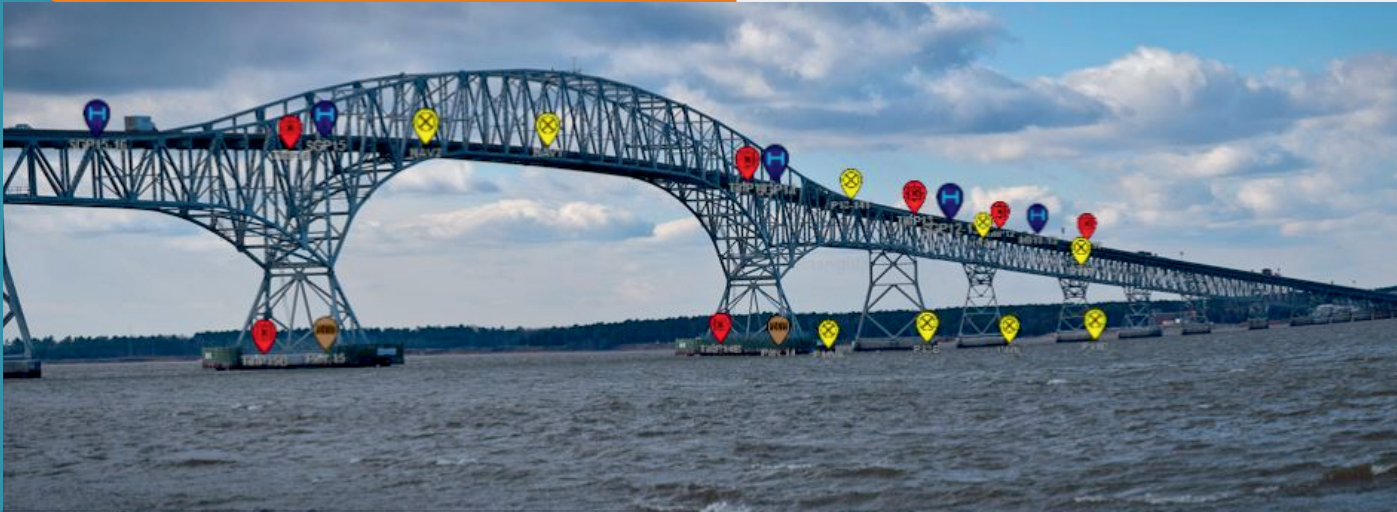


# Terraweb

## Introduction

Terraweb is a monitoring tool designed for surveyors, geologists, civil engineers and more. It is a web based platform, built on top of Terramove and Terramove 3D databases, as a solution that can be deployed on self-hosted servers, or be served as a service. Using Terraweb, engineers can inspect measurements from a variety of topographical, geotechnical and environmental sensors. Furthermore it supports a lot of useful features like real time alerting and TBM monitoring.



## Features

- View Vector Displacement History
- View Vertical deformation history in contours
- 3D Inclinometer charts
- Custom chart page
- Custom sensor
- User friendly environment
- Load geojson files
- Automated reporting system

## Supported sensors

- Surveying points
- Geotechnical sensors
  - Piezometers
  - Inclinometers
  - Load Cells
  - Seismographs
  - Tilts
  - Straingages
  - Extensometers
  - Thermistors
  - etc.
- General sensor

## Geotechnical Instruments

Supported geotechnical instruments of Terraweb are the following:

- Piezometers
- Vibrating Wire Piezometers
- Crackmeters
- Load Cells
- Pressure Cells
- Extensometers
- Tilt Sensors
- Strain Gauges
- Strain Gauges (in Average form)
- Inclinometers
- Sliding Micrometers
- Magnetic Extensometers
- Vibrating Sensors
- Noise Sensors
- Thermistors
- Custom General sensors
- Seismographs

## Various Data•

Meteorological Data•  
Geological Data



US BRANCH



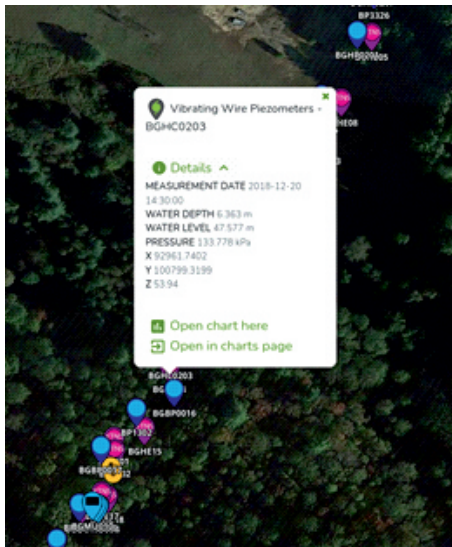
INDIA BRANCH



EU BRANCH

## Plan View

Map view was built on the principal of the quick peek on a live map. Sensors are placed exactly where there are in the field, so users are able to get an idea of the whole project in a single view, get an idea about what is happening in each sensor, get some quick access to the diagrams, etc. From the Project map section the user can view the Displacement Vectors of the overall movement of the points as well as the deformation contours. The user can also view the features above in time series animation. Plan View is a feature that allows GIS implementation on the system. The user can have view of geojson files, drawings, raster images and various tile servers on the project.



