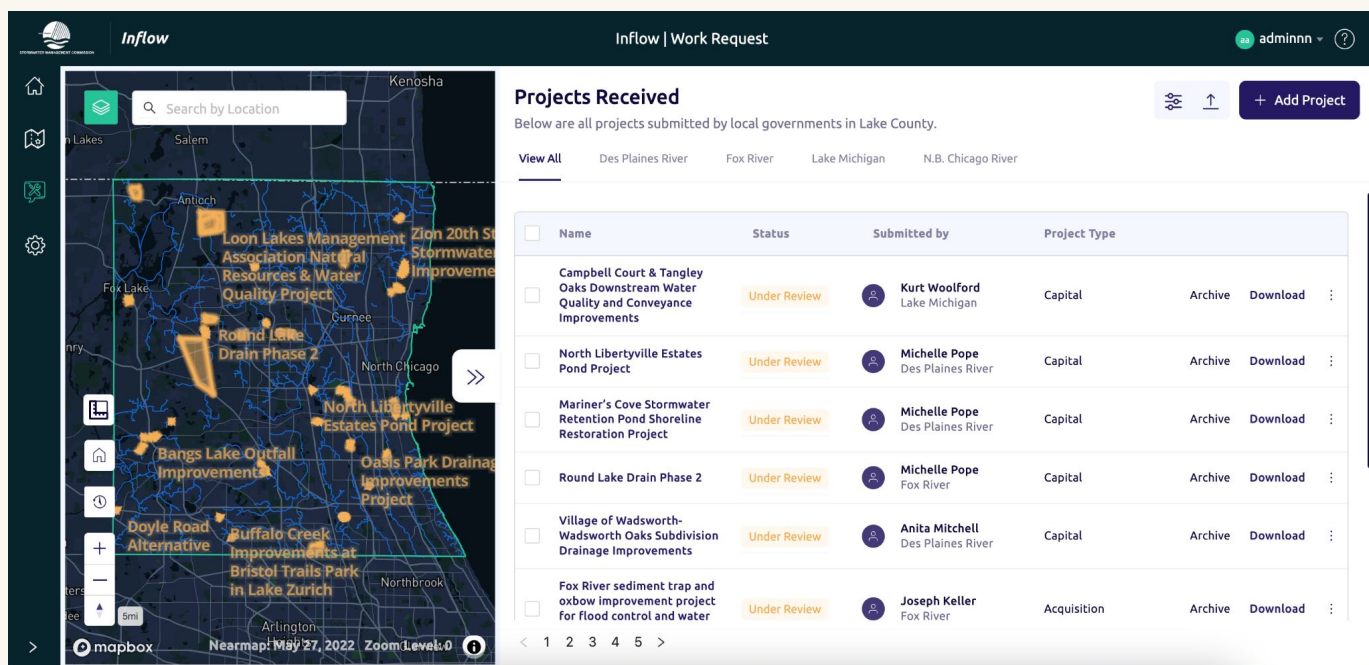
| ID | Details / Notes | Category | Theme | Effort | Dev Hrs | Design Hrs | Total Hrs | SMC / Viz Comments |
|----|--|----------------|------------------|--------|---------|------------|-----------|--|
| 1 | List role where "Lake County" is currently located | User Interface | Authentication | Medium | 4 | 1 | 5 | New field (Association) needed in ESRI Service. Prompt them to update their information upon their next login. |
| 2 | Add an "Association" or "Company" field for users in the "Other" category | User Interface | Authentication | Low | 6 | 2 | 8 | |
| 3 | Add Sorting/Filter: Year; Project Status; Subshed; Jurisdiction: State Rep/Senate; Congress; County Board District; Completed Year | Mapping | Main Map Filters | High | 16 | 4 | 20 | Email will include CC of SMC staff user who initiated action; if SMC staff submitted CIRS, use contact person listed on last page from inflow@lakecountynil.gov Use library similar to "Combined with Magic Thumb" https://www.magictoolbox.com/magicscroll/examples/Before |
| 4 | Change "CIRS Form" to "Report a Concern Form" in all cases. | CIRS | General | Low | 0 | 1 | 1 | |
| 5 | For all modules must have a field for Date/Time submitted. | All Modules | General | Medium | 6 | 0 | 6 | |
| 6 | Email submitter of SMC action/comments for CIRS | CIRS | Notifications | Medium | 24 | 8 | 32 | |
| 7 | Update the photo carousel to something | User Interface | Photos | Low | 1 | 4 | 5 | |
| 8 | Hide SMC users from sign-up page | User Interface | Authentication | Low | 4 | 2 | 6 | |
| 9 | Add "See password" toggle button. | User Interface | Authentication | Low | 1 | 3 | 4 | Ability for Parcel numbers, address numbers, road labels to be turned on and off by SMC users only (CIRS) |
| 10 | By default, apply map view to filters automatically | Mapping | Mapping | Low | 8 | 1 | 9 | |
| 11 | SMC Users Only: Add Toggle layers for Address/PIN numbers and Road Labels | Mapping | Mapping | Low | 8 | 4 | 12 | |
| 12 | Breakdown of project expenses covers "Latest News" in some cases | User Interface | Detail Page | Medium | 0 | 4 | 4 | Combine with pre-app module When a project is submitted, grab the name of the subwatershed, County board district, senate/rep, and congress district and import those into the corresponding fields in the attribute table |
| 13 | Change UI so that all attachments in single column (under "Latest News"?) | User Interface | Detail Page | Medium | 0 | 4 | 4 | |
| 14 | If in parcel, use parcel intersections for floodplains/floodway/wetlands (yes/no) https://maps.lakecountynil.gov/arcgis/rest/services/GISMapping/WABParcels/MapServer/12 | CIRS | Mapping | Medium | 20 | 2 | 22 | Combine with pre-app module When a project is submitted, grab the name of the subwatershed, County board district, senate/rep, and congress district and import those into the corresponding fields in the attribute table |
| 15 | "Point location is/is not within Mapped FEMA Flood Hazard Area" | CIRS | Mapping | Medium | 4 | 2 | 6 | |
