



Ushahidi – The Need for Speed

Deploying a crowdsourced crisis map in Vermont

Bill Morris – GeoSprocket LLC



Vermont vs. Hurricane Irene

Washouts in Rochester: photo by Mansfield Heliflight

Ushahidi Deployments Past:



Kenya 2010

Guatemala 2011

FILTERS

BOOLEAN OPERATORS:

- OR [What's this?](#)
- AND [What's this?](#)

CATEGORIES

- TODAS LAS CATEGORÍAS
- FUNCIONARIO QUE INFLUYA PARA BENEFICIAR O PERJUDICAR
- SOBORNO PARA CONSEGUIR VOTOS
- DESTRUCCION DE LA PROPAGANDA POLITICA

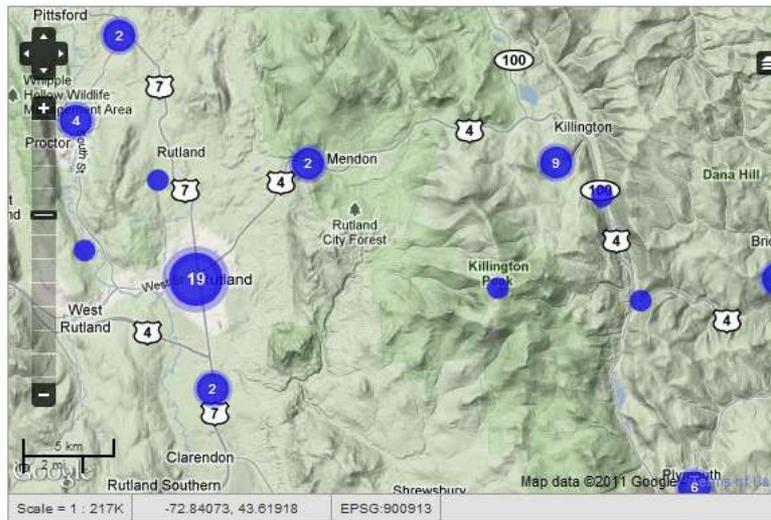
Guatemala 2010



[Click Here for a primer on helping us map the high water marks around the state](#)

FILTERS → [REPORTS](#) [NEWS](#) [PICTURES](#) [VIDEO](#) [ALL](#)

[FULL SCREEN MAP](#)



From: [Aug 2011](#) to: [Sep 2011](#)

[Play](#)



→ CATEGORY FILTER [HIDE]

- ALL CATEGORIES
- DAMAGE DOCUMENTATION
- RECOVERY COORDINATION
 - EMERGENCY SHELTERS
 - DONATION DROP-OFF
 - HELP NEEDED
 - HELP OFFERED
 - FUNDRAISERS
 - CLEANUP PROGRESS
 - TRUSTED REPORTS

→ OTHER LAYERS [HIDE]

- NGA/FEMA - FLOODING (9/11)
- HIGH WATER - JVH

How to Report

- By sending a message to 8028740101
- By sending an email to vtirene.crowdmap@gmail.com
- By sending a tweet with the hashtag/s [#vtirene](#) or [#vtlee](#) or [#vtfloods](#) or [#vtresponse](#)

Web Report Form

[HOME](#)[REPORTS](#)[SUBMIT A REPORT](#)[GET ALERTS](#)[CONTACT US](#)

Thanks for helping out! Vermonters rock!

Submit a New Report

Report Title

Description

Date & Time: Today at 3:42 pm (America/New_York) [+ Modify Date](#)

Categories

- | | |
|--|--|
| <input type="checkbox"/> Damage Documentation <ul style="list-style-type: none"><input type="checkbox"/> Flooding<input type="checkbox"/> Washed Out<input type="checkbox"/> Downed Power Lines<input type="checkbox"/> High Water Mark<input type="checkbox"/> Isolated | <input type="checkbox"/> Recovery Coordination <ul style="list-style-type: none"><input type="checkbox"/> Trusted Reports<input type="checkbox"/> Emergency Shelters<input type="checkbox"/> Donation Drop-Off<input type="checkbox"/> Help Needed<input type="checkbox"/> Fundraisers<input type="checkbox"/> Cleanup Progress<input type="checkbox"/> Help Offered |
|--|--|

Optional Information

First Name

Last Name

Email

Find a location near you

Select a City



mendon, vt

* Search for your location using a location name or latitude,longitude coordinates (format: 38.19,-85.61), or click on the map to pinpoint the correct location.

