

How Does Sediment-Laden Discharges Affect You?

- Why?
- Current Issues?
- What are your solutions right now?
- Legal Issues?

Why Did We Start Erosia?

Physical solutions:

- BMP blanketing
- Replanting/terraforming the affected area

Polluted water due to erosion:

• Dredging.



This can cost 10s to 100s of thousands dollars, and sometimes even <u>millions</u>

Still, not as bad as a lawsuit...

Well... What Are Your Options To Prevent?

Land Surveying

- Limited accuracy
- Time consuming
- Labor intensive
- Expensive

Current Digital Options

- No visualization
- Steep learning curve
- Hard to understand
- Non-Spatial

• Minimize the Land Use Surveys







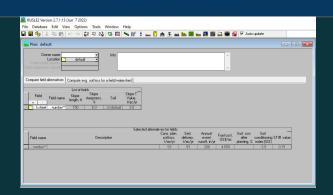
Satellite Image

Land use types automatically detected

- Automates land use analyses using satellite technology
- See how well environment prevents discharge into waterways

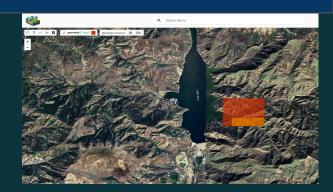
Ease of Use (Workflow)

- No manual data collection needed
- Easy to use
- Visual representation entire study area



Interface for RUSLE2

- Complicated
- Hundreds of different parameters required
- Time consuming process



Interface for Erosia

- Easy to use
- Straight forward (!)
- Web app for easily accessing data

Visual data = better awareness

 Quickly identify whether river/stream is at risk for sedimentation

Evaluate potential discharge risks
 <u>before</u> they happen

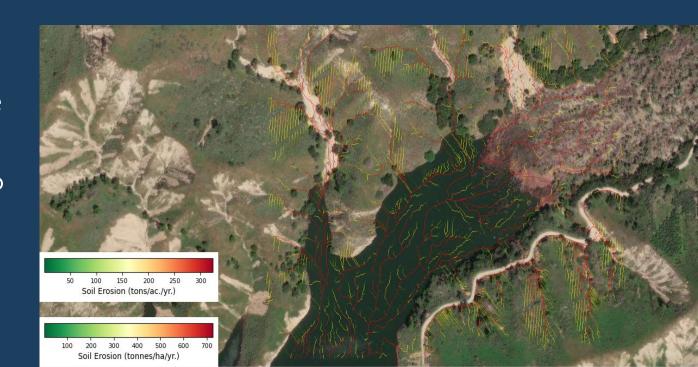
 View <u>the bigger picture</u> of how erosion is occurring throughout Entire study are

 Easily track sources of poor water quality



Quickly view Erosion Hot Spots

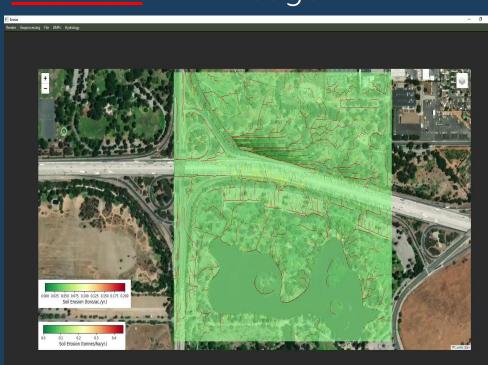
What areas
 Would return the
 Greatest ROI
 on BMP funding?



- STOP Wasting Money on incorrect BMP Usage
- View
 Exactly what BMP
 will minimize sediment-laden discharge
 the most

(Video link):

https://www.youtube.com/watch?v=bt0DUKkU4gU



- Reduced labor cost
- Speed up compliance processes
- Save money
- Quickly identify erosion hotspots

Our vision



Replace Hydrologists



Allow property owners & general public to easily view

Erosion scenarios (avoid lawsuits!)

improve communication in MS4 enforcement

Erosia use cases

- MS4
 - Identify areas of high erosion
 - Identify high priority projects for funding

- Grant funding
- Identify which projects are in need of stabilization
- Watershed plan development
- Identify which areas BMPs should be placed

Methods tested and evaluated by...



Dr. Jerald S. Fifield (Hydrodynamics Inc.)

Book your free demo today!

