Ukraine C-IED Project

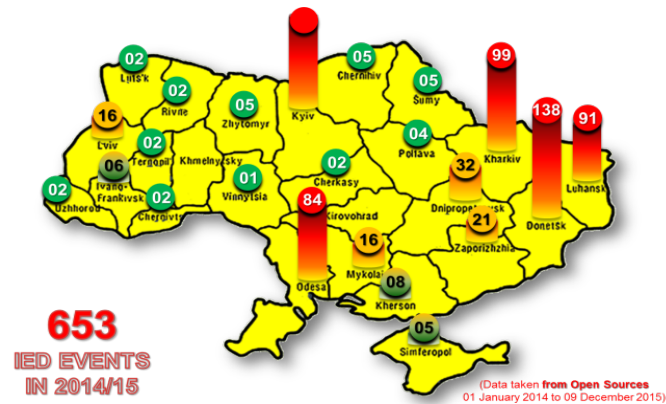**Online Studio 3 Group 3**

Valérie Lavigne, valelavi@gmail.com

Marius Panga, marius.c.panga@gmail.com
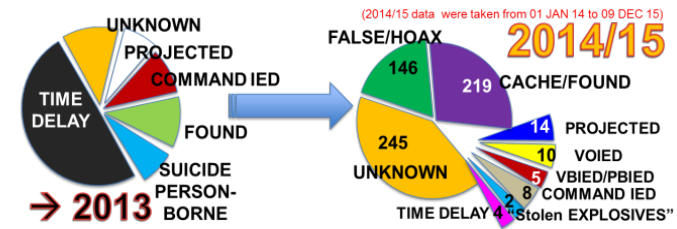
Jayaram Shivas Vadakumpuram, shivasj@gmail.com

Current Visualization

653 IED EVENTS IN 2014/15

(Data taken from Open Sources 01 January 2014 to 09 December 2015)
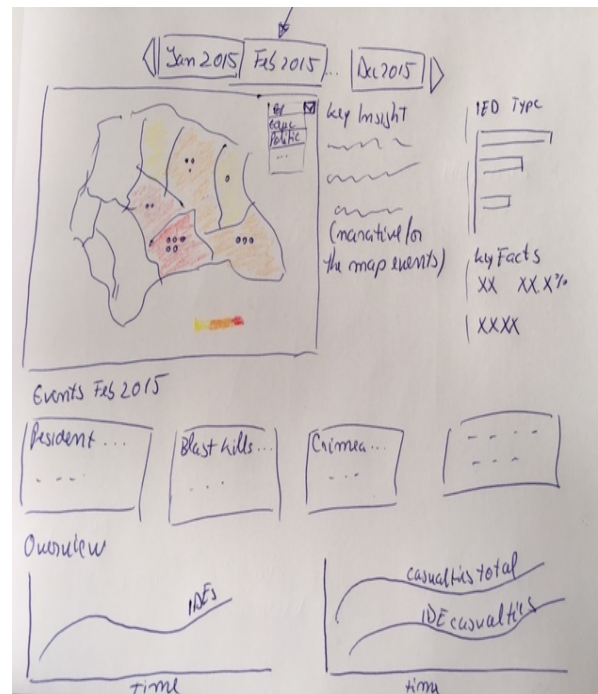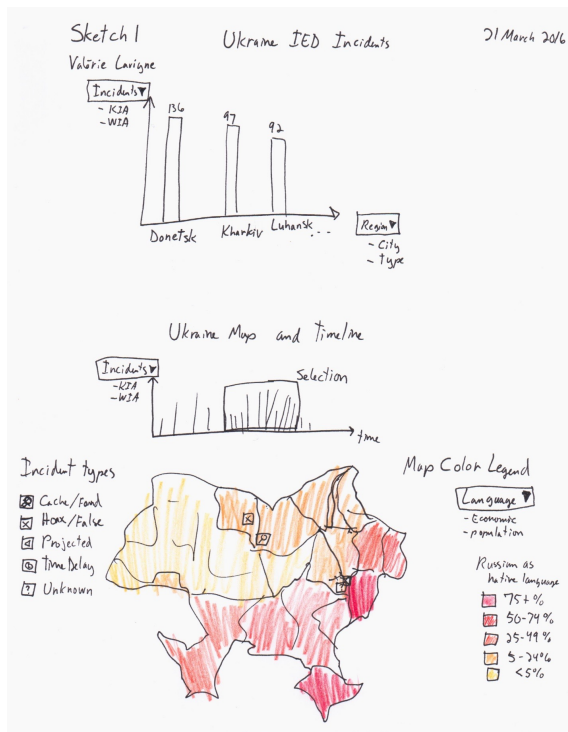
Goals

- Is there a temporal pattern in the number of IED incidents?
- Where are the IED incidents located within Ukraine?
- How do the incidents relate to the conflict in Eastern Ukraine? Is there a relation between he number of incidents and the distance to the conflict zone and the political situation?
- Do the ratios of incidents remain stable over time between the different regions? Do the incidents seem to move from one region to another?
- How does the rate of IED incidents relate to the total number of reported casualties and injuries?
- Do the different types of IEDs have interesting geo-temporal patterns?
- Is the number of incidents correlated with regional census data.
- Can we correlate any spikes or patterns in the data with political developments in the conflict (Crimea Annexation, agreed Ceasefire, Ukraine elections …)
- Is there any additional insight that can be obtained from the free-text incident description field in the main data source?
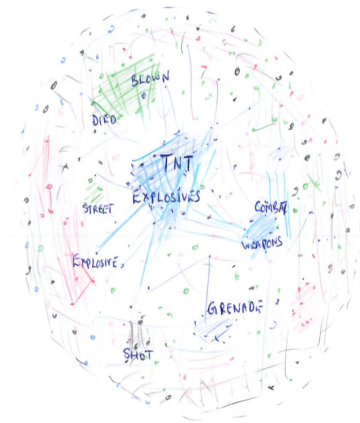
Tasks

- **Data analysis:**
  - go over all the candidate data sources and selecting the bits of data that will be relevant to the project
- **Data gathering:**
  - while our main data source is already in a structured format, the additional sources are not(news articles, PDF files, images). This step involves getting all the relevant data into a structured format (txt or cvs files)
- **Data cleaning:**
  - make sure the data that has been identified as relevant is in a consistent format. Standardize the handling of incorrect or missing data, as well as any formatting issues
- **Data filtering:**
  - based on the data analysis outcome, remove any data that is needed for the visualization
- **Data model design:**
  - identify the JavaScript entities that will contain / reference the source data

Sketches

Data

- Ukraine IED Incidents Data
- Ukraine Map Data – geojson/topojson
- Ukraine Census Data
- Ukraine 2010 Presidential Elections Data
- Ukraine Conflict Timeline
- Ukraine Conflict Causalities and Injuries Data