Refine Location name

Example: Corner of City Market, 5th Street & 4th Avenue, Johannesburg

mendon, vt

News source link

Video link

Upload Photos

No file chosen

Vacuuming in Twitter Updates

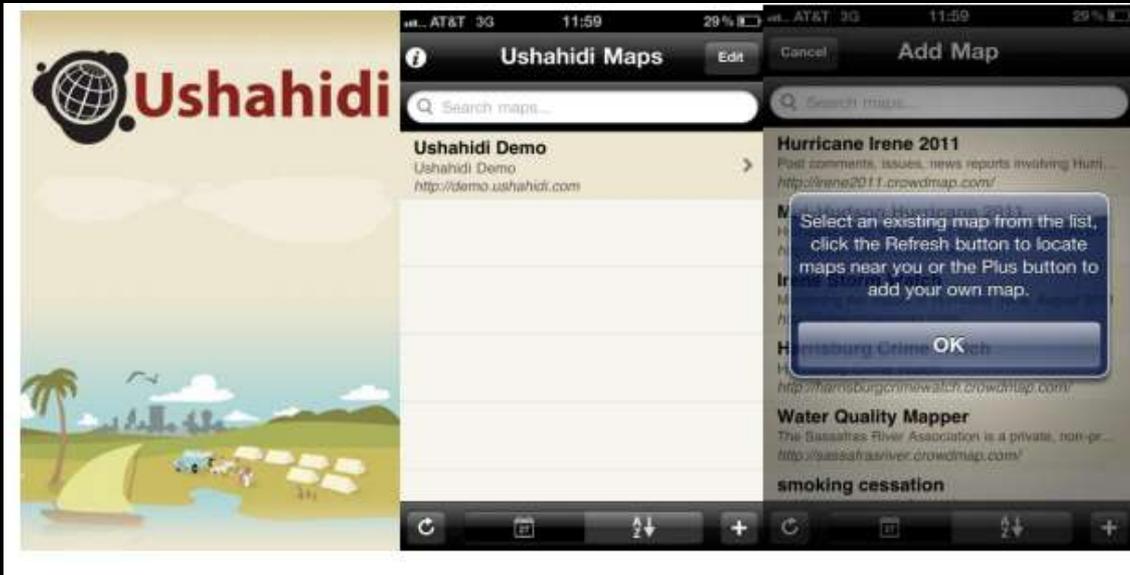
- ▶ #vtirene
- ▶ #vtflood
- ▶ #vtresponse
- ▶ #vtlee



The screenshot shows a Twitter search for #VTirene. The results are as follows:

- Seven_Days** (@SevenDays): So, this is happening: Phish playing first #VT show since '04, to benefit #VTirene victims. 9/14 in Essex. <http://j.mp/qZKTHn> #btv 8 Sep
- hayesbtv** (@MichaelHayes): Phish: A Benefit For Vermont Flood Recovery, September 14th at the Champlain Valley Expo bit.ly/inkDMsq #vtirene #btv 8 Sep
- VTGovernor** (@PeterShumlin): #VTirene update: To date there have been just over 700 homes confirmed as severely damaged or destroyed, and assessments continue 8 Sep
- VTEducation** (@VTDeptofEducation): One way to help the #VTRecovery is to donate to Leland & Gray's free hot breakfast program. <http://ht.ly/8mVXw> #VTirene #vtED 8 Sep
- VTGovernor** (@PeterShumlin): Program to help homeowners affected by #VTirene 1.usa.gov/lpcDAkd #vtgov @vermontgov 8 Sep
- merrittmaxim** (@Merritt): Amazing aerial shots of #irene damage in VT-worth looking at bit.ly/ocOkbJ #VTirene 8 Sep
- brendankinney** (@brendankinney): Info for #VT Residents Who Need Help With FEMA Applications - <http://ow.ly/6mVWw> #VTirene #VTRecovery 8 Sep
- beauthebault** (@BeauThebault): #VTirene #VTRecovery A few spots left Free coaching 4 small biz + home owners to sort out make sense of recovery bit.ly/q7gogG RT 8 Sep
- 802theApp** (@802theApp): Happy to RT! @beauthebault Free coaching for small biz and home owners to sort out/make sense of #VTirene recovery - bit.ly/q7gogG Pls RT! 8 Sep
- hpsbark** (@Hannah): Met a man this am who lost his house to fire 2yrs ago. Rebuilt & #VTirene washed it away. He was out helping others & praising #VTResponse! 8 Sep