| 16 | Update record number field format: CIRS-YYYY-0001. Retroactively assign IDs to existing CIRS submissions. | CIRS Module | Record Format | High | 4 | 0 | 4 | Combine with pre-app module When a project is submitted, grab the name of the subwatershed, County board district, senate/rep, and congress district and import those into the corresponding fields in the attribute table |
| 17 | Create new WDP submittal Module | WDP Module | WDP | High | 80 | 16 | 96 | |
| 18 | Calculate the automatic boundary features (ie County board, state sen, etc) when a project is submitted | Mapping | Mapping | High | 20 | 2 | 22 | Combine with pre-app module When a project is submitted, grab the name of the subwatershed, County board district, senate/rep, and congress district and import those into the corresponding fields in the attribute table |
| 19 | Add Multi-part polygons (limit of 5) within the 'Add Project' and 'Edit Project' workflows. If needed, prioritize the 'Project' workflow. | All Modules | Mapping | High | 80 | 8 | 88 | |
| 20 | Import basemap esri topographic maps and add Time slider tool - for the historical aerials; https://maps.lakecountynil.gov/maps/online/ | Mapping | Mapping | High | 24 | 8 | 32 | Combine with pre-app module When a project is submitted, grab the name of the subwatershed, County board district, senate/rep, and congress district and import those into the corresponding fields in the attribute table |
| 21 | Save draft and submit option for all modules | All Modules | General | Medium | 32 | 8 | 40 | |
| 22 | Address various CIRS issues: Error message grayed out in upper right-hand corner; Need a bigger map; Increase description limit to 5000 characters; Increase responses limit to 1000 characters; Save draft; Increase staff actions to 10; Community contact; EO, and Wetland contacts not showing up sometimes; Unincorporated to Eric Steffan for EO, Community contact; SMC CWS for wetlands? | CIRS | General | High | 60 | 16 | 76 | Combine with pre-app module When a project is submitted, grab the name of the subwatershed, County board district, senate/rep, and congress district and import those into the corresponding fields in the attribute table |
| 23 | Add approx. 60 layers each of 3D models, LIDAR, datasets and DEMs | Mapping | Mapping | High | 80 | 20 | 100 | |
| 24 | Add full functional RFP WMB/WMAG Module | New Project | General | High | 200 | 60 | 320 | Combine with pre-app module When a project is submitted, grab the name of the subwatershed, County board district, senate/rep, and congress district and import those into the corresponding fields in the attribute table |
| 25 | Add AI Chatbot to Interface (demo: http://3.227.0.232:8501/) to allow users to query project data and generate PDF Reports | User Interface | General | High | 160 | 40 | 200 | |
| 26 | Add PDF of CIRS | CIRS | General | Medium | 40 | 16 | 56 | Combine with pre-app module When a project is submitted, grab the name of the subwatershed, County board district, senate/rep, and congress district and import those into the corresponding fields in the attribute table |
| 27 | Add Digital signature for WMB members. Include new 'WMB' attribute. | WMB | General | Medium | 16 | 4 | 20 | |

