Real-time Decision Support System for Infrastructure and
Logistics Management Disastrous Situations
Arctic Donkeys

Sprint Evaluation

What is the progress of your project in this sprint? What goals are achieved? What problems are overcome? If you are updating your plans what are your justifications?

We have completed writing SRS. We also interviewed with Onur Deniz. During conversation, we decided to create synthetic data when there is not enough resource. SAP gives flexibility about making decision about details of the project. For data collection part, we have contacted with İBB and TUIK. They gave ground information of İstanbul and the number of people per building. However, they cannot share building construction details and more specific information because of publicity issues. Nevertheless, we have found how many buildings have been built since 2002 and their number of floor information. From these, we have started to create synthetic building data. In addition, we have consulted to Burcak Basbug Erkan head of the Disaster Management and Implementation Center at METU; however, it is an SAP based project and she implied that it wouldn't be ethical in case of sharing data with the SAP. Then, we have decided to first focus on earthquakes and after the modeling part, we will show the shortest path to reach high prioritized destination and show the modeling result on heat map on chosen GIS. To do this, we have examined different GIS softwares. Since we give priority to select open source GIS to modify it in necessary points, first we've chosen GRASS GIS. In order to have an idea about this software, we had watched several tutorials. After that, we have used commands to draw a simple map. When issue has been come to the compatibility of GRASS GIS and SAP HANA there has been no resource about connecting these two softwares. Then, we have decided to change GIS software. As a result of quick Google search, we have found lots of sources about ArcGIS and SAP HANA connection. Then we have selected ArcGIS. However, this is not a free software. For now we are using free trial to work on it. We have also talked to Onur Deniz about getting the full version of ArcGIS. As a result of the conversation, we decided to send a detailed email to ArcGIS owners regarding owner, process and aim of the project to get a licensed software. We are still waiting for the response. At the same time, we have continued to watch SAP tutorials. Since ArcGIS is only compatible with Windows, we have established SAP HANA on Windows. We haven't connected ArcGIS and SAP HANA yet. We have decided to reach SAP HANA cloud on Eclipse environment. We have completed all the things, except ArcGIS and SAP HANA connection, mentioned in last sprint's backlog.

Team evaluation

How well your team working together? How many meetings did you hold? Are you planning any changes in your cooperation strategy? Which work is completed by which member (in a Gannt chart)?

As a team, we have good division of labor. We have met 4 times until last sprint. All of the team members continues to follow SAP HANA tutorials. Two of us have completed to establish SAP HANA environment and we will mainly focus on database work and connect it to ArcGIS in next sprint. One of the team members will focus on creating and gathering data. Two of us have worked on ArcGIS and GRASS GIS environment. Everyone completed his/her own work on time.

Task	Assigned Member	1st Week				2nd Week				3rd Week			
Following SAP tutorials	All members	+	+	+	+	+	+	+	+	+	+	+	+
Writing SRS	All members	+	+	+	+	+	+	+	+				
SAP HANA installation and database accessibility	Goksucan Akın & Arda Aslan									+	+	+	+
Data gathering	Onur Yılmaz					+	+	+	+	+	+	+	+
ArcGIS and GRASS GIS instalation and related tutorials, works	Miray Mazlumoglu & Arda Aslan	+	+	+	+					+	+	+	+

Backlog Updates

What are your backlog updates?

Synthetic data generation.
Upload these data into SAP HANA cloud database.
Database operations on SAP HANA.
ArcGIS-SAP HANA connection.
Basic user interface creation.