Reporting via Smartphone!



Mobile reporting encounters a few hitches

Street Address

City, State or Zip



Generated: 9/14/2011

Select Coverage Type

Voice & Messaging ?
Voice Calls
Text Messaging

Data Coverage ?
Mobile Broadband
NationalAccess
V CAST - Video/Music
Email/Web/Messaging
VZ Navigator/Family

4G Data Coverage ?
4G

Push to Talk ?
Push to Talk

Prepaid ?
Prepaid

Map Legend

Digital Coverage

No Coverage

[International Coverage](#)

8 days late to the party . . . SMS and voice-to-text via Google Voice!



In the Background . . .

Dashboard

Reports

Messages

Stats

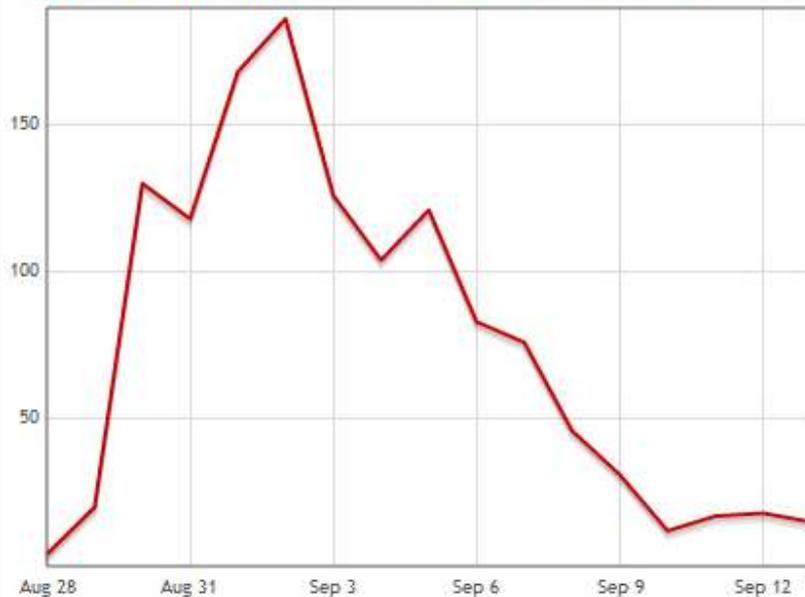
Addons

Settings Manage Users

Dashboard

Reports Timeline

View: [Today](#) | [Past Month](#) | [Past Year](#) | [All](#)



Recent Reports

[View All](#) |

5:59 PM [Help Needed: Brattleboro 9/14-9/16](#)

The Brattleboro Housing Authority needs volunteers Wednesday, September 14th - Friday, September 16th to help in the temporary relocation of some Mel...

ACTIVE:
VERIFIED:
SOURCE:

Quick Stats

	Reports	1,275
	Not Approved	(0)
	Categories	14
	Locations	912
	News Feeds	473
	Messages	15,149
	SMS	(0)
	Email	(1)
	Twitter	(15148)

Live News Aggregation via RSS

Dashboard Reports Messages Stats Addons Settings Manage Users

[Categories](#) [Blocks](#) [Forms](#) [Sharing](#) [Pages](#) **News Feeds** [Layers](#) [Scheduler](#) [Public Listing](#) [Actions](#) [Badges](#)