[Open Link](#)

* To be implemented at no cost

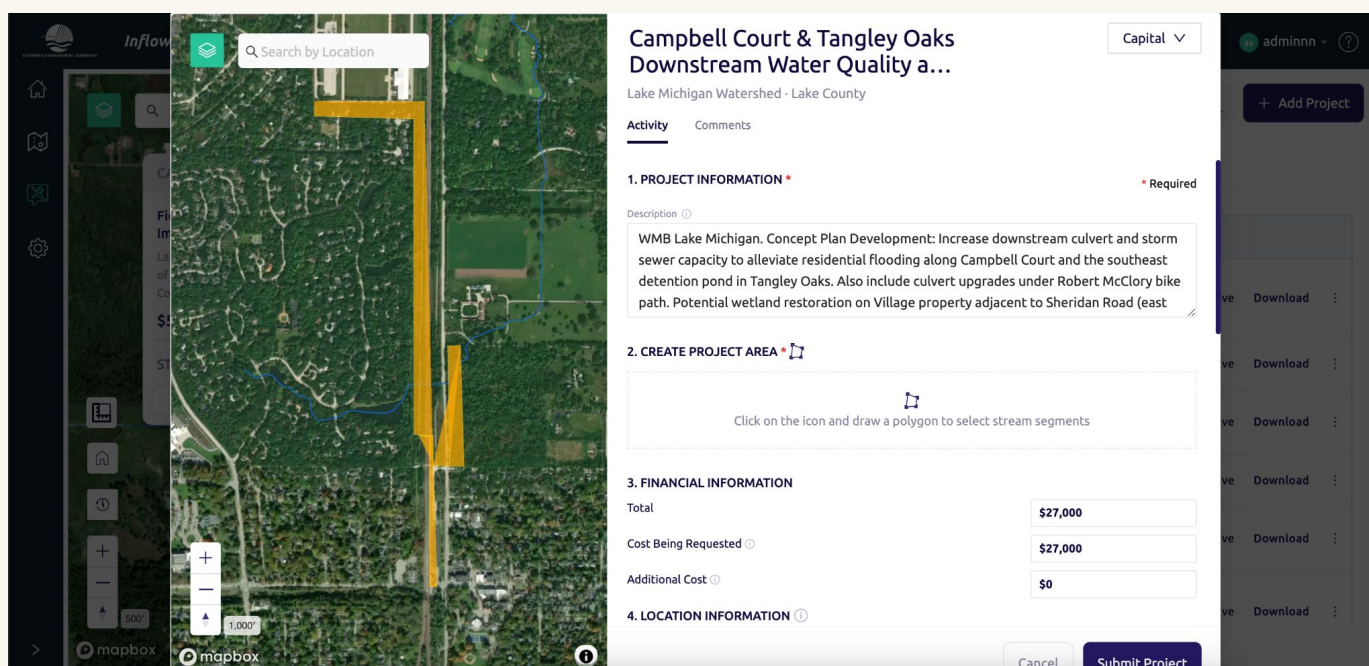
Similar Previous Work

Inflow (2022) for Lake County, Illinois' **Stormwater Management Commission** is smaller version of the Mile High Flood District's Confluence solution. Using CARTO/ArcGIS, React, and a SQL database, the online solutions features a project management system with notifications, mapping, project creation forms, and email notifications.



The screenshot shows the 'Inflow | Work Request' dashboard. On the left is a map of Lake County, Illinois, with various project locations marked. The main content area is titled 'Projects Received' and lists all projects submitted by local governments in Lake County. Below the title are filters for 'View All', 'Des Plaines River', 'Fox River', 'Lake Michigan', and 'N.B. Chicago River'. The table below shows a list of projects with columns for Name, Status, Submitted by, and Project Type. Each row includes checkboxes for 'Archive' and 'Download'.

| Name | Status | Submitted by | Project Type | Archive | Download |
|---|--------------|-------------------------------------|--------------|---------|----------|
| <input type="checkbox"/> Campbell Court & Tangley Oaks Downstream Water Quality and Conveyance Improvements | Under Review | Kurt Woolford Lake Michigan | Capital | Archive | Download |
| <input type="checkbox"/> North Libertyville Estates Pond Project | Under Review | Michelle Pope Des Plaines River | Capital | Archive | Download |
| <input type="checkbox"/> Mariner's Cove Stormwater Retention Pond Shoreline Restoration Project | Under Review | Michelle Pope Des Plaines River | Capital | Archive | Download |
| <input type="checkbox"/> Round Lake Drain Phase 2 | Under Review | Michelle Pope Fox River | Capital | Archive | Download |
| <input type="checkbox"/> Village of Wadsworth-Wadsworth Oaks Subdivision Drainage Improvements | Under Review | Anita Mitchell Des Plaines River | Capital | Archive | Download |
| <input type="checkbox"/> Fox River sediment trap and oxbow improvement project for flood control and water | Under Review | Joseph Keller Fox River | Acquisition | Archive | Download |



The screenshot shows the 'Campbell Court & Tangley Oaks Downstream Water Quality a...' project creation form. The form is divided into several sections: 'Activity', '1. PROJECT INFORMATION', '2. CREATE PROJECT AREA', '3. FINANCIAL INFORMATION', and '4. LOCATION INFORMATION'. The '1. PROJECT INFORMATION' section includes a description of the project: 'WMB Lake Michigan. Concept Plan Development: Increase downstream culvert and storm sewer capacity to alleviate residential flooding along Campbell Court and the southeast detention pond in Tangley Oaks. Also include culvert upgrades under Robert McClory bike path. Potential wetland restoration on Village property adjacent to Sheridan Road (east)'. The '3. FINANCIAL INFORMATION' section includes fields for 'Total' (\$27,000), 'Cost Being Requested' (\$27,000), and 'Additional Cost' (\$0). The '4. LOCATION INFORMATION' section is currently empty. The form has a 'Cancel' button and a 'Submit Project' button.

The [Confluence Project Management Hub](#) for the **Mile High Flood District** includes features such as media galleries, dozens of attributes for each project, team permissions, a user management system, API creation and management, interactive mapping and graphics, exports, and a carefully crafted user research process over the last two years. In early 2023, the SQL data model was replaced for a more modularized approach and the entire code refactored (still in React-Admin), in preparation for significant changes in late 2023 and early 2024.

The top screenshot displays the 'Aurora' project view. It features a map on the left showing a stream network with highlighted project locations. On the right, a list of projects is shown in card view. Two projects are visible:

- West Tollgate Creek GSB Drops**: Westminster, \$400,500, 5 Components, High Priority, 80% completion.
- Piney Creek Channel Restoration**: Westminster, \$400,500, 3 Components, High Priority, 80% completion.

The bottom screenshot displays the 'Boulder County Work Plan' view. It shows a grid of project cards for the years 2023, 2024, 2025, and 2026. Each card includes the project name, location, and status (e.g., Draft). Below the grid is a 'Total Cost' table:

| | 2017 | 2018 | 2019 | 2020 | 2021 |
|--------------|-------------|-------------|-------------|-------------|-------------|
| Total Cost | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 |
| • Boulder | \$170,000 | \$170,000 | \$170,000 | \$170,000 | \$170,000 |
| • Louisville | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 |
| • Superior | \$730,000 | \$730,000 | \$730,000 | \$730,000 | \$730,000 |
| Budget | \$0 | \$0 | \$0 | \$0 | \$0 |
| Differential | \$241,800 | \$241,800 | \$241,800 | \$241,800 | \$241,800 |

TerraMatch (2024) for **WRI's Data Lab** is Vizona's first collaboration with the organization and includes not only performing maintenance activities and bug fixes, but expanding the system to be more geospatially-focused and allow users to create, collaborate, manage and approve (planting area) polygons more easily. From concept to implementation and from new data architectures to design refreshes, Vizona has used Mapbox, MariaDB, SQL, Python, PHP, React and Vercel to release updates quickly. Below is the Admin interface for collecting, validation and approving polygons.

