Presentation

About

IRock

IRock is an end-ofstudies project Polytech Grenoble, led by four RICM students .The aim of this project is to create a sensor's network to advice landslide.

We build rocks with sensor, who are left inside sensitive area.

Sensors data are send to a server, who calculate rocks position and have a user-friendly application for data visualisation. Technologies used :







RICM5 Project



Polytech Grenoble



Sensors

Server -

Application

To predict landslide ,we have two main type of sensor nodes :

- Weather station (temperature, wind, rain)

- Rocks (accelerometer)

Data are send by LoRA, a high distance radio protocol



Our server treat and stock data inside Excel Files and database.

We calculate the position of each rock by a triangulation algorithm based on signal strength





Wiki : http://air.imag.fr/index.ph p/Proj-2014-2015-iRock Contact : Irock-ricm2015@googlegroupes.com Due to grafana , you can visualise data inside a friendly-user web application. You can zoom on graph, customize your dashboard and select data easily.

If you want use raw data, you can download an Excel File for each node of the network