Feeds Feed Items

REFRESH NEWS FEEDS

Feed	items	Actions
Dan Dowling's News Aggregator [View Items] http://www.scoop.it/t/vtirene/rss.xml	97	Edit Visible Delete
Governor's Updates [View Items] http://governor.vermont.gov/blog/feed	24	Edit Visible Delete
VPR News [View Items] http://www.vpr.net/news/rss.xml	138	Edit Visible Delete
VT Response [View Items] http://vtresponse.wordpress.com/feed/	154	Edit Visible Delete

1 Pages 1

Add/Edit

Feed Name:

Feed URL:

SAVE

Additional Layers via KML and CSV

Dashboard Reports Messages Stats Addons Settings Manage Users

Categories Blocks Forms Sharing Pages News Feeds **Layers** Scheduler Public Listing Actions Badges

Layers	Color	Actions
7dvt Reader Reports KMZ/KML File: 13151933877dvtirene090411.kml [Delete]		Edit Visible Delete
Herald of Randolph Feed KMZ/KML File: 1314842505Herald_083111.kml [Delete]		Edit Visible Delete
High Water - JVH KMZ/KML File: 1315948472Compiled_JVH_091311.kml [Delete]		Edit Visible Delete
NGA/FEMA - Flooding (9/1/11) KMZ/KML File: 1315246838HURRICANE_IREME_FLOODING_1SEP2011_vt.kml [Delete]		Edit Visible Delete
NGA/FEMA - Impassible Roads (9/1/11) KMZ/KML File: 1315246858HURRICANE_IREME_IMPASS_RD_1SEP2011_vt.kml [Delete]		Edit Visible Delete
User Road Updates (Unverified) KMZ/KML File: 1315763276Googleroads091111.kml [Delete]		Edit Visible Delete

1 Pages 1

Add/Edit

Layer Name: Layer URL: Color:

Upload KMZ/KML File:
 No file chosen

As Irene unfolded . . .



Google Crisis Map Integration

crislanding.appspot.com/7crisis=2011_flooding_vermont

vtirene-tweets vtirene-news USSearch - Member vtirene-scheduler Advanced Hydrolog... Tables/Benches | he...

Enter an address, then press and select from menu

Share Map Satellite

User submitted report from vtirene.crowdmap.com

Help/Equipment Needed 9/13: Waitsfield

DESCRIPTION: Kubota Bobcat to move gravel for hole filling. Contact Bryant 496-7133 bryant@madriverfarm.com End of Kingsbury Road, Waitsfield. (via MRV)
CATEGORY: Trusted Reports, Help Needed, Cleanup Progress
DATE: Sep 12, 2011 7:29:00 PM
LOCATION: kingsbury rd waitsfield vt
LATITUDE, LONGITUDE: 44.160093, -72.837697
APPROVED: True
VERIFIED: True

[View report details](#), including images and links.
[Submit a new incident report](#)

VT State Bridge Closures
Zoom to area - Download KML
Legend
Bridge Closed
Bridge Open, Reduced Levels
Source: Vermont Agency of Transportation

Local Roads and Bridges
Zoom to area - Download KML
Legend
Closed
Limited Service - Expect Delays
Bridge Closed
Bridge Open, Reduced Levels
Errors and omissions may exist. Please exercise caution when driving in affected areas!
Source: VT Regional Planning Commissions - vapda.org and ccrpvt.org

CVPS Power Outages
Zoom to area - Download KML
Legend
0-50 customers affected
51-150 customers affected
151-500 customers affected
501+ customers affected
Source: Central Vermont Public Service