TERRA MATCH Super Admin

Native Seed Centre Shrub SPA

Site Information **Polygon Review** Site Documents Change Requests Monitored Data Audit Log

Polygon Review

Add, remove or edit polygons that are associated to a site. Polygons may be edited in the map below; exported, modified in QGIS or ArcGIS and imported again; or fed through the mobile application.

Site Status: Draft, Awaiting Approval, **Needs More Information**, Planting In Progress, Approved

+ ADD DATA DOWNLOAD APPROVE POLYGONS

Your polygons have been updated. Check Polygons

Polygon Checks

- GeoJSON Format
- WGS84 Projection
- Earth Location
- Country
- Reasonable Size
- Self-intersecting Topology
- Overlapping Polygons
- Spike
- Polygon Integrity
- Feature Type

Site Attribute Table

Edit attribute table for all polygons quickly through the table below. Alternatively, open a polygon and edit the attributes in the map above.

| Polygon ID | Restoration Practice | Target Land Use System | Tree Distribution | Planting Start Date | Source |
|-------------|----------------------|------------------------|-------------------|---------------------|-------------|
| ipsum lorem | ipsum lorem | ipsum lorem | ipsum lorem | ipsum lorem | ipsum lorem |
| ipsum lorem | ipsum lorem | ipsum lorem | ipsum lorem | ipsum lorem | ipsum lorem |

5 Per page

Polygon ID: 1213023412 **Malanga**

Polygon Status Attributes

Validation

Check Polygons

3 out of 14 criteria are not met. Last check at 14:05 on March 5, 2024

- Geometry Overlaps
- Earth Boundary Check
- Size Threshold
- No Self-Intersection
- Feature Geometry Type
- Feature Attribute Schema
- Total Area Similar to Expected

Attribute Information

Polygon ID: 1213023412

Restoration Practice*: 1213023412

Target Land Use System: Riparian Area or Wetl...

Tree Distribution: Single Line

Source: Flority

Version History

Polygon Version: 1213023412

DELETE CREATE

The Project Developer view of [TerraMatch](#) is shown below with a re-organized layout, increased mapping capabilities, and a new monitoring system to assess planting efficacy across thousands of locations.

TERRA MATCH | HOME | OPPORTUNITIES | MY PROJECTS | MY ORGANIZATION | HELP CENTER | SIGN OUT | ENGLISH

My Projects > Faja Lobi reforestation project

Faja Lobi reforestation project

Organisation: Faja Lobi
Priceless Planet Coalition

Status: Approved

EXPORT | EDIT | VIEW FEEDBACK

Overview | Details | Gallery | Progress & Goals | Sites | Reporting Tasks | Completed Reports | Audit Log

Progress & Goals

Workday Count (PPC): **186,911**

Hectares Restored Goal: **2,500**

Trees Restored: **2,245,633** of 2,500,000

Trees Planted: **1,474,934**

Seeds Planted: **430,699**

Trees Regenerating: **1,040,000**

VIEW ALL

Project Area

EXPAND VIEW

Sites:

- Elom Created 15/12/2023
- Iseme 2 Created 15/12/2023
- Punkulu Created 15/12/2023
- Elom Created 15/12/2023

Map | Satellite

Polygon Status | View Images

Project Monitoring

Select the polygon below to view remote sensing analytics such as tree counts, NDVI, and other metrics useful for assessing the impact of the restoration effort.

All Polygons

Tree Count: **462**

Tree Cover 2024: **53.23%**

Total Area (ha): **300.12**

Lookback Disturbance: **2.1%**

Tree Count (Bar Chart):

| Year | Average Number of Trees per Hectare | Number of Trees |
|------|-------------------------------------|-----------------|
| 2020 | ~100 | ~100 |
| 2021 | ~100 | ~100 |
| 2022 | ~100 | ~100 |
| 2023 | ~100 | ~100 |
| 2024 | ~100 | ~100 |
| 2025 | ~100 | ~100 |
| 2026 | ~100 | ~100 |
| 2027 | ~100 | ~100 |
| 2028 | ~100 | ~100 |

EMA SNOVO (Line Chart):

| Year | Tree Cover % |
|------|--------------|
| 2020 | ~40 |
| 2021 | ~40 |
| 2022 | ~40 |
| 2023 | ~40 |
| 2024 | 43% |
| 2025 | ~40 |
| 2026 | ~40 |
| 2027 | ~40 |
| 2028 | ~40 |
| 2029 | ~40 |
| 2030 | ~40 |
| 2031 | ~40 |
| 2032 | ~40 |

