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 completed the data gathering process. We have also done with ArcGIS implementation. Now, we know which way we will use to visualise outputs on ArcGIS interface. In addition to these, we have started to draw borders by using parabola and line equations. However, this is not a complete way to show real borders. We have investigated some methods to show real borders of districts that can be implemented on ArcGIS; however, ArcGIS does not support such way in trial version. Actually this is not a problem since application will be used with real coordinated buildings not the synthetic one. Nevertheless, we have decided to improve border by roughly drawing the smaller areas then adding the additional points outside the small borders. We have implemented this for Kadıkoy district in this sprint. Additionally, we have changed the coding for user interface. While we were implementing the user interface, we used Java Swing but, for the consistency, we have used Java FX. By using Java FX, we get more dynamic, professional and user friendly interface. Another reason for choosing Java FX is to fix visual bugs that we have encountered in Java Swing.Now, we have more smooth user interface. Other than these, we have completed the elevator pic assignment as well as poster to contribute introducing the project to people. We are working on connecting Java to ArcGIS since we used two steps to connect them each other (one is result creation on Java API the other one is compiling script code using results to visualise them one GIS). There is a limited number of sources related to this issue, then this is still in progress. We have started to implement algorithm part. First, we have done with attenuation equation which is the one of the milestones of the earthquake dependent destruction estimate process. We have consulted to Etkin Hasgul from Disaster Management and Implementation Centre for creating more detailed algorithm. He and his colleagues will help about this issue. Now, we will more focus on algorithm part which is the one of the most important part of the project. Drawing borders of other districts in Istanbul and connecting Java to ArcGIS are secondary works for us.

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. Two of us are working on visualisation and border detection. Three of us are working on algorithm implementation. One of us regularly meets Etkin Hasgul for algorithm determination. Two of us are responsible for designing poster and recording elevator pic. One of us working and implementing of user interface. Everyone completed his/her own work on time.

Task	Assigned Members	1st Week	2nd Week
Elevator Pitch	Onur Yılmaz Göksucan Akın	+ +	+ +
Poster Design	Onur Yılmaz Göksucan Akın		+ +
Algorithm Implementation	Zeynep Miray Mazlumoğlu	+	+
	Arda Aslan	+	+
	Onur Yılmaz	+	+
User Interface Implementation	Göksucan Akın	+	+
ArcGIS and Border Detection	Zeynep Miray Mazlumoğlu	+	+
	Arda Aslan	+	+

3

Backlog Updates

What are your backlog updates?

Further algorithm design and implementation
Connection between Java API and ArcGIS
Border design for more districts