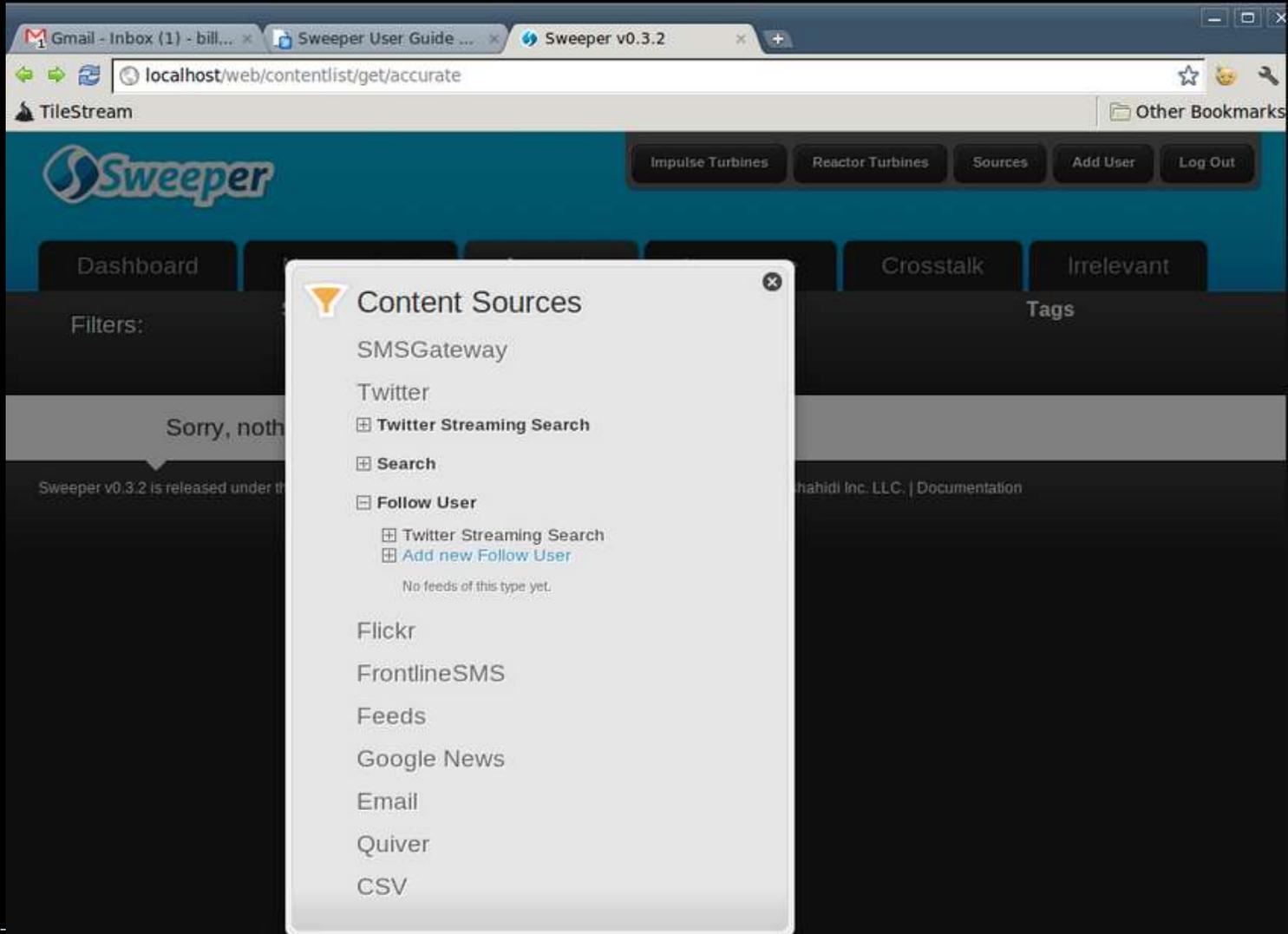
Crowdmap: Vermont - Irene
Zoom to area
Legend
User submitted reports
Source: vtirene.crowdmap.com

USGS Real-time Streamflow (VT)
Zoom to area - Download KML
Note: Layer may take a few moments to load.
Legend
Dry Normal Wet