Tree Cover Loss (Line Chart):

| Year | Tree Cover Loss (ha) |
|------|----------------------|
| 2008 | ~0.5 |
| 2009 | ~0.5 |
| 2010 | ~0.5 |
| 2011 | ~0.5 |
| 2012 | ~0.5 |
| 2013 | ~0.5 |
| 2014 | ~0.5 |
| 2015 | ~0.5 |
| 2016 | ~0.5 |
| 2017 | ~0.5 |
| 2018 | ~0.5 |
| 2019 | ~0.5 |
| 2020 | ~0.5 |
| 2021 | ~0.5 |
| 2022 | ~0.5 |
| 2023 | ~0.5 |
| 2024 | ~0.5 |
| 2025 | ~0.5 |
| 2026 | ~0.5 |
| 2027 | ~0.5 |
| 2028 | ~0.5 |
| 2029 | ~0.5 |
| 2030 | ~0.5 |
| 2031 | ~0.5 |
| 2032 | ~0.5 |

Interventions (Donut Chart):

| Category | Percentage |
|---------------|------------|
| Agroforestry | 32% |
| Silvopasture | 28% |
| Tree Planting | 50% |

Tree Cover Loss (Pie Chart):

| Category | Percentage |
|----------------------------------|------------|
| Tree Cover Loss by Fire Risk | ~60% |
| Tree Cover Loss by Non-Fire Risk | ~40% |

© TerraMatch 2024

Covid Behaviors Data Platform (2021) for the **Johns Hopkins Center for Communication Programs**. An interactive dashboard with dynamic graphics and maps powered by React, CARTO and a SQL database, with data updated biweekly through a custom interface.

The dashboard features a navigation bar with 'EXPLORE', 'ABOUT', 'FAQ', 'RESOURCES', and 'ENGLISH'. The main header reads 'Global and Regional View of Vaccine Acceptance and Related Behaviors'. Below this is a world map and a text introduction: 'With the rate of the COVID-19 pandemic, people around the world have been acquiring new knowledge, developing attitudes about the disease and adopting new prevention practices. These charts are designed to inform policymakers, public health messages and campaigns related to COVID-19.' There are filters for 'WHO REGION' (set to 'ALL') and 'COUNTRIES' (set to 'ALL').

The 'VACCINES' section is titled 'How does vaccine uptake for a country vary by demographic group?'. It includes a timeline from May 2021 to December 2021. The main chart shows 'WEIGHTED PERCENTAGE' on the x-axis (0% to 100%) for three categories: 'Yes, I am Vaccinated with two doses', 'Yes, I am Vaccinated with one dose', and 'I am not vaccinated'. Each category has a bubble chart with 'Regional Median Percentage' and 'Global Median Percentage' lines. A legend explains the symbols: a blue circle for 'weighted percentage for one country', a vertical line for 'global or median percentage for countries displayed', and a horizontal line for 'regional or median percentage for countries displayed'. A 'DOWNLOAD' menu offers 'IMAGE', 'PNG', and 'JPEG' options.