## Alerts

Terraweb supports real time Alerting. This happens in the Alerts section. Specified users can receive real time alerts via e-mail or SMS for measurements that have exceeded reference/alert or alarm limits. The alerts happen in two steps. Step 1 is when the project moderators receive the alertReportst, decide whether it is an actual alert or just a false measurement, and if it is an actual alert (step 2) they redirect to the users interested. This happens in order to avoid unnessecary alerting and panicing.

Alerts

From this page you can view and manage sensor alerts.

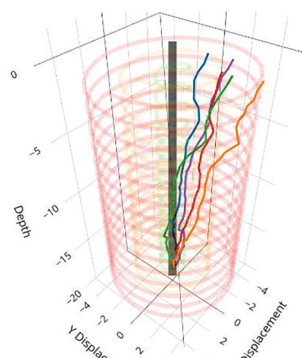
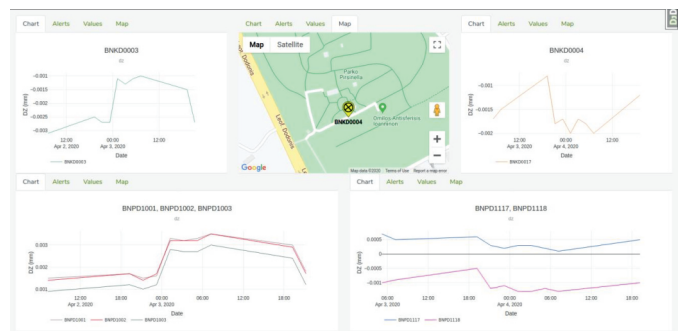
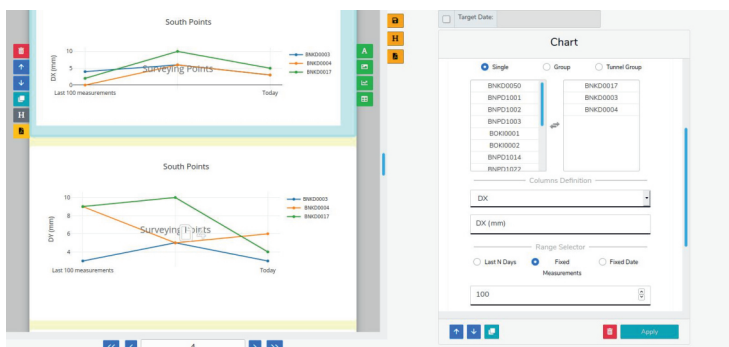
Alert Rules Refresh Alerts Auto update

Date from 02/23/2018 0 Date to 03/24/2020 0 Alerts per page 100 v Sort by Date v Sort type Descending v Page: 2

Type	Sensor	Field	Date	Value	Limit
REFERENCE	T1BB Surveying Points	DY	2019-09-27 13:51:00 about 6 months ago	-0.0206	0.015
REFERENCE	T1BB Surveying Points	DOCL	2019-09-27 13:51:00 about 6 months ago	0.0194	0.015
REFERENCE	T1BB Surveying Points	DY	2019-09-27 13:51:00 about 6 months ago	-0.0234	0.015
REFERENCE	A4 Surveying Points	DX	2019-09-27 13:51:00 about 6 months ago	0.0216	0.015
REFERENCE	A4 Surveying Points	DZ	2019-09-27 13:51:00 about 6 months ago	-0.0216	0.015
ALARM	AS Surveying Points	DOCL	2019-09-27 13:51:00 about 6 months ago	0.0501	0.035
ALERT	AS Surveying Points	DX	2019-09-27 13:51:00 about 6 months ago	0.0313	0.025
ALARM	AS Surveying Points	DY	2019-09-27 13:51:00 about 6 months ago	-0.0404	0.035
REFERENCE	AS Surveying Points	DZ	2019-09-27 13:51:00 about 6 months ago	-0.0179	0.015
ALARM	AB Surveying Points	DOCL	2019-09-27 13:51:00 about 6 months ago	0.0352	0.035
REFERENCE	AB Surveying Points	DX	2019-09-27 13:51:00 about 6 months ago	0.0203	0.015
ALERT	AB Surveying Points	DY	2019-09-27 13:51:00 about 6 months ago	-0.0303	0.025

## Reports

The Reports section is responsible to generate automated reports based on a template that includes texts, charts, data tables and images. These reports are designed to be produced dynamically on specific target dates set by a moderator of the project.



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