© Google · Google.org Crisis Response Home · About this map

Google Crisis Response

Oh, the Potential: Ushahidi Sweeper

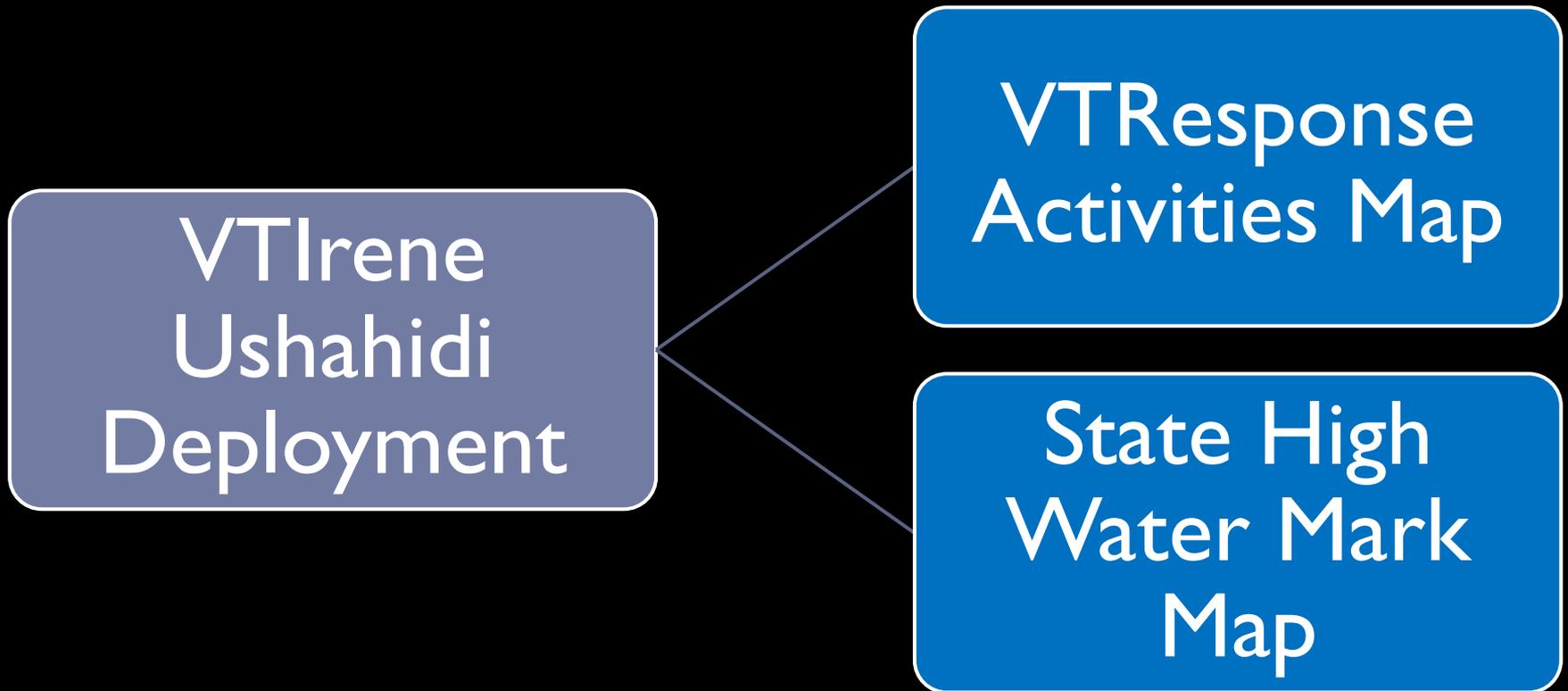


The screenshot displays the Ushahidi Sweeper v0.3.2 web interface. The browser's address bar shows the URL `localhost/web/contentlist/get/accurate`. The page features a teal header with the 'Sweeper' logo and navigation buttons for 'Impulse Turbines', 'Reactor Turbines', 'Sources', 'Add User', and 'Log Out'. Below the header, there are tabs for 'Dashboard', 'Crosstalk', and 'Irrelevant', and a 'Tags' section. A modal window titled 'Content Sources' is open, listing various content sources: SMSGateway, Twitter, Twitter Streaming Search, Search, Follow User (with sub-options for Twitter Streaming Search and Add new Follow User), Flickr, FrontlineSMS, Feeds, Google News, Email, Quiver, and CSV. The modal also includes a note: 'No feeds of this type yet.'

Crisis Mapping vs. Citizen Science



Going Forward:



Take-Home #1

Be Local



Take-Home #2

Plug Into All the Channels



Strapped for Time? Start Here:

www.crowdmap.com