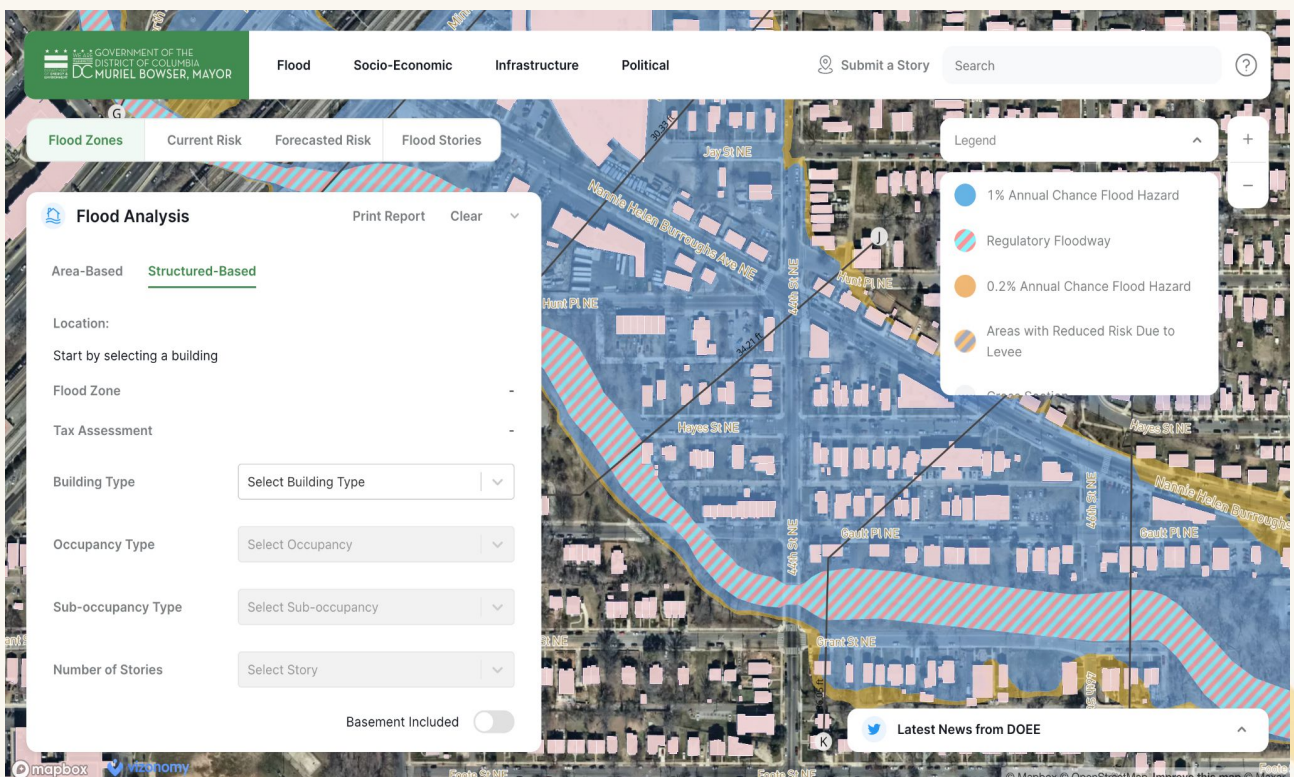
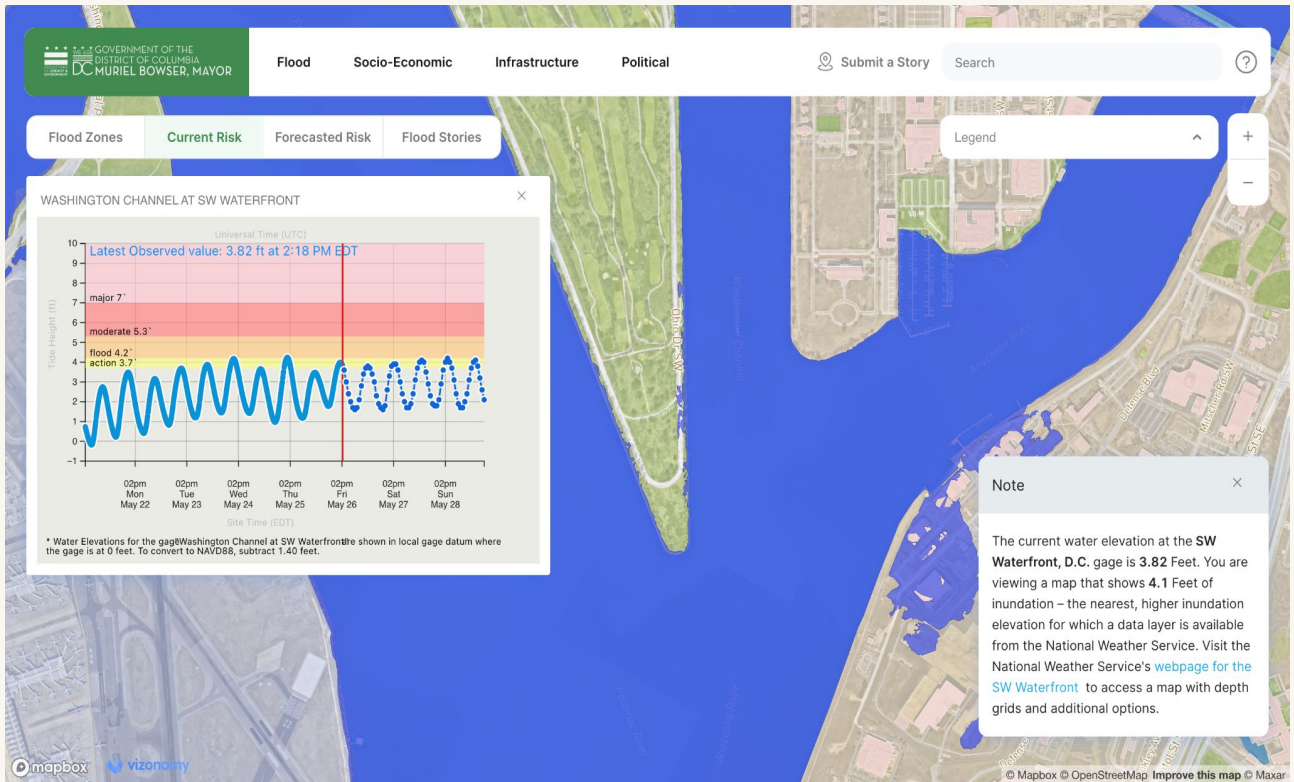
The 'Who is most willing to accept a vaccine within a particular' section shows a bubble chart for 'Unvaccinated People' by gender. The legend includes: 'Will definitely get vaccinated' (dark blue), 'Will probably get vaccinated' (medium blue), 'Will probably not get vaccinated' (light blue), 'Will definitely not get vaccinated' (orange), and 'Vaccinated - with at least one dose' (purple). The chart shows 48% for Male and 52% for Female.

The [Covid Behaviors Data Platform](#) includes a custom uploader that captures CSV, XLSX and Shapefile data, which is subsequently organized into custom data displays.

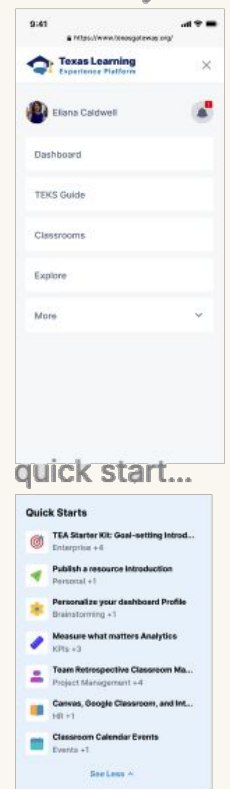
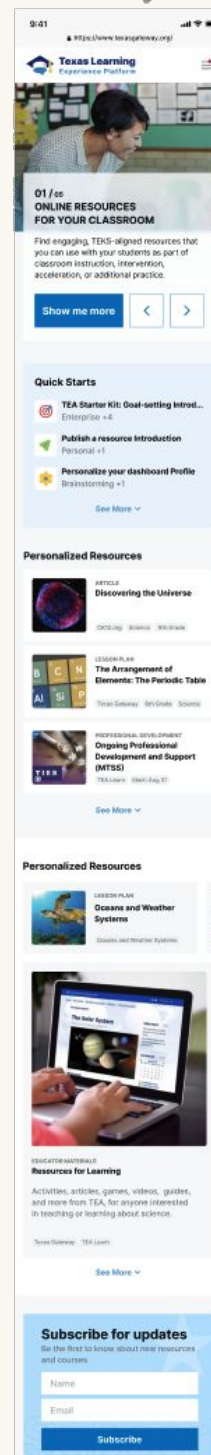
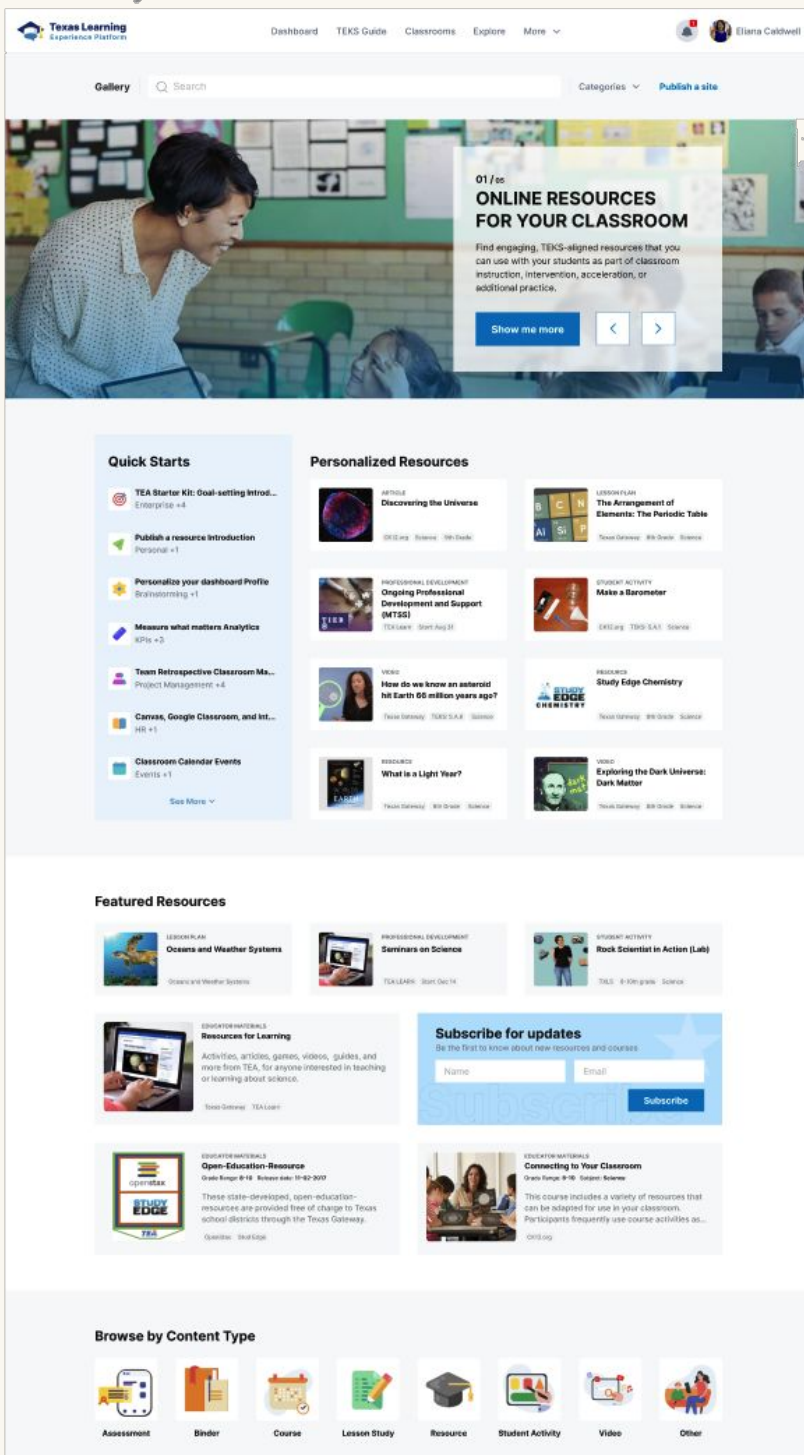
The screenshot displays the 'Covid Behaviors | Administrative Portal' interface. On the left, a sidebar titled 'Country Profiles' (with a count of 5) lists various countries, with 'DRC (the Congo)' highlighted. The main content area is titled 'COUNTRY PROFILE Côte d'Ivoire' and includes a 'PUBLIC ACCESS' section with 'SHOW', 'HIDE', and 'SAVE' buttons. Below this, there are three main sections: 'Import Data' (with sub-sections for 'Tabular Data' and 'Spatial File'), 'Image and CSV Uploader', and 'Reports'. The 'Image and CSV Uploader' section shows a progress bar for 'mbs-cotedivoire-2021.csv' (205.3 KB of 276.3 KB, 75% done) and a 'country-boundary.shp' file (165.7 KB). The 'Reports' section shows an 'other-file.pdf' (165.7 KB). At the bottom, a table lists files with their filenames and URLs.

| Filename | URL |
|------------------|-----------------------|
| KEG-DDF-Station1 | KEG-DDF-Station1.xlsx |
| KEG-DDF-Station2 | KEG-DDF-Station2.xlsx |
| KEG-DDF-Station3 | KEG-DDF-Station3.xlsx |
| KEG-DDF-Station4 | KEG-DDF-Station4.xlsx |


DC Flood Risk Viewer (2023) for **Washington DC's Department of Energy and the Environment** includes dozens of socio-economic, infrastructure and flood related layers connected via API. The viewer is mobile friendly; allows for expected loss analysis at the building or area level; and reporting exports to PDF.




The **Texas Education Agency** and **Google Texas** approached Vizonomy for design and build support of a new content management system with personalized educational resources for teachers. Content is directed to users based on their preference, while Agency admins are responsible for uploading new content through template interfaces. All interfaces shared below are designed by Vizonomy and follow the same design session approach recommended for Terramatch 2.0.




The **Texas Education Agency** provides a simplified interface that allows teachers for content discovery and personalization.


Dashboard TEKS Guide Subjects Explore More



My Learning Paths

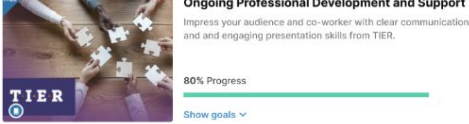
In progress Completed



Resources for Learning
Activities, articles, games, videos, guides, and more from TEA, for anyone interested in teaching or learning about science.

95% Progress

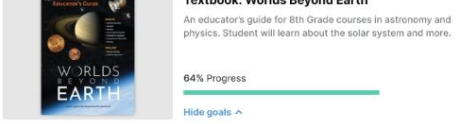
Show goals



Ongoing Professional Development and Support
Impress your audience and co-worker with clear communication and an engaging presentation skills from TIER.

80% Progress

Show goals



Textbook: Worlds Beyond Earth
An educator's guide for 8th Grade courses in astronomy and physics. Student will learn about the solar system and more.

64% Progress

Hide goals

- 1.0 What is a Light Year?**
Lesson, Student Activity, Video, Quiz • 45 min
- 2.0 Stargazers and Sunwatchers**
Lesson, Student Activity, Video, Quiz • 15 min
- 3.0 The Celestial Sphere**
Lesson, Student Activity, Video, Quiz • 30 min
- Finding the Pole Star**
Lesson, Student Activity, Video, Quiz • 20 min
- The Ecliptic**
Lesson, Student Activity, Video, Quiz • 10 min
- 4.0 The Moon: The Distant View**
Lesson, Student Activity, Video, Quiz • 30 min

Quick Links

- Quick Link
- Learning
- Events
- Reports
- Skills
- Admin Tools

Personalized Analytics

| | |
|-----|------------------|
| 25% | Texas Gateway |
| 14% | CANVAS |
| 10% | Google Classroom |
| 8% | CK12.org |
| 43% | Other |

555
Lessons Completed

9
Certificated Achieved

666
Learning Goals Completed

16
Learning Path In Progress

See all

Upcoming Webinars

| | | | | |
|--------|------------------------------|--------|---------|-----------|
| 09 Sep | Introduction to Physics | 50 min | Webinar | + |
| 23 Oct | Better Virtual Communication | 20 min | Webinar | Requested |
| 30 Oct | Earning TEA Accreditation | 50 min | Webinar | Joined |
| 29 Nov | Financial Assistance Program | 50 min | Webinar | + |

Recommended Topics

Search topics

- Astronomy
- Solar System
- Resources from CK12
- Student Activities
- Videos on Supernovas
- Lesson Plans for 8th Grade Science

Suggested Authors

Search instructors


- Kent C. Dodds
- Joe Maddalone
- Andy Van Slaars

Content Type


- Lesson Plan
- Video
- Binders
- Books / Textbooks

Source


- Google Classroom
- CANVAS




Discovering the Universe
Daisy Kato • 19m • Course




The Arrangement of Elements: The Periodic Table
Daisy Kato • 19m • Course




Student Activity: Rock Scientist in Action (Lab)
Daisy Kato • 19m • Course




Educator Materials: Open-Education-Resource
Daisy Kato • 19m • Course




Educator Materials: Connecting to Your Classroom
Daisy Kato • 19m • Course




Manage Application State with Jotai Atoms
Daisy Kato • 19m • Course




Resource: Study Edge Chemistry
Daisy Kato • 19m • Course




Manage Application State with Jotai Atoms
Daisy Kato • 19m • Course




Exploring the Dark Universe: Dark Matter
Daisy Kato • 19m • Course




Education Materials: Resources for Learning
Daisy Kato • 19m • Course




The Arrangement of Elements: The Periodic Table
Daisy Kato • 19m • Course



Discovering the Universe
Daisy Kato • 19m • Course




Planet Earth: Oceans and Weather Systems (Video)
Daisy Kato • 19m • Course



Student Activity: Make a Barometer
Daisy Kato • 19m • Course

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Texas Education Agency
Texas Education Agency
1701 N. Congress Avenue
Austin, Texas, 78701
(512) 463-9734

| | | |
|-----------------------------|----------------------------|--|
| Compact with Texans | Frequently Asked Questions | Trail |
| Encrypted Email | ESCs | Military Families |
| Fraud Hotline | State of Texas | Where Our Money Goes |
| Complaints | Texas Legislature | Equal Educational Opportunity |
| Public Information Requests | Homeland Security | Governor's Committee on People with Disabilities |

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Map | Site Policies | Site Map

Reporting & Delivery

Vizonomy Inc. agrees to provide all necessary documentation and credentials to Lake County Illinois upon project completion.

Acceptance

By signing below, both parties agree to the terms of this contract, and indicate their intent to move forward with the software development project immediately.

Ricardo Saavedra

Vizonomy Inc
Ricardo Saavedra

Lake County SMC
Kurt Woolford

5/26/26